

ARBO RIC ULTURAL REPORT

Stre e t Build ing s, North End
Road , Ya p to n, Arund e l BN18
0DT

Prepared by

Jonathan Rodwell NCH (Arb.)

March 2017



Beechdown ref: B/0162/17

Street Buildings - tree survey/report - March 2017



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Street Buildings - tree survey/report - March 2017

SUMMARY

- A survey was undertaken that identified and assessed the quality of 119 trees.
- An area for potential development beyond the root protection areas of retained trees was outlined.

1.0 INTRODUCTION

1.1 I have received instruction from Sam Langmead of SBEPI Ltd to provide arboricultural consultancy services in relation to trees at Street Buildings, North End Road, Yapton, Arundel, West Sussex BN18 0DT.

1.2 The purpose of the instruction was to:

- Undertake a ground level tree survey;
- assess the quality of the surveyed trees;
- advise on the potential developable area in relation to trees, to inform planning feasibility studies and design options.

1.3 The survey was conducted and the report prepared with reference to the guidelines detailed in BS 5837:2012 "Trees in relation to design, demolition and construction – Recommendations" and according to good arboricultural practice.

1.4 Contents of the report are exclusively for the use of the client; liability does not extend to any third party without our written consent.

2.0 DOCUMENTS PROVIDED

2.1 Plans provided by SBEPI Ltd.

02017 - TOPO	Topographic survey	1:500 @A0
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3.0 SURVEY FORMAT

3.1 Trees included in the survey were individuals or groups with a stem diameter, at 1.5m high, greater than 75mm. The trees were inspected from the ground only and no specialist decay detection was

undertaken. Trees were assessed from within the site or from public areas.

- 3.2 Data was recorded on a handheld computer, the trees plotted via GPS and their positions marked on the 1:1250 @ A4 tree survey plan (Appendix 4).
- 3.3 A detailed tree survey sheet is shown at Appendix 1 with an explanation of the terms and categories covered as Appendix 2.
- 3.4 The extent of the survey was limited to collecting sufficient data to identify a potential developable area based around the material constraints posed by trees worthy of retention. It was not a detailed tree hazard or risk assessment and, unless specified, no guarantee, expressed or implied, can be given regarding the safety of the trees or their suitability for safe long term retention.

4.0 GRADING CATEGORIES

- 4.1 The quality of the surveyed trees was assessed and they were categorised to reflect the criteria recommended in Table 1 of BS 5837:2012 as detailed at Appendix 3.
- 4.2 The following is a breakdown of the number of trees in each BS category:

Category U	13 trees
Category A	0 trees
Category B	24 trees
Category C	82 trees

5.0 STATUTORY CONTROLS

- 5.1 Consultation with the Local Planning Authority confirmed that the surveyed trees are not within a Conservation Area nor are they subject to a Tree Preservation Order.
- 5.2 Under the Wildlife and Countryside Act (1981) as amended by the Countryside and Rights of Way Act (2000) all birds, their nests and eggs are protected as are bats and their roosts. Further specialist investigation may be required before undertaking any recommended works.

6.0 SITE DESCRIPTION

- 6.1 The land at Street Buildings (Fig.1) consists of around 1.7 hectares of broadly level grassland with stables and farm buildings at the south-east corner of the site. Access to the site is via double farm gates from North End Road. Current use of the land is for stabling and grazing horses and the main field is divided into smaller paddocks.



Fig. 1

- 6.2 The wider landscape is semi-rural with individual trees or small groups as roadside planting, in domestic settings, small woodlands and hedgerows.
- 6.3 The site geology is Lewes Nodular Chalk sedimentary bedrock while the superficial geology is described by the National Soils Resources Institute as a freely draining, slightly acid, loamy soil. No detailed analysis of the soil structure, composition or pH was undertaken and details from this report should not be used for calculating foundation depth. Foundation depth should be determined by the architect or a

structural engineer and with reference to NHBC Chapter 4.2 – Building near trees.

7.0 TREE SURVEY

7.1 Surveyed trees consisted of 86 within the site, 14 either side of the privately owned track that extends from Maypole Lane to farmland beyond the western boundary of the site and 19 in a row just beyond the southern boundary. Native species mixed hedgerows, marked as Group 1 and 2 on the survey plan, were recorded and are detailed below.

- ✧ Group 1 (category B & C) – mixed species hedgerow of mainly ivy-covered hawthorn, elder and elm regeneration; height 3m-6m; 4m-5m wide; maximum stem ø 250mm.
- ✧ Group 2 (category B & C) – mixed species hedgerow of mainly ivy-covered damson and elder on land to the north of the site; height 4m-6m; 3m-4m wide; maximum stem ø 200mm.

7.2 The surveyed trees are predominantly along the north, south and west boundaries.

8.0 TREE APPRAISAL

8.1 Individual tree details and comments are listed in the appended BS 5837 survey schedule. Details of the trees that I consider require further explanation or comment are noted below.

- ✧ T1 to T46 (mixed category U, B and C) – a mixture of Lombardy poplar, crack willow, wild cherry, hawthorn and laburnum in a row on the southern boundary. The Lombardy poplars had been recently pruned to reduce height to around 12m and most had developed regrowth from dormant buds of 2m-3m. Many of the trees in this group had bark loss and exposed tissue on the lower stems consistent with the damage caused by horses' bark-stripping.
- ✧ T47 to T70 (mixed category B and C) – a row of younger, un-pruned Lombardy poplar along the western boundary. Several of these smaller stem diameter trees had damage consistent with bark-stripping. Within this group were the stumps of 14 trees that had snapped at between 1m and 2m above ground level. All fourteen trees had had bark stripped and failure would have been due to a combination of decay and strong winds.
- ✧ T79 to T88 (mixed category U, B and C) – a mixture of mature and semi-mature ash and Norway maple immediately to the south of the track

from Maypole Lane. Some defects were noted but management of these trees is the responsibility of others.

