

Arboricultural Survey to BS5837:2012

HSP Consulting Engineers Limited

Coleg Sir Gar,
Pibwrlwyd Lane,
Carmarthen,
Carmarthenshire,
SA31 2NH

12 March 2024

Thomas Ramm TechArborA



Table of Contents

If this report has been released electronically the appendices referred to herein can be found in the annexed zip folder/s as .pdf files. If this report has been released in hard copy the appendices will be bound into the back of this report. Plans are annexed separately as A0, A1, A2 or A3 as appropriate.

1.	. Introduction	2
	. Survey	
	BS5837:2012 Scope	
	. Methodology	
	. Definitions	
6.	. Recommendations	
7.	. Limitations	8
8.	. Appendices	g
	Appendix 1: Table 1 Cascade chart for tree quality assessment	10
	Appendix 2: Schedule of Trees	12
	Appendix 3: Tree Constraints Plan	30
9.	. Document Production Record	36



1. Introduction

Arbtech Consulting Limited (Arbtech) received written instruction on 13 February 2024 from HSP Consulting Engineers Limited to attend Coleg Sir Gar, Pibwrlwyd Lane, Carmarthen, Carmarthernshire, SA31 2NH; grid reference, SN 41129 18247 (site) to undertake an arboricultural survey to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of Trees, Tree Constraints Plan, Arboricultural Impact Assessment, Arboricultural Method Statement and Tree Protection Plan.

I am Thomas Ramm, an arboricultural surveyor at Arbtech Consulting Ltd. I undertook the tree survey on 8 March 2024 and subsequently have produced this summary of my findings.

I have 14No years of professional industry experience including an additional 4No years as an Arboricultural instructor & technician at Warwickshire College Group. I hold a LANTRA award in professional tree inspection as well as a Level 3 qualification with an extended Diploma in Arboriculture and Forestry and I am a member of the Arboricultural Association at the Technician grade.

The advice below and appended is underwritten by our Professional Indemnity insurance for the business practice of Arboricultural Consultancy in the sum of one million Pounds Sterling in each and every claim.

Table 1: Documents referred to.

Document	Reference No.
Survey base drawing	5363
LPA pre-app comments	N/A
British Standard 5837:2012	"BS5837"
Tree Survey Schedule	Arbtech TS 01
Tree Constraints Plan	Arbtech TCP 01

2. Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Thomas Ramm on 8 March 2024.

During the survey I categorised the trees using "Table 1 – Cascade chart for tree quality assessment" of the BS5837:2012 (see Appendix 1).

A total of 62No individual trees, 12No groups of trees and, 14No hedges were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2).



Multiple small trees and shrubs occupy the site, none of which meet the minimum diameter requirements to be considered for this survey.

Table 2: Documents upon which this tree survey has been based.

Document	Originator	Reference Number	Title
Survey Base Drawing	Mapmatic	5363	Topographical Survey

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and advanced decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser, and GPS devices. Where this was not possible, measurements are estimated.

Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (i.e. not in relation to the proposed development).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

Site description

The site is situated on existing college grounds. Agricultural land is situated to the north and east of the site. The A484 is located to the west and south with the River Towy to the west. There are various topography level changes throughout the site with an incline to the northwest.

^{*} For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (Appendix 1), Tree Survey Report and Tree Constraints Plan.





Figure 1: OS Map showing site location (Bing Maps)



Figure 2: Aerial Image of site with approximate red line boundary denoting area surveyed (Google Earth)



This content is for educational and informative purposes; parts of it are reproduced with the kind permission of BSI Global.

3. BS5837:2012 Scope

This standard recognises that there can be problems for development close to existing trees which are to be retained, and of planting trees close to existing structures. This standard sets out to assist those concerned with trees, in relation to construction, to form balanced judgements. It does not set out to put arguments for or against development, or for the removal or retention of trees. Where development, including demolition, is to occur, the standard provides guidance on how to decide which trees are appropriate for retention, on the means of protecting these trees during development, including demolition and construction work, and on the means of incorporating trees into the developed landscape.

4. Methodology

The methodology used to assess the trees was the British Standard 5837:2012 'Trees in Relation to Construction' tree survey method. The aim of the survey is to establish which trees are moderate and good quality; suitable for retention and justifying protection. And which trees are low or poor quality; either undesirable or unsuitable to retain and protect.

The tree survey includes all trees included in the land survey red line boundary plan, as well as any that may have been missed, and it should categorize trees or groups of trees, including woodlands for their quality and value within the existing context, in a transparent, understandable, and systematic way. Where the arboriculturist has deemed it appropriate, the trees have been tagged with small metal or plastic tags, placed as high as is convenient on the stem of each tree.

Whilst master plan proposals for the development of the site might be available, the trees have been surveyed without taking these into consideration. All detailed design work on site layout should take into consideration the results of the tree survey (and the TCP).

Trees forming groups and areas of woodland (including orchards, wood pasture and historic parkland) are identified and considered as groups where the arboriculturist has determined that this is appropriate, particularly where they contain a variety of species and age classes that could aid long-term management. It is often expedient to assess the quality and value of such groups of trees as a whole, rather than as individuals. However, an assessment of individuals within any group has been undertaken if they are open-grown or if there is a need to differentiate between them.

The quality and value of each tree or group of trees has been recorded by allocating it to one of the four categories: A, B, C, or U (highest to lowest quality respectively). The categories are differentiated on the tree survey plan by colour, or by suffixing the category adjacent to the tree identification number on the TCP.



The survey schedule lists all the trees or groups of trees. The following information is also provided:

- a) reference number (to be recorded on the tree survey plan);
- b) species (common or scientific names);
- c) height in meters (m);
- d) stem diameter in millimetres (mm) at 1.5m above adjacent ground level or immediately above the root flare for multi-stemmed trees;
- e) branch spread in meters taken at the four cardinal compass points;
- f) height of crown clearance above adjacent ground level in meters (m);
- g) age class (newly planted, young, semi-mature, early mature, mature, over mature);
- h) physiological condition (e.g. good, fair, poor, decline and dead);
- i) structural condition (e.g. good, fair, poor or not visible);
- j) comment about the tree, its location and preliminary management recommendations, including further investigation of suspected defects that require more detailed assessment and potential for wildlife habitat;
- k) The retention category referring to the quality and useful contribution in years; **U** = <10yrs; **A** = >40yrs; **B** = >20yrs; **C** = >10yrs. The retention subcategory referring to the type of amenity; 1 = Arboricultural; 2 = Landscape; 3 = Cultural including conservation (see Appendix 1 Cascade chart for tree quality assessment).



5. Definitions

Arboriculturist

An arboriculturist (or arboricultural consultant) is a person who has, through relevant education, training, and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.

Tree Survey

A tree survey should be undertaken by an arboriculturist and should record information about the trees on a site independently of and prior to any specific design for development. As a subsequent task, and with reference to a design or potential design, the results of the survey should be included in the preparation of a tree constraints plan, which should be used to assist with site layout design.

Tree Constraints Plan

A TCP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist for the purposes of layout design showing the root protection area and representing the effect that the mature height and spread of retained trees will have on layouts through shade, dominance, etc.

Root Protection Area

An RPA is a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree, shown in plan form in m².

Construction Exclusion Zone (also termed Tree Protection Zone)

A construction exclusion or tree protection zone is an area based on the RPA (in m²), identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

Arboricultural Impact Assessment (AIA)

This is a study, undertaken by an arboriculturist, to identify, evaluate and possibly mitigate the extent of direct and indirect impacts on existing trees that may arise as a result of the implementation of any site layout proposal.

Tree Protection Plan (TPP)

A TPP is plan, typically delivered as an AutoCAD drawing (.DWG file format), prepared by an arboriculturist showing the finalized layout proposals, tree retention and tree and landscape protection measures detailed within the arboricultural method statement, which can be shown graphically.

Arboricultural Method Statement (AMS)

This is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. The AMS is likely to include details of an onsite tree protection monitoring regime.



6. Recommendations

I have not seen the proposed scheme, therefore, we make the following recommendation to ensure that there are no irrevocable issues to the proposed retained trees and so that no conditions relating to arboriculture are attached to any planning consent secured; obtain an arboricultural report to include:

- a) An arboricultural impact assessment (AIA).
- b) An arboricultural method statement (AMS).
- c) A tree protection plan drawing (TPP).

