Nicholas Jones Consultants Limited

Independent Professional Arboricultural Consultancy

Arboricultural Assessment and Method Statement

Site: 107A Gardner Road
Southwick
West Sussex
BN41 1PN

Prepared by Nicholas Jones BSc. (Hons). MSc. M Arbor A

On behalf of Sinnis Ltd

Date: 9th March 2022

Ref: NJCL 998

Executive Summary

Nicholas Jones Consultants Limited were commissioned by Sinnis Ltd to prepare an arboricultural report to advise on the potential impacts of the proposed development upon the existing tree population located at 107A Gardner Road, Southwick, West Sussex, BN41 1PN.

The proposed development includes the demolition of an existing garage and the construction of a detached dwelling.

This report confirms that there are no trees proposed for removal to facilitate the proposed development.

The tree population in relation to the retention categories defined in British Standard 5837:2012 'Trees in relation to design, demolition and construction - recommendations' are provided in Table 1 along with the quantities proposed for retention and removal.

	Total	Retained	Removed
Category A	0	0	0
Category B	0	0	0
Category C	4	4	0
Category U	0	0	0

Table 1

Construction activity could potentially affect the retained trees. However, by implementing suitable protection measures and monitoring for the retained trees there is ample scope within the site for the construction process and associated activities required to facilitate the proposed development.

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Validation Statement

This report contains supporting information regarding trees in relation to the proposed development at 107A Gardner Road, Southwick, West Sussex, BN41 1PN.

For Local Planning Authority purposes this report contains the following elements:

- A tree survey in accordance with the guidance contained in British Standard 5837:2012 'Trees in relation to design, demolition and construction – recommendations.' The survey has been undertaken by a competent and qualified arboriculturist.

- A plan indicating a North point, at an appropriate scale and containing tree survey information and tree retention categories as defined in British Standard 5837:2012.

- An assessment of the arboricultural impacts of the proposed development and details of all trees to be removed or retained and any associated measures proposed for their protection.

- An Arboricultural Method Statement detailing the means of tree protection and any constraints posed on the implementation and phasing of work.

1. Introduction

1.1 Formal details – My name is Nicholas Jones I am the Principal Arboricultural Consultant for Nicholas Jones Consultants Limited. I have 32 years' experience in the arboricultural industry with the past 22 years acting as a consultant. I hold a BSc (Hons) in Arboriculture and an MSc in Arboriculture and Urban Forestry awarded by the University of Central Lancashire. I hold Professional Memberships of the Arboricultural Association, the International Society of Arboriculture and the Consulting Arborist Society. Moreover, I am a Lantra accredited Professional Tree Inspector, giving advice to clients on a wide range of arboricultural and horticultural issues.

1.2 This report has been commissioned by Sinnis Ltd in order to advise on the following:

- The species, size and position of any trees within the area of the proposed development and within neighbouring and adjoining areas where trees may have some significance to the proposed development.
- The maturity and condition of the trees surveyed with appropriate recommendations for action.
- The impact of the proposed development upon the tree population in and around the site, along with the impact of retained trees on the end use of the site.
- Measures required to protect retained trees during the development works and the ongoing monitoring of construction works to ensure that retained trees remain protected effectively.

1.3 The site is under the administrative jurisdiction of Adur and Worthing Council. The council have confirmed that there are no Tree Preservation Orders relating to the site. Moreover, the site is not located within a Conservation Area.

1.4 The site was visited on 8th March 2022 and an assessment of the trees in the vicinity of the proposed development completed in line with the guidance provided in British Standard 5837:2012 'Trees in relation to design, demolition and construction Recommendations'.

1.5 The proposed development includes the demolition of an existing garage and the construction of a detached dwelling.

1.6 This report should be read with refence to the following drawings (Table 2):

Originator	Drg No	Title
Nicholas Jones Consultants Limited	NJCL 998_01_090322	Tree Layout Plan
Nicholas Jones Consultants Limited	NJCL 998_02_090322	Tree Protection Plan

Table 2

1.7 The following technical references are made in this report (Table 3):

Originator	Title/Reference
British Standards Institute	5837:2012 Trees in relation to design, demolition and construction - Recommendations

Table 3

2. Arboricultural Impact Assessment

2.1 Development proposals can impact on trees by requiring their removal or by adversely affecting their longevity through disturbance to their rooting environment or the impact of severe pruning. In many cases however it is possible to reduce the levels of disturbance by implementing precautionary measures and by adopting appropriate working practices.