9.0 COMMENT

- 9.1 Although not a detailed tree hazard inspection, defects and structural weaknesses were identified in many of the trees. Bark-stripping on the lower stems of trees along the south and west boundaries has exposed tissue to fungal colonization. Poplars and willows in particular do not form a durable heartwood and colonisation by wood decay fungi can quickly degrade the structure of the wood to the extent that failure occurs – as has already happened with 14 smaller trees on the western boundary. I have identified category U trees, within the site, that should be removed but many of the category C trees are also structurally weakened and while the risk they pose is not particularly high under the current use of the land, if it is developed associated risks will increase.

10.0 DESIGN LAYOUT AND DEVELOPMENT POTENTIAL

- 10.1 The root protection area (RPA) calculations have been produced using the information gathered from the tree survey and section 4.6.1 of BS 5837:2012. This indicates the RPA in m² and the minimum required all round radial distances for rooting zone protection and allows a view to be taken as to whether the trees can be retained safely without undue damage to their root systems. The calculations are detailed in the appended survey schedule and the initial dimensions marked on the 1:1250 @ A4 root protection area and shade plan (Appendix 5).
- 10.2 No excavation, changes in soil level, construction or routing of service runs should take place within the RPAs of retained trees; ideally a 2m working margin should be maintained between the RPAs and any proposed development to allow room for construction activity.
- 10.3 Consideration should be given to the effects that the current tree size, future growth potential, shade levels and leaf and fruit nuisance may have on the development proposal. Shading, restricted views and potential tree size may all increase pressure for future tree removal; building design that aligns windows parallel or tangentially to retained trees can reduce potential conflicts.
- 10.4 Tree height and crown spread measurements are detailed in the appended tree survey; the crown spread of the trees is indicated on the tree survey plan and the shadow pattern through the main part of the day is shown on the RPA and shade plan.

10.5 Appendix 6 shows the nominal combined RPAs of category B and C trees and indicates an area beyond them which could be developed based on the removal of just category U trees.

11.0 CONCLUSIONS

- A tree survey was undertaken, the quality of 119 trees and two hedgerows was assessed, they were categorised to reflect the criteria recommended in BS 5837:2012 and an area for potential development was identified beyond the root protection area of category B and C trees.
- Site layout should consider that no excavation, changes in soil level, construction or routing of service runs should take place within the RPAs of retained trees and that ideally a 2m working margin should be maintained between the RPAs and any proposed development to allow room for construction activity.
- Building design should consider current and future growth potential of the trees particularly in relation to light levels to principle rooms and seasonal nuisance i.e. leaf fall.
- An arboricultural impact assessment, method statement and tree protection plan in support of the final design may be required to accompany any planning application.

12.0 DETAILS

- 12.1 Date of survey - 16.03.2017 & 28.04.2017
- 12.2 Present at site visit - Jonathan Rodwell NCH (Arb.)
- Alan Flemington AA Tech Cent
- 12.3 Date of report - 04.05.2017

References

BSI British Standards (2012) BS 5837:2012 Trees in relation to demolition and construction – Recommendations, Fourth (Present) Edition. BSI

Jonathan Rodwell NCH (Arb.)
Beechdown Arboriculture Ltd

4th May 2017

BS5837:2012 Tree Survey

Beechdown Arboriculture Ltd

Client: SBEPI Ltd
 Project: Street Buildings
 Survey Date: 16/03/2017 - 28/04/2017
 Surveyor: Jonathan Rodwell

Club Cottage, Top Road
 Slindon
 Arundel
 West Sussex
 BN18 0RP
 Phone: 01243 814740

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T1													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	620	N	2	4	M	A: 173.9 R: 7.44	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem.	10 to 20 yrs
T2													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	340	N	1	2	N	A: 52.3 R: 4.08	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; co-dominant stem removed at base.	10 to 20 yrs
T3													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	520	N	1	3	M	A: 122.3 R: 6.23	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	10 to 20 yrs
T4													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	480	N	1	2	M	A: 104.2 R: 5.75	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.	10 to 20 yrs
Age Classifications:		N Y SM	Newly planted Young Semi-mature	EM M OM	Early Mature Mature Over Mature	Condition:		C S B	Crown Stem Basal area	Stems:		Ø (Eq)	Diameter Equivalent stem diameter using BS5837:2012 definition

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T5												
Lombardy Poplar <i>Populus nigra 'Italica'</i>	15	1	500	N	3	3	M	A: 113.1 R: 6	Fair	C: Fair S: Ivy B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m; ivy-covered	☺ 10 to 20 yrs
T6												
Crack Willow <i>Salix fragilis</i>	6	1	320	N	4	1	M	A: 46.3 R: 3.83	Decline	C: Fair S: Poor B: Poor	Basal decay; unstable.	☹ <10 yrs
T7												
Lombardy Poplar <i>Populus nigra 'Italica'</i>	14	1	550	N	4	4	M	A: 136.9 R: 6.6	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.	☺ 10 to 20 yrs
T8												
Common Laburnum <i>Laburnum anagyroides</i>	5	2	166 (Eq)	N	4	2	M	A: 12.5 R: 1.99	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs
T9												
Lombardy Poplar <i>Populus nigra 'Italica'</i>	14	1	420	N	2	8	M	A: 79.8 R: 5.03	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.	☺ 10 to 20 yrs
T10												
Crack Willow <i>Salix fragilis</i>	11	1	620	N	4	1	M	A: 173.9 R: 7.44	Decline	C: Fair S: Ivy B: Fair	Ivy covered stem to east; decay at main union.	☺ 10 to 20 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area												