7. Limitations

Trees were inspected from using visual observation from ground level only. Trees were not climbed or inspected below ground level. Inaccessible trees will have best estimates made about the location, physical dimensions, and characteristics. Trees have been grouped where BS5837 guides us that it is expedient to do so. Trees have been excluded from the survey if they are found by us to be sufficiently far away from the proposed developable area or if they are outside of the red line boundary plan showing the expectations of our client for the extent of the survey. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.



8. Appendices

The following documents were released to the Client as appendices to this report:

- Survey Schedule (.PDF)
- Tree Constraints Plan drawing (.DWG & .PDF)

If you require clarification of information contained herein, please do not hesitate to contact us via 01244 661170.

Yours Sincerely,



Thomas Ramm TechArborA Arboricultural Surveyor

07512317883 thomasramm@arbtech.co.uk



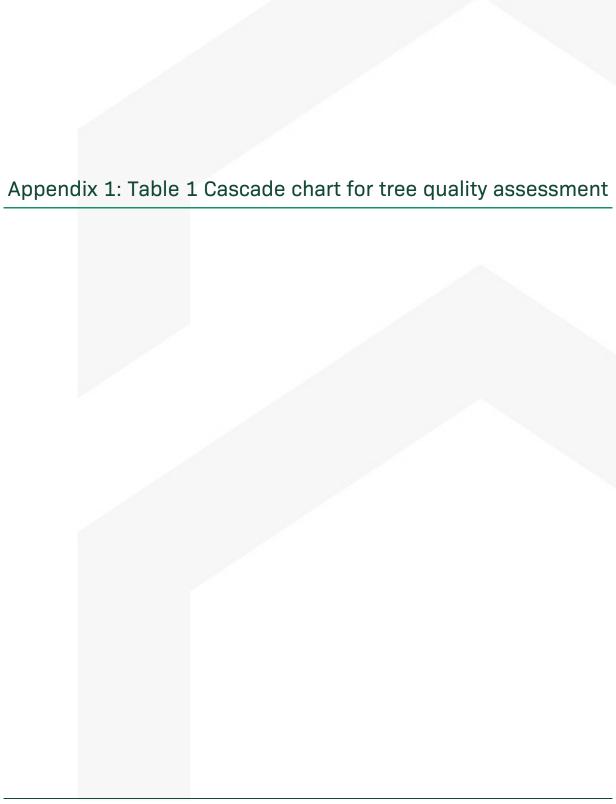




Table 1	Cascade chart for tree quality assessment			
Category and definition	Criteria (including subcategories when appro	ppriate		Identification o plan
Trees unsuitable for retention (se	ee Note)			
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.	become unviable after removal of other category pruning). •Trees that are dead or are showing signs of strees infected with pathogens of significant adjacent trees of better quality.	etural defect, such that their early loss is expecte ory U trees (e.g. where, for whatever reason, the loss significant, immediate, and irreversible overall decee to the health and/or safety of other trees nearby otential conservation value which might be desiral	es of companion shelter cannot be mitigated cline. 7, or very low quality trees suppressing	Dark red
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retent	ion			
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 dominate and/or principal trees within an avenue).	Trees, groups, or woodlands of 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 woodpasture).	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 remedial defects, including unsympathetic management and storm damage), such that they are unlikely to be suitable for retention of beyond 40 years; or trees lacking the special quality necessary to merit the category 'A' designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than 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 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 in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape value.	Trees with no material conservation or other cultural value.	Grey

This content is for educational and informative purpose and has been reproduced with the kind permission of BSI Global



