

Sylva Consultancy
expert arboricultural advice

Arboricultural Report

Land to rear of 1 & 2 Collinwood Close
Headington
Oxford
Oxfordshire
OX3 8HS

December 2020

Ref: 20139 Rev B

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CONTENTS

1. Introduction	Page 3
2. Arboricultural Survey	4
3. Principle arboricultural Implications	5
4. Summary	7

APPENDICES

1. Site Location Plan	8
2. Tree Survey Data	9
3. Root Protection Area	10
4. Tree Constraints Plan	11
5. Arboricultural Impact Plan	12
6. Qualifications	13

1. INTRODUCTION

1.1 Instructions

1.1.1 Instructions have been received to carry out an Arboricultural Implication Assessment on the likely impact and effect with regard to the proposal to construct 2 new dwellings with associated access on land to the rear of 1 & 2 Collinwood Close, Oxford (Appendix 1).

1.1.2 This appraisal assesses the impact of the proposal in relation to trees and discusses mitigation measures that may have to be adopted.

1.2. Arboricultural Survey

1.2.1 During September 2020, a revised tree survey was carried out in accordance with British Standard 5837:2012 'Trees in relation to Design, Demolition and Construction-Recommendations' and good arboricultural practice. This is a basic data collection exercise and a record of the trees condition at the time of surveying. The tree survey data can be viewed at Appendix 2, root protection area data at Appendix 3 with the tree constraints plan listed at Appendix 4.

1.2.2 A desktop study of information posted on Oxford City Council website (OCC) website details that the site is not located within a Conservation Area. In addition, the website reveals that no Tree Preservation Orders (TPO's) are currently present on trees located within or adjacent to the site.

1.3 Site Description

1.3.1 The area surveyed is located to the rear of 1 & 2 Collinwood Close. Properties from Downside Road, Collinwood Close and Collinwood Road border the site with the site being rectangular in shape and flat.

1.4 Proposed Development

1.4.1 It is proposed to construct 2 new dwellings with associated access with the purpose of this report to assist with the design process.

1.4.2 Please note all tree numbers referred to in this document relate to the tree numbers annotated on the arboricultural implication assessment plan.

2. ARBORICULTURAL SURVEY

2.1 A total of 8 trees and 4 groups have been recorded within this assessment. The tree quality is assessed as follows:

U: Trees that are considered to be of such condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboriculture management. However, if category 'U' trees are placed in an inaccessible location such that concerns over public safety are reduced to an acceptable level, it may be preferable or possible to defer this recommendation.

A: Trees of the highest quality and value and are considered to be of such a condition as to be able to make a substantial contribution (e.g. 40 years +).

B: Trees of moderate to high value and are considered to be of such a condition as to be able to make a significant contribution (e.g. 20 years +).

C: Trees of low quality with an estimated life expectancy of at least 10 years. Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories. Young trees with a stem diameter of less than 150mm should be considered for relocation or replacement through mitigation (e.g. 10 years).

Category A, B & C trees are further divided into sub-categories. These sub-categories carry equal weight and are selected for either arboricultural values, landscape values or cultural values, including conservation. Within the British Standard 5837:2012 it is recommended to record hedge and shrub masses, however in the context of the standard it is not necessary to assess the quality of these or to provide a category classification.

The numbers of trees falling under each classification within the arboricultural survey are as follows:

U: 1 tree

A: 0 trees

B: 1 tree & 1 group

C: 6 trees & 3 groups

3. PRINCIPLE ARBORICULTURAL IMPLICATIONS

3.1 Introduction

3.1.1 Consideration is given to the significance of the trees identified in the arboricultural tree survey, the constraints that they are likely to pose to any development that may occur, post development implications (if any) and work requirements to trees for reasons of sound arboricultural management in order to facilitate the development (BS5837:2012 Section 5.4).

3.1.2 This appraisal assesses the impact of the potential to re-develop the site in relation to the trees and discusses mitigation measures that may have to be adopted. The following documents have been provided by the Client:

- Site Location Plan
- Proposed Site Plan

3.2 Trees

3.2.1 The site is overgrown and consists of predominately self-sown Ash and Goat Willow trees.

3.2.2 The Wildlife & Countryside Act 1981, as amended by the Countryside Rights of Way Act 2000, provides statutory protection to birds, bats and other species that inhabit trees. These have the potential to pose additional constraints on the use and timings of works that may occur to trees located at the site. These issues are beyond my expertise and it is recommended that appropriate advice is sought prior to the implementation of any works considered within this report.