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T11														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	550	N	4	5	M	A: 136.9 R: 6.6	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		☺ 10 to 20 yrs
T12														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	480	N	4	2	M	A: 104.2 R: 5.75	Poor	C: Fair S: Poor B: Poor	Significant decay at base.		☹ <10 yrs
T13														
Crack Willow <i>Salix fragilis</i>		12	1	500	N	6	2	M	A: 113.1 R: 6	Fair	C: Fair S: Fair B: Poor	Decay at base; deadwood in crown.		☺ 10 to 20 yrs
T14														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	580	N	2	3	M	A: 152.2 R: 6.96	Decline	C: Poor S: Ivy B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		☺ 10 to 20 yrs
T15														
Crack Willow <i>Salix fragilis</i>		13	1	500	N	4	2	N	A: 113.1 R: 6	Fair	C: Fair S: Ivy B: Poor	Damage consistent with horse bark stripping on lower stem		☺ 10 to 20 yrs
T16														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	500	N	3	2	M	A: 113.1 R: 6	Decline	C: Poor S: Ivy B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.; decay at base.		☹ <10 yrs
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T17														
Wild Cherry <i>Prunus avium</i>		10	1	350	N E S W	6 2 7 4	2 4 2 2	M A: 55.4 R: 4.19	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; decay at base.			10 to 20 yrs
T18														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	550	N E S W	2 1 1 3	2 2 2 2	N A: 136.9 R: 6.6	Decline	C: Poor S: Ivy B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.			10 to 20 yrs
T19														
Crack Willow <i>Salix fragilis</i>		8	1	289	N E S W	3 4 5 1	1 1 1 1	N A: 37.8 R: 3.46	Fair	C: Fair S: Poor B: Poor				10 to 20 yrs
T20														
Crack Willow <i>Salix fragilis</i>		12	1	480	N E S W	5 5 4 5	2 1 1 1	M A: 104.2 R: 5.75	Fair	C: Fair S: Poor B: Poor	Decay at base.			10 to 20 yrs
T21														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	489	N E S W	3 3 2 1	8 10 8 8	N A: 108.2 R: 5.86	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.			10 to 20 yrs
T22														
Common Hawthorn <i>Crataegus monogyna</i>		5	1	120	N E S W	3 2 2 1	1 1 1 1	M A: 6.5 R: 1.43	Fair	C: Fair S: Fair B: Fair				20 to 40 yrs
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T23														
Crack Willow <i>Salix fragilis</i>		7	1	400	N E S W	1 3 4 4	1 1 1 1	M A: 72.4 R: 4.8	Decline	C: Poor S: Poor B: Poor	Decay at base.		U 10 to 20 yrs	
T24														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	560	N E S W	4 2 4 1	7 7 7 7	M A: 141.9 R: 6.72	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		C 10 to 20 yrs	
T25														
Crack Willow <i>Salix fragilis</i>		8	1	380	N E S W	6 3 3 1	1 1 1 1	N A: 65.3 R: 4.55	Decline	C: Fair S: Poor B: Poor	Significant decay at base.		U 10 to 20 yrs	
T26														
Crack Willow <i>Salix fragilis</i>		10	1	280	N E S W	1 1 6 2	1 1 1 2	M A: 35.5 R: 3.36	Fair	C: Fair S: Fair B: Fair			C 10 to 20 yrs	
T27														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	530	N E S W	3 2 3 2	7 5 8 8	N A: 127.1 R: 6.36	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		C 10 to 20 yrs	
T28														
Crack Willow <i>Salix fragilis</i>		9	1	300	N E S W	4 2 3 2	2 2 2 2	N A: 40.7 R: 3.59	Poor	C: Poor S: Poor B: Poor	Significant decay at base.		U 10 to 20 yrs	
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T29														
Crack Willow <i>Salix fragilis</i>		9	1	350	N	1	1	M	A: 55.4 R: 4.19	Decline	C: Poor S: Poor B: Poor	Significant decay at base.		U 10 to 20 yrs
T30														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	570	N	1	6	M	A: 147 R: 6.84	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		C 10 to 20 yrs
T31														
Crack Willow <i>Salix fragilis</i>		10	1	470	N	2	1	M	A: 99.9 R: 5.63	Decline	C: Fair S: Poor B: Poor	Significant decay at base.		U 10 to 20 yrs
T32														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		14	1	570	N	1	5	N	A: 147 R: 6.84	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		C 10 to 20 yrs
T33														
Crack Willow <i>Salix fragilis</i>		9	1	300	N	5	1	N	A: 40.7 R: 3.59	Fair	C: Fair S: Poor B: Poor			C 10 to 20 yrs
T34														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		15	1	530	N	2	5	M	A: 127.1 R: 6.36	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		C 10 to 20 yrs
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T35														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		15	1	510	N E S W	4 1 3 1	11	M A: 117.7 R: 6.12	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		10 to 20 yrs	
T36														
Crack Willow <i>Salix fragilis</i>		13	1	530	N E S W	7 2 6 4	1	N A: 127.1 R: 6.36	Fair	C: Fair S: Poor B: Fair	Large pruning wounds on main stem.		10 to 20 yrs	
T37														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		16	1	520	N E S W	3 2 3 1	8	M A: 122.3 R: 6.23	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		10 to 20 yrs	
T38														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		16	1	620	N E S W	7 2 4 2	8	M A: 173.9 R: 7.44	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		10 to 20 yrs	
T39														
Crack Willow <i>Salix fragilis</i>		9	1	480	N E S W	7 4 5 4	1	N A: 104.2 R: 5.75	Fair	C: Fair S: Fair B: Fair			10 to 20 yrs	
T40														
Crack Willow <i>Salix fragilis</i>		11	1	500	N E S W	7 6 7 2	1	M A: 113.1 R: 6	Fair	C: Fair S: Fair B: Fair			10 to 20 yrs	
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T41												
Crack Willow <i>Salix fragilis</i>	12	1	5	N E S W	5 6 8 3	1 1 1 1	N A: 0 R: 0	Fair	C: Fair S: Fair B: Poor			C 10 to 20 yrs
T42												
Lombardy Poplar <i>Populus nigra 'Italica'</i>	14	1	500	N E S W	2 2 2 2	4 4 4 4	Dead A: 113.1 R: 6	Dead	C: Poor S: Poor B: Poor			U <10 yrs
T43												
Crack Willow <i>Salix fragilis</i>	12	1	450	N E S W	8 3 5 3	1 1 1 1	A: 91.6 R: 5.39	Decline	C: Poor S: Poor B: Poor			C 10 to 20 yrs
T44												
Lombardy Poplar <i>Populus nigra 'Italica'</i>	15	1	690	N E S W	4 2 3 2	4 5 5 3	M A: 215.4 R: 8.28	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem; crown reduced at 12m.		C 10 to 20 yrs
T45												
Crack Willow <i>Salix fragilis</i>	12	2	552 (Eq)	N E S W	7 2 6 8	1 1 1 1	M A: 137.7 R: 6.62	Fair	C: Fair S: Poor B: Poor	Decay at main union.		C 10 to 20 yrs
T46												
Crack Willow <i>Salix fragilis</i>	3	2	212 (Eq)	N E S W	4 1 1 2	1 1 1 1	SM A: 20.4 R: 2.54	Decline	C: Poor S: Poor B: Fair			U <10 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area												

