

Arboricultural Impact Assessment

Caffyns Volvo Site
Roundstone Lane
Angmering
West Sussex

8th December 2021



PJC ref: 5966/21-02 Rev –

This report has been prepared by
PJC Consultancy Ltd
on behalf of
Caffyns Volvo

**Prepared
by**

Nick Betts HND For M.Arbor.A

Nick has attained an HND in forestry management and is a professional member of the Arboricultural Association. He has worked in the arboricultural and forestry industries for over 20 years. He started his career as a forestry worker before qualifying as a tree surgeon, working in both the private and commercial sectors. He has been a practising consultant since 2004. He is a Lantra accredited professional tree inspector.

**Checked
by**

Peter Davies FdSc Arboriculture M.Arbor.A

Peter has a Foundation Degree in Arboriculture from the University of Brighton and is a professional member of the Arboricultural Association. He has over ten years experience in the arboricultural industry, originally working as a groundsman and feller, and progressing into consultancy. He is a Lantra accredited professional tree inspector.

Sussex office:

Rocks Yard, Victoria Road,
Herstmonceux, Hailsham,
East Sussex, BN27 4TQ

Kent office:

Unit 1, Hanover Mill,
Mersham, Ashford,
Kent, TN25 6NU



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1 EXECUTIVE SUMMARY

1.1 This report should be read in conjunction with arboricultural survey ref. PJC/5966/21-01 and arboricultural method statement ref. PJC/5966/21-03.

1.2 **Site location:** The site is situated to the east of Roundstone Lane, more broadly to the north of Angmering. The surrounding land use is comprised of a car dealership to the east, residential properties to the north and south and Roundstone Lane to the west. The location of the site within its environs is shown in figure 1.



Figure 1: Location of Site and Environs (Map data: © 2021Google)

1.3 **Proposal:** A proposal has been outlined to construct a car sales showroom and associated forecourt parking, with soft landscaping scheme.

1.4 **Tree removals:** Trees T1, T2, T3, T4 and T5 will require removal to facilitate the proposed development. Trees T1, T2, T4v and T5 are in areas where new parking is proposed. Tree T4 has surfacing proposed across more than forty percent of its root protection area, and even if retained it would need to be heavily pruned to provide access, and repeated further pruning would need to be undertaken as the tree matures to maintain access. Their loss will be mitigated by replanting during the soft landscaping phase of development.

1.5 **Access facilitation pruning:** No access facilitation pruning is anticipated in addition to the initial tree/vegetation clearance works to enable the proposed construction works.

1.6 **Works within root protection areas:** A new retaining wall will be constructed within the root protection area of Tree T8 requiring sympathetic construction methodologies.

2 INTRODUCTION

2.1 Instruction: PJC Consultancy has been instructed by Caffyns Volvo to provide an arboricultural impact assessment in accordance with BS5837: 2012 '*Trees in relation to design, demolition and construction – Recommendations*' for the proposed development at Roundstone Lane, Angmering.

2.2 Objectives of report: This report has been undertaken with the following objectives:

- To identify the tree removals and pruning works that will be required as a result of the proposed development and to assess the impact of the tree works.
- To assess the potential impact the proposed construction works will have on retained trees and provide recommendations for mitigation measures to reduce the impact on the trees.

2.3 Scope of this report: This report is concerned with all significant trees and arboricultural features located within the site boundary. Additionally, trees located around the curtilage of the site have also been assessed when they are considered likely to have the potential to impact on the development (in relation to root and crown protection or foundation design).

2.4 Contents of report: This report includes the following:

- A schedule of trees to be retained/removed.
- An assessment of the impact construction works will have on retained trees and mitigation measures to be implemented.
- Tree Constraints Plan and Tree Retention Plan.
- Tree Survey Schedule including management recommendations related directly to the proposed development.

2.5 Documents and information provided: The following documents were used to aid the preparation of this report:

- Drawing ref. Proposed Site Layout

2.6 Limitations of report: The following arboricultural impact assessment has been prepared for the proposal stated in paragraph 1.3 and using the plans and information listed in paragraph 2.5. The report should not be relied upon if the stated proposal or proposed design changes unless the author confirms the changes do not have a bearing on the arboricultural impacts or recommended mitigation measures.