3.3 Overview

3.3.1 The appended arboricultural implications plan (Appendix 5) illustrates the proposals in relation to the tree stock. In addition to pre-development concerns, post development concerns such as debris and concerns of the tree's proximity and juxtaposition to the proposal have also been considered during the design process.

3.3.3 An assessment of the design on the tree stock reveal that two category 2 'C' trees and 3 category 'C' groups will be removed to implement the proposal.

3.3.4 The scheme has undergone a careful design process to ensure an efficient use of the site, whilst safeguarding the continued contribution to the greening of the immediate landscape. On the bases of the appraisal it is considered that the arboricultural impact of the scheme on the tree stock will not result in an adverse impact on the character and appearance of the site or wider landscape.

3.4 Impact of the proposal on the tree stock

Overview

3.4.1 Tree T4, Ash has a landscape value of less than 10 years in accordance with BS5837:2012. As such it is recommended to remove this group regardless of any development occurring.

3.4.2 Trees assessed as category 'U' trees are of such condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboriculture management. However, if category 'U' trees are placed in an inaccessible location such that concerns over public safety are reduced to an acceptable level, it may be preferable or possible to defer this recommendation.

3.4.3 Whilst trees in categories 'A', 'B' and 'C' are all a material consideration in the development process, the retention of category 'C' trees, being of low quality or of only limited or short-term potential, will not normally be considered necessary where they impose a significant constraint on development. Furthermore, BS 5837:2012 makes it clear that young trees, even those of good form and vitality, which have the potential to develop into quality specimens when mature "*need not necessarily be a significant constraint on the site's potential*".

3.5 Proposed New Dwellings

3.5.1 To implement the scheme 2 category 'C' trees (T5 and T6), and 3 category 'C' groups (G1, G2 & G3) will be removed. Category 'C' trees, groups and hedges are assessed as being either of low quality, limited merit, low landscape benefits, no material cultural or conservation value, or only limited or short-term potential; or young trees with trunk diameter below 150mm; or a combination of these. As such these trees should not be regarded as a significant constraint to the development of the site.

3.6 Construction

3.6.1 Careful consideration has been given regarding the buildability of the proposals. The arboricultural impact assessment plans illustrate that sufficient room exists to locate the site compound and contractor parking outside the RPA's of the retained trees.

3.6.2 Fence protection is required for retained trees and will comprise of Heras fencing and will be based on Figure 2 'Default Specification for Protective Barrier' as recommended within the British Standard 5837:2012. Where appropriate the fencing will be braced to withstand impacts.

3.6.3 A tree works schedule to facilitate the proposal has not yet been finalised, however it is not anticipated that pruning will be required. Should pruning works be necessary it is judged that trees can be pruned to acceptable standards in accordance with British Standard 3998:2010 'Tree Works - Recommendations'.

3.6.4 New service runs have not yet been finalised however the arboricultural impact assessment plan illustrates that there is sufficient room to route services away from the intended retained tree stock. In the unlikely event that new services fall within the root protection areas of retained trees all proposed service installations will be carried out in accordance with the recommendations at Section 7.7 of the British Standard 5837:2012.

4. SUMMARY

4.1 Conclusions

- 4.1.1 The British Standard 5837:2012 states that there is the need to avoid misplaced tree retention; for example, to attempt to retain too many unsuitable trees on a site may result in excessive pressure on the trees during the development work and subsequent demands for their removal post development. However, where design permits, the retention of lower category trees can be beneficial providing screening and softening to a development and a sense of maturity to a scheme.
- 4.1.2 Careful planning of site operations are recommended to avoid any adverse impact to the retained trees. In order to safeguard the trees through the development it is recommended that a site specific Arboricultural Method Statement is drawn up and implemented.
- 4.1.3 It is concluded that there is an adequate juxtaposition with the retained tree stock and proposal therefore reducing any post development concerns. As such it is regarded that there will not be any future pressure to significantly prune, or to seek permission to remove trees within the site. With further regard to any concerns of debris and seasonal nuisances it is considered that this can be managed by good design and as part of the overall general maintenance of the site.

