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Arboricultural Method Statement
(BS5837: 2012) In relation to
23/2191/HSE - Condition 5

Site details:

Redroof
East View
Barnet
EN5 5TN

Client details:

Mr Stuart Cunliffe

Date of Report:

December 2023

Report Reference

AMS/MF/0237/23

Report Prepared by:

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1.0 Instructions

1.1 This report has been commissioned by Mr Stuart Cunliffe to provide an Arboricultural Method Statement (AMS) for the 6 no. trees (T1-T6) sited within close proximity of proposed development works at Redroof, East View, Barnet, EN5 5TN .

2.0 Introduction

2.1 This report provides this information required to implement tree protection measures for the development with principles that are approved and enforced by the local planning authority. It has been written in accordance with 'BS5837:2012 Trees in relation to design, demolition and construction. Recommendations' (British Standards Institute, 2012)

2.2 This is a site specific AMS produced solely for the physical protection of those trees identified on the plan including 6 no. trees (T1-T6) within the report and is not relevant to any other site or situation.

2.3 This report and the opinions within it have been produced by Marcus Foster, a qualified Arboriculturist and Professional Member of the Arboricultural Association holding a National Diploma in Arboriculture, the Arboricultural Association's Technicians Certificate, Professional Tree Inspection Certificate (LANTRA) as well as a degree in History. Work experience within the industry includes work as a Contracts Manager for an Arboricultural Association Approved Company, a Local Authority Tree Preservation Officer and an independent Arboricultural Consultant.

2.4 No additional documentation has been referred to relating to the trees / shrubs or the site at this property for the compilation of this report.

2.5 The AMS must be made available to all contractors and operatives on the site during the construction process so that they fully understand the importance of the measures set out for tree protection.

3.0 Tree Protection Strategy - Overview

3.1 For retained trees the document gives site specific instructions to protect the tree. The following terms are relevant as set out within BS5837:

Root Protection Area (RPA)

3.1.1 The area defined as requiring protection from development from retained trees within BS5837 (2012). Using a calculation provided within BS5837 a radius distance is provided based on a measurement of the main stem taken at 1.5m height.

3.1.2 Also within the British Standard (paragraph 4.6.2) it states that RPA's should reflect the morphology and disposition of the roots where historic site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area should be produced, often with agreement from the Local Authority and using all available historical information of the site and specific tree / area. Modifications to the shape of the RPA should reflect a soundly based arboricultural assessment of likely root distribution by a qualified arboriculturist.

Construction Exclusion Zone (CEZ)

3.1.3 This is the area defined by tree protection fencing where no construction activity should occur and damage is prevented by either installing fencing to restrict access or installing ground protection that allows limited access above the ground, while protecting the rooting environment below.

Tree Protection Plan (TPP)

3.1.4 The document which defines the extent and methodology of tree protection for the entire development process. This should be referred to AT ALL TIMES by the principal contractor and should ensure safe retention where highlighted, of all trees on site.

Precautionary Area

3.1.5 An area where works must be undertaken with direct consultation from the arboricultural consultant as specified within the AMS report and / or scheme of Arboricultural supervision

3.2 The methods are set out in a logical and coherent sequence for ease of understanding and implementation. The operations that shall be required in order to ensure comprehensive tree protection include:

- PRE-COMMENCEMENT
Implementation of Tree Protection Fencing and site infrastructure for access to standard as specified within this report
- FACILITATIVE TREE WORKS
Ground works undertaken in accordance with AMS tree protection specifications
- TREE PROTECTION - GENERAL
General development process

3.3 The sequences are governed by operational constraints and are subject to change. The consulting arboriculturist must be noted of any changes to this schedule prior to implementation where trees / tree protection measures as implemented are likely to be affected.

3.4 This AMS has been prepared to provide strict guidance for construction site management to help protect trees where they have been agreed for retention within the development process. It must be read in conjunction with the site-specific specifications which are highlighted on the Tree Protection Plan (TPP) and explained within this report. With close reference to the principles set out in the British Standards Institution (2012) BS 5837 the report provides a robust approach to tree protection.