Appendix 2: Schedule of Trees

BS5837:2012 Tree Survey

Client: HSP Consulting Engineers Limied

Project: Coleg Sir Gar, Pibwrlwyd Lane, Carmarthenshire, SA312NH

Survey Date: 08/03/2024 Surveyor: Thomas Ramm

Arbtech Consulting Limited

Unit 3, Well House Barns

Chester Road

Chester Cheshire CH4 0DH

Phone: 01244661170

Tree and Tag No				Stems	; (Crown			RP	Di	Ct	Preliminary Recommendations	C-1
Species		Hght (m)	No)	Ø Spreamm) (m)		Clear (m)	Age	A (m²) R (m)	Phys Condition	Structural Condition	Survey Comment	Cat ERC
G01													
Various		14	1	410	O N	6	2	SM	A: 76.1	Good	C: Good		B.1.2
See comments for details					Е	6	2		R: 4.92		S: Good	Group is situated off site to the south; Group is comprised of	20+ yrs
					S	6	2				B: Good	circa 74+ stems with species to include cherry, scots pine,	,
					W	6	2					field maple, sycamore, hornbeam and hawthorn; Dimensions recorded represent maximum for group.	
G02													
A Group		12	1	300) N	3	0.5	SM	A: 40.7	Fair	C: Fair		C.1.2
See comments for details					Е	3	0.5		R: 3.59		S: Fair	Group is situated to the southern boundary line; Group is	10+ yrs
					S	3	0.5				B: Good	comprised of circa 20+ stems of Lawson's cypress; Sparse	,
					W	3	0.5					foliage density throughout top of crown with browning to	
												southern aspect at 8 m; Historically pruned to remove lower southern extent where wounds have not yet occluded;	
												Naturally occurring deadwood typical for species.	
G03													
A Group		12	1	470) N	4	2	SM	A: 99.9	Good	C: Good		B.1.2
See comments for details					Е	4	2		R: 5.63		S: Good	Group is situated south of building; Group is comprised of 6No	20+ yrs
					S	4	2				B: Good	stems of Lawson's cypress; Dimensions recorded represent	•
					W	4	2					maximum for group; Naturally occurring deadwood typical for species.	
G04													
Various		5	1	100	N C	3	0.5	SM	A: 4.5	Good	C: Good		C.1.2
See comments for details					Е	3	0.5		R: 1.19		S: Good	Group is situated north of building; Group is comprised of.circa	10+ yrs
					S	3	0.5				B: Good	25+ stems with species to include contoneaster and scrub.	•
					W	3	0.5						
Age Classifications:	N	Newly plant	ted	EM	Early Mature		C	ondit	ion: C	Crown		Stems: Ø Diameter	
	Υ	Young			Mature				S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 defir	nition
	SM	Semi-matur	re	OM	Over Mature				В	Basal area	а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	S	Stems		own			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Spread (m)		lear m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
G05													
A Group		13	1	480	N	3	0.5	SM	A: 104.2	Good	C: Good		B.1.2
See comments for details					Е	3	0.5		R: 5.75		S: Good	Group is situated to the west of building; Group is comprised	20+ yrs
					S	3	0.5				B: Good	of circa 10+ stems of Lawson's cypress; Dimensions recorded	
					W	3	0.5					represent maximum for group.	
G06												Estimated Mea	asurements
Various		15	1	420	N	5	0.5	SM	A: 79.8	Good	C: Good		B.1.2
See comments for details					Е	5	0.5		R: 5.03		S: Good	Group is situated to northern and eastern boundary line:	20+ yrs
					S	5	0.5				B: Good	Group is comprised of circa 30+ stems with species to include	,
					W	5	0.5					leylandii, willow, scots pine, poplar, alder and hawthorn;	
												Dimensions recorded represent maximum for group; The tree population within the group are of good vigor.	
G07													
Various		8	1	350	N	4	0.5	SM	A: 55.4	Good	C: Good		B.1.2
See comments for details					Е	4	0.5		R: 4.19		S: Good	Group is situated to the eastern boundary line; A drainage	20+ yrs
					S	4	0.5				B: Good	ditch runs to the western extent of group and is 1 m in depth	·
					W	4	0.5					x 1 m wide; Group is comprised of circa 10+ stems with	
												species to include oak, hawthorn and sycamore; Dimensions recorded represent maximum for group.	
G08												Estimated Mea	asurements
Various		12	1	500	N	6	0.5	SM	A: 113.1	Good	C: Good		B.1.2
See comments for details					Е	6	0.5		R: 6		S: Good	Group is situated to the south of main car park; Group is	20+ yrs
					S	6	0.5				B: Good	comprised of circa 25+ stems with species to include leylandii,	, -
					W	6	0.5					alder, sycamore and ash; Dimensions recorded represent	
												maximum for group.	
G09												Estimated Mea	
Various		12	1	500	N	5	1	SM	A: 113.1	Good	C: Good		B.1.2
See comments for details					E	5	1		R: 6		S: Good	Group is situated to the boundary lines of college grounds;	20+ yrs
					S	5	1				B: Good	Group is comprised of circa 35+ stems with species to include	
					W	5	1					oak, sycamore, ash, leylandii and beech; Tree tree population	
												within the group are of good vigor; Dimensions recorded represent maximum for group.	
Age Classifications:	N	Newly plante	ed	EM Early	/ Mature		С	onditi	ion: C	Crown		Stems: Ø Diameter	
•		Young		M Matu					S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 defi	inition
	SM	Semi-mature	2	OM Over	Mature				В	Basal area	2	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	S	tems		own			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Spread (m)		Clear (m)	Age	A (m²) R (m)	Condition		Survey Comment	ERC
G10												Estimated Me	asurements
Various		13	1	600	N	6	1	EM	A: 162.9	Good	C: Good		B.1.2
See comments for details					Е	6	1		R: 7.2		S: Good	Group is situated to the east of site; Group is comprised of	40+ yrs
					S W	6	1				B: Good	circa 30+ stems with species to include oak, ash, sycamore and scrub; Dimensions recorded represent maximum for group; Overall the tree population within the group are of good vigor.	,,,
G11													
Viburnum		3	1	80	N	1	0.5	SM	A: 2.9	Good	C: Good		C.2
Viburnum Viburnum					Е	1	0.5		R: 0.96		S: Good	Group is situated north of over extended car park; Group is	10+ yrs
					S W	1 1	0.5 0.5				B: Good	comprised of circa 10+ stems of viburnum; Group is regularly maintained on top and sides to current dimensions.	,
G12												Estimated Me	asurements
Various		12	1	240	N	5	1	EM	A: 26.1	Good	C: Good		B.1.2
See comments for details					Е	5	1		R: 2.28		S: Not visible	Off site group situated to adjacent property; Unable to gain a	20+ yrs
					S W	5 5	1				B: Not visible	detailed inspection of base and stem due to restricted access; Group is comprised of circa 10+ stems with species to include leylandii and sycamore; Dimensions recorded represent an estimate for group.	
H01												Estimated Me	asurements
Lawson Cypress		5	1	200	N	1	0.5	SM	A: 18.1	Good	C: Good		C.2
Chamaecyparis lawsoniana			-		E	1	0.5	. .	R: 2.4	0000	S: Good		10+ yrs
,,					S	1	0.5				B: Good	Hedge is situated off site to adjacent property; Hedge is comprised of circa 20+ stems of Lawson's cypress; Hedge is	101 yis
					W	1	0.5					regularly maintained on top and sides to current dimensions.	
H02													
Various		2	1	85	N	1	0.5	SM	A: 3.3	Fair	C: Fair		C.2
See comments for details					E	1	0.5		R: 1.02		S: Good	Hedge is comprised of circa 10No stems with species to	10+ yrs
					S	1	0.5				B: Good	include hawthorn, holly and contoneaster; Sparse foliage	
					W	1	0.5					density throughout crown.	
Age Classifications:	N Y	Newly plante	ed	EM Early M Matu	/ Mature		C	ondit	ion: C	Crown Stem		Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 def	finition
		Semi-mature	е	OM Over					В		a	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght		Stem	_	Crov			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No		Ø Spre mm) (m		Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
H03													
Various		2	1	80	O N	1	0.5	SM	A: 2.9	Good	C: Good		C.2
See comments for details					Е	1	0.5		R: 0.96		S: Good	Fragmented hedge-line situated to the west and northern	10+ yrs
					S	1	0.5				B: Good	boundary line; Hedge is comprised of circa 60+ stems with	20 . ,
					W	1	0.5					species to include cherry laurel and holly; Hedge is regularly maintained on top and sides to current dimensions.	
H04												Estimated Meas	surements
A Hedge		3	1	8!	5 N	1	0.5	SM	A: 3.3	Good	C: Good		C.2
See comments for details					Е	1	0.5		R: 1.02		S: Good	Off site linear hedge-line belonging to adjacent agricultural	10+ yrs
					S	1	0.5				B: Good	land; Hedge is comprised of circa 300+ stems of hawthorn;	10. 7.5
					W	1	0.5					Hedge is regularly maintained on top and sides to current dimensions.	
H05													
A Hedge		2	1	80	O N	1	0.5	SM	A: 2.9	Fair	C: Good		C.2
See comments for details					Е	1	0.5		R: 0.96		S: Good	Fragmented hedge-line comprised of circa 50+ stems with	10+ yrs
					S	1	0.5				B: Good	species to include beech, hawthorn and holly; Sparse foliage	10 . ,
					W	1	0.5					density throughout hedge; Hedge is regularly maintained on top and sides to current dimensions.	
H06													
A Hedge		2	1	80	O N	1	0.5	SM	A: 2.9	Good	C: Good		C.2
See comments for details					Е	1	0.5		R: 0.96		S: Good	Linear hedge-line situated to south of main building; Hedge is	10+ yrs
					S	1	0.5				B: Good	comprised of circa 10+ stems of cherry laurel; Hedge is	
					W	1	0.5					regularly maintained on top and sides to current dimensions.	
H07													
A Hedge		2	1	80	O N	1	0.5	SM	A: 2.9	Good	C: Good		C.2
See comments for details					Е	1	0.5		R: 0.96		S: Good	Linear hedge-line situated to south of main building; Hedge is	10+ yrs
					S	1	0.5				B: Good	comprised of circa 10+ stems of cherry laurel; Hedge is	, -
					W	1	0.5					regularly maintained on top and sides to current dimensions.	
H08													
A Hedge		2	1	80	O N	1	0.5	SM	A: 2.9	Good	C: Good		C.2
See comments for details					Е	1	0.5		R: 0.96		S: Good	Hedge is situated to the south of property; Hedge is comprised	10+ yrs
					S	1	0.5				B: Good	of circa 20+ stems of beech; Hedge is regularly maintained on	,
					W	1	0.5					top and sides to current dimensions.	
Age Classifications:	N	Newly plant	ted	EM	Early Mature)		Condi	tion: C	Crown		Stems: Ø Diameter	
	Υ	Young		M	Mature				S			(Eq) Equivalent stem diameter using BS5837:2012 definition	ition
	SM	Semi-matur	re	OM	Over Mature				В	Basal are	а	ERC: Estimated Remaining Contributio	