4.2 Post development tree management.

- 4.2.1 Section 8.8.2 of the British Standard: 2012 recommends post development aftercare of trees following the completion of development works. It is recommended the following is considered with regard to post development inspection of retained trees:
1. Trees that grow on a site prior development may, if adversely affected be in decline over a period of several years before they die. This varies due to age, species, condition prior to development, extent of damage during development, soil conditions and climate. It is recommended that regular inspections are undertaken.
 2. Where trees are protected by planning controls, it is recommended that the LPA is informed, and necessary agreements obtained prior to any remedial works.
 3. Following completion of a development it is recommended that the arboricultural consultant inspects the trees for signs of intolerance to the change of conditions and the effect of the development. There may be a need for additional tree works to those originally specified.

APPENDIX 1

Site Location Plan

Site Location Plan



APPENDIX 2

Tree Survey Data

KEY TO TREE SCHEDULE

Tree No: Relates to individual trees identified within the Tree Survey Schedule and Tree Constraints Plan

Species: Common name

Height: Estimated height expressed in meters

ST: Stem diameter of the main trunk taken at 1.5m above ground level or in accordance with Annex C BS5837:2012.

Height in M of Canopy: Information of the first significant branch and direction of growth in order to inform on ground clearance.

Abbreviations: #: Estimated
Ave: Average
A.G.L: Above ground level
SULE: Safe Useful Life Expectancy

Branch Spread: Estimated crown radius expressed in meters, taken for each cardinal compass point.

Age Class: Y Young - Less than one third of natural life expectancy
MM Middle aged - One to two thirds of natural life expectancy
M Mature - More than two thirds of natural life expectancy
OM Over mature
NP Newly Planted

Physiological Condition: G Good
F Fair
P Poor
D Dead

Notes:

Root Protection Area: This is a layout 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 (detailed in paragraph 3.7 British Standard 5837:2012 'Trees in relation to Construction-Recommendations').

Young trees with a stem diameter of less than 150mm: Whilst the presence of young trees of good form and vitality is generally desirable (i.e those which have the potential to develop into quality mature specimens), they need not necessarily be a significant constraint on the site's potential (detailed in paragraph 4.5.10 British Standard 5837:2012 'Trees in relation to Construction-Recommendations').

Table 1 Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see Note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	<ul style="list-style-type: none"> Trees that have a serious, irremediable, 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) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>			Dark Red
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	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)	Light Green
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable 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	Mid Blue
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 150 mm	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	Grey

TREE NO.	SPECIES	Height in (M)	CALCULATED STEM DIA (MM)	BRANCH SPREAD				HEIGHT IN M OF CANOPY	AGE CLASS	PHYS. COND	COMMENTS	LIFE EXPECTANCY (EST YEARS)	BS5837:2012 CATEGORY GRADING
	(Latin)			N	E	S	W						
T1	Ash <i>Fraxinus excelsior</i>	12	280#	4.5	4	4.5	4.5	3	MM	F	Has been previously reduced. Ivy present on main stem. Due to age not regarded as a constraint.	20-40	C2
T2	Lawson Cypress <i>Chamaecyparis lawsoniana</i>	8	244	2	2	2	2	GL	MM	F	x2 at the base. Canopy growing through adjacent T3.	10-20	C1
T3	Ash <i>Fraxinus excelsior</i>	12	300	4	3.5	4	3.5	3	MM	F	Growing on the boundary of the site. Due to age not regarded as a constraint.	20-40	B2
T4	Ash <i>Fraxinus excelsior</i>	12	200	0	0	4	2.5	N/A	MM	F	Direct contact with boundary fence. Biased canopy growth. Self seeded poor form.	10-20	U
T5	Ash <i>Fraxinus excelsior</i>	12	285	1.5	1.5	1.5	1.5	N/A	MM	F	Etiolated in form. Co-dominant near the base. Poor form. Not a constraint.	10-20	C1
T6	Goat Willow <i>Salix caprea</i>	9	367	1.8	1.5	1.8	1.5	1.75	MM	F	Multiple stems growing at the base, upright form as a result. Not a constraint.	10-20	C1
T7	Lawson Cypress <i>Chamaecyparis lawsoniana</i>	9	160	1.5	1.5	1.5	2	GL	MM	G	Pleasant garden feature. Not a constraint.	10-20	C1
T8	Apple <i>Malus sp</i>	2	210	2	0.5	2	0.5	GL	MM	F	Espalier tree located centrally in garden area of number 1. Recently pruned	10-20	C1
G1	Ash <i>Fraxinus excelsior</i>	Ave 11	Ave 220	2.5	2.5	2.5	2.5	N/A	MM	F	Trees have been previously topped. Self seeded. Not a constraint.	10-20	C2
G2	Ash <i>Fraxinus excelsior</i>	Ave 11	Ave 212	2	2	2	2	N/A	MM	F	Multi-stem. Regarded as self sown trees. Trees have been previously topped. Self seeded. Not a constraint.	10-20	C2
G3	Goat Willow <i>Salix caprea</i>	Ave 9	Ave 277	2	2	2	2	GL	MM	F	Multi-stem specimens, crossing/rubbing branches. Not a constraint.	10-20	C2
G4	Ash <i>Fraxinus excelsior</i>	Ave 14	Ave 300	3.5	3.5	3.5	3.5	2	MM	F	Located on the boundary of number 1 and 2. Provides useful boundary screening. Pleasant feature. Ivy.	20-40	B2