3.5 More specifically, it describes useful practical and strict precautions that can be taken when working close to retained trees and provides sources of further information. Important terms included within this report are as follows:

4.0 Development & Planning Overview

4.1 Planning approval has been granted by London Borough of Barnet for the following works:

First floor extension. Roof extension including crown roof, 2no. gable ends and new dormer window to rear

4.2 Within Planning Approval Reference: 23/2191/HSE - Condition 5 of the approval states the following condition:

a) No site works or development (including any temporary enabling works, site clearance and demolition) shall take place until a dimensioned tree protection plan in accordance with Section 5.5 and a method statement detailing precautions to minimise damage to trees in accordance with Section 6.1 of British Standard BS5837: 2012 (Trees in relation to design, demolition and construction - Recommendations) have been submitted to and approved in writing by the Local Planning Authority.

b) No site works (including any temporary enabling works, site clearance and demolition) or development shall take place until the temporary tree protection shown on the tree protection plan approved under this condition has been erected around existing trees on site. This protection shall remain in position until after the development works are completed and no material or soil shall be stored within these fenced areas at any time. The development shall be implemented in accordance with the protection plan and method statement as approved under this condition.

4.3 Overview of the subject site is shown below within site photographs:



4.4 For the purpose of this AMS report and TPP reference has been made to the following plan:

Cathy Conlon Nocolso Architectural Consultant - DWG D03F

5.0 Arboricultural Method Statement

The following tree protection measures require adherence AT ALL TIMES with full supervision from the consulting arboriculturist as outlined within this report. The measures are outlined within Tree Protection Plan (TPP) - drawing T001.

5.1 Tree Works

5.1.1 Tree works are required as is confirmed within the Tree Works Schedule - Section 8. These works must be carried out at pre-commencement stage.

5.2 Tree Protection Fencing

5.2.1 Protection of the trees highlighted for retention must be implemented as explained below and as specified within the TPP - drawing T001:

Basal shuttering tree protection (T1)

and

Retention of existing boundary treatment / wall (T2-T6)

5.2.2 These measures must remain for the entire construction process in order to provide a comprehensive barrier from the trees

- The areas surrounding the trees must be surrounded by protective fencing as outlined in TPP - T001
- The protective fencing used must be suitable for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees.
- This barrier must remain rigid and complete during the entire construction process.
- Once the Exclusion Zones have been protected by fencing all weather notices as included in *Appendix D* must be put onto the barrier warning that the area is a construction exclusion zone.
- No building materials or chemicals are stored within the tree protection zone as indicated on the TPP

5.3 **Ground Protection**

5.3.1 Ground protection shall be required where soft landscape ground is exposed to the development process and / or the tree protection fencing requires removal and with written consent of the Local Authority Tree Officer and/or appointed Arboricultural Consultant. This shall be applied as follows:

- Implementation of 75mm bark mulch layer overlapped with minimum 15mm plyboard surface or load bearing ground protection boards to provide ground protection for development process
- No storage of spoil within this area
- No storage of chemicals within this area

5.3.2 Ground protection may also be applicable for areas where tree protection is required but fencing is not achievable.

5.3.3 Where applied, ground protection shall be removed for final landscapes works within the RPA of retained trees.

5.4 **Storage of Construction site related materials, plant and spoil**

5.4.1 The storage area shall be located outside of the RPA of retained trees only . Strict adherence to this area must be made to this area and any amendment would require written consent from the Tree Officer.

5.5 **Site Welfare & Site Office**

5.5.1 The site welfare area shall be located outside of the RPA of retained trees. Strict adherence to this area must be made to this area and any amendment would require written consent from the Tree Officer.

5.6 **Fires**

5.6.1 There must UNDER NO CIRCUMSTANCES be fires within this site.

5.7 Installation of utility services

5.10.1 The installation and/or amendment of utility services within the RPA of retained trees is not required. However where an amendment is required and utilities are required within the RPA of any retained tree the consulting arboriculturist and Local Authority must be notified prior to any ground tree protection / fencing and barrier removal and the following details adhered to:

- Trenching for the installation of underground services severs any tree roots present and can have a detrimental impact on the structural integrity of affected trees. When services are required to pass through a Tree Protection Area / CEZ, detailed plans showing proposed routes should be drawn up in conjunction with the consulting arboriculturist to avoid long term problems for related trees.

- The preferable method for trenching is to use a 'Air Spade' or similar to remove soil with compressed air, therefore minimising damage to roots in the process. Should hand dug excavations be required within the RPA this shall only be undertaken with arboricultural supervision.

