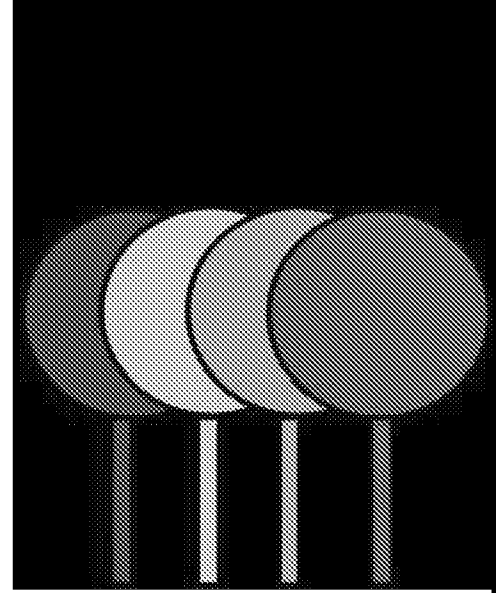




Nicholas Jones Consultants Limited

Independent Professional Arboricultural Consultancy

Arboricultural Assessment and Method Statement

Site: 19 Kingsway
Aldwick
West Sussex
PO21 4DQ

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

On behalf of Mr Stephen Wood

Date: 8th November 2019

Ref: NJCL 576

Executive Summary

Nicholas Jones Consultants Limited were commissioned by Mr Stephen Wood to prepare an arboricultural report to advise on the potential impacts of the proposed development upon the existing tree population located at 19 Kingsway, Aldwick, West Sussex, PO21 4DQ.

The proposed development includes the formation of a widened access to an approved new garage.

This report confirms that there is one low-quality tree proposed for removal to facilitate the proposed development along with the removal of a group of low-quality shrub/scrub species.

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	2	2	0
Category C	1	0	1
Category U	1	0	1

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 19 Kingsway, Aldwick, West Sussex, PO21 4DQ.

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 30 years' experience in the arboricultural industry with the past 20 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 am a Professional Member of both the Arboricultural Association and the Consulting Arborist Society and 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 Mr Stephen Wood 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.
 - 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 was visited on 6th November 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'.

1.4 The site is under the administrative jurisdiction of Arun District Council. Reference to the councils interactive GIS facility has confirmed that the site is located within the Craigwell House Conservation Area. Moreover, Tree Preservation Order AW/1/108 affords statutory protection to trees within the local area.

<https://www1.arun.gov.uk/webapps/wml/>

1.5 This report should be read with reference to the following drawings (Table 2):

Originator	Drg No	Title
Nicholas Jones Consultants Limited	NJCL 576 A	Tree Layout Plan
Nicholas Jones Consultants Limited	NJCL 576 B	Preliminary Tree Protection Plan

Table 2

1.6 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.
- 2.2 An assessment of the trees affected by the proposed development is summarised in Table 4 below. Full details of all the trees assessed are provided in the tree survey schedule in **Appendix 1**.
- 2.3 Tree locations are provided in the Tree Layout Plan (Ref: NJCL 576 A **Appendix 2**).

	BS5837:2012 Assessment Category			
	A	B	C	U
Trees to be removed	0	0	1	1
Trees to be retained & protected	0	2	0	

Table 4

- 2.4 Impacts of the proposed tree pruning - The locations of the trees proposed for removal are provided in the Tree Layout Plan (Ref: NJCL 576 A **Appendix 2**). The impacts of the proposed tree removals are assessed in Table 5.

Tree Number(s)	Impact of tree removal
2	<u>Low impact</u> as this low-quality tree (U category) is located adjacent to the boundary wall and is suckering along the line of the wall which will lead to damage. Elm is not a sustainable species in the wider area due to residual infections of Dutch elm disease.
G1	<u>Low impact</u> as these low-quality (C category) semi mature trees are of poor form with misshapen crowns as a result poor management and internal scrub growth. Their loss will be largely unnoticeable from outside the curtilage of the site.

