

TREE PROTECTION SCHEME

(ARB. METHOD STATEMENT & TREE PROTECTION PLAN IN
ACCORDANCE WITH BS 5837:2012)

CLIENT - Barton Peveril College
PROJECT - Barton Peveril College
DOC. REF - P2823-TPS01 V2
PLANNING REF - n/a
CREATION DATE - 31/05/2023

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PURPOSE OF DOCUMENT

This document details the methodology behind the installation of any required tree protection measures, and any demolition and construction activities with the potential to cause harm to the site's trees.

The methods outlined in this document must be implemented as per this document. Failure to do so may result in a breach of planning or significant fines.

COMPLIANCE WITH BS 5837:2012

This document has been produced in accordance with BS 5837:2012

ARBORICULTURAL DOCUMENT REGISTER

Planning Documents		Version Issued	
Document	Ref.	Current Version	Document Date
Arb. Impact Assessment	P2823-AIA01	V2	16/12/2022
Arb. Site Plan (Existing)	P2823-ASP01	V1	11/12/2022
Arb. Site Plan (Proposed)	P2823-ASP02	V1	11/12/2022

Technical Documents		Version Issued	
Document	Ref.	Current Version	Document Date
Tree Protection Scheme	P2823-TPS01	V2	31/05/2023

1. GENERAL INFORMATION

1.1. USE OF DOCUMENT

- 1.1.1. This document has been produced to assist key design and construction personnel in ensuring the satisfactory protection of all important trees present within the development site.

1.2. SITE

- 1.2.1. The site discussed within this report is located at:

Barton Peveril College,
Chestnut Avenue,
Eastleigh
SO50 5ZA

2. ADMINISTRATIVE DETAILS

2.1. SCOPE OF DOCUMENT

- 2.1.1. This document consists of the following:

- Arboricultural Method Statement

- 2.1.2. Appendices included with this report are:

- Tree Protection Plan (P2823-TPP01)
- CEZ Notice
- Schedule of Arboricultural Supervision

2.2. PROJECT CONTACTS

Role	Name	Telephone	Email
Arboricultural Consultant	Ben Hallinan	01284 598008	benjamin@lignaconsultancy.co.uk

2.3. AUTHOR

- 2.3.1. Benjamin Hallinan is a professional member of the Arboricultural Association. He has worked in arboriculture for over a decade, including management and supervisory roles undertaking both domestic and commercial arboricultural work. He possesses a FdSc in arboriculture, LANTRA Professional Tree Inspection training, and has also received advanced training in tree related subsidence and BS 5837. A full CV and list of experience and CPD is available on request.

2.4. SUMMARY OF TERMS

Term	Definition
Species	The type of tree.
Stem	The main woody upright portion of a tree that is supported by the roots and supports the crown.
Branch Spread	The length of a tree's branches from stem to tip measured from the north, east, south and western sides of the crown.
BS 5837	The commonly used name for the official guidance document relating to trees and development (<i>BS 5837:2012 - Trees in relation to design, demolition and construction – Recommendations</i>)
Canopy / Crown	The branches, leaves, and reproductive structures extending from the trunk or main stems of a tree/trees.
DBH	Diameter of a tree's stem, measured as per BS 5837:2012
RPA	The root protection area (RPA) is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority.
Facilitation Tree Works	Tree pruning/felling required in order to facilitate the implementation of the proposed development.
Tolerance	The relative tolerance the species can show to construction related activities such as root-loss, soil compaction and other development pressures.
Category (Cat.)	Categorisation of the tree's value based on the methodology shown in Appendix 1, A1.4. This rating takes into account the size, quality, condition, estimated remaining life expectancy and legal status of each tree.

2.5. LIMITATIONS

- 2.5.1. Any engineering solutions presented within this document are recommendations for their suitability from an arboricultural viewpoint. The architect and structural engineers should make the final decision on the suitability of the methods advised.
- 2.5.2. Information provided by third parties, considered in the creation of this report, is assumed to be correct.