5.10.2 Further reference can be made to National Joint Utilities Group (Volume 4, Issue 2) for guidance but any approach must be approved by both the consulting arboriculturist and Local Authority tree officer.

6.0 Communication, Monitoring and Compliance

6.1 In ensuring that tree protection specifications as highlighted within this method statement are closely adhered to at all times, it is important to set out for the long term of the development, communication details for key individuals and tasks that require monitoring.

6.2 The key individuals appointed for advising and complying with Tree Protection specifications must adhere to the following at all times:

- Relevant parties / key individuals must be advised of any changes in personnel or contractor during the development process.
- Relevant parties / key individuals must be responsible for relaying information regarding tree protection within work force where deemed applicable / relevant

6.3 For all tree protection measures these must be considered as sacrosanct and should not be removed or altered without prior written consent from the Local Authority tree officer and/or consulting arboriculturist.

6.4 The local authority arboriculturist will have free access to the site and forward any concerns / recommendations directly to the consulting arboriculturist.

The following individuals and organisations are central to the delivery of the scheme in relation to the tree protection measures it requires:

SUPERVISING ARBORICULTURIST

Name - Marcus Foster MArborA

Telephone - 07812024070

Contact - Marcus Foster

Email - mail@marcus-foster.com

LONDON BOROUGH OF BARNET - TREE OFFICER

Name - Arboricultural Services - London Borough of Barnet

Telephone - 020 8359 2000

Contact - Jonathan Mills - Tree Officer

Email - planningtrees@barnet.gov.uk

7.0 Tree Works Schedule

7.1 No tree works are required as it is confirmed within schedule below:

TREE WORKS SCHEDULE Redroof, East View, Barnet, EN5 5TN					
Tree No.	Common Name	Location	BS5837 Category Rating	Tree Works	Reason for works
T1	Silver birch	Ossulton House (rear boundary)	B	Prune eastern laterals at 4-9m height above ground level by 1-1.5m branch lengths within subject site to give clearance from scaffold erection for proposed west elevation. All works to be undertaken to suitable unions to retain even and flowing canopy outline	To facilitate development / in accordance with Common Law Right

NOTE: Wildlife & Habitat Protection Guidelines

The tree work specifications included within this report do not provide an exemption from the requirements to comply with the Wildlife and Countryside Act 1981, the Habitats Regulations 1994 and the Countryside and Rights of Way Act 2000, or any acts offering protection to wildlife. Of particular note is the protection offered to bats, birds and their nests, whilst being built or in use. It must be noted that failure to comply with the Acts may result in a criminal prosecution.

APPENDICES

Appendix A

Tree Survey Schedule (BS5837:2012)

Redroof, East View Barnet, EN5 5TN

Colour Key:
BS5837: 2012

-  Category A
-  Category B
-  Category C
-  Category U

Key:

- Number: an identity number which cross-references locations shown on the plan in Appendix A with the schedule in Appendix B.
- Species: listed by common names
- Tree Height: height in metres (m)
- Tree Spread: spread in metres (m)
- Stem diameter: measured in millimetres (mm) and taken at 1.5m above ground level
- Age Class: Y (young); EM (early-mature); M (mature); OM (over-mature)
- Vigour: G (good); F (fair); P (poor); D (dead)
- Structural Condition: G (good); F (fair); P (poor); D (dead)
- General Condition Specific comments relating to each tree
- Estimated Remaining Contribution (years)
- BS5837 Category Grading
- Protection Distance m2 Area (where applicable – BS5827: 2012)
- Protection Distance Radius (where applicable – BS5827: 2012)