H10 H10 Various See comments for details H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various See comments for details	2 3 2	1 1	90 90	N E S W	_	0.5 0.5 0.5 0.5 0.5 0.5	SM SM	A: 2.9 R: 0.96 A: 3.7 R: 1.08	Phys Condition Good	C: Good S: Good C: Good S: Good S: Good	Preliminary Recommendations Survey Comment Hedge is situated to the south of property; Hedge is comprised of circa 20+ stems of beech; Hedge is regularly maintained on top and sides to current dimensions.	C.2 10+ yrs
A Hedge See comments for details H10 Various See comments for details H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	3	1	90	E S W N E S W	1 1 1 1 1 1	0.5 0.5 0.5 0.5 0.5		R: 0.96 A: 3.7		S: Good B: Good	of circa 20+ stems of beech; Hedge is regularly maintained on	10+ yrs
H10 Various See comments for details H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	3	1	90	E S W N E S W	1 1 1 1 1 1	0.5 0.5 0.5 0.5 0.5		R: 0.96 A: 3.7		S: Good B: Good	of circa 20+ stems of beech; Hedge is regularly maintained on	10+ yrs C.2
H10 Various See comments for details H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	_			S W N E S W	1 1 1 1 1	0.5 0.5 0.5 0.5 0.5	SM	A: 3.7	Good	B: Good C: Good	of circa 20+ stems of beech; Hedge is regularly maintained on	C.2
Various See comments for details H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	_			N E S W	1 1 1 1	0.5 0.5 0.5 0.5	SM		Good	C: Good	of circa 20+ stems of beech; Hedge is regularly maintained on	C.2
Various See comments for details H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	_			N E S W	1 1 1	0.5 0.5 0.5	SM		Good			
Various See comments for details H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	_			E S W	1 1	0.5 0.5	SM		Good			
H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	_			E S W	1 1	0.5 0.5	SM		Good			
H11 A Hedge See comments for details H12 A Hedge See comments for details H13 Various	2	1	90	S W	1	0.5		R: 1.08		S: Good		10± vrc
A Hedge See comments for details H12 A Hedge See comments for details H13 Various	2	1	90	W						J. 0000	Linear hedge-line comprised of circa 300+ stems of beech and	TO 1 A12
A Hedge See comments for details H12 A Hedge See comments for details H13 Various	2	1	90		1	0.5				B: Good	hawthorn; Hedge is regularly maintained on top and sides to	
A Hedge See comments for details H12 A Hedge See comments for details H13 Various	2	1	90	N							current dimensions.	
H12 A Hedge See comments for details H13 Various	2	1	90	N								
H12 A Hedge See comments for details H13 Various					1	0.5	SM	A: 3.7	Good	C: Good		C.2
A Hedge See comments for details H13 Various				Е	1	0.5		R: 1.08		S: Good	Fragmented hedge-line situated to the south of site; Hedge is	10+ yrs
A Hedge See comments for details H13 Various				S	1	0.5				B: Good	comprised of circa 400+ stems with species to include beech,	, ,
A Hedge See comments for details H13 Various				W	1	0.5					hawthorn and hazel; Hedge is regularly maintained on top and sides to current dimensions.	
See comments for details H13 Various												
H13 Various	2	1	90	N	1	0.5	SM	A: 3.7	Good	C: Good		C.2
Various				Е	1	0.5		R: 1.08		S: Good	Francisco de la descripción de	10+ yrs
Various				S	1	0.5				B: Good	Fragmented hedge-line situated to the west of site; Hedge is comprised of circa 400+ stems with species to include beech,	101 913
Various				W	1	0.5					hawthorn and hazel; Hedge is regularly maintained on top and sides to current dimensions.	
See comments for details	1	1	75	N	1	0.5	SM	A: 2.5	Fair	C: Good		C.2
				Е	1	0.5		R: 0.89		S: Good	Linear hedge-line situated north of animal care workshop;	10+ yrs
				S	1	0.5				B: Good	Hedge is comprised of circa 50+ stems with species to	•
				W	1	0.5					include hawthorn, cherry laurel and scrub; Sparse foliage throughout hedge-line.	
Age Classifications: N		od r	M Early	Mature			ondit	ion: C	Crown		Stems: Ø Diameter	
_	Nowly plant		EM Early M Matu			·	onalt	ion: C			(Eq) Equivalent stem diameter using BS5837:2012 def	inition
SM S	Newly plant			Mature				В			(Ly) Lyuivaicht stein diameter using 00007.2012 dei	ii iiuOi i

