

Arboricultural Tree Survey[©]

Site: 16 Russett Glade, Emmer Green, Reading RG4 8UJ

Client: Mr Greg Muden Date: March 2021 Surveyor: Hugo Loudon



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3.0 INTRODUCTION

The owners of 16 Russet Glade have instructed us to compile a tree survey at the above site. The Arboriculturist, Hugo Loudon, visited the premises in March 2021 to assess trees on site in order to complete an Arboricultural Tree Survey to meet the British Standard 5837 (2012) 'Trees in Relation to Design, Demolition and Construction'. This document is accompanied by a Tree Constraints Plan (TCP), outlining the existing trees onsite, plotted with their Root Protection Areas (RPA) to identify possible constraints to future development on the site.

4.0 TREES AND THEIR CONSIDERATIONS

- Trees may possibly outlive construction so it is vital to ensure the proposed development is suitably integrated in harmony with existing trees;
- Any conflicting or adverse effects the structural development may impose upon each trees long term healthy existence;
- Healthy trees can be retained for visual screening, wind breaks, defining boundaries, complimenting buildings, future amenity value, and overall benefit to the sites character and enhancement;
- Retention of large, mature, veteran trees may suffer trauma or detrimental growth restrictions following developmental construction;
- Competition for solar gain and space for physical growth in more densely wooded sites;
- Certain healthy arboricultural specimens may be considered worthy of relocating within a design in an attempt to save and prolong life expectancy; the Arboriculturist can advise;
- Autumn leaves falling from deciduous species causing problems with guttering, or fruit making pathway surfaces slippery;
- The root area of each tree and its proximity to planned developmental foundations, boundaries, borders, roads and driveways, and future growth towards, or even into, drainage, services or water supplies;
- Impaction of soil, encroaching upon healthy root areas, by installation of permanent new surfacing on drives and pathways, e.g. paving slabs or tarmac areas;
- The canopy spread of each tree and limb movement throughout high winds; it's future growth potential, taking into consideration any light restriction through windows and glass panels; overhead cabling or lighting schemes and the ease of future pruning;
- The effect the development would have on each specimen's ability to gain light or create shade, depending on the individual species and it's ideal growing habitat;
- Ground level areas to be raised or lowered near to, or within, the protected zones;
- Existing relevant features like streams, trenches, boundary fencing and the location of adjacent trees that may have some impact upon the development;
- Construction activity, paying attention to site access and nearby trees en route;
- Phasing of works;
- Future planting schemes to be incorporated;
- Wildlife living in existing trees.

5.0 THE ARBORICULTURAL TREE SURVEY

TREE or GROUP or HEDGE	Species Common Name If tree offsite, record estimated measurements using '#'	DBH at 1.5m recorded in mm	Canopy HEIGHT in metres + FIRST BRANCH in metres from ground level with cardinal direction	Branch Spread N E S W metres	Age Y SM EM M LM OM Vet	SULE <10 10+ 20+ 40+	General Observations	Structural form Poor Fair Good Dead	Physiological form Poor Fair Good Dead	BS 5837 RC A B C U	BS 5837 RPA Radius in metres	Recommended works
T1	Lawson Cypress	420	H: 10m FB: 1m/W	N 2 E 2 S 3 W 4	M	40+	Historic sib-stem removal to north. Likely to become dominant and shade property in time.	Good	Good	C2	5.1m 81m ²	---
T2	Weeping Birch	270	H: 6m FB: 3m/E	N 6 E 4 S 5 W 6	M	20- 40	Nothing of note.	Good	Good	B2	3.3m 34m ²	---
T3	Yew	250	H: 4m FB: 0m/E	N 1.5 E 1.5 S 1.5 W 1.5	EM	40+	Maintained as a signature topiary tree.	Good	Good	B2	3.0m 28m ²	---
T4	Atlantic Cedar	150	H: 7m FB: 1m/S	N 2 E 2 S 2 W 2	SM	40+	Providing street scene function.	Good	Good	B2	1.8m 10m ²	---