BS5837:2012 TREE SURVEY														
SITE: Redroof, East View, Barnet, EN5 5TN SURVEY DATE: 21st December 2023														
Tree No	Species	Height (m)	DBH (mm)	Spread (m) N/E/S/W	Age	Structural Condition	Vitality	BS5837 (2012) Rating	Remaining Contribution (years)	Comments / Structural Condition	First branch height (m)	First canopy height (m)	Root Protection Area (RPA) m2	Root Protection Area (RPA) Radius (m)
T1	Silver birch	12	300 (e)	3 4 3 3	EM	F	G	B1	20+	Off site to west. Overhang of 2.5m branch lengths at 5-9m height; currently 1m clearance from first floor height western elevation	5	4	40.72	3.6
T2	Spruce	15	400 (e)	2 3 4 3	EM	G	G	B1	20+	Off site beyond boundary wall. Overhang of 1m branch lengths at 6-10m height; columnar	6	6	72.39	4.8
T3	Holly	7	150 (e)	2 4 2 2	SM	F	F	C1	10+	Off site beyond boundary wall. Suppressed crown to east. Overhang of 1-1.5m branch lengths at 4-7m height; columnar	4	4	10.18	1.8
T4	Larch	16	450 (e)	4 4 5 4	M	G	G	A1	40+	Off site. Ivy to 7m. Sound union at bifurcation. Overhang of up to 2m branch lengths at 5-10m height of selective branches only	7	5	91.62	5.4
T5	Holly	8	150 (e)	2 2 5 3	SM	F	F	C1	10+	Off site. Understorey form; no overhang to site	/	/	10.18	1.8
T6	Silver birch	10	250 (e)	4 4 3 4	M	F	F	C1	10+	Off site beyond boundary wall. Topped at 10m; excessive pruning; no overhang to site	/	/	28.28	3.0
T7	Snowy mespil	6	150	2 2 2 2	EM	F	G	B1	20+	Highway tree; ornamental w/ compact form. 'Robin Hill' cultivar	2.5	2.5	10.18	1.8
T8	Rowan	5	80	2 1 1 1	Y	F	F	C1	10+	Highway tree. Young w/ developing form. 'Commixita' cultivar	1.5	2	2.9	1.0

Appendix B

T001 - TREE PROTECTION PLAN

Redroof
East View
Barnet
EN5 5TN

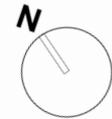
Colour Key:
BS5837: 2012

-  Category A
-  Category B
-  Category C
-  Category U

KEY

	CATEGORY A
	CATEGORY B
	CATEGORY C
	CATEGORY U
	RPA RADIUS

TREE PROTECTION KEY	
	TREE PROTECTION FENCING
	GROUND PROTECTION: EXISTING HARD LANDSCAPES RETAINED / GROUND PROTECTION BOARDS FOR SOFT LANDSCAPED AREAS



BS5837 (2012) Tree Survey Notes

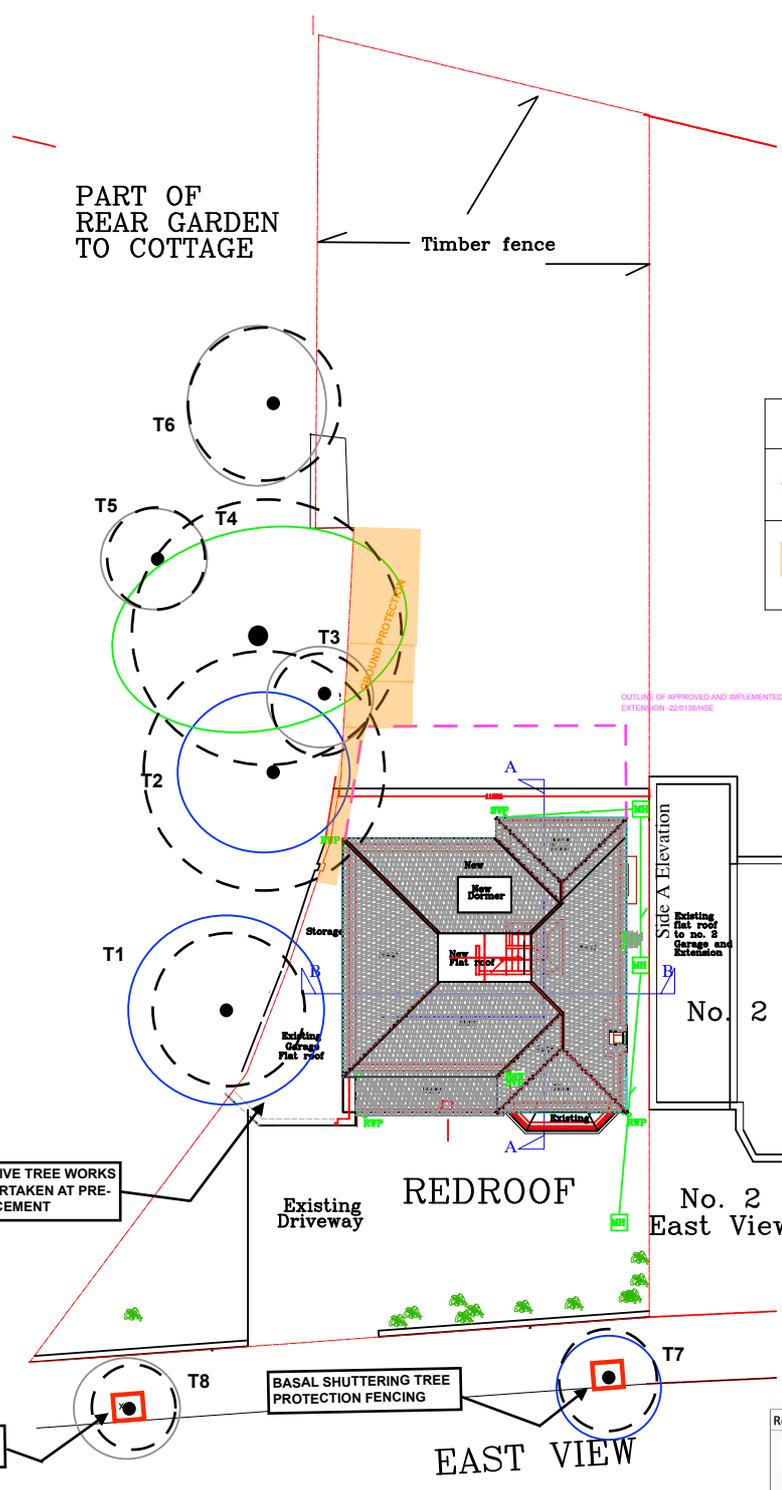
1. In accordance with BS5837(2012) this drawing is a colour coded schedule and should not be read in black and white
2. If received electronically it is the recipient's responsibility to print this drawing to correct scale. Only written dimensions should be used where not printed to scale.
3. This drawing should be read in conjunction with all other relevant drawings and specifications
4. Marcus Foster Arboricultural Design & Consultancy accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided
5. Off site trees have been plotted based on site visit survey and locations are not based upon topographical survey