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T47													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		16	1	270	N	1	5	SM	A: 33 R: 3.24	Good	C: Good S: Good B: Good		20 to 40 yrs
T48													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	270	N	1	1	SM	A: 33 R: 3.24	Good	C: Good S: Good B: Good		20 to 40 yrs
T49													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	300	N	2	1	SM	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good		20 to 40 yrs
T50													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	300	N	1	1	SM	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good		20 to 40 yrs
T51													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	310	N	1	2	SM	A: 43.5 R: 3.72	Fair	C: Good S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	10 to 20 yrs
T52													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	310	N	1	1	Veteran	A: 43.5 R: 3.72	Good	C: Good S: Good B: Good		20 to 40 yrs
					E	3	2						
					S	1	1						
					W	2	1						
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area													

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations			Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T53														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	300	N E S W	1 3 1 3	1 1 1 1	SM A: 40.7 R: 3.59	Good	C: Good S: Good B: Good				⌘ 20 to 40 yrs
T54														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	280	N E S W	1 3 1 2	1 1 1 1	SM A: 35.5 R: 3.36	Fair	C: Good S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem			⌘ 10 to 20 yrs
T55														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		17	1	320	N E S W	3 4 2 4	1 1 1 1	SM A: 46.3 R: 3.83	Good	C: Good S: Good B: Good				⌘ 20 to 40 yrs
T56														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		15	1	300	N E S W	1 3 1 3	1 1 1 1	SM A: 40.7 R: 3.59	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem			⌘ 10 to 20 yrs
T57														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	320	N E S W	1 3 3 2	1 1 1 1	SM A: 46.3 R: 3.83	Good	C: Good S: Good B: Good				⌘ 20 to 40 yrs
T58														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	330	N E S W	1 4 2 3	1 1 1 1	SM A: 49.3 R: 3.96	Good	C: Good S: Good B: Good				⌘ 20 to 40 yrs
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T59													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	330	N	1	1	SM	A: 49.3 R: 3.96	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs
T60													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		17	1	330	N	1	1	SM	A: 49.3 R: 3.96	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs
T61													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		15	1	220	N	1	1	SM	A: 21.9 R: 2.64	Good	C: Good S: Good B: Good		☹ 20 to 40 yrs
T62													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		15	1	320	N	1	1	SM	A: 46.3 R: 3.83	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs
T63													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		16	1	230	N	1	1	SM	A: 23.9 R: 2.75	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs
T64													
Lombardy Poplar <i>Populus nigra 'Italica'</i>		17	1	330	N	1	1	SM	A: 49.3 R: 3.96	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area													

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T65														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		17	1	330	N	1	1	SM	A: 49.3 R: 3.96	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs	
T66														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		17	1	230	N	1	1	SM	A: 23.9 R: 2.75	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs	
T67														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		17	1	340	N	2	1	SM	A: 52.3 R: 4.08	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs	
T68														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	340	N	1	1	SM	A: 52.3 R: 4.08	Fair	C: Fair S: Poor B: Poor	Damage consistent with horse bark stripping on lower stem	☺ 10 to 20 yrs	
T69														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	300	N	2	1	SM	A: 40.7 R: 3.59	Good	C: Good S: Good B: Good		☹ 20 to 40 yrs	
T70														
Lombardy Poplar <i>Populus nigra 'Italica'</i>		18	1	350	N	4	1	SM	A: 55.4 R: 4.19	Good	C: Good S: Ivy B: Good		☹ 20 to 40 yrs	
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T71												
Common or Black Elder <i>Sambucas nigra</i>	5	2	224 (Eq)	N	2	2	M	A: 22.6 R: 2.68	Fair	C: Fair S: Ivy B: Fair		☺ 10 to 20 yrs
T72												
English Elm <i>Ulmus procera</i>	7	1	150	N	1	3	SM	A: 10.2 R: 1.8	Fair	C: Fair S: Fair B: Fair		☺ 10 to 20 yrs
T73												
English Elm <i>Ulmus procera</i>	7	1	160	N	1	1	Y	A: 11.6 R: 1.92	Fair	C: Fair S: Fair B: Fair		☺ 10 to 20 yrs
T74												
Common or Black Elder <i>Sambucas nigra</i>	5	1	200	N	2	2	N	A: 18.1 R: 2.4	Fair	C: Fair S: Fair B: Fair		☺ 10 to 20 yrs
T75											Estimated Measurements	
English Elm <i>Ulmus procera</i>	6	1	130	N	1	2	Y	A: 7.6 R: 1.55	Fair	C: Fair S: Fair B: Fair		☺ 10 to 20 yrs
T76											Estimated Measurements	
English Elm <i>Ulmus procera</i>	7	1	140	N	3	1	Y	A: 8.9 R: 1.68	Good	C: Good S: Good B: Good		☺ 10 to 20 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area												