2.6. COPYRIGHT

- 2.6.1. This report was prepared for use by the Clients and their contractors for planning purposes. The report and its appendices may not be copied, modified, or distributed beyond the necessary parties without the written consent of Ligna Consultancy Ltd

3. RESPONSIBILITIES

3.1. DISTRIBUTION

- 3.1.1. It is important to ensure everyone involved in the planning and design of the proposed development is aware of this report and has access to a copy as soon as it is released.

3.2. RESPONSIBILITIES

- 3.2.1. Successful implementation of tree protection measures and long-term tree retention depends on coordination between the client and key personnel involved in the development.

- 3.2.2. The client and agent shall ensure that:

The site manager and all other personnel are provided with this document.
All planning conditions relating to underground works, services, trees, and landscaping are cleared before development commences.
All requirements of this Tree Protection Plan are adhered to.
The site manager is updated of any approved changes or variations to this document

- 3.2.3. The client and site manager shall ensure that:

A copy of this document with the plan is easily accessible for site personnel to refer to before and during the time construction activity is taking place.
All personnel working on the site are made aware of the tree protection plan and arboricultural method statements covering any activities they will undertake. This duty includes delegating the task of briefing personnel in the absence of the site manager.
The tree protection measures are left in place until the construction phase of development is completed, except with the written consent of the LPA.
Site personnel are updated of any approved changes or variations to the approved tree protection measures.
All personnel must work in accordance with this document at all times, or in accordance with approved variation.

3.3. PROCEDURES FOR INCIDENTS

3.3.1. If any breach of the approved tree protection measures occurs the site manager must:

• The Local Planning Authority Tree officer or other Planning Officer and the Author of this report shall be notified.
• The site manager must be informed immediately.
• Swift action must be taken to halt the breach and prevent any further breach.
• Damage mitigation measures appropriate to the scale of the incident will be deployed where required.

3.4. PROHIBITED ACTIVITIES

3.4.1. The following must not be carried out under any circumstances:

• Cutting down, uprooting, damaging or otherwise destroying any retained tree.
• Lighting a fire within 10 metres of the canopy of any retained tree.
• Equipment, signage, fencing, tree protection barriers, materials, components, vehicles or structures shall not be attached to or supported by a retained tree.
• Mixing cement, chemical toilets and other use or storage of anything that would be harmful to trees shall not take place within, or close to a Root Protection Area (RPA). The distance away from the RPA must be sufficient, and the slope of the site must be such that contamination of soil in the RPA would not occur if there were spillage, seepage or displacement.
• No plant or equipment or vehicle with a hydraulic arm such as a mini digger shall be operated within striking distance of the stem and branches or the RPA of any retained tree unless otherwise specified in this report.

3.4.2. No alterations or variations shall be made to the approved tree protection measures without written approval from the LPA.

4. PHASING

4.1. PHASING OF DEVELOPMENT

- 4.1.1. The development should be carried out in the following order (see table 1) unless otherwise agreed in writing with the LPA. Each step should be completed before moving onto the next.
- 4.1.2. The general responsibilities described in section 3 of the report must be implemented for the entire time that the site is undergoing development related works. However, the additional precautions detailed in the following arboricultural guidance notes (AGN) must be implemented at the stage indicated below.

Stage	Arboricultural Guidance Note	Plan
Facilitative Tree Works	* Works should be undertaken by suitably qualified and insured arborists, in line with 'BS 3998:2010 Tree Work. Recommendations'	Arb Site Plan (Proposed) (P2823-ASP02 V1)
Pre-Commencement	AGN1 – Installation of Tree Protection Barriers	Tree Protection Plan (P2823-TPP01 V1)
Site Clearance & Demolition		
Groundworks & Installation of Foundations		
Construction		
Removal of Tree Protection Measures	* Tree protection measures may be removed	
Landscaping		

Table 1 – Timing and implementation of specific arboricultural measures

5. TREE WORKS

5.1. TREE WORK REQUIREMENTS

5.1.1. The following tree work should be undertaken following acceptance of planning permission. These works should be undertaken by suitably qualified and insured arborists.