3 ARBORICULTURAL IMPACT ASSESSMENT

3.1 Tree removals: Trees to be removed for the proposed development are shown with dashed outlines on the Tree Retention Plan in Appendix 1 and are shaded to indicate their BS5837 tree category. These comprise 2x category B trees, 2x category C trees and 1x category U tree. A summary of the tree removals is shown below.

Table 1: Tree removals summary

Tree category	Trees to be felled	Total
A	0	0
B	2	2
C	2	2
U	1	1

3.2 Mitigation planting: The site offers ample opportunity for both replacement and additional tree planting during the soft landscaping phase of development. The detailed soft landscape proposals for the proposed development are to be confirmed on the date of this report.

3.4 Access facilitation pruning: Based on the information currently available, it is anticipated that the crowns of all remaining retained trees will be located a sufficient distance from proposed construction activities and expected construction access routes so as not to require access facilitation pruning.

3.5 Any additional requirements for access facilitation pruning that cannot be predicted at this stage in the design process (e.g. for contractor compound or movement of large or specialist plant machinery) shall be discussed at the pre-commencement meeting with the project arboriculturalist and agreed with the local authority arboricultural officer. No works may be carried out on protected trees without prior permission from the local authority.

3.6 The tree works contractors should carry out all tree works to BS3998: 2010 'Tree works – recommendations', as modified by research that is more recent. They should also carry relevant, adequate and up to date insurance. It is also recommended that all tree works are carried out by an Arboricultural Association approved contractor. Approved contractors are expected to work to industry best standards, and the Arboricultural Association website (www.trees.org.uk) contains contact details and information on engaging a suitable contractor.

3.7 Construction of retaining wall within RPA of tree T8: The retaining wall on the northern boundary will be constructed within the RPA of T8. The tree is in good health and vigour and the minor encroachment should not adversely affect the tree's long-term retention potential. The retaining wall will require excavation of the toe of the bank, formation of a concrete base, and installation of a precast concrete wall. Although this work will be undertaken across a small proportion of the RPA, due to the topography of the site it is unlikely that tree roots will be located in the vicinity of the works.

3.8 Vulnerability of trees during construction period: Construction activities can cause compaction or contamination of the rooting medium, which can have a significant detrimental impact on root function and the long-term health of trees. Similarly construction activities can result in damage to the above ground parts of trees that are not sufficiently segregated from the works area. It is therefore important to implement a tree protection strategy during the construction period. This strategy is described in the arboricultural method statement and on the accompanying Tree Protection Plan. The purpose of the tree protection strategy is as follows:

- To protect the above ground parts of trees from physical damage such as contact with plant machinery.
- To prevent compaction of the soil within root protection areas resulting from activities such as the movement of plant machinery or the storage of construction materials.
- To prevent contamination of the rooting medium resulting from the storage and handling of harmful chemicals such cement/cement washings, builders sand or fuel within root protection areas.
- To specify sympathetic construction methodology for specific activities that will occur within root protection areas.

4 CONCLUSIONS

4.1 Trees requiring removal to facilitate the proposed development comprise 2 category B trees, 2 category C trees and 1 category U tree. All other arboricultural features will be retained and incorporated into the proposed site layout. The loss of these trees will be mitigated by replanting during the soft landscaping phase.

4.2 The proposed site layout involves construction of a retaining wall within the root protection area of tree T8. Due to the condition and vigour of the tree and the topography of the site, the works are unlikely to adversely affect the tree.

4.3 All proposed buildings and areas of new surfacing will be located outside the root protection areas of retained trees. Provided the exclusion zones and methodologies described in the arboricultural method statement and Tree Protection Plan are followed, trees proposed for retention should not be adversely affected by the construction works.

4.4 Based on the above assessment, trees recommended for retention in this report can be protected during the construction period and successfully integrated into the site post development.