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T77											Estimated Measurements			
English Elm <i>Ulmus procera</i>		7	1	110	N	4	2	Y	A: 5.5 R: 1.32	Fair	C: Fair S: Fair B: Fair		C 10 to 20 yrs	
T78											Estimated Measurements			
Hybrid Black Poplar <i>Populus x canadensis</i>		8	1	220	N	3	1	Y	A: 21.9 R: 2.64	Fair	C: Fair S: Ivy B: Fair		C 10 to 20 yrs	
T79											Estimated Measurements			
Norway Maple <i>Acer platanoides</i>		16	2	814 (Eq)	N	10	2	M	A: 299.7 R: 9.76	Fair	C: Fair S: Ivy B: Fair		B 20 to 40 yrs	
T80											Estimated Measurements			
Norway Maple <i>Acer platanoides</i>		7	1	350	N	5	3	SM	A: 55.4 R: 4.19	Decline	C: Poor S: Poor B: Poor	Significant decay at base.	U <10 yrs	
T81											Estimated Measurements			
Sycamore <i>Acer pseudoplatanus</i>		15	1	600	N	5	2	M	A: 162.9 R: 7.2	Fair	C: Fair S: Fair B: Fair		B 20 to 40 yrs	
T82											Estimated Measurements			
Common Ash <i>Fraxinus excelsior</i>		16	1	650	N	4	7	M	A: 191.2 R: 7.8	Fair	C: Good S: Good B: Good		B 20 to 40 yrs	
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T83											Estimated Measurements	
Common Ash <i>Fraxinus excelsior</i>	16	1	550	N	8	4	M	A: 136.9 R: 6.6	Fair	C: Good S: Ivy B: Poor		C 10 to 20 yrs
T84											Estimated Measurements	
Norway Maple <i>Acer platanoides</i>	17	1	750	N	8	2	M	A: 254.5 R: 9	Fair	C: Good S: Ivy B: Fair		B 20 to 40 yrs
T85											Estimated Measurements	
Common Hawthorn <i>Crataegus monogyna</i>	8	2	269 (Eq)	N	3	1	M	A: 32.8 R: 3.23	Fair	C: Fair S: Ivy B: Fair		B 20 to 40 yrs
T86											Estimated Measurements	
Common Ash <i>Fraxinus excelsior</i>	17	1	430	N	3	1	M	A: 83.7 R: 5.16	Fair	C: Good S: Ivy B: Fair		B 20 to 40 yrs
T87											Estimated Measurements	
Common Ash <i>Fraxinus excelsior</i>	12	1	230	N	2	1	SM	A: 23.9 R: 2.75	Decline	C: Poor S: Poor B: Fair	Main stem dead.	U <10 yrs
T88											Estimated Measurements	
Norway Maple <i>Acer platanoides</i>	14	1	580	N	2	2	M	A: 152.2 R: 6.96	Fair	C: Poor S: Ivy B: Fair	Squirrel damage; weighted heavily to the east.	C 10 to 20 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area												

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T89												
Common Oak <i>Quercus robur</i>	14	1	480	N	5	3	SM	A: 104.2 R: 5.75	Good	C: Good S: Ivy B: Good		20 to 40 yrs
T90											Estimated Measurements	
Common or Black Elder <i>Sambucas nigra</i>	5	3	273 (Eq)	N	3	1	M	A: 33.7 R: 3.27	Fair	C: Fair S: Ivy B: Fair		10 to 20 yrs
T91											Estimated Measurements	
Prunus 'Amanogawa' <i>Prunus 'Amanogawa'</i>	7	1	180	N	2	2	SM	A: 14.7 R: 2.16	Fair	C: Fair S: Fair B: Fair		10 to 20 yrs
T92											Estimated Measurements	
Plum <i>Prunus domestica</i>	6	2	211 (Eq)	N	5	1	M	A: 20.1 R: 2.52	Fair	C: Good S: Fair B: Fair		20 to 40 yrs
T93												
Plum <i>Prunus domestica</i>	5	1	60	N	0.5	0.5	Y	A: 1.6 R: 0.71	Good	C: Good S: Fair B: Fair		20 to 40 yrs
T94												
Plum <i>Prunus domestica</i>	6	2	114 (Eq)	N	1	1	SM	A: 5.9 R: 1.37	Fair	C: Fair S: Fair B: Fair		20 to 40 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition SM Semi-mature OM Over Mature B Basal area												

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T95													
Plum	5	1	100	N	0	1	SM	A: 4.5	Fair	C: Fair			☺
<i>Prunus domestica</i>				E	2	1		R: 1.19		S: Fair			20 to 40 yrs
				S	2	1				B: Fair			
				W	1	1							
T96													
Plum	5	1	60	N	1	1	Y	A: 1.6	Fair	C: Fair			☺
<i>Prunus domestica</i>				E	1	1		R: 0.71		S: Good			20 to 40 yrs
				S	2	1				B: Fair			
				W	1	1							
T97													
Plum	4	1	80	N	1	1	SM	A: 2.9	Fair	C: Fair			☺
<i>Prunus domestica</i>				E	2	1		R: 0.96		S: Fair			20 to 40 yrs
				S	1	1				B: Fair			
				W	1	1							
T98													
Plum	5	1	75	N	1	1	SM	A: 2.5	Fair	C: Fair			☺
<i>Prunus domestica</i>				E	2	1		R: 0.89		S: Fair			20 to 40 yrs
				S	1	1				B: Fair			
				W	1	1							
T99													
Plum	3	1	60	N	2	1	Dead	A: 1.6	Dead	C: Poor			☹
<i>Prunus domestica</i>				E	1	1		R: 0.71		S: Poor			<10 yrs
				S	2	1				B: Poor			
				W	2	1							
T100													
Plum	4.5	1	90	N	2	0.5	SM	A: 3.7	Decline	C: Poor			☺
<i>Prunus domestica</i>				E	2	0.5		R: 1.08		S: Poor			10 to 20 yrs
				S	1	0.5				B: Poor			
				W	1	0.5							
Age Classifications: N Newly planted EM Early Mature Condition: C Crown Stems: Ø Diameter													
Y Young M Mature S Stem (Eq) Equivalent stem diameter using BS5837:2012 definition													
SM Semi-mature OM Over Mature B Basal area													