5.1.2. Work specification:

Tree Ref.	Tree Works
T1	Remove
T2	Remove
T3	Remove
T4	Remove

Table 2 – Facilitation Tree Works

5.1.3. The location of the trees can be seen on the Arboricultural Site Plan (P2823-ASP02). Trees selected for removal will be shown with a red canopy fill.

6. ARBORICULTURAL GUIDANCE NOTES

AGN1 – INSTALLATION OF TREE PROTECTION BARRIERS

OUTLINE

Tree protection barriers must be installed so as to ensure that damage does not occur to the rooting areas, stems, and canopies of retained trees.

INSTALLATION METHODOLOGY

- i) The barriers shall be installed and removed in accordance with the timing of operations in section 4.1 and laid out in accordance with the appended Tree Protection Plan.
- ii) The “CEZ Notice” provided, should be used to create weather-proof notices that must be attached to the tree protection barriers at suitable intervals.
- iii) If any panel or support becomes damaged, immediate reinforcement must occur by adding panels in, compliant with the specification detailed below.
- iv) The default heavy-duty tree protection barrier specification is a vertical and horizontal scaffold framework, braced to resist impacts, as per *Figure 1*. The vertical tubes are spaced at a maximum interval of 3 metres and these are driven securely into the ground. Welded mesh panels are securely attached to the frame. During installation, it is important to consider the position of below ground services and structural roots, which must not be damaged. Where these constraints prevent the use of this specification, an alternative specification is given below.
- v) Alternative heavy-duty tree protection barrier design - 2-metre-tall welded mesh panels standing in rubber or concrete feet joined using a minimum of two anti-tamper couplers installed, so they can only be removed from inside the protected area. The fence couplers should be at spaced least 1 metre apart, but uniformly across the whole barrier. These panels must be supported within the protected area with struts attached to a base plate secured by ground pins as per *Figure 2a*.
- vi) Where the fencing is installed above retained hard surfacing and/or it is otherwise not feasible to use ground pins (e.g. due to underlying services or structural roots), the struts can be mounted on a block tray as per *Figure 2b*.
- vii) Arboricultural Sign-off – Following the installation of the barriers, the project’s arboricultural expert must confirm that they have been correctly laid out.