Table 5

2.5 The potential impacts of the proposed development on the retained trees on site are summarised in Table 6:

Tree Number	Extent of the incursion	Nature of the incursion	Mitigation required	Level of impact
1	4.8m ² (11.7%)	Proposed widened access	Hand excavation only within PA	LOW
3	3.8m ² (7.9%)	Proposed widened access	Hand excavation only within PA	LOW

Table 6

2.6 The above incursions are considered to be within acceptable limits, subject to the precautionary measure of any associated excavations being undertaken by hand following the principles contained within section 7.2 of BS5837:2012 'Avoiding physical damage to the roots during demolition or construction'. To ensure that the principles are adhered to, it is recommended that the works within RPA's (Defined as the Precautionary Area), are carried out under direct arboricultural supervision.

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 Tree Protection Plan (Ref: NJCL 576 B **Appendix 2**) which identifies the following:

- 3.2.1 Trees to be retained.
- 3.2.2 Construction Exclusion Zone.
- 3.2.3 Precautionary Area.
- 3.2.4 Tree Protection Measures.

3.3 Construction Exclusion Zone

3.3.1 British Standard 5837:2012 recommendations provide a formula for calculating the Root Protection Area 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. This information will inform the extent of the CEZ. No work should be undertaken within any of the defined CEZ's that may cause compaction to the soil or the severance of any tree roots.

3.4 Precautionary Area

- 3.4.1 The Precautionary Area is deemed any area inside the RPA of a retained tree that is subject to construction activity. The Precautionary Areas are indicated on Drg No. NJCL 576 B Tree Protection Plan **Appendix 2**. All excavation work within the Precautionary Area should be completed under the supervision of the Project Arborist.

3.5 Tree Protection Measures

- 3.5.1 Protective fencing should be erected in accordance with section 6 of BS5837:2012 and as indicated in Figure 1. The proposed location of the protective fencing is indicated on Drg No. NJCL 576 B Tree Protection Plan **Appendix 2**.

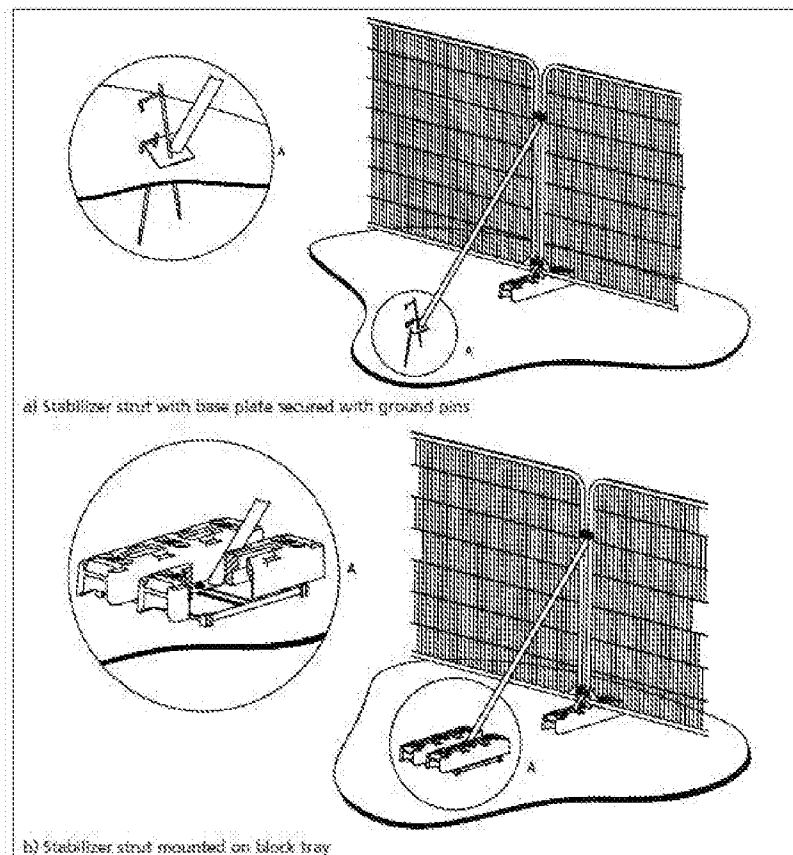


Figure 1

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 our 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 conservation 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. This opinion is strongly subject to the adoption of future safeguards for protecting trees.