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T101														
Plum <i>Prunus domestica</i>		9	2	284 (Eq)	N	4	1	M	A: 36.6 R: 3.41	Good	C: Good S: Fair B: Fair		⌘ 20 to 40 yrs	
T102														
Common or Black Elder <i>Sambucas nigra</i>		4	3	93 (Eq)	N	2	1	M	A: 3.9 R: 1.11	Fair	C: Fair S: Ivy B: Fair		⌘ 10 to 20 yrs	
T103														
Pacific Dogwood <i>Cornus nuttallii</i>		4	10	95 (Eq)	N	2	0.5	M	A: 4.1 R: 1.14	Good	C: Good S: Fair B: Fair		⌘ 10 to 20 yrs	
T104														
Common or Black Elder <i>Sambucas nigra</i>		5	1	100	N	1	0.5	M	A: 4.5 R: 1.19	Decline	C: Poor S: Ivy B: Fair		⌘ 10 to 20 yrs	
T105														
Common Hawthorn <i>Crataegus monogyna</i>		5.5	1	80	N	3	0.5	SM	A: 2.9 R: 0.96	Fair	C: Fair S: Ivy B: Fair		⌘ 20 to 40 yrs	
T106														
English Elm <i>Ulmus procera</i>		10	2	216 (Eq)	N	3	1	SM	A: 21.2 R: 2.59	Good	C: Good S: Good B: Good		⌘ <10 yrs	
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment		
T107												
Common Hawthorn <i>Crataegus monogyna</i>	6	4	184 (Eq)	N E S W	4 2 4 3	2 1 1 1	SM A: 15.3 R: 2.2	Fair	C: Fair S: Ivy B: Fair			☺ 20 to 40 yrs
T108												
Common Hawthorn <i>Crataegus monogyna</i>	5	1	120	N E S W	1 2 4 1	1 2 2 1	SM A: 6.5 R: 1.43	Fair	C: Fair S: Ivy B: Fair			☺ 20 to 40 yrs
T109												
Common Hawthorn <i>Crataegus monogyna</i>	6	2	333 (Eq)	N E S W	3 2 3 2	2 3 2 3	M A: 50.1 R: 3.99	Fair	C: Fair S: Ivy B: Fair			☺ 10 to 20 yrs
T110												
Common Hawthorn <i>Crataegus monogyna</i>	4.5	2	180 (Eq)	N E S W	5 1 1 1	2 2 2 2	M A: 14.7 R: 2.16	Fair	C: Fair S: Ivy B: Fair			☺ 10 to 20 yrs
T111												
Common Hawthorn <i>Crataegus monogyna</i>	5	5	212 (Eq)	N E S W	4 1 2 4	1 2 1 1	M A: 20.4 R: 2.54	Fair	C: Good S: Ivy B: Fair			☹ 20 to 40 yrs
T112												
Common Beech <i>Fagus sylvatica</i>	7	2	100 (Eq)	N E S W	2 1 2 2	1 2 1 1	Y A: 4.5 R: 1.19	Good	C: Fair S: Fair B: Fair			☺ >40 yrs
Age Classifications: N Newly planted EM Early Mature Condition: C Crown S Stem B Basal area Y Young M Mature SM Semi-mature OM Over Mature												
Stems: Ø Diameter (Eq) Equivalent stem diameter using BS5837:2012 definition												

Tree and Tag No Species		Hght (m)	Stems		Crown		Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations		Cat ERC	
			No	Ø (mm)	Spread (m)	Clear (m)					Survey Comment			
T113														
English Elm <i>Ulmus procera</i>		10	1	280	N	4	2	SM	A: 35.5 R: 3.36	Good	C: Good S: Fair B: Fair		⌘ <10 yrs	
T114														
Common or Black Elder <i>Sambucas nigra</i>		3	1	90	N	2	0.5	M	A: 3.7 R: 1.08	Fair	C: Fair S: Ivy B: Fair		⌘ 10 to 20 yrs	
T115														
Common Beech <i>Fagus sylvatica</i>		9	1	100	N	2	1	Y	A: 4.5 R: 1.19	Good	C: Good S: Good B: Good		⌘ >40 yrs	
T116														
Common Hawthorn <i>Crataegus monogyna</i>		6	1	200	N	1	1	M	A: 18.1 R: 2.4	Fair	C: Fair S: Fair B: Poor		⌘ 10 to 20 yrs	
T117														
Common or Black Elder <i>Sambucas nigra</i>		7	10	316 (Eq)	N	2	2	M	A: 45.2 R: 3.79	Fair	C: Fair S: Fair B: Fair		⌘ 10 to 20 yrs	
T118														
English Elm <i>Ulmus procera</i>		8	1	110	N	2	1	SM	A: 5.5 R: 1.32	Good	C: Good S: Good B: Fair		⌘ <10 yrs	
Age Classifications:		N	Newly planted	EM	Early Mature		Condition:		C	Crown	Stems:		Ø	Diameter
		Y	Young	M	Mature				S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
		SM	Semi-mature	OM	Over Mature				B	Basal area				