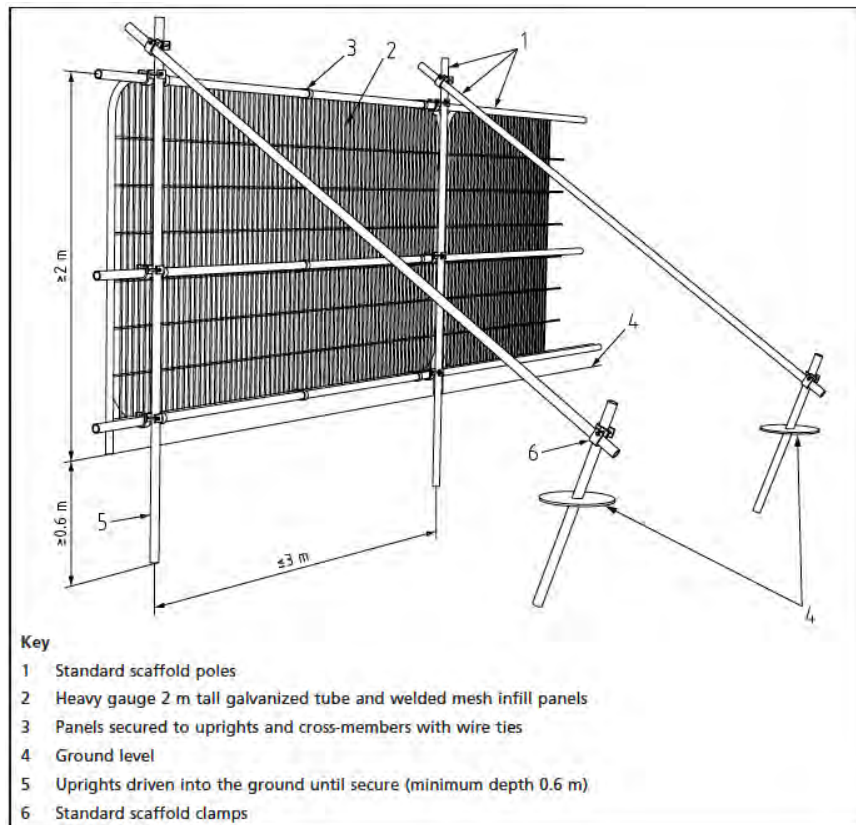


Figure 1 – Conventional tree protection barrier specification (source - BS 5837:2012 Section 6)

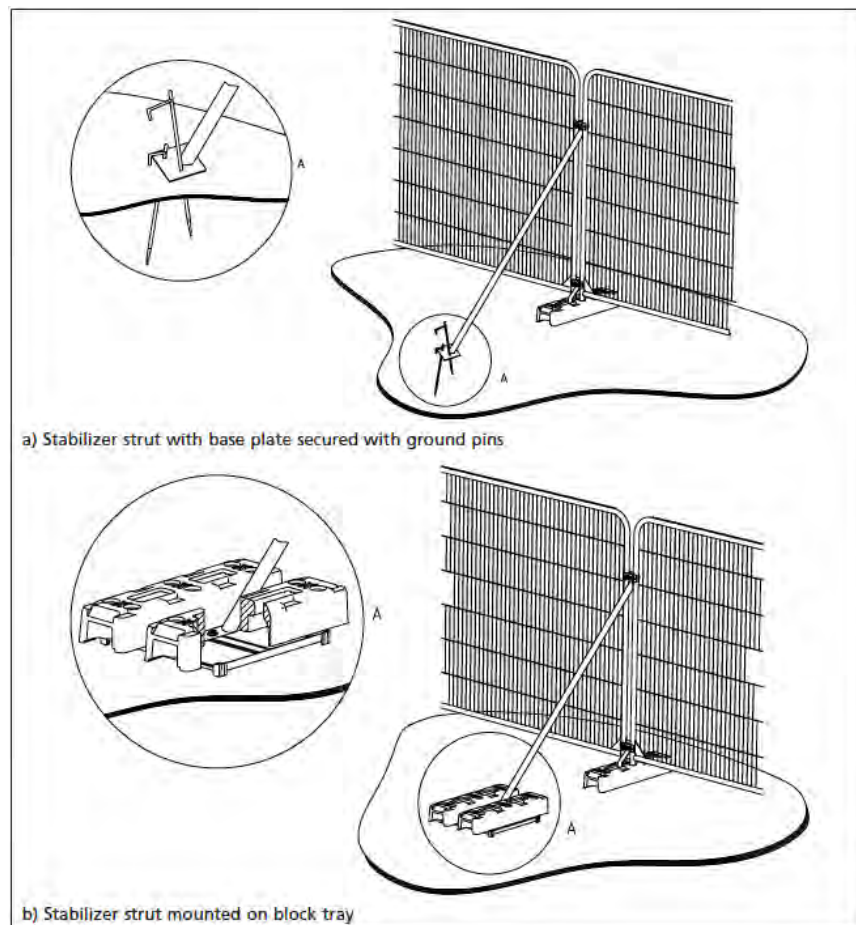


Figure 2 – Above ground stabilising systems (source - BS 5837:2012 Section 6)