Contact details

Sussex office:

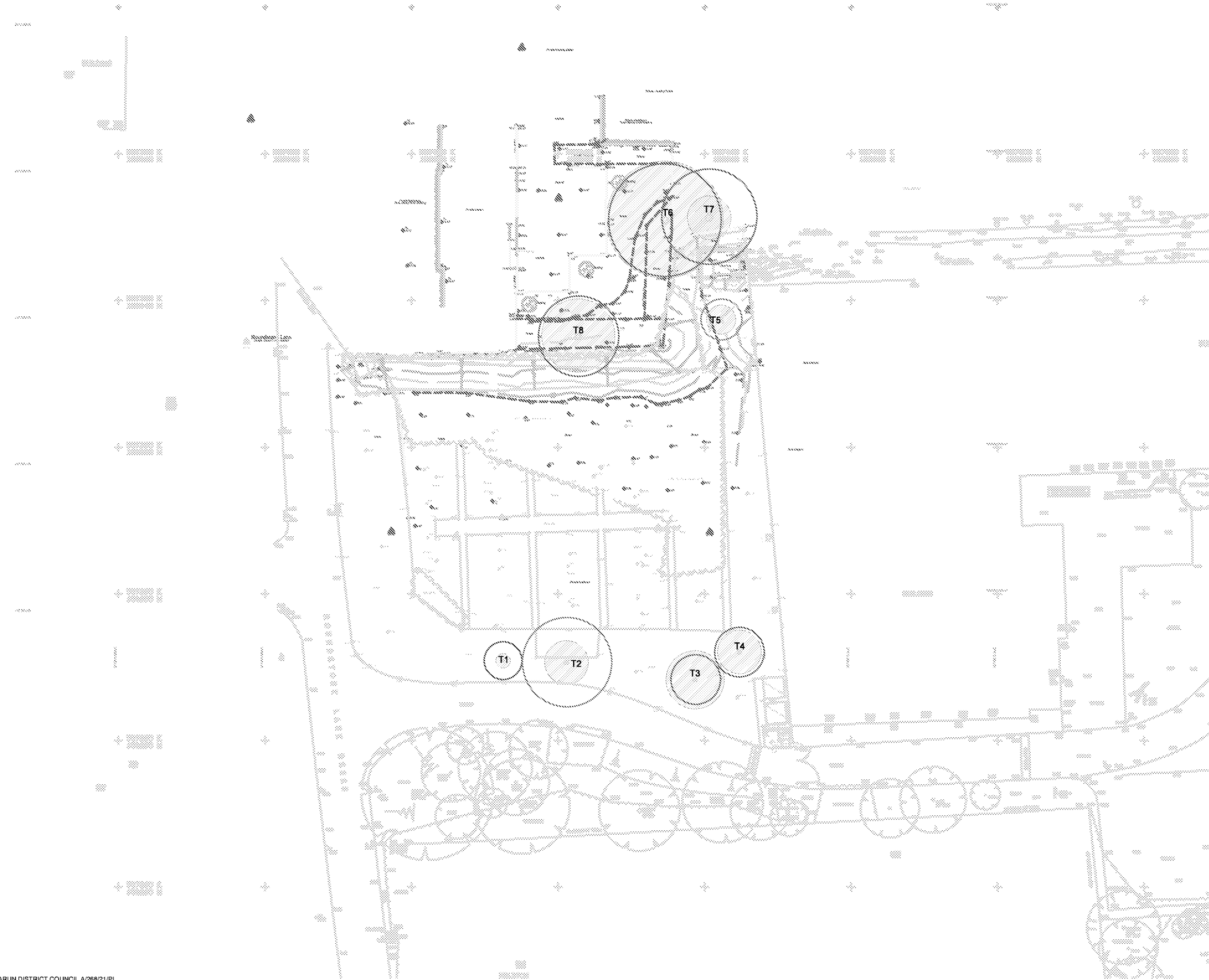
Rocks Yard
Victoria Road
Herstmonceux
Hailsham
East Sussex
BN27 4TQ

Author: Nick Betts

Date: 9th Decemebr 2021

APPENDIX 1

Tree Constraints Plan and Tree Retention Plan



Key:

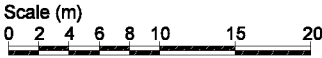
-  Root protection area for category B* tree
-  Root protection area for category C* tree
-  Root protection area for category U* tree
-  Tree canopy

* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

Appendix 2, (Tree Survey Schedule) contained within the arboricultural re ref. PJC/5966/21-01 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.