4.4 In summary, we 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: 8th November 2019



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Appendix 1 – Tree Survey

All trees on site have been assessed and are recorded in the tree schedule (**Appendix 1**) with all key trees plotted onto Drg No. NJCL 576 A 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 Disto laser measure.

The survey information collated for each tree is as follows:

- Tree reference number: As recorded on the site plan.
- Tree species: Common name only
- 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
- Adjusted root protection area radius (Metres) calculated in accordance with the formulas provided in chapter 4.6 and Annex D of BS5837:2012
- 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: Excellent, 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
 - 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

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:



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

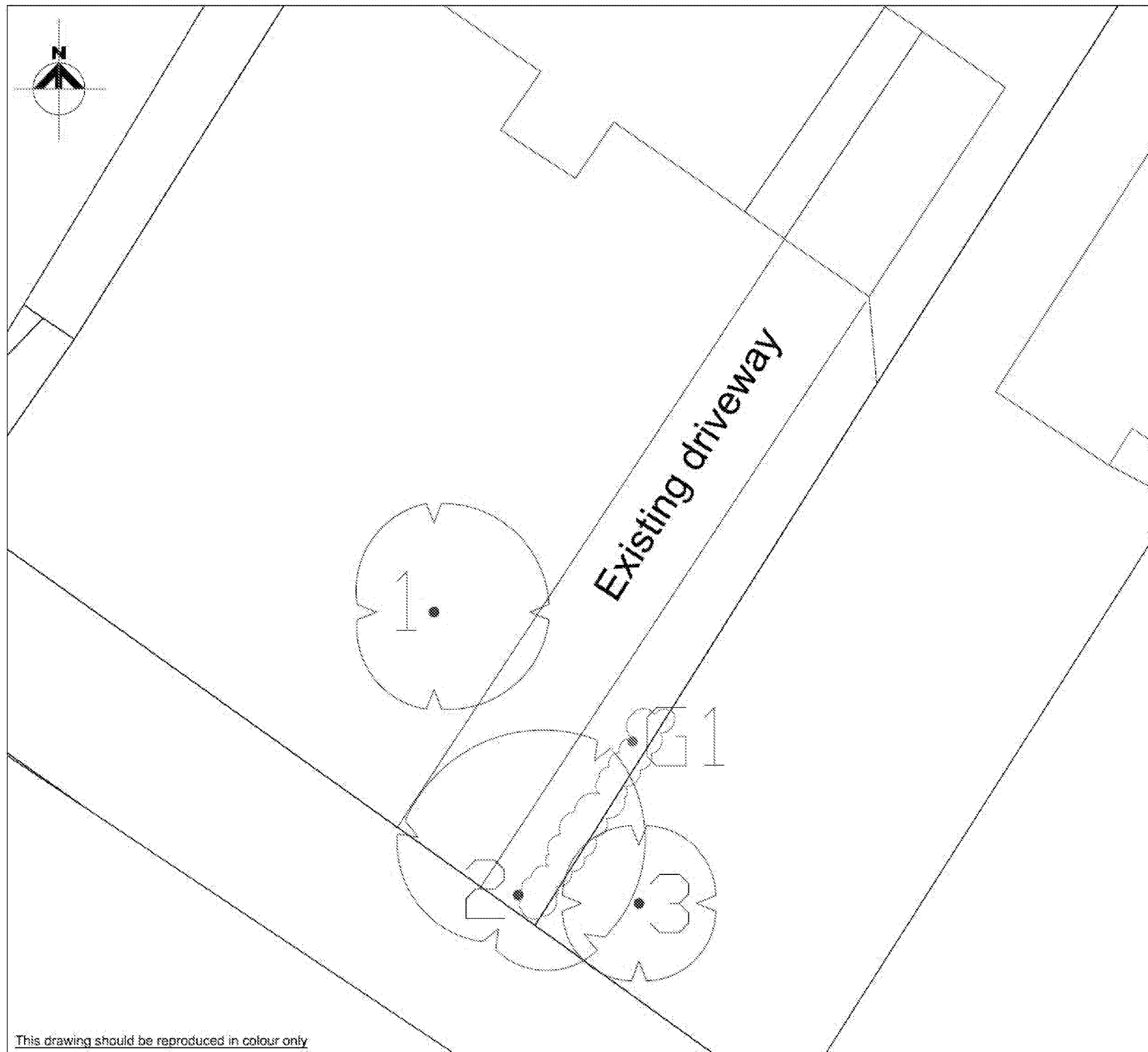


Notes: Root Protection Areas have been omitted for Category U trees and others proposed for removal as it is assumed they will not be subject to retention. RPA's are capped at a 15m radius (707m²) in accordance with British Standard 5837:2012.

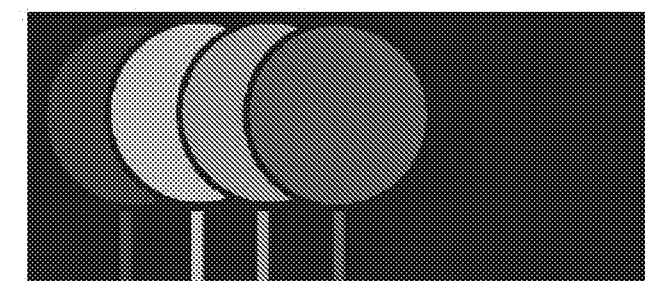
Site:	19 Kingsway, Aldwick	Date:	06.11.2019	Reference No:				NJCL - 576				Surveyor:		N D Jones			