Direct impacts of the proposed development on existing trees

2.2 The proposed development is located outside the Root Protection Areas of the retained off site trees. The proposal increases the distance between the trees and built structure and will result in a direct enhancement to their growing conditions. Demolition of the existing structure is the only process that could be potentially injurious to the trees. This can be appropriately mitigated through the use of temporary ground protection measures and the adoption of suitable working practices. These are detailed in Section 3 of this report.

Impacts of the retained trees on the proposed development

2.2.1 The location and orientation of the proposed development obtains full benefit from available sun light. T1 will cast some shade into the garden area however this is not considered excessive. T2 – T4 will cast shade seasonally, again however this is not considered excessive.

Impacts of the proposed tree pruning/removals

2.2.2 There is no pruning or tree removal required to facilitate the proposed development.

3. Arboricultural Method Statement

3.1 The principal purpose of an Arboricultural Method Statement is to ensure the preservation of retained trees through setting out appropriate working practices, construction techniques and tree protection measures that will be adopted when construction work is undertaken.

3.2 The following Arboricultural Method Statement includes a reference to a Tree Protection Plan (Ref: NJCL 998_02_090322 **Appendix 2**) which identifies the following:

3.2.1 Trees to be retained.

3.2.2 Root Protection Areas.

3.2.3 Tree Protection Measures.

Root Protection Areas

3.2.4 British Standard 5837:2012 recommendations provide a formula for calculating the Root Protection Area (RPA) which indicates the area around a tree deemed to contain sufficient roots and soil rooting volume to maintain the trees viability. The protection of the roots and soil within these areas should be treated as a priority. The shape of the RPA and its exact location will depend upon arboricultural considerations and the area will normally be represented on a constraints plan as a circle or polygon. No work should be undertaken within any of the defined RPA's that may cause compaction to the soil or the severance of any tree roots.

Tree Protection Measures

3.2.5 The existing boundary fencing will be retained to separate the retained off site trees from construction activity.

3.2.6 In addition, ground protection measures will be installed within the, to facilitate pedestrian construction access around the proposed development. The location of the temporary ground protection is indicated on Drg No. NJCL 998_02_090322 Tree Protection Plan **Appendix 2**.

3.2.7 The ground protection should accord with the guidance contained in section 6 of British Standard 5837:2012 - Trees in relation to design, demolition and construction – Recommendations and consist of a single thickness of scaffold boards placed 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. 100 mm depth of woodchip), laid onto a geotextile membrane.

Demolition

3.2.8 The existing structure on site shall be demolished to facilitate the proposed development. Demolition has the potential to be injurious to the retained off site trees if not completed appropriately. Prior to any demolition works taking place the ground protection measures shall be in place. The demolition shall be pulled inwards onto the existing footprint to avoid mechanical access to the RPA's of the retained off site trees.

4. Summary & Conclusions

4.1 British Standard 5837: 2012 contains clear and current recommendations for a best practice approach to the assessment, retention and protection of trees on development sites. The proposed development has followed this guidance by:

- Seeking arboricultural advice to inform the layout and design of the proposal
- Respecting the constraints posed to development of the site by the retained trees, and taking proactive steps to ensure their protection during development
- Continuing to take advice on all aspects of the proposal that may impact upon the retained trees

4.2 It is my professional opinion that the proposals put forward allow for confidence in the long-term retention of the existing tree cover and would not result in any detriment to the character of the local area and the wider treescape.

4.3 From an arboricultural perspective the principle of the proposed development is therefore considered supportable in terms of Local Policy relating to trees.

4.4 In summary, I consider that there are no valid arboricultural issues that reasonably restrict the proposed development of the site.



Prepared by Nicholas Jones *BSc (Hons). MSc. M Arbor A.*

Date: 9th March 2022

Arboricultural ASSOCIATION Professional Member

No. PRO 1672

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Appendix 1 – Tree Survey

The trees within the area of the proposed development, and within neighbouring and adjoining areas where trees may have some significance to the proposed development, have been assessed and are recorded in the tree schedule (**Appendix 1**). Tree locations are plotted onto Drg No. NJCL 998_01_090322 Tree Layout Plan (**Appendix 2**). The trees have been visually assessed from ground level only using non-invasive methods of inspection. Tree height is an estimation, crown spread and height to underside of canopy are measured with a laser range finder.

