

Arboricultural Report

Land to west of 36 Summerfield Road, Cowplain PO8 8XE

Prepared by

Jonathan Rodwell NCH (Arb.)

March 2013

Beechdown ref: B/0054/13

Summerhill Road – BS 5837 tree survey – March 2013



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Summary:

- **A survey was undertaken to assess the quality of 31 trees;**
- **an area for potential development, beyond the root protection areas of the trees, was identified.**

1.0 INTRODUCTION

- 1.1 Beechdown Arboriculture Ltd has received instruction from Laurence Blake to undertake a survey of the trees on land to the west of 36 Summerhill Road, Cowplain, Hampshire PO8 8XE.
- 1.2 The purpose of the instruction was to:
- **Assess the quality of the trees;**
 - **provide information on the developable area of the site in relation to trees and aid in building design.**
- 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 survey and 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 Copy of Tree Preservation Order No. 2011/2012.

3.0 SITE DESCRIPTION

- 3.1 A rectangular plot of land to the west of 36 Summerhill Road of approximately 0.15 hectares. The site is level but slopes gradually down to the north-west. Partially collapsed outbuildings occupy the northern corner of the site. The immediate wider landscape is suburban with individual trees or small groups as roadside planting, in public open spaces or in domestic settings.

- 3.2 Surveyed trees within the site consisted of 25 English oaks (*Quercus robur*) grouped to the north, 17 of which are subject to Tree Preservation Order 2011/2012; a coast redwood (*Sequoia sempervirens*) and a further English oak were to the south-west. Trees outside the site but included in the survey were an ivy covered group within the grounds of 36 Summerhill Road, consisting of a sycamore, an oak and an ash, and an English oak in the verge at the end of Summerhill Road.
- 3.3 Ground cover consisted of a grassed area of approximately 200m² to the south-east and the remains of cleared brambles and ivy. Further evidence of recent site clearance included the presence of approximately 20 tree stumps in a 6m strip of land parallel to the fence bordering Summerhill Road and other stumps elsewhere within the site.
- 3.4 The site geology is Lambeth group clay, silt and sand sedimentary bedrock while the superficial geology is described by the National Soils Resources Institute as a slowly permeable, seasonally wet, slightly acid but base rich loamy and clayey soil. No further detailed analysis of the soil structure, composition or pH was undertaken.

4.0 SURVEY FORMAT

- 4.1 Trees included in the survey were those 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 only.
- 4.2 Data was recorded on a handheld computer, the trees plotted via GPS and their positions marked on the 1:500 @ A4 tree survey plan (appendix 4).
- 4.3 A detailed tree survey sheet is shown as appendix 1 with an explanation of the terms and categories covered as appendix 2.
- 4.4 The extent of the survey was limited to collecting sufficient data to inform upon development of the site, 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.

5.0 GRADING CATEGORIES

5.1 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.

5.2 The following is a breakdown of the number of trees in each BS category:

- Category U - 1 tree;
- category A - 0 trees;
- category B - 8 trees;
- category C - 22 trees.

5.3 T2, T13, T15-T18, T21-T23 and T27 would have been considered category B/A trees but have been ring-barked and, I understand, treated with a translocated herbicide; regular monitoring will determine their likely survival rate but initially they have been classed as category C trees.

6.0 STATUTORY CONTROLS

6.1 T1 and T2 are subject to Tree Preservation Order No. 2011/2012; 17 of the oaks are protected as G1 under the order. **No tree work should be undertaken without the consent of the local planning authority.**

6.2 Consultation with the Local Planning Authority confirmed that the site is not within a designated Conservation Area.

6.3 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.