T5 A + B	2x Lawson Cypress Aureum	A: 150x2 B: 150, 150, 120, 120	H: 8m FB: 0m/S	N 2 E 2 S 2 W 2	SM	10- 20	T5A co-dominant and T5B multi- stemmed. Consistent dead patches of foliage present. Possible Cupressus aphid.	Fair	Poor	C3	2.4m 18m ² 3.3m 34m ²	---
T6	Birch	250	H: 12m FB: 3m/S	N 0 E 1 S 6 W 4	EM	10+	Canopy bias to south. Some evidence of retrenchment.	Poor	Fair	C3	3.0m 28m ²	---
T7	Ash	330	H: 14m FB: 8m/S	N 3 E 3 S 7 W 3	M	10+	Canopy bias to south.	Good	Good	B2	3.9m 48m ²	Monitor for signs of Ash Dieback.
T8	Oak	380	H: 14m FB: 4m/N	N 6 E 3 S 3 W 5	EM	40+	Drawn form with competitive proximity to T7 and T9.	Good	Good	A1	4.5m 64m ²	---
T9	2x Ash A + B	A: 190 B: 200	H: 14m FB: 7m/N	N 1-3 E 1-3 S 1-3 W 1-3	EM	<10	Slender stems with leggy form. Ash Dieback apparent in some tips.	Fair	Fair	C2	2.4m 18m ²	Re-inspect in-leaf to confirm issues.
T10	Birch #	380	H: 15m FB: 5m/S	N 3 E 3 S 5 W 5	M	20- 40	Some basal swelling. Canopy bias to south.	Fair	Good	B2	4.5m 64m ²	---
T11	Birch #	250	H: 13m FB: 5m/S	N 4 E 4 S 4 W 4	EM	20- 40	No access to next-door.	Good	Good	B2	3.0m 28m ²	---
T12 A+B	2x Birch	200	H: 16m FB: 8m/S	N 1-3 E 1-3 S 1-3 W 1-3	EM	40+	Nothing of note.	Fair	Fair	B2	2.4m 18m ²	---

T13	Birch	245	H: 15m FB: 8m/S	N 3 E 2 S 5 W 5	M	20-40	Bifurcation at 8.0. Basal cambium lost with exposed scar to east. Some embrittlement and wound wood formation.	Poor	Fair	C2	3.0m 28m ²	---
T14	Ash	150	H: 15m FB: 7m/S	N 0 E 2 S 5 W 2	SM	<10	Acute decay in stem. Historical leader loss apparent to south. Tip dieback issues associated with Ash Dieback Disease.	Poor	Poor	C3	1.8m 10m ²	---
T15	Sycamore	210	H: 14m FB: 5m/S	N 3 E 3 S 5 W 4	EM	40+	Nothing of note.	Good	Good	B2	2.4m 18m ²	---



T1 Lawson Cypress to left



Road frontage to south. Right to left: T2, T3, T4, T5



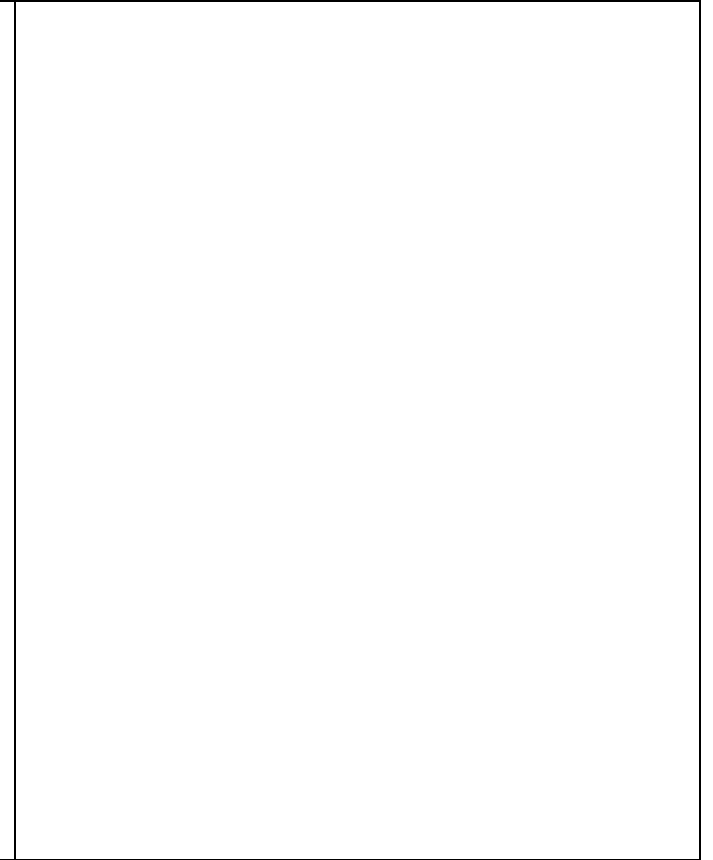
T6 in foreground with T7 and T8 behind. Note T8 being of high amenity value



T10 left and T11 far right



T12A+B, T13 and T14



6.0 ARBORICULTURAL SURVEY KEY

The survey, unless otherwise stipulated, is based on the qualified Arboriculturist making trained observations from ground level.