The survey information collated for each tree is as follows:

- Tree reference number: As recorded on the site plan.
- Tree species: Common name and full botanical classification
- Life stage: (J) Juvenile, (SM) Semi mature, (EM) Early mature, (M) Mature, (OM) Over mature, (V) Veteran
- Estimated remaining contribution in years e.g.: Less than 10, 10-20, 20-40, more than 40
- Height: In metres
- Stem diameter measured in millimetres as follows:
    - Single stem trees - measured at 1.5m above ground level
    - Multi stem trees (less than five stems) total of all stem diameters measured at 1.5m above ground level
    - Multi stem trees (more than five stems) mean stem diameter measured at 1.5m above ground level
- Crown Spread: Measured at the four cardinal points (Metres)
- Height to underside of canopy: Measurement from ground level to the lowest branch (Metres)
- Physiological condition: Good, Fair, Poor, Dead

- Structural condition: Assessed as previous item on presence of decay and potential structural defects
- Quality assessment category: As defined in Table 1.1
- Comments and observations: Information regarded as relevant by the assessing arborist
- Preliminary management recommendations: Details of any remedial action required to address significant defects and or facilitate development
- Adjusted root protection area radius (Metres) calculated in accordance with the formulas provided in chapter 4.6 and Annex D of BS5837:2012

A full hazard assessment of the trees, such as decay detection and mapping, has not been undertaken as this is considered beyond the scope of this report. Obvious hazards and defects that would reasonably affect the trees contribution to the landscape have been fully considered and are detailed in the tree survey schedule.

British Standard 5837:2012 provides guidance for the assessment of trees on development sites and suggests four primary quality assessment categories and three associated sub-categories into which trees should be placed. These categories are defined in Table 1.1:

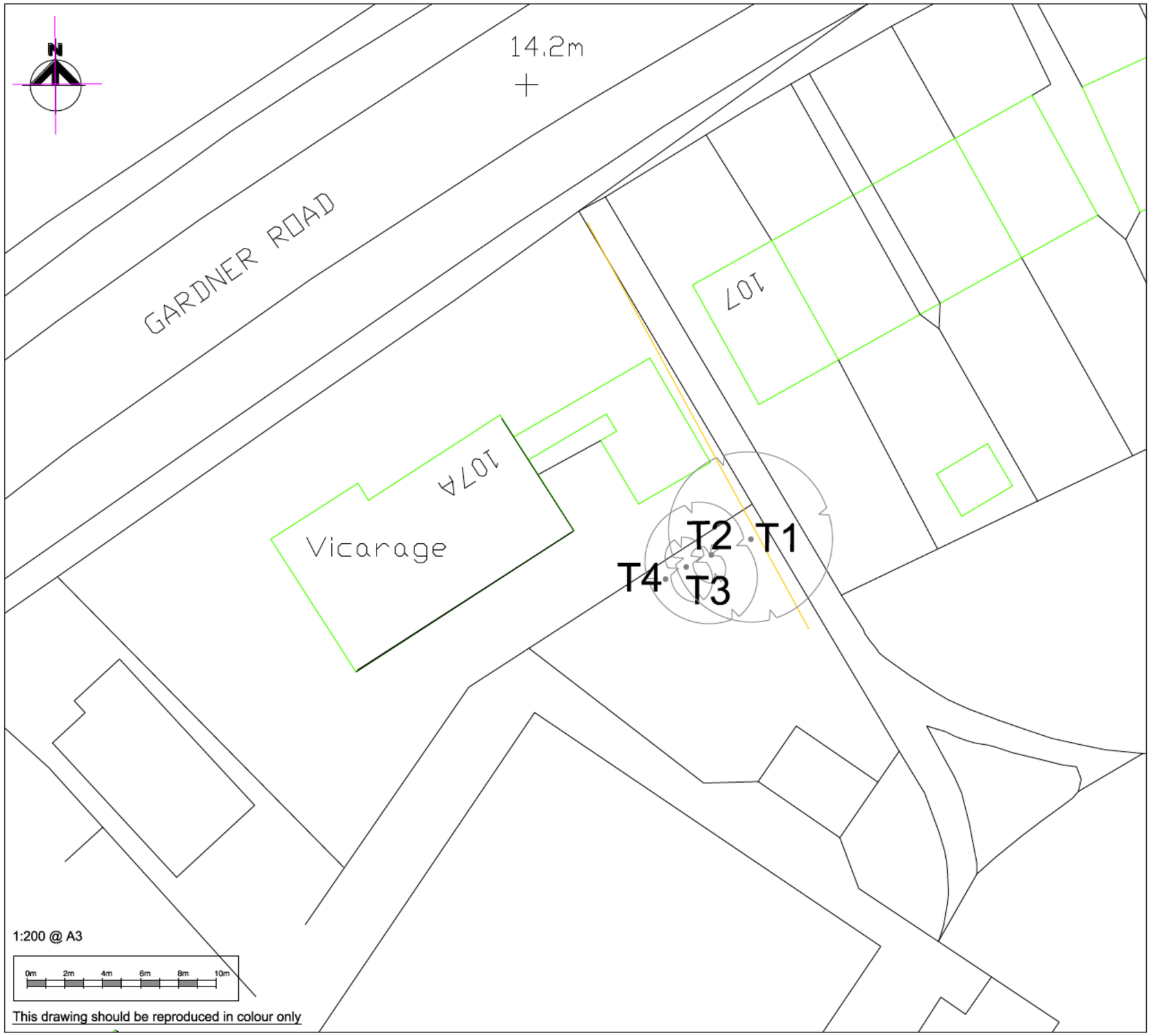
Category & Definition	Criteria			Identification on Plan
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (i.e. 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 **NOTE:** Category U trees can have existing or potential conservation value which it might be desirable to preserve			Dark Red
Trees to Be Considered for Retention				
Category & Definition	**Criteria - Subcategories**			**Identification on Plan**
	1. Mainly arboricultural qualities	**2. Mainly landscape qualities**	**3. Mainly cultural values, including conservation**	
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 or 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 as groups or woodlands, such that they attract a higher collective rating that 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 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present on groups or woodlands, but without this conferring on them significantly greater collective landscape value, and/or trees offering low or only temporary/transient landscape benefit	Trees with no material conservation or other cultural value	Grey