Tree and Tag No		Hght		Stems	_		own		1	RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	,	ø nm)	Spread (m)		Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
H14														
A Hedge		1	1	80)	N	1	0.5	SM	A: 2.9	Good	C: Good		C.2
See comments for details						Е	1	0.5		R: 0.96		S: Good	Fragmented linear hedge-line situated north of Automotive	10+ yrs
						S	1	0.5				B: Good	workshop; Hedge is comprised of circa 15+ stems of beech;	,
						W	1	0.5					Hedge is regularly maintained on top and sides to current dimensions.	
T01														
Sycamore		9	1	38	0	N	3	2	SM	A: 65.3	Good	C: Good		B.1.2
Acer pseudoplatanus						Е	4	2		R: 4.55		S: Good	Tree is situated within group; Main stem leans to the north	20+ yrs
						S	3	2				B: Good	from base; Naturally occurring deadwood typical for species.	,
						W	5	2						
T02														
Cherry		8	1	28	0	N	2	2	SM	A: 35.5	Good	C: Fair		C.1.2
Prunus sp.						E	3	2		R: 3.36		S: Ivy	Tree is situated within group; Unable to gain a detailed	10+ yrs
						S	2	2				B: Good	inspection of main stem due to ivy; Naturally occurring	20 . 7.0
						W	3	2					deadwood typical for species.	
T03														
Sycamore		9	1	38	0	N	3	2	SM	A: 65.3	Good	C: Good		B.1.2
Acer pseudoplatanus						E	4	2		R: 4.55		S: Good	Tree is situated within group; Main stem leans to the north	20+ yrs
						S	3	2				B: Good	from base; Naturally occurring deadwood typical for species.	, -
						W	5	2					, , , , , , , , , , , , , , , , , , , ,	
T04														
Cherry		6	1	24	0	N	1	2	SM	A: 26.1	Good	C: Fair		C.1.2
Prunus sp.						E	1	2		R: 2.88		S: Fair	Tree is situated within group; Unable to gain a detailed	10+ yrs
						S	2	2				B: Good	inspection of main stem due to ivy; Main stem leans heavily to	
						W	3	2					the south west from base through wooden panel fencing; Naturally occurring deadwood typical for species.	
T05													Estimated Mea	curomont
		11	2	36) (Ea\	N	2		CM	A. EO 2	E=:-	Cr Cost	Estillated Med	
Common Hornbeam		11	3	36.	2 (Eq)	N E	2 4	1	SM	A: 59.2 R: 4.34	Fair	C: Good S: Fair		C.1.2
Carpinus betulus						S	4 5	1		K: 4.34		S: Fair B: Good	Tree is situated within group; Subsidiary stems from base	10+ yrs
						W	5	1				B. G000	comprised of 3No stems; Historically pruned to lateral extent to the west; Naturally occurring deadwood typical for species.	
Age Classifications:	N 1	Newly plante	h	EM	Early M	1ature		_	ondit	ion: C	Crown		Stems: Ø Diameter	
		Young	,,	M	Mature	iaturo			Jiiuit	1011. C			(Eq) Equivalent stem diameter using BS5837:2012 defin	nition
		Semi-mature	9		Over M	lature				В		а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	S	Stems		Cro	wn			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	(mı		read m)	Cle (m	-	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
T06														
Lawson Cypress		4	1	180	N		1	0.5	SM	A: 14.7	Good	C: Good		C.1.2
Chamaecyparis lawsoniana					Е		1	0.5		R: 2.16		S: Good	Tree is situated on raised bedded area to southern boundary	10+ yrs
					S		1	0.5				B: Good	line; Naturally occurring deadwood typical for species.	
					W		1	0.5					, , , , , , , , , , , , , , , , , , , ,	
T07														
Lawson Cypress		4	1	180	N		1	0.5	SM	A: 14.7	Good	C: Good		C.1.2
Chamaecyparis lawsoniana					Е		1	0.5		R: 2.16		S: Good	Tree is situated on raised bedded area to southern boundary	10+ yrs
					S		1	0.5				B: Good	line; Naturally occurring deadwood typical for species.	,
					W		1	0.5					,,	
T08													Estimated Mea	surement
Willow		6	1	200	N		4	1	SM	A: 18.1	Decline	C: Poor		U
Salix sp.					Е		4	1		R: 2.4		S: Not visible	Tree is situated to the southern boundary line; Unable to gain	<10 yrs
					S		4	1				B: Not visible	a detailed inspection of base and stem due to scrub restricting	110 ,10
					W		4	1					access; Tree is is decline with approximately 5% of live crown remaining.	
T09														
Goat Willow		10	1	430	N		4	3	SM	A: 83.7	Good	C: Good		B.1.2
Salix caprea					Е		4	3		R: 5.16		S: Good	Trop is situated to the west of main driver Historically	20+ yrs
					S		4	3				B: Good	Tree is situated to the west of main drive; Historically pollarded with profuse regeneration; Naturally occurring	201 yi3
					W		4	3					deadwood typical for species.	
T10														
Field Maple		4	5	263	(Eq) N		2	1	SM	A: 31.3	Good	C: Good		C.1
Acer campestre					Е		2	1		R: 3.15		S: Fair	Tree is situated south of building; Subsidiary stems from base	10+ yrs
					S		2	1				B: Good	comprised of 5No stems; Ivy from base to 3 m; Naturally	20 . ,.0
					W		2	1					occurring deadwood typical for species; Overall the tree is of good vigor.	
Age Classifications:	N	Newly plante	ed	EM E	Early Matu	ıre		Co	onditi	on: C	Crown		Stems: Ø Diameter	
	Υ	Young		M N	/lature					S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 defin	nition
	SM	Semi-matur	е	OM C	Over Matu	re				В	Basal are	а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Umba	:	Stems		Crown			RP	Dhya	Structural	Preliminary Recommendations	Cat
Species		Hght (m)	No	Ø (mr			Clear (m)	Age	A (m²) R (m)	Phys Condition		Survey Comment	ERC
T11					·								
Turkey Oak		12	1	580	N	6	3	EM	A: 152.2	Good	C: Good		B.1.2
Quercus cerris					Е	6	3		R: 6.96		S: Good	Tree is situated to the east of art block: Main stem bifurcates	40+ yrs
					S	5	3				B: Good	to codominant stem at 3 m; Historically pruned to main stem	,,,,
					W	3	3					on southern aspect where wounded have not yet occluded; Asymmetrical crown due to suppression from adjacent companion tree; Naturally occurring deadwood typical for species.	
T12													
Turkey Oak		11	1	350	N	0	4	SM	A: 55.4	Poor	C: Poor		C.1.2
Quercus cerris					Е	2	4		R: 4.19		S: Good	Tree is situated to the east of art block: Main stem bifurcates	10+ yrs
					S	4	4				B: Good	to codominant stem at 3 m; Asymmetrical crown due to	,
					W	1	4					suppression from adjacent companion tree; Poor physiological condition due to low foliage density throughout crown; Naturally occurring deadwood typical for species.	
T13													
Cherry		5	1	310	N	3	2	EM	A: 43.5	Poor	C: Fair		C.1.2
Prunus sp.					Е	3	2		R: 3.72		S: Good	Tree is situated to the east of Art Block; Historically pruned to	<10 yrs
					S W	3	2				B: Not visible	height and lateral extent on all aspects; Crown has sparse foliage density throughout crown with atypical volume of deadwood for species.	
T14													
Manna Ash		6	4	444	(Eq) N	4	3	EM	A: 89.1	Fair	C: Good		C.1.2
Fraxinus ornus					Е	4	3		R: 5.32		S: Ivy	Tree is situated east of smoking area; Unable to gain a	10+ yrs
					S	3	3				B: Good	detailed inspection of main stem due to ivy; Crown breaks at 2	
					W	4	3					m to 4No stems; Sparse foliage density throughout crown.	
T15													
Manna Ash		6	3	361	(Eq) N	4	2	EM	A: 58.8	Fair	C: Good		C.1.2
Fraxinus ornus					Е	4	2		R: 4.32		S: Good	Tree is situated south of smoking area; Unable.to gain a	10+ yrs
					S	3	2				B: Good	detailed inspection of main stem due to ivy; Crown breaks at	
					W	4	2					0.5 m m to 3No stems; Sparse foliage density throughout crown.	
Age Classifications:	N N	lewly plant	ed	EM E	Early Mature		(ondit	ion: C	Crown		Stems: Ø Diameter	
		oung′			/lature				S			(Eq) Equivalent stem diameter using BS5837:2012 defi	inition
	SM S	Semi-matur	е	OM C	Over Mature				В	Basal area	а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght		Stems			own			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	,	Ø nm)	Spread (m)		lear (m)	Age	A (m²) R (m)	Condition		Survey Comment	ERC
T16														
Manna Ash		6	2	291	1 (Eq)	N	3	2	EM	A: 38.2	Fair	C: Good		C.1.2
Fraxinus ornus						Е	4	2		R: 3.48		S: Good	Tree is situated south of smoking area; Unable.to gain a	10+ yrs
						S	3	2				B: Good	detailed inspection of main stem due to ivy; Crown breaks at	,
						W	4	2					0.5 m m to 2No stems; Sparse foliage density throughout crown.	
T17													Estimated Mea	surement
Cherry Laurel		4	3	289	9 (Eq)	N	3	0.5	SM	A: 37.9	Good	C: Good		C.1.2
Prunus laurocerasus						Е	3	0.5		R: 3.47		S: Good	Cityated east of buildings Cubaidings stome from	10+ yrs
						S	3	0.5				B: Good	Situated east of building; Subsidiary stems from base.comprised of 3No stems; Naturally occurring deadwood	101 713
						W	3	0.5					typical for species.	
T18														
Cherry		7	1	400	0	N	4	2	EM	A: 72.4	Good	C: Good		B.1
Prunus sp.						Е	4	2		R: 4.8		S: Ivy	Tree is situated west of building; Unable to gain a detailed	20+ yrs
						S	4	2				B: Good	inspection of main stem due to ivy; Naturally occurring	_0 , , , ,
						W	3	2					deadwood typical for species.	
T19														
Sycamore		10	1	620	0	N	4	3	EM	A: 173.9	Good	C: Good		B.1.2
Acer pseudoplatanus						Е	6	3		R: 7.44		S: Good	Crown breaks to 4No stems at 2.2 m; Naturally occurring	20+ yrs
						S	6	3				B: Good	deadwood typical for species.	, ,
						W	6	3						
T20														
Silver Birch		8	1	320	0	N	3	4	SM	A: 46.3	Good	C: Good		B.1.2
Betula pendula						E	3	4		R: 3.83		S: Ivy	Tree is situated within group; Unable to gain a	20+ yrs
						S	4	4				B: Good	detailed.inspection of main stem due to ivy from ground level	
						W	5	4					to 5 m into crown; Main stem bifurcates to codominant stem at 2.5 m; Naturally occurring deadwood typical for species.	
T21														
Silver Birch		8	1	370	0	N	3	4	SM	A: 61.9	Good	C: Good		B.1.2
Betula pendula						Е	2	4		R: 4.43		S: Good	Tree is situated to the east of group; Naturally occurring	20+ yrs
						S	4	4				B: Good	deadwood typical for species.	, , ,
						W	5	4						
Age Classifications:	N	Newly plante	ed	EM	Early N	//ature		C	ondit	ion: C	Crown		Stems: Ø Diameter	
•	Υ	Young			Mature					S			(Eq) Equivalent stem diameter using BS5837:2012 defi	nition
	SM	Semi-matur	е	ОМ	Over M	/lature				В	Basal are	а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	S	tems		own		RP		Structural	Preliminary Recommendations	Cat
Species		(m)	No	(mm)	Spread (m)	Clear (m)	A	je A (m R (m	Canditia		Survey Comment	ERC
T22												
Silver Birch		9	1	380	N	3	4 SI	1 A: 65.	3 Good	C: Good		B.1.2
Betula pendula					Е	2	4	R: 4.5	5	S: Good	Tree is situated to the east of group; Naturally occurring	20+ yrs
					S	4	4			B: Good	deadwood typical for species.	
					W	5	4				<i>"</i>	
T23												
Sycamore		11	1	540	N	4	3 E	1 A: 131	9 Good	C: Good		B.1.2
Acer pseudoplatanus					Е	6	3	R: 6.4	7	S: Good	Tree is situated to the west of building; Naturally occurring	20+ yrs
					S	7	3			B: Good	deadwood typical for species.	, -
					W	6	3					
T24												
Silver Birch		9	1	300	N	3	3 SI	1 A: 40.	7 Good	C: Good		B.1.2
Betula pendula					Е	3	3	R: 3.5	9	S: Good	Tree is situated to the west of building; Naturally occurring	20+ yrs
					S	3	3			B: Good	deadwood typical for species.	, -
					W	3	3					
T25												
Sycamore		8	1	320	N	3	3 SI	1 A: 46.	3 Good	C: Good		B.1.2
Acer pseudoplatanus					Е	4	3	R: 3.8	3	S: Ivy	Tree is situated within hedge-line; Unable.tp gain a detailed	20+ yrs
					S	3	2			B: Not visible	inspection of base and stem due to hedge and ivy restricting	,
					W	5	3				access; Historically pruned to the western lateral extent to	
											appropriate attachment points; Naturally occurring deadwood typical for species.	
T26												
Sycamore		8	1	300	N	3	3 SI	1 A: 40.	7 Good	C: Good		B.1.2
Acer pseudoplatanus					Е	4	3	R: 3.5	9	S: Ivy	Tree is situated within hedge-line; Unable.tp gain a detailed	20+ yrs
					S	3	2			B: Not visible	inspection of base and stem due to hedge and ivy restricting	,
					W	5	3				access; Historically pruned to the western lateral extent to	
											appropriate attachment points; Naturally occurring deadwood typical for species.	
											typical for species.	
Ana Olaasifi ti	N.I.	Mandente		EM ===	N4=4		0	Jidi a w	0 0		Character (A. Diamater	
Age Classifications:	N Y	Newly plante Young	ea	EM Early M Matu	Mature		Con	dition:	C Crown S Stem		Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 def	finition
		Semi-matur	e	OM Over					B Basal a	rea		iii iitiOi i
	SIVI	semi-matur	е	Olvi Over	wature				в ваsai a	lea	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	S	tems	С	rown			RP	Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	Ø (mm)	Spread (m)	_	ear n)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
Т27													
Sycamore		8	1	300	N	3	3	SM	A: 40.7	Good	C: Good		B.1.2
Acer pseudoplatanus					Е	4	3		R: 3.59		S: Ivy	Tree is situated within hedge-line; Unable.tp gain a detailed	20+ yrs
					S	3	2				B: Not visible	inspection of base and stem due to hedge and ivy restricting	20. 7.5
					W	5	3					access; Historically pruned to the western lateral extent to appropriate attachment points; Naturally occurring deadwood typical for species.	
T28													
Common Hornbeam		8	1	360	N	4	2	SM	A: 58.6	Good	C: Good		B.1.2
Carpinus betulus					Е	4	2		R: 4.31		S: Good	Tree is situated within hedge-line; Naturally occurring	20+ yrs
					S	4	2				B: Good	deadwood typical for species.	,
					W	4	2						
T29													
Common Hornbeam		8	4	351 (l	Eq) N	4	2	SM	A: 55.9	Good	C: Good		B.1.2
Carpinus betulus					Е	4	2		R: 4.21		S: Good	Tree is situated within hedge-line; Crown breaks to 4No stems	20+ yrs
					S	4	2				B: Good	at 1 m; Naturally occurring deadwood typical for species.	20. 7.5
					W	4	2					, , , , , , , , , , , , , , , , , , , ,	
T30													
Sycamore		11	1	480	N	5	3	SM	A: 104.2	Fair	C: Fair		C.1.2
Acer pseudoplatanus					Е	4	3		R: 5.75		S: Good	Tree is situated east of hedge-line; Epicormic	10+ yrs
					S	4	2				B: Good	regeneration from base; Asymmetrical crown due to suppression from adjacent companion tree; Sparse	
					W	5	3					foliage density throughout crown with atypical volume of deadwood for species	
T31													
Sycamore		11	3	579 (I	Eq) N	5	3	SM	A: 151.9	Good	C: Good		B.1.2
Acer pseudoplatanus					Е	4	3		R: 6.95		S: Good	Main ctom trifurcator at 0 E m to 2No ctome; Naturally	20+ yrs
					S	4	2				B: Good	Main stem trifurcates at 0.5 m to 3No stems; Naturally occurring deadwood typical for species.	201 913
					W	5	3					coolining accumoca typical for openion	
Age Classifications:	N	Newly plante	ed	EM Ear	ly Mature		С	onditi	ion: C	Crown		Stems: Ø Diameter	
J		Young		M Mat	-		Ī		S			(Eq) Equivalent stem diameter using BS5837:2012 de	finition
		Semi-matur	e	OM Ove					В		а	ERC: Estimated Remaining Contributio	

