

STARBUCKS,
RUSTINGTON

Tree Survey Report
210-R-001

December 2021

GREENHALGH

Landscape Architecture



Project address: Rustington Retail Park,
New Road,
Rustington,
West Sussex,
BN16 3RT

For and on behalf of: SRA Architects,
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Tree Survey Report

1 Introduction

Greenhalgh Landscape Architecture has been commissioned to undertake a survey of existing trees within a predetermined site at Rustington Retail Park in Rustington, West Sussex. It is understood the information contained within this report will be used to inform design development and in support of the Planning Application for the potential redevelopment of the site. The survey and the accompanying notes provide guidance as to the nature and quality of the existing tree stock both on and immediately adjacent to the site and this work has been conducted in accordance with BS5837:2012 *Trees in relation to design, demolition and construction – Recommendations*.

1.1 Purpose

This report is intended to give a general overview of the site and constraints posed by the existing trees to guide the design process and to set the proposed development in context. Specifically, this report and the accompanying information are supplied to:

- Identify the constraints that trees on the site present to the development of the site, to inform the site design process; and
- Present information regarding the above ground constraints (crown spreads) and below ground constraints (Root Protection Areas – RPAs), in Tree Schedule (refer to Appendix A) and on the Tree Constraints Plan drawing number 210-001 (refer to Appendix B).

This report is based on a ground level assessment of the trees. Except where stated, all dimensions are estimated. We were not presented with any information on the soil type and no soil samples have been taken. The site visit was conducted on Thursday 25th November 2021. The weather was bright with good visibility and conditions were dry.

2 Methodology

The tree survey was based upon existing site information shown on SRA Architects drawing Existing Site Plan 3713-SRA-XX-XX-D-A-PL-005 dated 22.11.21 and conducted in accordance with the requirements of BS 5837:2012.

Fieldwork was undertaken on 25th November 2021 during which dimensional data and observational information were collected. A DBH tape measure and standard metric tape measure were used in the collection of this, which now form the basis of this report. The survey recorded all trees within the site with a stem diameter of 75mm or greater at 1.5m above highest adjacent ground level.

The fieldwork informing this report comprised a non-intrusive, visual survey undertaken from ground level. Where observable, the presence and condition of bark and stem wounds, cavities, decay, fungal fruiting bodies and any structural defects that could affect the structural integrity of the trees have been noted. Where further inspection is deemed appropriate to ascertain the condition of the tree or trees, this has been identified within the preliminary management recommendations.

References to habitat value should be taken as comparative observations compared with a baseline situation with no tree present.

2.1 Presentation of survey data

Tree numbers have been noted on the plan. The following details were recorded for each tree and are included in the tree schedule sheets accompanying this report:

Reference number	An identifying number for each surveyed arboreal feature, which cross references locations shown on the plan with the tree survey sheets. T=tree, G=group, H=hedge.
Species	Common name followed by botanical name shown in <i>italics</i> .
Height	Tree height recorded in metres.
Stem diameter	Calculated stem diameter measured in millimetres, taken at 1.5m above ground from single stemmed trees or otherwise in accordance with Figure C.1 in BS5837:2012.
Canopy spread	Approximate spread in metres taken at the four compass points N, S, E, W.
Canopy clearance	Approximate height from ground to lowest part of canopy, measured in metres.
Life stage	Young (Y); Semi-Mature (SM); Mature (M); Over Mature (OM); Veteran (V). Classification is given in relation to the life expectancy of the specific species.
Structural condition	G = Good; F = Fair; P = Poor.
Physiological condition	G = Good; F = Fair; P = Poor; D = Dead.
Observations	Observations noted during tree inspections.

Preliminary recommendations	Recommended action to ensure the health and safety of the tree.
Remaining contribution (years)	<10, 10+, 20+, 40+.
BS category	Categorised grading in accordance with BS 5837:2012:  - trees of high quality with an estimated remaining life expectancy of at least 40 years.  - trees of moderate quality with an estimated remaining life expectancy of at least 20 years.  - trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.  - trees 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.
BS sub-category	Sub-categorised grading in accordance with BS 5837:2012: 1- Mainly arboricultural qualities; 2- Mainly landscape qualities; 3- Mainly cultural values including conservation.
RPA radius and area	Calculated area (metres squared) and radius (metres) of Root Protection Area given from the centre of the tree stem.

2.2 Limitations

Trees are living, dynamic organisms that can be affected by external conditions. It is therefore not possible to state with any certainty that a tree is safe.

No internal decay devices, or other invasive tools to assess tree condition, were used. No soil excavation or root inspection was undertaken.

This report has not considered the effect that trees or vegetation may have on the structural integrity of adjacent buildings, structures or surfaces.