Table 1.1

Site:	107A Gardner Road	Date:		09.03.2022			Reference No:				NJCL - 998				Surveyor:	N D Jones		
Tree number	Tree species	Life stage	Estimated remaining contribution (years)	Tree Height (m)	Number of stems	Stem diameter (mm)	Crown spread (m)				Height to underside of canopy (m)	Physiological condition	Structural condition	Quality Assessment Category	Comments and observations	Preliminary Management Recommendations	Root Protection Area (m^2) for retained trees	Root Protection Area Radius (m) for retained trees
							N	E	S	W								
T1	Holm oak (*Quercus ilex*)	EM	<15	8	1	350	4.5	4.5	4.5	4.0	3.5	Fair	Poor	C1	Off site to the south, misshapen crown due to wind exposure	None	55	4.2
T2	Pedunculate oak (*Quercus robur*)	J	<15	4	1	75	0.5	0.5	1.5	1.0	2.0	Fair	Fair	C1	Off site to the south, fair specimen suppressed by T1	None	3	0.9
T3	Pedunculate oak (*Quercus robur*)	J	<15	8	1	110	1.5	1.0	2.0	1.0	1.5	Fair	Fair	C1	Off site to the south, fair specimen	None	5	1.3
T4	Pedunculate oak (*Quercus robur*)	J	<15	8	1	225	3.0	2.0	3.5	3.5	2.0	Fair	Fair	C1	Off site to the south, fair specimen	None	23	2.7

Appendix 2 - Drawings

*Do not scale from the drawings reproduced within this report



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

*** NB: All trees are located off site to the south and are within the adjacent community garden area**

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Client's Name
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Job Title
107A Gardner Road, Southwick
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Drawing Title
Tree Layout Plan