7. APPENDICES

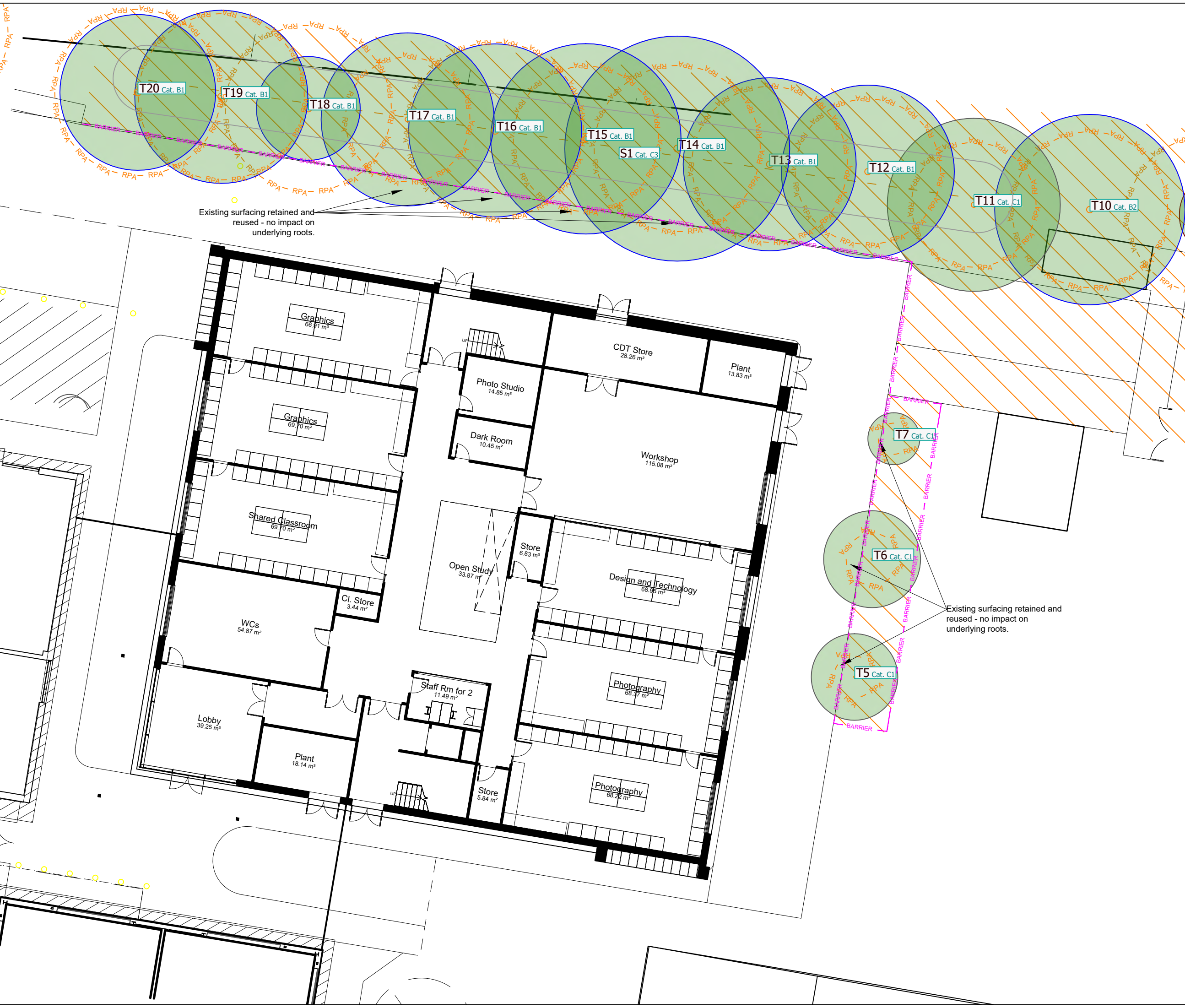
7.1. APPENDICES

7.1.1. The following appendices should be used in conjunction with this document:

Appendix	Document	Reference
1	Tree Protection Plan	P2823-TPP01 V1
2	CEZ Notice	n/a
3	Schedule of Arboricultural Supervision	n/a