Tree number	Tree species	Life stage	Estimated remaining contribution (years)	Tree Height (m)	Number of stems	Stem diameter (mm)	Crown spread (m)				Height to underside of canopy (m)	Physiological condition	Structural condition	Quality Assessment Category	Comments and observations	Preliminary Management Recommendations	Root Protection Area Radius (m) for retained trees
							N	E	S	W							
1	Lawson cypress	M	<20	6	1	300	2.8	3.0	2.5	2.0	0.3	Fair	Fair	B	Fair specimen located adjacent to the existing access and driveway	None	3.6
2	English elm	SM	<5	9	2	175 100	4.5	2.5	1.5	3.5	3.0	Fair	Fair	U	Adjacent to existing boundary wall, suckering and damaging wall	Fell to ground level to prevent further damage	N/A
3	Cypress	EM	<20	7	1	325	2.0	2.0	2.0	2.0	3.0	Fair	Fair	B	Fair specimen located off site in the front garden of the neighbouring property	None	3.9
G1	Mixed species	J	<15	5								Fair	Fair	C	Low value mixed species group of holly and laburnum located adjacent to the existing driveway	Fell to facilitate the proposed widened access	N/A

Appendix 2 - Drawings

*Do not scale from the drawings reproduced within this report



- Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
- 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
- Category U - Trees in such a condition that their retention in the context of the current land use cannot reasonably exceed 10 years