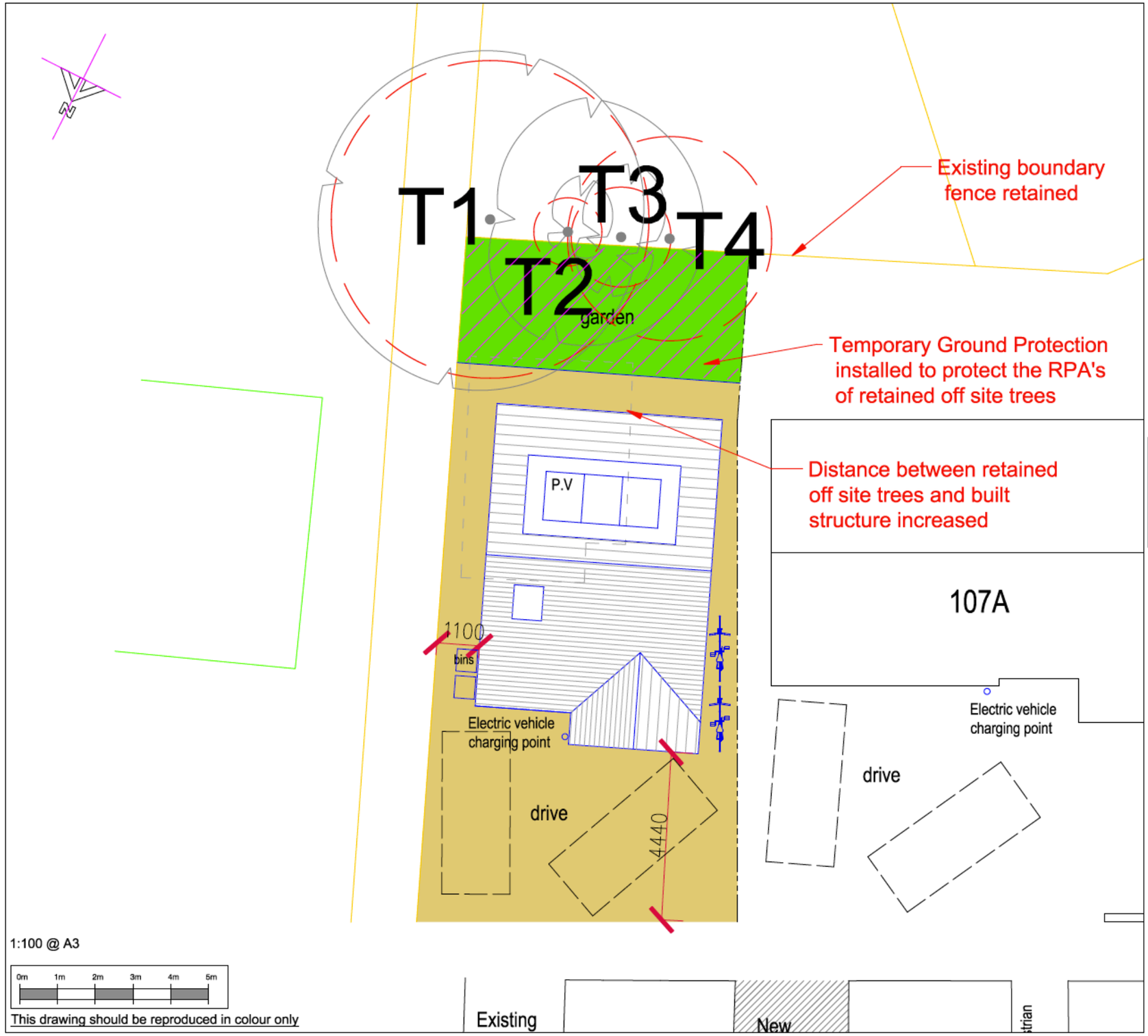
Scale
1:200 @ A3

Drawn
NDJ

Date
09.03.2022

Drg No
NJCL 998_01_090322

Status
INFORMATION



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

Root Protection Area (RPA)

Extent of ground protection during the construction phase

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Client's Name
Sinnis Ltd

Job Title
107A Gardner Road, Southwick
West Sussex, BN41 1PN

Drawing Title
Tree Protection Plan

Scale
1:100 @ A3

Drawn
NDJ

Date
09.03.2022

Drg No
NJCL 998_02_090322

Status
INFORMATION

1:100 @ A3

0m 1m 2m 3m 4m 5m

This drawing should be reproduced in colour only

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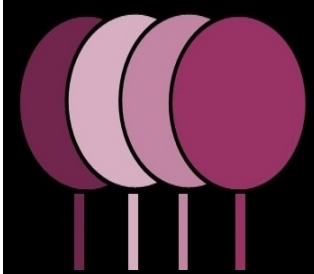

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