Appendix 2 – tree survey definition of terms

<u>Category</u>	<u>Definition</u>										
Tree ID/tag	Identification number and/or tree tag number.										
Species	Common and/or scientific name.										
Height	To the nearest 0.5m below 10m; to the nearest 1m above 10m.										
Ø/No. of stems	Stem diameter measured at 1.5m or equivalent with reference to Annex C of BS5837:2012.										
First branch	Height above ground level and direction of first significant branch.										
Crown spread	Measured at the cardinal points in metres.										
Canopy height/clearance	Crown clearance in metres above ground level at the cardinal points.										
RPA	Root protection area (m ²) and length of radial protection (m).										
Age class	<table> <tr> <td>Young</td><td>Less than approximately 10 years old.</td></tr> <tr> <td>Semi-mature</td><td>Less than 1/5 of typical life expectancy.</td></tr> <tr> <td>Mature</td><td>Between 1/5 and 5/5 of typical life expectancy.</td></tr> <tr> <td>Over-mature</td><td>Tree having reached its maximum life span and declining in health and size.</td></tr> <tr> <td>Veteran</td><td>A tree that is of interest biologically, aesthetically or culturally because of its age, size or condition.</td></tr> </table>	Young	Less than approximately 10 years old.	Semi-mature	Less than 1/5 of typical life expectancy.	Mature	Between 1/5 and 5/5 of typical life expectancy.	Over-mature	Tree having reached its maximum life span and declining in health and size.	Veteran	A tree that is of interest biologically, aesthetically or culturally because of its age, size or condition.
Young	Less than approximately 10 years old.										
Semi-mature	Less than 1/5 of typical life expectancy.										
Mature	Between 1/5 and 5/5 of typical life expectancy.										
Over-mature	Tree having reached its maximum life span and declining in health and size.										
Veteran	A tree that is of interest biologically, aesthetically or culturally because of its age, size or condition.										
Structural/physiological condition	General condition of tree crown, stem and basal area structure and form - assessed as: <table> <tr> <td>Good</td><td>Good form, structure and vitality; no apparent signs of decay, structural weakness, decline in health, pests or diseases.</td></tr> <tr> <td>Fair</td><td>Moderate form and structure.</td></tr> <tr> <td>Poor</td><td>Poor form or structure; significant decay, structural weakness or decline in vitality.</td></tr> </table>	Good	Good form, structure and vitality; no apparent signs of decay, structural weakness, decline in health, pests or diseases.	Fair	Moderate form and structure.	Poor	Poor form or structure; significant decay, structural weakness or decline in vitality.				
Good	Good form, structure and vitality; no apparent signs of decay, structural weakness, decline in health, pests or diseases.										
Fair	Moderate form and structure.										
Poor	Poor form or structure; significant decay, structural weakness or decline in vitality.										
BS 5837 category (Cat)	BS grading category described in detail at appendix 3.										
ERC	Estimated remaining contribution.										

Beechdown ref: B/0162/17

Street Buildings – tree survey/report – March 2017

Trees unsuitable for retention

<u>Category</u>	<u>Definition</u>
Category U	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 – shown in dark red on plans.

Trees to be considered for retention

<u>Category</u>	<u>Definition</u>
Category A	Trees of high quality with an estimated remaining life expectancy of at least 40 years – shown in light green on plans. <u>1 - Mainly arboricultural qualities</u> – trees that are good examples of the species, especially if rare or unusual; or those that are essential components of groups, formal or semi-formal arboricultural features. <u>2 - Mainly landscape qualities</u> – trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features. <u>3 - Mainly cultural values, including conservation</u> – trees, groups or woodlands of significant conservation, historical, commemorative or other value.
Category B	Trees of moderate quality with an estimated life expectancy of at least 20 years – shown in mid blue on plans <u>1 - Mainly arboricultural qualities</u> – trees that might be included in category A but are downgraded because of impaired condition (e.g. presence of significant but remediable defects) to the extent that they are unlikely to be suitable for retention beyond 40 years; or trees lacking the particular quality necessary for category A designation. <u>2 - Mainly landscape qualities</u> – trees present in numbers, usually growing as groups or woodlands, that attract a higher collective rating than they might as individuals; or groups of trees situated so as to make little visual contribution to the wider locality. <u>3 - Mainly cultural values, including conservation</u> – trees with material conservation or other cultural values.

Category C	Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter under 150mm - shown in grey on plans. <u>1 - Mainly arboricultural qualities</u> – unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories. <u>2 - Mainly landscape qualities</u> – 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 landscape benefits. <u>3 - Mainly cultural values, including conservation</u> – trees with no material conservation or other cultural values.
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Key

10m x 10m parameter

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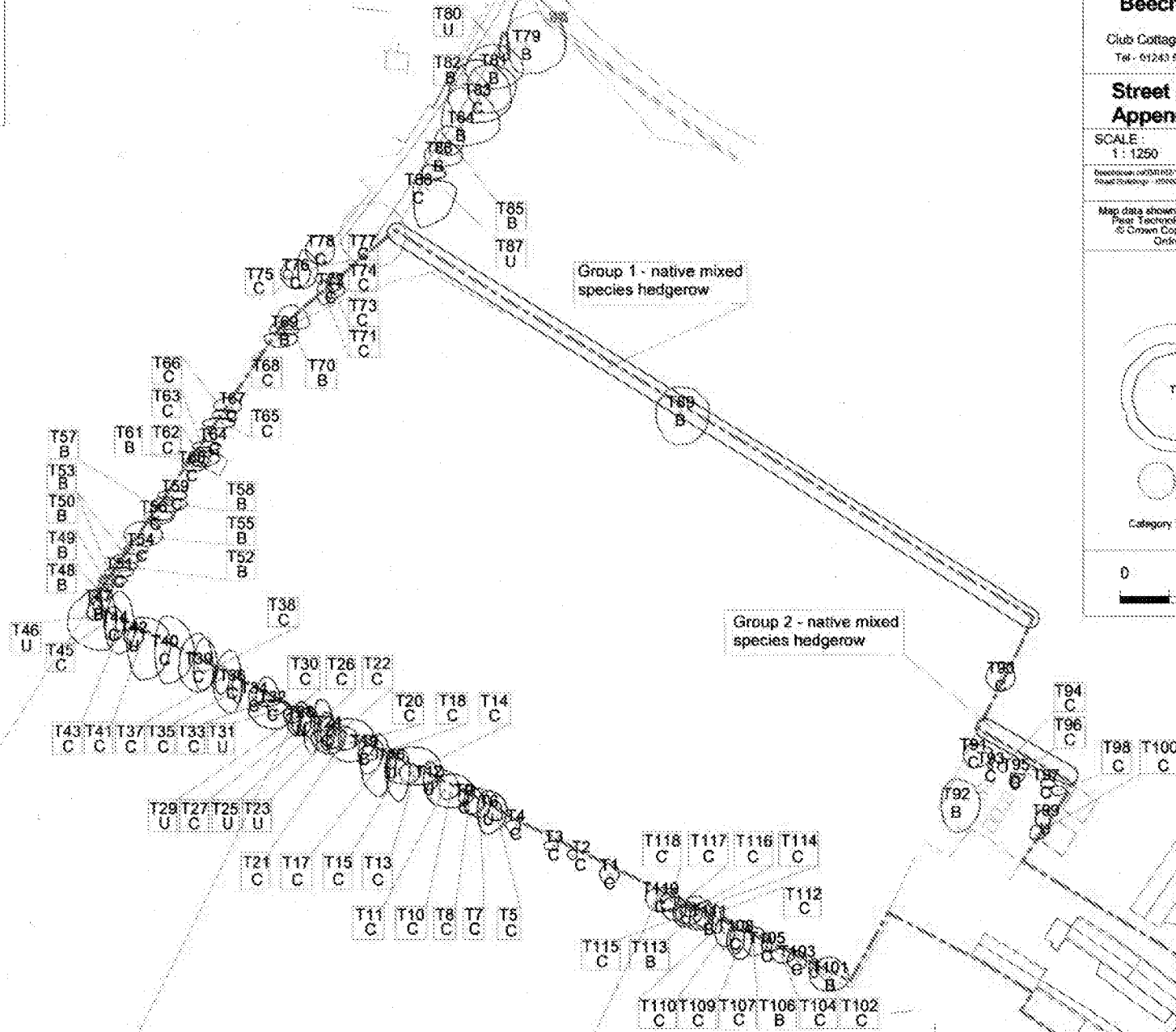
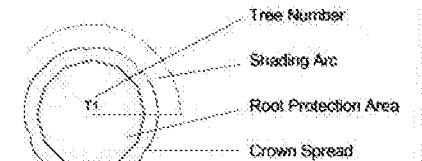
**Street Farm Buildings
Appendix 4 - tree survey plan**