Rev.	Date	Checked

JOB TITLE	Redroof, East View, Barnet, EN5 5TN	
DWG TITLE	Tree Protection Plan	
SCALE	1:200 @ A3	DATE December 23
JOB NO	AMS/MF/0237/23	DWG NO. T001

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FACILITATIVE TREE WORKS (T1) UNDERTAKEN AT PRE-COMMENCEMENT

BASAL SHUTTERING TREE PROTECTION FENCING

BASAL SHUTTERING TREE PROTECTION FENCING

BASAL SHUTTERING TREE PROTECTION SPECIFICATION

KEY

The fencing must fully enclose the main stem and initial buttress roots of the tree by being constructed as a self supporting structure to the following specifications:

Minimum height: 2.4m
Plywood Specification: 25mm thickness, external grade
Supporting Structure: 4" x 2" softwood timbers to form structure within shuttering
NOTE: - No ground supports permitted
- Structural integrity of structure to be determined by building contractor and approved by supervising



Scale 1:200 @ A3



Appendix C: **Tree Protection Notice**

Tree Protection Notice (BS5837: 2012):

Notice to be clearly shown on tree
protection fencing
AT ALL TIMES



Appendix D:

Tree Protection Fencing Specification: **Basal Shuttering**

BASAL SHUTTERING

Specification of Basal Shuttering Tree Protection

The fencing must fully enclose the main stem and initial buttress roots of the tree by being constructed as a self supporting structure to the following specifications:

Plywood Specification: 25mm thickness, external grade
Supporting Structure: 4" x 2" softwood timbers to form structure within shuttering

NOTE: - No ground supports permitted

Structural integrity of structure to be determined by building contractor and approved by supervising arboriculturist

Tree Protection Fencing Notices: 5 x Notices

Example of Basal Shuttering Tree Protection



Appendix E: References

1. BS5837: British Standard: Trees in relation to design, demolition and construction. Recommendations (2012)
2. Principles of Tree Hazard Assessment and Management, Lonsdale, D. (Department for Transport, Local Government and the Regions, 1999)
3. The Body Language of Trees, Mattheck, C. and Breloer, H. (HMSO, 1994)
4. Trees in Britain, Philips, R. (Pan Books, 1978).
5. Diagnosis of Ill Health in Trees, Strouts, R. and Winter, (TSO, 1994)
6. NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees (Issue 2), (November 2007)

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