Tree and Tag No	Hght	\$	Stems		own		RP	Phys	Structural	Preliminary Recommendations	Cat
Species	(m)		(mm)	Spread (m)	Clear (m)	Age	A (m²) R (m)	Condition		Survey Comment	ERC
T32											
Common Hawthorn	4	1	290	N	1	2 SM	A: 38.1	Fair	C: Good		C.1.2
Crataegus monogyna				Е	2	2	R: 3.48		S: Good	Tree is situated to northern boundary line; Historically pruned	10+ yrs
				S	2	2			B: Good	to southern lateral extent to appropriate attachment points;	20 . 7.0
				W	2	2				Naturally occurring deadwood typical for species.	
T33											
Common Hawthorn	4	1	280	N	1	2 SM	A: 35.5	Fair	C: Good		C.1.2
Crataegus monogyna				Е	2	2	R: 3.36		S: Good	Tree is situated to northern boundary line: Historically pruned	10+ yrs
				S	2	2			B: Good	to southern lateral extent to appropriate attachment points;	,
				W	2	2				Naturally occurring deadwood typical for species.	
T34											
Common Hawthorn	4	1	210	N	1	2 SM	A: 20	Fair	C: Good		C.1.2
Crataegus monogyna				Е	2	2	R: 2.52		S: Good	Tree is situated to northern boundary line; Historically pruned	10+ yrs
				S	2	2			B: Good	to southern lateral extent to appropriate attachment points;	
				W	2	2				Naturally occurring deadwood typical for species.	
T35											
Common Hawthorn	4	1	330	N	3	2 SM	A: 49.3	Good	C: Good		B.1.2
Crataegus monogyna				Е	2	2	R: 3.96		S: Good	Tree is situated to northern boundary line; Historically pruned	20+ yrs
				S	2	2			B: Good	to southern lateral extent to appropriate attachment points;	_0 . ,.0
				W	2	2				Naturally occurring deadwood typical for species.	
T36											
Apple	5	1	260	N	3	2 SM	A: 30.6	Fair	C: Good		C.1.2
Malus sp.				Е	3	2	R: 3.12		S: Good	Tree is situated to northern boundary line; Low foliage density	10+ yrs
				S	3	2			B: Good	throughout crown with naturally occurring deadwood typical	20. 7.0
				W	3	2				for species.	
T37											
Common Oak	5	1	300	N	3	2 SM	A: 40.7	Good	C: Good		B.1.2
Quercus robur				Е	3	2	R: 3.59		S: Good	Tree is situated to northern boundary line; Naturally occurring	40+ yrs
				S	3	2			B: Good	deadwood typical for species.	,
				W	3	2					
Age Classifications:	N Newly pla	ınted	•	Mature		Condi				Stems: Ø Diameter	
	Y Young		M Matu				S			(Eq) Equivalent stem diameter using BS5837:2012 det	inition
	SM Semi-ma	ture	OM Over	Mature			В	Basal are	а	ERC: Estimated Remaining Contributio	

Tree and Tag No	Hgl	h.	Ste	ems	Cr	own			RP	Phys	Structural	Preliminary Recommendations	Cat
Species	(m		OP	Ø (mm)	Spread (m)		Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
T38													
Cedar of Lebanon	6	5 1	L	170	N	2	0.5	SM	A: 13.1	Good	C: Good		C.1
Cedrus libani					Е	2	0.5		R: 2.04		S: Good	Tree is situated to the east of Block A; No notable features.	10+ yrs
					S	2	0.5				B: Good	Tree is situated to the east of block A, No hotable reatures.	
					W	2	0.5						
T39													
Sycamore	10	0 2	<u>)</u>	743 (Eq) N	6	2	EM	A: 250	Good	C: Good		B.1.2
Acer pseudoplatanus					Е	6	1		R: 8.92		S: Good	Tree is situated to the east of Block A: Main stem bifurcates to	20+ yrs
					S	6	2				B: Good	codominant stem at 1 m; Naturally occurring deadwood typical	,
					W	7	2					for species.	
T40													
Sycamore	9) 1	L	390	N	5	2	SM	A: 68.8	Good	C: Good		B.1.2
Acer pseudoplatanus					Е	3	2		R: 4.67		S: Good	Tree is situated to the east of Block A; Naturally occurring	20+ yrs
					S	5	2				B: Good	deadwood typical for species.	
					W	5	2					, , , , , , , , , , , , , , , , , , ,	
T41													
Sycamore	9) 1	L	300	N	5	2	SM	A: 40.7	Good	C: Good		B.1.2
Acer pseudoplatanus					Е	3	2		R: 3.59		S: Good	Tree is situated to the east of Block A; Naturally occurring	20+ yrs
					S	5	2				B: Good	deadwood typical for species.	
					W	2	2					, , , , , , , , , , , , , , , , , , ,	
T42													
Common Ash	6	5 1	L	220	N	3	1	SM	A: 21.9	Fair	C: Fair		C.1.2
Fraxinus excelsior					Е	1	1		R: 2.64		S: Good	Tree is situated to northern boundary line; Asymmetrical	10+ yrs
					S	3	1				B: Good	crown due to suppression from adjacent companion tree;	10 . ,.0
					W	3	1					Crown showing early signs of <i>Hymenocyphus fraxineus</i> .	
T43													
Sycamore	5	5 1	L	260	N	3	1	SM	A: 30.6	Fair	C: Good		C.1.2
Acer pseudoplatanus					Е	3	1		R: 3.12		S: Good	Tree is situated to northern boundary line; Asymmetrical	10+ yrs
					S	3	1				B: Good	crown due to suppression from adjacent companion tree;	- /
					W	1	1					Naturally occurring deadwood typical for species; Low foliage density throughout crown.	
Age Classifications:	N Newly p	lanted	EN	M Early	Mature		Co	onditi	on: C	Crown		Stems: Ø Diameter	
	Y Young		M	Matur	е				S	Stem		(Eq) Equivalent stem diameter using BS5837:2012 defir	nition
	SM Semi-m	ature	01	M Over I	Mature				В	Basal area	а	ERC: Estimated Remaining Contributio	