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Client's Name

Stephen Wood

Job Title

19 Kingsway, Aldwick, West Sussex
PO21 4DQ

Drawing Title

Tree Layout Plan

Scale

1:100 @ A3

Drawn

NDJ

Date

08.11.2019

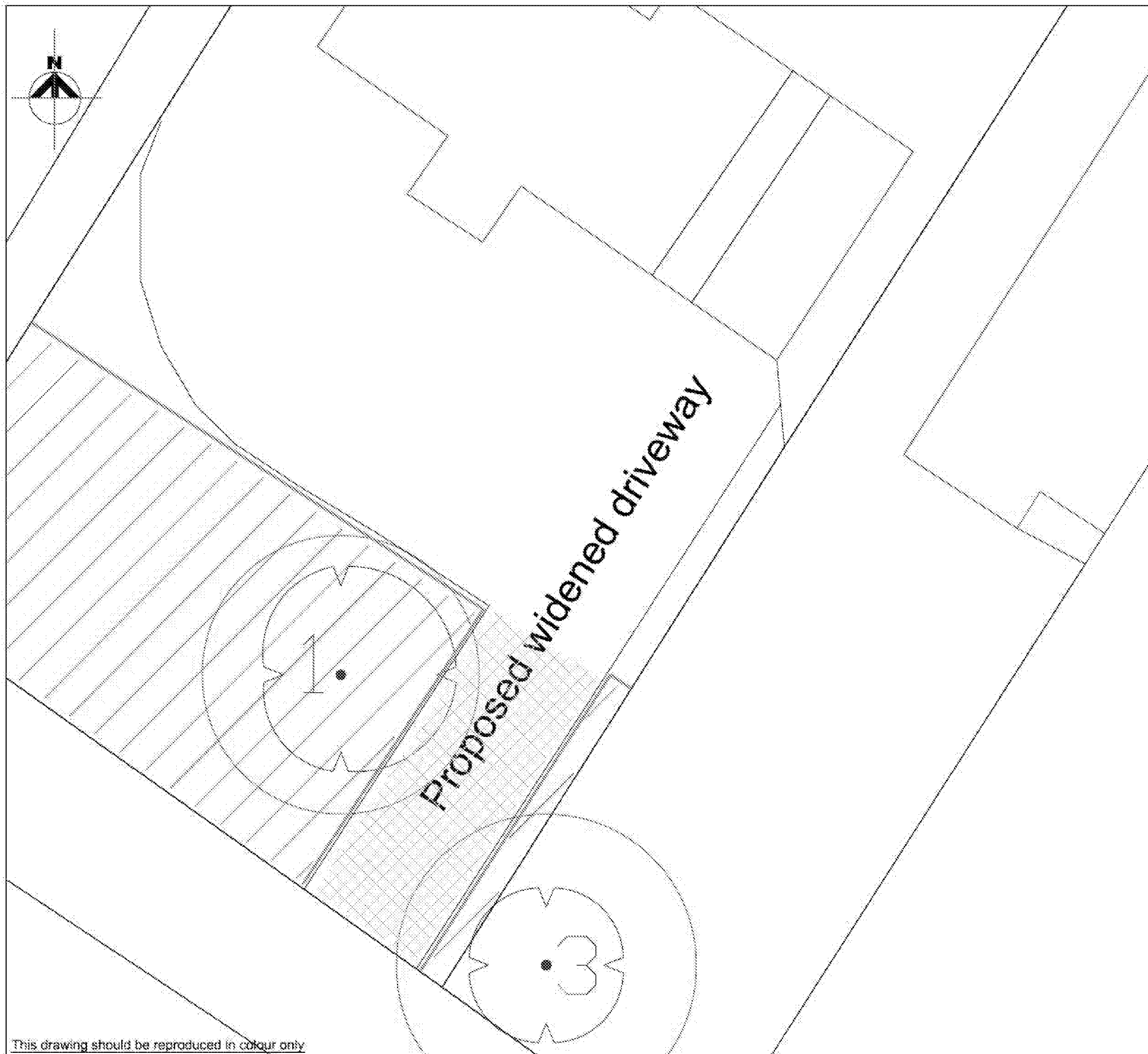
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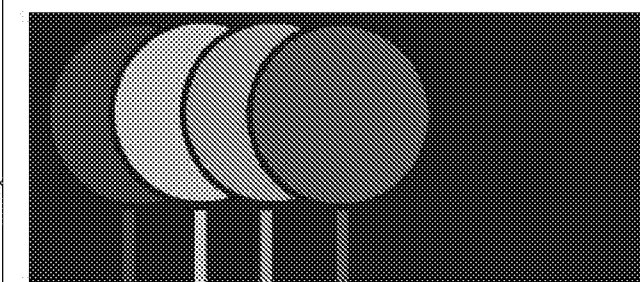
Status

INFORMATION

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- Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years
- Root Protection Area (RPA)
- Tree Protection Fencing (TPF)
- Precautious Area (PA)
- Construction Exclusion Zone (CEZ)



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Client's Name

Stephen Wood

Job Title

**19 Kingsway, Aldwick, West Sussex
 PO21 4DQ**

Drawing Title

Tree Protection Plan

Scale

1:100 A3

Drawn

NDJ

Date

08.11.2019

Org No

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Status

INFORMATION

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