The survey contained within this report is not a tree safety inspection. It has been carried out to inform the design and planning process. Where clear and obvious hazards have been observed, these have been addressed in the recommendations contained within the Tree Survey Schedule (Appendix A). A full assessment of the levels of risk posed by trees would be informed by considering site use together with hazards present within the aerial parts of a tree(s), beyond the scope of this report. Changes in site use are likely to occur during, and result from, the proposed development. In the light of these changes, regular tree risk assessments are advised.

Tree condition can change rapidly, the recommendations contained within this report are based on the condition of the tree at the time they were inspected.

While this appraisal is not a tree risk assessment it nonetheless considers observed structural defects of the inspected trees to inform conclusions about their retentive worth.

3 Legal duty

It is the responsibility of the tree owner to ensure that their tree(s) is in a safe and stable condition, including the effects of root activity, through duty of care in the Occupiers Liability Act (1957 & 1984).

The Wildlife and Countryside Act (1981) makes it an offence to disturb a nesting bird or recklessly endanger a bat or its roost. Professional advice should be sought, where relevant, before undertaking any recommended works.

Searches of Arun District Council interactive mapping resource <https://www.arun.gov.uk/top> shows there are no Tree Preservation Orders covering trees within the site. The mapping also confirms the site does not lie within a Conservation Area.

4 Tree survey and site assessment

The site comprises approximately 2,248m² of land located in Rustington Retail Park immediately south of New Road (A259) at the northern edge of Rustington. The site is at the eastern end of a wider area of car park. It currently comprises an area of hardstanding car park for use by customers of the adjacent retail units. It is bound to the north by a narrow amenity grass verge and to the east by ornamental tree and shrub planting. The eastern boundary is formed by the back of the footway on the public highway; a short link road that connects the 'A' road to the north with the car parks, retail units and caravan park adjacent to the site.

There are five trees within the site, growing as a linear stand amongst ornamental shrub planting in the east of the site.

Of the five trees surveyed all were categorised 'C'. The trees were assessed and graded in accordance with the *Cascade Chart for the Tree Quality Assessment*, Table 1 within BS5837:2012.

5 Arboricultural constraints and general recommendations.

Trees have a widely spreading, shallow root system. In most cases the majority of tree roots are within the top 600 mm of soil and can be expected to extend beyond the outer edge of the canopy. Roots can therefore be easily damaged by construction activity.

Constraints on the design of any potential development are presented in the Tree Survey Schedule (Appendix A) and the Tree Constraints Plan (Appendix B).

The Tree Constraints Plan (Appendix B) illustrates the Root Protection Areas (RPAs) for the individual trees identified in the Tree Survey Schedule (Appendix A). This represents the minimum area in m² which ideally, should be left undisturbed around each tree were it to be retained. The Tree Constraints Plan also shows a representation of the canopy spread of each tree measured in four cardinal directions. The RPA has been calculated in accordance with Section 4.6 of BS5837:2012 *Trees in relation to design, demolition and construction – Recommendations*.

6 References

British Standards Institution (2012); *British Standard 5837:2012 - Trees in relation to design, demolition and construction –Recommendations*. British Standards Institution, London