Tree and Tag No	Hght	S	items		wn		RP	Phys	Structural	Preliminary Recommendations	Cat
Species	(m)	No	(mm)	Spread (m)	Clea (m)	9	A (m²) R (m)	Condition		Survey Comment	ERC
T44											
Common Alder	5	3	245 (Eq)) N	3	0.5 SM	A: 27.2	Fair	C: Fair		C.1.2
Alnus glutinosa				Е	3	0.5	R: 2.94		S: Fair	Tree is situated within fragmented hedge-line; Crown breaks	10+ yrs
				S	1	0.5			B: Good	to 3No stems at 0.5 m; Low foliage density throughout crown.	10. 7.0
				W	3	0.5				,,,	
T45											
Common Beech	8	1	710	N	8	3 EM	A: 228.1	Good	C: Good		B.1.2
Fagus sylvatica				Е	7	3	R: 8.52		S: Good	Tree is situated within group; Historically pruned.to the	20+ yrs
				S	5	3			B: Good	southern extent to appropriate attachment points; Naturally	, -
				W	7	3				occurring deadwood typical for species.	
T46											
Whitebeam	7	1	460	N	4	3 SM	A: 95.7	Good	C: Good		B.1.2
Sorbus aria				Е	4	3	R: 5.51		S: Good	Tree is situated to the north of Block D; Naturally occurring	20+ yrs
				S	4	3			B: Good	deadwood typical for species.	, ,
				W	4	3				, .	
T47											
Whitebeam	7	1	430	N	4	3 SM	A: 83.7	Good	C: Good		B.1.2
Sorbus aria				Е	4	3	R: 5.16		S: Good	Tree is situated to the north of Block D; Naturally occurring	20+ yrs
				S	4	3			B: Good	deadwood typical for species.	
				W	4	3					
T48											
Whitebeam	7	1	520	N	4	3 SM	A: 122.3	Good	C: Good		B.1.2
Sorbus aria				Е	4	3	R: 6.23		S: Good	Tree is situated to the north of Block D; Naturally occurring	20+ yrs
				S	4	3			B: Good	deadwood typical for species.	
				W	4	3				<i>"</i>	
T49											
Whitebeam	7	1	490	• •	4	3 SM	A: 108.6	Good	C: Good		B.1.2
Sorbus aria				Е	4	3	R: 5.87		S: Good	Tree is situated to the north of Block D; Naturally occurring	20+ yrs
					4	3			B: Good	deadwood typical for species.	,
				W	4	3					
Age Classifications:	N Newly plant	ted	EM Early			Cond				Stems: Ø Diameter	
	Y Young		M Matur				S			(Eq) Equivalent stem diameter using BS5837:2012 de	finition
	SM Semi-matur	re	OM Over I	Mature			В	Basal are	а	ERC: Estimated Remaining Contributio	

Tree and Tag No		Hght	S	tems			own		RF		Phys	Structural	Preliminary Recommendations	Cat
Species		(m)	No	(mı		Spread (m)	Clear (m)	Ag	e A (n R (n	""	ndition	Condition	Survey Comment	ERC
T50														
Whitebeam		4	1	200		N	2	2 SM	A: 18	.1	Fair	C: Fair		C.1
Sorbus aria						E	2	2	R: 2.4	4		S: Fair	Historical mechanical damage at 1 m to main stem on northern	0+ yrs
						S	2	2				B: Good	aspect; Historical limb failure at 2 m to western aspect; Low	,
					'	W	2	2					foliage density throughout crown.	
T51														
Whitebeam		4	1	200		N	2	2 SM	A: 18	.1	Fair	C: Fair		C.1
Sorbus aria						E	2	2	R: 2.4	4		S: Fair	Tree is situated to southern boundary line; Historically pruned 1	0+ yrs
						S	2	2				B: Good	to lateral extent on all aspects to appropriate attachment	•
					'	N	2	2					points; Low foliage density throughout crown with atypical volume of deadwood for species.	
T52													Estimated Measu	irements
Silver Birch		8	2	269	(Eq)	N	3	1 SM	A: 32	.8	Fair	C: Good		C.1.2
Betula pendula						E	3	1	R: 3.2	23		S: Not visible	Unable to gain a detailed inspection of base and main stem	0+ yrs
						S	3	1				B: Not visible	due to scrub restricting access; Main stem bifurcates to	•
					,	N	3	1					codominant stem at 1 m; Overhead crown conflict with telephone cables to the north; Naturally occurring deadwood typical for species.	
T53														
Common Hornbeam		6	4	520	(Eq)	N	3	2 SM	A: 12	2.2	Good	C: Good		B.1.2
Carpinus betulus						E	3	2	R: 6.2	23		S: Good	Tree is situated to the west of drive to animal care unit; Main	20+ yrs
						S	3	2				B: Good	stem breaks to 4No stems at 1 m; Naturally occurring	,
					'	N	3	2					deadwood typical for species.	
T54														
Silver Birch		8	3	352	(Eq)		3	2 SM	A: 56	.2	Good	C: Good		B.1.2
Betula pendula						E	4	2	R: 4.2	22		S: Good	Tree is situated to the west of drive to animal care workshop;	20+ yrs
						S	4	2				B: Good	Main stem trifurcates at ground level; Overhead telephone	
					,	N	4	2					cable conflict with crown to the north; Naturally occurring deadwood typical for species.	
Age Classifications:	N	Newly plante	ed	EM E	Early Ma	ature		Conc	ition:		crown		Stems: Ø Diameter	
		Young			Mature						tem		(Eq) Equivalent stem diameter using BS5837:2012 definition	ion
	SM	Semi-mature	е	OM C	Over Ma	ture				В В	asal area	a	ERC: Estimated Remaining Contributio	

Tree and Tag No	Hght	S	Stems		own		RP	Phys	Structural	Preliminary Recommendations	Cat
Species	(m)	No	Ø (mm)	Spread (m)	Clear (m)	Age	A (m²) R (m)	Condition	Condition	Survey Comment	ERC
T55											
Maidenhair Tree	4	2	136 (Eq) N	2	1 SM	A: 8.4	Good	C: Good		C.1
Ginkgo biloba				E	2	1	R: 1.63		S: Good	Main stem bifurcates at 0.5 m to codominant stem; Naturally	10+ yrs
				S	2	1			B: Good	occurring deadwood typical for species.	
				W	2	1				,, ,	
T56											
Small-Leafed Lime	5	1	190	N	2	2 SM	A: 16.3	Good	C: Good		C.1
Tilia cordata				Е	2	2	R: 2.27		S: Good	Tree is situated north of Automotive workshop; Naturally	10+ yrs
				S	2	2			B: Good	occurring deadwood typical for species.	
				W	2	2				3 · · · · · · · · · · · · · · · · · · ·	
T57											
Small-Leafed Lime	5	1	190	N	2	2 SM	A: 16.3	Good	C: Good		C.1
Tilia cordata				Е	2	2	R: 2.27		S: Good	Tree is situated north of Automotive workshop; Naturally	10+ yrs
				S	2	2			B: Good	occurring deadwood typical for species.	
				W	2	2				,, ,	
T58											
Small-Leafed Lime	5	1	240	N	2	2 SM	A: 26.1	Good	C: Good		C.1
Tilia cordata				Е	2	2	R: 2.88		S: Good	Tree is situated north of Automotive workshop; Naturally	10+ yrs
				S		2			B: Good	occurring deadwood typical for species.	
				W	2	2					
T59											
Common Alder	6	1	290	N	2	3 SM	A: 38.1	Fair	C: Fair		C.1
Alnus glutinosa				Е	2	3	R: 3.48		S: Good	Main stem bifurcates at 2 m to codominant stem; Sparse	10+ yrs
				S		3			B: Good	foliage density throughout crown; Naturally occurring	,
				W	2	3				deadwood typical for species.	
T60											
Western Red Cedar	16	1	920	N	4	5 M	A: 383	Good	C: Good		B.1.2
Thuja plicata				Е	4	5	R: 11.04		S: Ivy	Tree is situated to the north of extended car park; Ivy restricts	20+ yrs
				S	5	5			B: Good	detailed inspection of main stem; Naturally occurring	
				W	4	5				deadwood typical for species.	
Age Classifications:	N Newly plant	ed		Mature		Condi				Stems: Ø Diameter	
	Y Young		M Matur				S			(Eq) Equivalent stem diameter using BS5837:2012 def	inition
	SM Semi-matur	е	OM Over I	Mature			В	Basal area	a	ERC: Estimated Remaining Contributio	