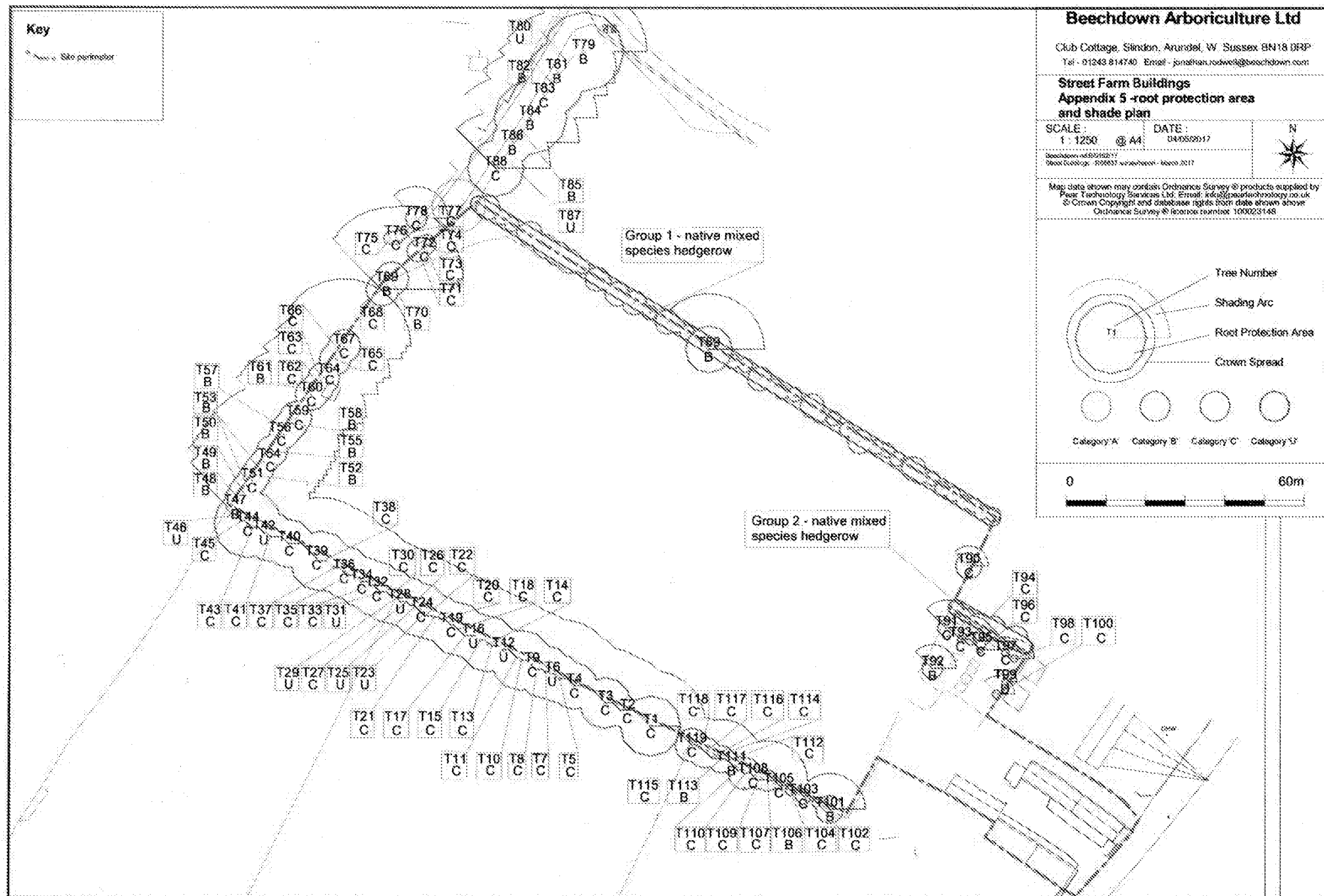
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Beechdown 003010217
Road Surveying - 1000007 Survey Report - March 2017

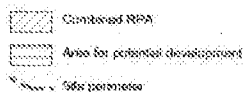


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Key



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Street Farm Buildings
Appendix 6 - potential area for
development beyond RPA of B & C trees

SCALE: 1:1250 @ A4 DATE: 04/05/2017

DATE: 04/05/2017

Street Buildings - 882937 converted March 2017

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