APPENDIX 3

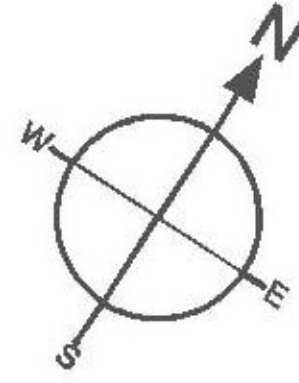
Root Protection Area

ROOT PROTECTION AREA

TREE NO.	SPECIES	NO. OF STEMS	SINGLE STEM DIA (mm)	2-5 STEMS					> 5 STEMS	ROOT PROTECTION AREA - RPA (RADIUS IN M)	RPA (M ²)	LIFE EXPECTANCY (EST YEARS)	BS5837:2012 CATEGORY
				STEM 1 (mm)	STEM 2 (mm)	STEM 3 (mm)	STEM 4 (mm)	STEM 5 (mm)	MEAN STEM DIA (mm)				
T1	Ash	1	280							3.36	35	20-40	C2
T2	Lawson Cypress	2		200	140					2.93	27	10-20	C1
T3	Ash	1	300							3.60	41	20-40	B2
T4	Ash	1	200							2.40	18	10-20	U
T5	Ash	1	285							3.42	37	10-20	C1
T6	Goat Willow	6	150							4.41	61	10-20	C1
T7	Lawson Cypress	1	160							1.92	12	10-20	C1
T8	Apple	1	210							2.52	20	10-20	C1
G1	Ash	1	220							2.64	22	10-20	C2
G2	Ash	2		150	150					2.55	20	10-20	C2
G3	Goat Willow	3		160	160	160				3.33	35	10-20	C2
G4	Ash	1	300							3.60	41	20-40	B2

APPENDIX 4

Tree Constraints Plan



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 Fellow Member
 FE593

Site: Collinwood Close	1-200@A3
Drawing Title: Tree Constraints Plan	Rev B, Sept 2020

Key:

- Category A (Green circle)
- Category B (Blue circle)
- Category C (Grey circle)
- Category U (Red circle)

Category 13 (Green circle with hatching)

Root Protection Area (Dashed line)