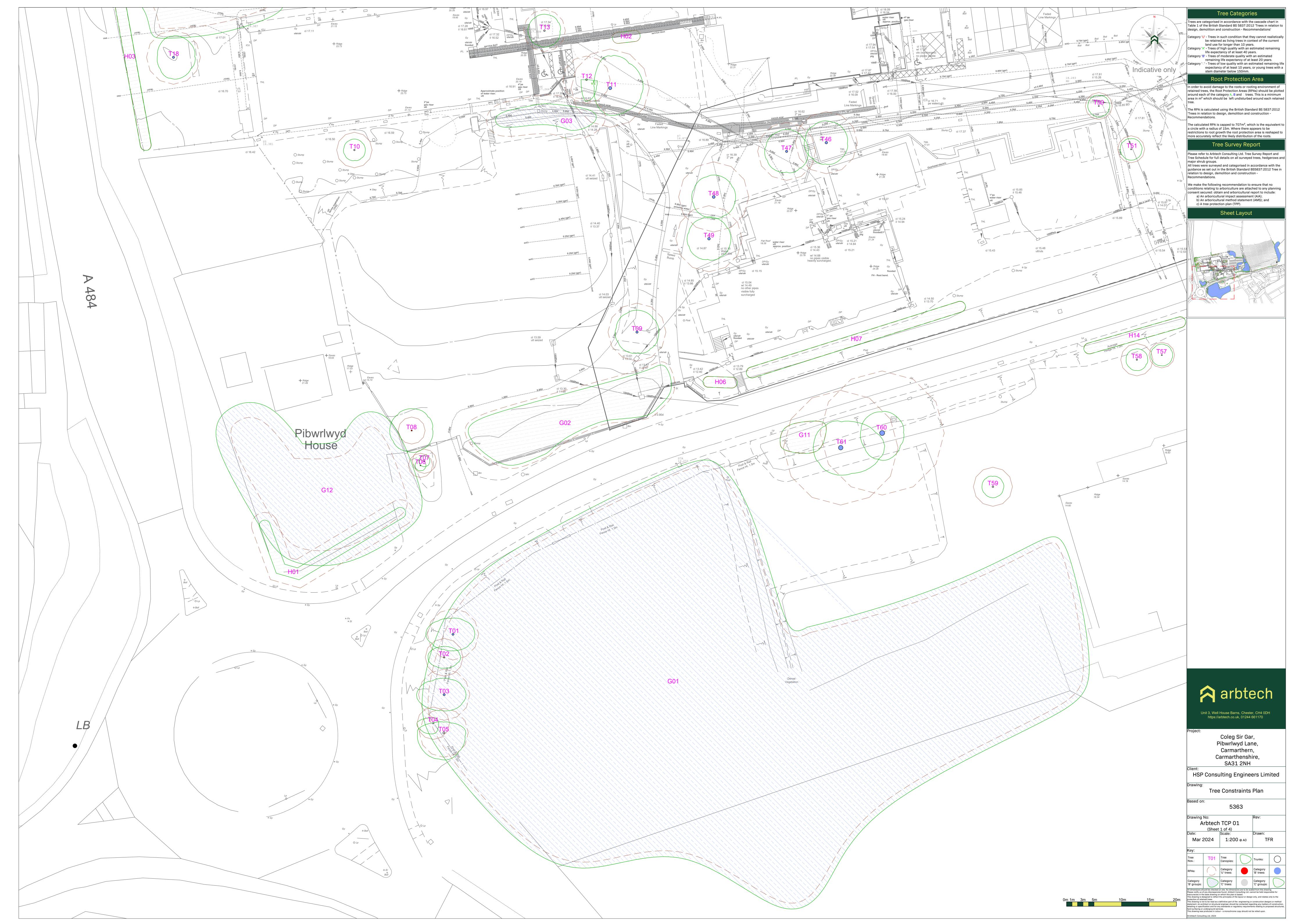
Tree and Tag No	Harla	St	tems	Cre	own		RP	Dhus	Churchinal	Preliminary Recommendations	C-4
Species	Hght (m)	No	Ø (mm)	Spread (m)	Clear (m)	Ag	A (m²) R (m)	Phys Condition	Structural Condition	Survey Comment	Cat ERC
T61											
Western Red Cedar	16	1	850	N	5	4 M	A: 326.9	Good	C: Good		B.1.2
Thuja plicata				Е	8	4	R: 10.2		S: Ivy	Tree is situated to the north of extended car park; Ivy restricts	20+ yrs
				S	5	4			B: Good	detailed inspection of main stem; Naturally occurring	
				W	5	4				deadwood typical for species.	
T62										Estimated Me	easurement
Lawson Cypress	19	1	600	N	6 0	.5 M	A: 162.9	Good	C: Good		B.1.2
Chamaecyparis lawsoniana				Е	6 0	.5	R: 7.2		S: Fair	Tree is situated within group; Stem diameter recorded	20+ yrs
				S	6 0	.5			B: Good	represents average for stem due to multiple subsidiary stems	_0 . ,
				W	6 0	.5				from base; Naturally occurring deadwood typical for species.	

Ì	Age Classifications:	N	Newly planted	EM	Early Mature	Condition:	С	Crown	Stems:	Ø	Diameter
		Υ	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	ОМ	Over Mature		В	Basal area	ERC:	Esti	mated Remaining Contributio



Appendix 3: Tree Constraints Plan





Tree Categories

Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to

Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.
egory 'A' - Trees of high quality with an estimated remaining life expectancy of at least 40 years. ategory 'B' - Trees of moderate quality with an estimated

Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a minimum area in m² which should be left undisturbed around each retained

The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction -

The calculated RPA is capped to 707m², which is the equivalent to

Tree Survey Report

Please refer to Arbtech Consulting Ltd. Tree Survey Report and Tree Schedule for full details on all surveyed trees, hedgerows and All trees were surveyed and categorised in accordance with the guidance as set out in the British Standard BS5837:2012 Tree in relation to design, demolition and construction -

We make the following recommendation to ensure that no conditions relating to arboriculture are attached to any planning consent secured: obtain and arboricultural report to include: a) An arboricultural impact assessment (AIA);
 b) An arboricultural method statement (AMS); and
 c) A tree protection plan (TPP).







9. Document Production Record

Document number	Editor	Signature	Position	Issue number	Date
Arbtech TSR 01	Thomas Ramm	Tom Ramm	Arboricultural Surveyor	01	12/03/24

Limitations

Arbtech Consulting Ltd has prepared this report for the sole use of the above-named Client/Agent in accordance with our terms of business, under which our services were performed. No other warranty, expressed or implied, is made as to the professional advice included in this report or any other services provided by us. This report may not be relied upon by any other party without the prior and express written agreement of Arbtech Consulting Ltd. The assessments made assume that the sites and facilities will continue to be used for their current purpose without significant change. The conclusions and recommendations contained in this report are based upon information provided by others and upon the assumption that all relevant information has been provided by those parties from whom it has been requested. Information obtained from third parties has not been independently verified by Arbtech Consulting Ltd.

Copyright

© This Report is the copyright of Arbtech Consulting Ltd. Any unauthorised reproduction or usage by any person other than the addressee is strictly prohibited.