APPENDIX 1

TREE PROTECTION PLAN



Use of This Document

This document should be **viewed in conjunction with the relevant arboricultural method statement** and must be implemented as stated for the duration of the site's development. Failure to do so may result in a breach of planning, and damage to protected trees; potentially resulting in fines. Any queries regarding the trees on site should be addressed by Ligna Consultancy Ltd: 01284 598008 / info@lignaconsultancy.co.uk

Root Protection Areas

The enforcement of root protection areas (RPAs) is vital for the successful retention of a site's trees during the development process. RPAs that are not covered by ground protection must not be subjected to the following activities unless otherwise stated within the Tree Protection Plan or Arboricultural Method Statement:

- materials storage
- pedestrian / vehicular movement
- excavation or soil level increase
- installation of new surfacing
- car parking
- mixing of cement
- any other infringement

Should any issues arise from the enforcement of root protection areas restricting necessary site works, the site manager should be informed, and the project's arboriculturalist contacted.

Incursions within RPAs

Excavation	Arb. Sensitive Demolition / Removal

Specialist Foundations/Surfacing and Site Features

Specialist Foundations	Pile / Screw Pile	Cellweb TRP	Demolished Building

Tree Protection Measures (Refer to Technical Specification)

Barriers - Stake and Mesh	Barriers - Metal Fencing	Stem Protection	Temporary Ground Protection

CEZ

Project:
Barton Peveril College

Client:
Barton Peveril College

Drawing:
Tree Protection Plan

Drawing Ref:
P2824-TPP01

Rev:
V1

Date:
11/05/2023

Scale:
1:200 - A3

Drawn By:
B. Hallinan

Based on:
Proposed Site Plan

All dimensions should be checked on site. No dimensions to be scaled from this drawing. Please notify us of any discrepancies found. Ligna Consultancy Ltd cannot be held responsible for inaccuracies in the base drawing in which this plan is based. This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.

An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.

This drawing was produced in colour - a monochrome copy should not be relied upon.

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APPENDIX 2 CEZ NOTICE

NO ENTRY



CONSTRUCTION EXCLUSION ZONE

This area contains trees which must be protected as part of the planning permission. Additional legal protection may also apply e.g. a Tree Preservation Order.

Removing or damaging trees in this area may be a breach in planning permission. Damage to protected trees may lead to a criminal conviction and / or a fine.

Should any issues arrive regarding the tree protection or its layout, please contact Ligna Consultancy Ltd for advice:

info@lignaconsultancy.co.uk
01284 598008

APPENDIX 3

SCHEDULE OF SUPERVISION

APPENDIX 3 – SCHEDULE OF ARBORICULTURAL SUPERVISION

Date:

Planning Ref:

This statement is to confirm that of has undertaken the following supervision activities for the development at Barton Peveril College; ensuring that any deviation from the approved tree protection scheme is recorded and appropriate action is undertaken.

Liability for any failure of compliance will remain with the client.

Arboricultural Sign-Off

The correct installation of the approved tree protection measures must be confirmed by the project's arboriculturalist in the table below. No further demolition or construction activities may occur until approval has been given by the project's arboriculturalist.

Failure to abide by the following schedule may result in a breach of planning. Any deviation from the agreed upon protection measures must be reported to the project arboriculturalist immediately.

Activity	Remote Supervision	Date	Protection Measures Compliant	Remedial Action Required
Pre-commencement site meeting	Remote			
Sign-off of correct installation of tree protection measures (pre-demolition)	Remote			

Note – Remote video call or photographic supervision may be suitable in some instances. Where this is suitable, 'Yes' will be displayed in the 'Remote Supervision' column in the table above.



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