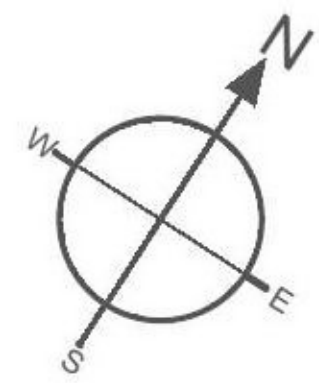
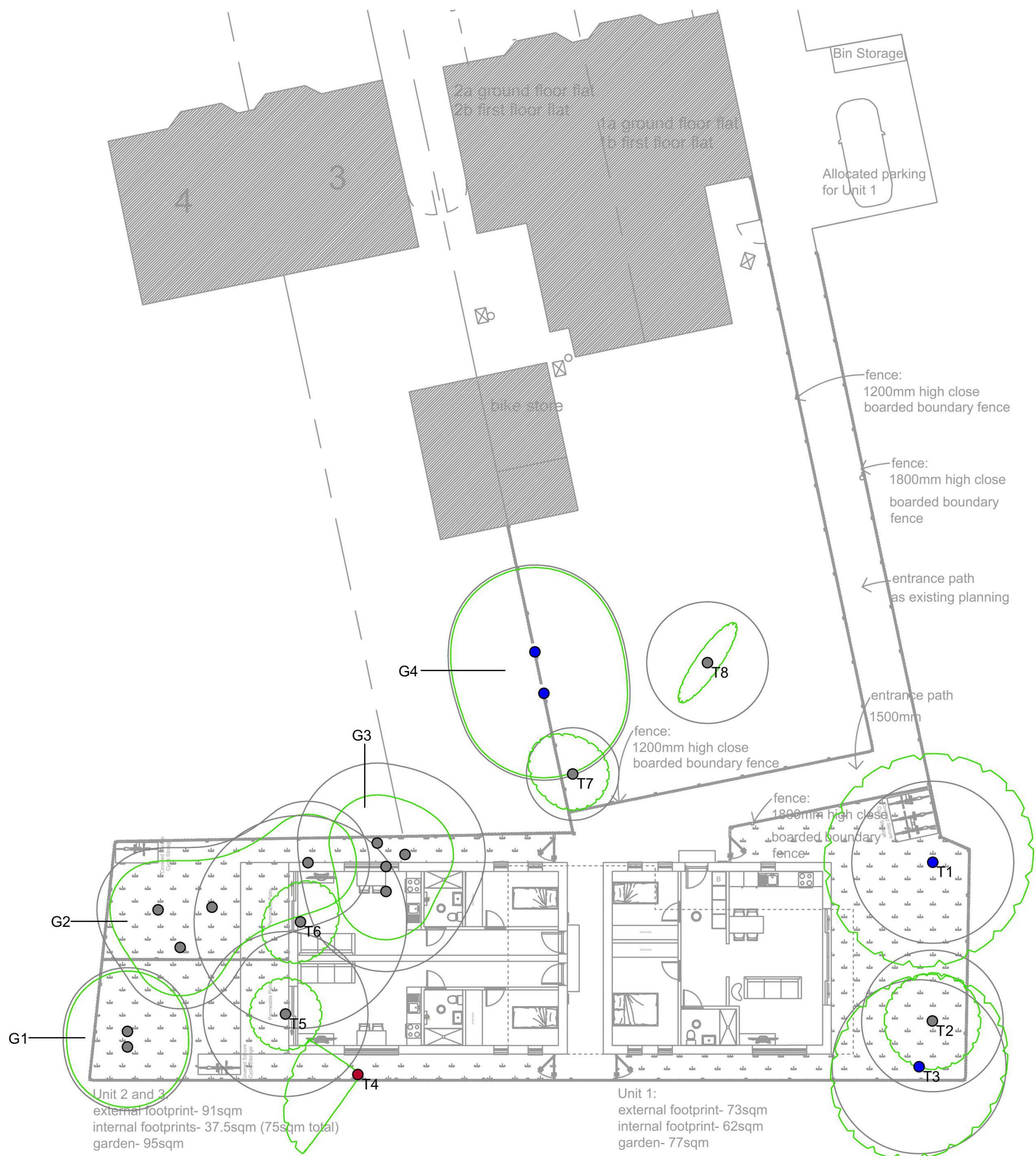
Crown Spread (Solid line)

Tree Number (13)

NOTE: All tree positions are approximate. The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

APPENDIX 5

Arboricultural Impact Plan



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Site: Collinwood Close	1-200@A3
Drawing Title: Arboricultural Impact Assessment	Rev D, Dec 2020

Key:

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

Category Tree Number

Root Protection Area

NOTE: All tree positions are approximate.
The original of this drawing was produced in colour - a monochrome copy should not be relied upon.

APPENDIX 6

Qualifications

Fiona Bradshaw

MicFor; RFS Dip Arb;F. Arbor.A; Tech Cert (Arbor.A)

I have over 21 years' experience of arboriculture and I am the principal consultant at Sylva Consultancy. I hold the Royal Forestry Society's Professional Diploma in Arboriculture and the Arboricultural Associations Technicians Certificate. I am a Fellow member of the Arboricultural Association and a professional member of the Institute of Chartered Foresters, of which I am also a registered Consultant.

I have the benefit of both a local authority and private practice background and I am frequently instructed to provide advice and assistance relating to trees and the planning process. I am also experienced at compiling expert reports, providing evidence and also appearing as an expert witness at Public Inquires.

I am committed to my continued professional development which is reflected in my regular attendance of seminars and workshops.