7.0 DEVELOPMENT POTENTIAL

7.1 Root Protection Areas (RPAs).

7.1.1 The 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.

- 7.1.2 The RPA calculations are detailed in the appended tree survey and the initial dimensions marked on the 1:500 @ A4 RPA and shade plan (appendix 5).
- 7.1.3 No excavation, construction or routing of service runs should take place within the RPAs of the retained trees; ideally a 2m working margin should be maintained between the RPAs and any proposed development to allow room for construction activity.
- 7.2 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 proposed development;
- 7.3 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.
- 7.4 Appendix 6 shows the potential developable area, outlined in green, beyond the RPA.

8.0 CONCLUSION

- 8.1 An area for potential development, beyond the RPAs of the trees, was identified.
- 8.2 Building design should consider current and future growth potential of the trees particularly in relation to light levels to principle rooms, seasonal nuisance i.e. leaf-fall.
- 8.3 A detailed soil assessment will inform on foundation design which should consider the effects of both retained and removed trees (including existing tree stumps).
- 8.4 In addition to this survey an arboricultural impact assessment, heads of terms method statement and tree protection plan supporting the final design should accompany a planning application.

9.0 REFERENCES

- 9.1 BS 5837: 2012 – Trees in relation to design, demolition and construction – Recommendations

10.0 DETAILS

10.1 Date of tree survey - 21.03.2013

10.2 Present at tree survey - Jonathan Rodwell; Alan Flemington

10.3 Date of report - 22.03.2013

Jonathan Rodwell NCH (Arb.)
Beechdown Arboriculture Ltd

March 2013

BS5837:2012 Assessment

Tree ID : T1

Tag :

Assessor : Jonathan Rodwell

Bats : Unknown

Species : Coast Redwood

TPO : 2011/2012

Inspected : 21 March 2013

Cons Area : Unknown

Sequoia sempervirens

Next Insp : Not Required

1st Branch: 2.5m; north west

Tree Data														Clearance and Spread Data							
Stems				Health				RP		Clearance (m)				Spread (m)							
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
12	1	390	Semi-mature	Fair	Good	Good	Good	B.1	20 to 40 yrs	68.8	4.67	Pre Purchase	N/A	1.5	2	3	2	5	5	4	3

Survey Comment : Top of tree removed at 9m.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T2

Tag :

Assessor : Jonathan Rodwell

Bats : Unknown

Species : Common Oak

TPO : 2011/2012

Inspected : 21 March 2013

Cons Area : Unknown

Quercus robur

Next Insp : Not Required

1st Branch: 2m; south east.

Stems				Health				RP				Clearance (m)				Spread (m)					
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
17	1	630	Semi-mature	Fair	Fair	Poor	Poor	C.1.2	10 to 20 yrs	179.6	7.56	Pre Purchase		7	6	3	5	3	7	7	6

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; moderate to major deadwood throughout crown; pruning wounds; damaged root buttress to west; drill holes present.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T3 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 10m; north	Bats : Unknown Cons Area : Unknown
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-----Stems-----		-----Health-----				-----RP-----		-----Clearance (m)-----				-----Spread (m)-----									
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
17	1	320	Semi-mature	Fair	Fair	Good	Fair	B.1.2	20 to 40 yrs	46.3	3.83	Pre Purchase		6	15	10	15	3	1	3	3

Survey Comment :

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T4 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 7m; north west	Bats : Unknown Cons Area : Unknown
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-----Stems-----		-----Health-----				-----RP-----		-----Clearance (m)-----				-----Spread (m)-----									
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
14	1	395	Semi-mature	Poor	Fair	Fair	Fair	C.1	10 to 20 yrs	70.6	4.74	Pre Purchase		7	12	12	8	8	1	1	9

Survey Comment : Sub-dominant stem removed at base of tree; crown lifted to 10m over neighbouring property.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T5 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 12m; east	Bats : Unknown Cons Area : Unknown
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-----Stems-----		-----Health-----				-----RP-----		-----Clearance (m)-----				-----Spread (m)-----									
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
16	1	230	Semi-mature	Fair	Poor	Fair	Fair	C.2	10 to 20 yrs	23.9	2.75	Pre Purchase		2	2	2	2	1	1	1	2