KEY to SURVEY	Explanation and Units
T or GR or H	Tree/Group numbers on enclosed plan – (T=tree; Gr=group; H=hedge)
Species	Defined in Latin and/or Common names. Estimated dimensions (e.g. for off-site or otherwise inaccessible trees where accurate data cannot be recovered) are suffixed with a # symbol.
DBH	The Diameter at Breast Height measures the girth of the stem in millimeters at 1.5metres above ground level in accordance with Forestry Commission specifications.
Height	Approximate height of tree canopy recorded in metres. Also first significant branch height and its cardinal direction.
Canopy Spread	Approximate Canopy Spread recorded in metres with cardinal growth direction given where appropriate; N, E, S, W.
Age	Y: Young tree less than fifteen years old and <1/3 fully grown. SM: Semi-mature tree having attained 1/3 to 2/3 full stature and 1/3 to ½ estimated lifespan. EM: Early mature tree at 2/3 to virtually full size, and halfway through its safe life. M: Mature fully-grown tree with safe useful life expectancy. LM: Late Mature fully grown tree, possibly declining in vigor yet many years of safe life expected. OM: Over-mature tree fully grown, possibly declining in vigor with possible historic or ecological value. Vet: Veteran usually very old and of significant historic, habitat or cultural value.
SULE	Remaining Safe Useful Life Expectancy recorded using the following statistics: <10 years, 10+, 20+ or 40+ years.
Observations	Root Condition: The visual assessment of the rooting area, taking into consideration any evidence or physical damage, soil compaction or heave, excavation work and/or drainage problems. Stem Condition: The visual assessment of the stem and main scaffold branches observing any visible faults and wounds, and other exterior signs which may suggest possibility of internal compromise. If decay is suspected, a sounding hammer will be used. Leaf & Bud: The visual assessment of the amount and condition of foliage cover, and/or bud development, when compared against the foliage of the surrounding trees of the same species.
Structural and Physiological Form	Poor / Fair / Good / Dead
BS5837 RC	Retention Category Category A = High quality or value and a life expectancy of 40+ years Category B = Moderate quality or value and a life expectancy of 20+ years. Category C = Low quality or value with a life expectancy of at least 10 year or a stem diameter below 150mm. Category U = Trees that are dead or dying, or infected with pathogens, or where loss is anticipated, or if suppressing adjacent trees of superior quality. Sub division: Category 1 = Aboriculturally significant, rare and good examples of specific species. Category 2 = Considered visually valuable to the landscape, either individually or in groups. Category 3 = Significant habitat conservation value with possible historical or commemorative importance.
BS5837 RPA	The Root Protection Area is measured in meters, and meters squared, specifically calculated to ascertain the placement of specialist protective fencing with an allowance of plus or minus 20% in any one direction.

Recommended Works	The Arboriculturist's recommendations for any tree surgery work and requirements for re-inspection or testing.
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Specific - Trees

All tree inspections, unless specified, have been undertaken from ground level and using non-invasive techniques. Comments contained within the report on the condition and risk associated with any tree relate to the condition of the tree at the date and time of survey. Please note that the condition of trees is subject to change. This change may occur, but is not limited to biological and non-biological factors as well as mechanical/ physical changes to conditions in the proximity of the tree. Trees should be inspected at intervals relative to identified site risks and in accordance with relevant HSE and Central Government guidance. Heritage Tree Services Ltd can provide further information on this matter if required.

Please note, no statutory control checks have been undertaken (unless specified). Where tree surgery works have been identified these works are based on the assumption that planning is approved. No tree works should be undertaken prior to determination of this application without up to date confirmation of the Tree Preservation Order / Conservation Area Status of the vegetation. All works should be undertaken in accordance with the appropriate Duty of Care. This should include, for example, site specific risk assessments and due diligence inspections for the presence of protected species.

Any comment relating to 3rd party trees has been made without full access to the tree(s). Should these trees have any impact on the proposed development we would advise you to instruct us to contact the 3rd party and undertake further inspection work.

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