Drawing no: PJC/5966/21/A Rev: - Sheet number: 1 of 1

Client and site:
Caffyns Volvo

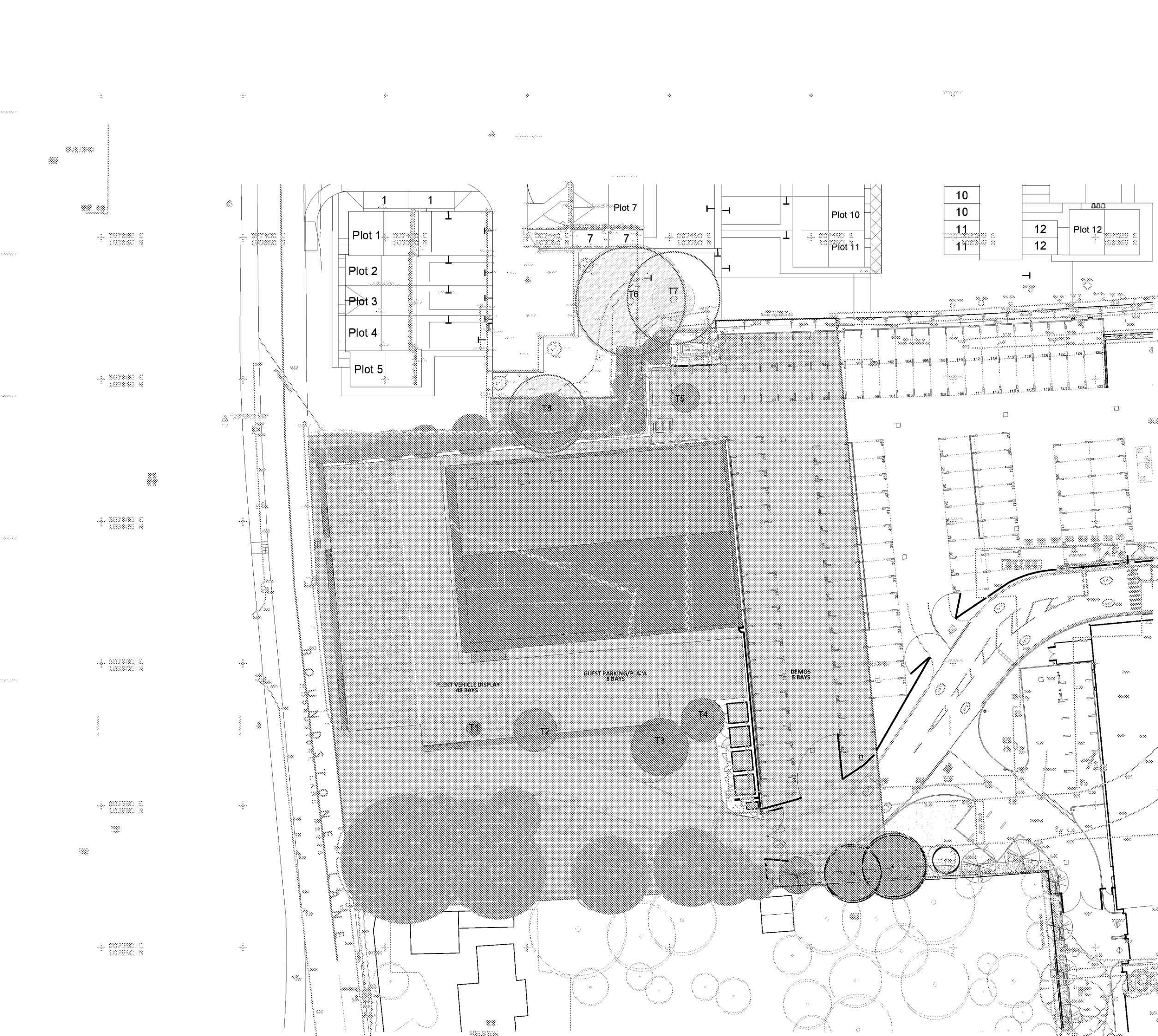
Land at Roundstone Lane
Angmering
West Sussex