Survey Comment : Wire attached to outbuilding girdling stem at 2m.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T6 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 1m; west	Bats : Unknown Cons Area : Unknown
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-----Stems-----		-----Health-----				-----RP-----		-----Clearance (m)-----				-----Spread (m)-----									
H (m)	No	Eq Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
16	2	358	Semi-mature	Good	Good	Fair	Fair	B.1.2	20 to 40 yrs	58	4.29	Pre Purchase		3	2	2	2	3	3	4	5

Survey Comment : Moderate deadwood throughout crown.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T7
Species : Common Oak
Quercus robur

Tag :
TPO : 2011/2012

Assessor : Jonathan Rodwell
Inspected : 21 March 2013
Next Insp : Not Required
1st Branch: 5m; north

Bats : Unknown
Cons Area : Unknown

Stems		Health						RP		Clearance (m)				Spread (m)			
H (m)	No	Eq Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
16	2	327	Semi-mature	Fair	Fair	Fair	Fair	B.2	20 to 40 yrs	48.4	3.92	Pre Purchase		5	6	8	5

Survey Comment : Moderate deadwood throughout crown; wire attached to outbuilding girdling stem at 2m.

Tree Comment :

Work Category **Action**
 No action No action

Tree ID : T8
Species : Common Oak
Quercus robur

Tag :
TPO : 2011/2012

Assessor : Jonathan Rodwell
Inspected : 21 March 2013
Next Insp : Not Required
1st Branch: 3m; north

Bats : Unknown
Cons Area : Unknown

Stems		Health						RP		Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
16	1	370	Semi-mature	Fair	Fair	Fair	Fair	B.2	20 to 40 yrs	61.9	4.43	Pre Purchase		3	3	12	4

Survey Comment : Moderate deadwood throughout crown; tree growing within outbuilding.

Tree Comment :

Work Category **Action**
 No action No action

BS5837:2012 Assessment

Tree ID : T9 **Tag :** **Assessor :** Jonathan Rodwell **Bats :** Unknown
Species : Common Oak **TPO :** 2011/2012 **Inspected :** 21 March 2013 **Cons Area :** Unknown
Quercus robur **Next Insp :** Not Required
1st Branch: 4m; west

Stems			Health					RP		Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
15	1	320	Semi-mature	Fair	Fair	Good	Fair	B.2	20 to 40 yrs	46.3	3.83	Pre Purchase		2	2	2	2

Survey Comment : Minor deadwood throughout crown; broken branch stub at 4m.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T10 **Tag :** **Assessor :** Jonathan Rodwell **Bats :** Unknown
Species : Common Oak **TPO :** 2011/2012 **Inspected :** 21 March 2013 **Cons Area :** Unknown
Quercus robur **Next Insp :** Not Required
1st Branch: 6m; south

Stems			Health				RP		Clearance (m)				Spread (m)				
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
12	1	270	Semi-mature	Poor	Fair	Poor	Fair	C.2	10 to 20 yrs	33	3.24	Pre Purchase		3	3	6	3

Survey Comment : Wound at base of tree; minor deadwood throughout crown; multiple pruning wounds; fence post attached to tree.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment																					
Tree ID : T11									Tag :				Assessor : Jonathan Rodwell						Bats :	Unknown	
Species : Common Oak <i>Quercus robur</i>									TPO : 2011/2012				Inspected : 21 March 2013						Cons Area :	Unknown	
													Next Insp : Not Required								
													1st Branch: 2m; south								
-----Stems-----				-----Health-----					-----RP-----				-----Clearance (m)-----				-----Spread (m)-----				
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
11	1	285	Semi-mature	Poor	Poor	Poor	Fair	C.2	10 to 20 yrs	36.8	3.42	Pre Purchase		3	2	5	3	2	6	2	1
Survey Comment : Minor deadwood throughout crown; wire girdling stem at 1m; wound at base of tree .																					
Tree Comment :																					
										Work Category		Action									
										No action		No action									