7 Appendices

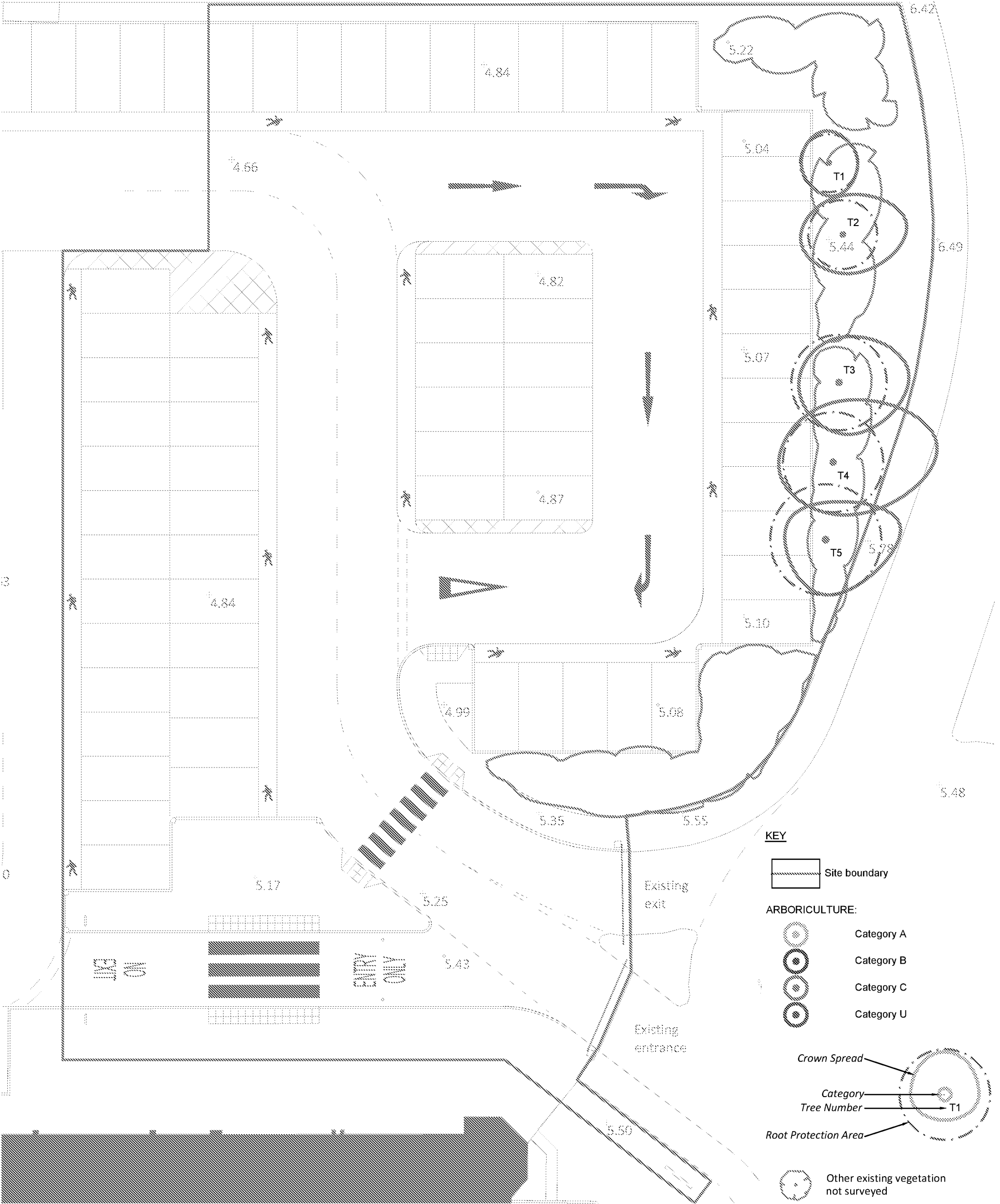
Appendix A – Tree Survey Schedule

Appendix B – Tree Constraints Plan

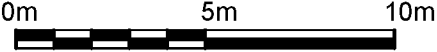
Appendix A – Tree Survey Schedule

Reference number	Common name	Botanical name	Height (m)	Number of stems	Stem diameter (mm)	Canopy spread				Canopy clearance (m)	Life stage	Structural condition	Physiological condition	Observations	Preliminary recommendations	Remaining contribution (years)	BS category	RPA radius (m) and area (m ²)
						N	S	E	W									
T1	Hawthorn	<i>Crataegus sp.</i>	4.2	1	131	1.75	1.80	1.55	1.50	1.70	SM	G	G	Pronounced lean on main stem southwards. Some suckering low branches.	Prune suckers to maintain clear stem.	10+	C2	1.576m radius. 7.8m ² area.
T2	Hawthorn	<i>Crataegus sp.</i>	4.2	1	156	2.05	2.15	3.50	2.30	1.70	SM	G	G	Small historic pruning wound in lower canopy to south, effectively raising canopy.		10+	C2	1.871m radius. 11.0m ² area.
T3	Beech	<i>Fagus sylvatica</i>	6.6	1	216	2.35	2.85	3.80	2.20	2.02	SM	G	G	Canopy starting to overhang adjacent footway to the east with low clearance height.		10+	C2	2.592m radius. 21.1m ² area.

T4	Beech	<i>Fagus sylvatica</i>	6.1	1	226	3.1	2.90	5.7	2.95	1.50	SM	G	G	Redundant stake remains in east, becoming enveloped by tree growth. Minor Ivy growth throughout canopy. Canopy substantially overhanging adjacent footway and encroaching carriageway.	Remove Ivy growth from canopy. Consider pruning canopy to give greater clearance above footway and reduce proximity to carriageway.	10+	C2	2.712m radius. 23.1m ² area.
T5	Beech	<i>Fagus sylvatica</i>	6.3	1	251	2.0	3.0	4.1	2.2	1.98	SM	G	G	Minor damaged bark near base to west. Ivy growth to 1.2m, mainly in east. Some small crossing branches in canopy with signs of bark inclusion. Canopy substantially overhanging adjacent footway.	Remove Ivy growth from canopy. Consider thinning canopy to remove crossing branches. Consider pruning canopy to give greater clearance above footway and reduce proximity to carriageway.	10+	C2	3.012m radius. 2.85m ² area.



Rev	Note	Date
P1	Planning	07.12.2021



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Tree Constraints Plan

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Scale 1:200@A3

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