Drawing title: Tree Constraints Plan

Date drawn: 15/11/2021

Scale: 1:500 at A3

Drawn by: NB **Checked by:** PD



Key:

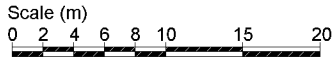
-  Root protection area for category B* tree to be retained
-  Canopy of tree to be retained
-  Root protection area for category B* tree to be removed
-  Root protection area for category C* tree to be removed
-  Root protection area for category U* tree to be removed
-  Excavation required within root protection area

* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

Appendix 2, (Tree Survey Schedule) contained within the arboricultural report ref. PJC/5966/21-01 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.



Drawing no: PJC/5966/21/B Rev: - Sheet number: 1 of 1

Client and site:
Caffyns Volvo

Land at Roundstone Lane
Angmering
West Sussex

Drawing title: Tree Retention Plan

Date drawn: 09/12/2021

Scale: 1:500 at A3

Drawn by: NB **Checked by:** PD



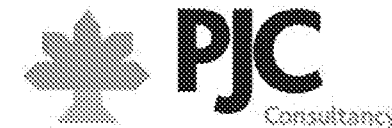
APPENDIX 2

Tree Survey Schedule

Site: Caffyns Worthing Volvo

Tree Survey Schedule

Survey date: 08/11/2021



Surveyor: NB

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Preliminary management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T1	Purple leaved plum, (Prunus)	6	220	N: 1 E: 1 S: 1 W: 1	Crown: 3 Branch: 3	Mature	Poor	Poor	Large stem wound	Fell as in conflict with design	U	21.9	2.6
T2	Cherry, (Prunus avium)	6	510	N: 3 E: 3 S: 3 W: 3	Crown: 1 Branch: 1	Mature	Fair	Fair	Heavily reduced with resulting poor form	Fell as in conflict with design	C1	117.7	6.1
T3	Beech, (Fagus sylvatica)	7	320	N: 4 E: 4 S: 4 W: 4	Crown: 0 Branch: 0	Semi mature	Fair	Fair	No major visible defects	Fell as in conflict with design	B1	46.3	3.8
T4	Silver birch, (Betula pendula)	7	280	N: 3 E: 3 S: 3 W: 3	Crown: 1 Branch: 1	Semi mature	Fair	Fair	No major visible defects	Fell as in conflict with design	B1	35.5	3.4
T5	Willow, (Salix)	5	210, 190	N: 2 E: 2 S: 2 W: 2	Crown: 0 Branch: 0	Semi mature	Fair	Fair	Located at rear of site with very limited external viewpoints	Fell as in conflict with design	C1	25.2	2.8
T6	London plane, (Platanus hispanica)	12	640	N: 8 E: 8 S: 8 W: 8	Crown: 2 Branch: 2	Mature	Good	Good	Unable to view all parts of tree due to fence line	3rd party tree	B1	185.3	7.7

Site: Caffyns Worthing Volvo

Tree Survey Schedule

Survey date: 08/11/2021



Surveyor: NB

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Preliminary management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T7	Purple leaved maple, (Acer platanoides crimson king)	6	540	N: 3 E: 3 S: 3 W: 3	Crown: 2 Branch: 2	Semi mature	Good	Good	Unable to view all parts of tree due to fence line	3rd party tree	B1	131.9	6.5
T8	Blue atlas cedar, (Cedrus atlantica glauca)	10	460	N: 5 E: 5 S: 5 W: 5	Crown: 0 Branch: 0	Semi mature	Fair	Fair	No major visible defects	No action required at date of survey	B1	95.7	5.5