BS5837:2012 Assessment

Tree ID : T13 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 4m; east	Bats : Unknown Cons Area : Unknown
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Stems			Health							RP		Site Status	Priority	Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)			N	E	S	W	N	E	S	W
20	1	430	Semi-mature	Good	Fair	Fair	Fair	C.1.2	10 to 20 yrs	83.7	5.16	Pre Purchase		2	4	7	1	6	4	5	5

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; some development of woundwood evident in ring-barking.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T14 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 6m; north west	Bats : Unknown Cons Area : Unknown
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Stems			Health						RP		Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	
14	1	400	Semi-mature	Good	Good	Good	Good	B.1.2	20 to 40 yrs	72.4	4.8	Pre Purchase		3	5	7	7	

Survey Comment : Moderate deadwood throughout crown;.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T15 **Tag :** **Assessor :** Jonathan Rodwell **Bats :** Unknown
Species : Common Oak **TPO :** 2011/2012 **Inspected :** 21 March 2013 **Cons Area :** Unknown
Quercus robur **Next Insp :** Not Required
1st Branch: 2m; north west

Stems			Health				RP		Clearance (m)				Spread (m)				
H (m)	No	Eq Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
17	2	311	Semi-mature	Fair	Fair	Poor	Fair	C.2	10 to 20 yrs	43.9	3.73	Pre Purchase		2	2	2	2

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; weak union at base; no developing woundwood bridging ring-barking.

Tree Comment :

Work Category **Action**
 No action No action

Tree ID : T16 **Tag :** **Assessor :** Jonathan Rodwell **Bats :** Unknown
Species : Common Oak **TPO :** 2011/2012 **Inspected :** 21 March 2013 **Cons Area :** Unknown
Quercus robur **Next Insp :** Not Required
1st Branch: 9m; north

Stems				Health				RP				Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W		
18	1	295	Semi-mature	Fair	Fair	Poor	Fair	C.2	10 to 20 yrs	39.4	3.54	Pre Purchase		9	9	9	9		

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; no developing woundwood bridging ring-barking.

Tree Comment :

Work Category **Action**
 No action No action

BS5837:2012 Assessment

Tree ID : T17 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 2m; south west	Bats : Unknown Cons Area : Unknown
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Stems			Health						RP		Clearance (m)				Spread (m)						
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
16	1	500	Semi-mature	Poor	Fair	Poor	Fair	C.2	10 to 20 yrs	113.1	6	Pre Purchase		2	2	2	2	1	1	8	4

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; no developing woundwood bridging ring-barking; growth weighted south; stem to south west shortened.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T18 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 2m; south west	Bats : Unknown Cons Area : Unknown
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Stems			Health							RP		Site Status	Priority	Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)			N	E	S	W	N	E	S	W
19	1	440	Semi-mature	Fair	Fair	Poor	Fair	C.1.2	10 to 20 yrs	87.6	5.28	Pre Purchase		6	7	2	7	3	3	10	6

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; some developing woundwood bridging ring-barking; rope causing bark damage at 2m; major deadwood throughout crown.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment																							
Tree ID : T19						Tag :				Assessor : Jonathan Rodwell				Bats : Unknown									
Species : Common Oak <i>Quercus robur</i>						TPO : 2011/2012				Inspected : 21 March 2013				Cons Area : Unknown									
										Next Insp : Not Required													
										1st Branch: 5m; north													
----- Stems				----- Health				----- RP								----- Clearance (m)				----- Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W		
8	1	145	Young	Poor	Fair	Good	Fair	C.2	20 to 40 yrs	9.5	1.73	Pre Purchase		5	5	5	5	3	1	1	3		
Survey Comment :																							
Tree Comment :																							
						Work Category		Action															
						No action		No action															

BS5837:2012 Assessment

Tree ID : T21				Tag :				Assessor : Jonathan Rodwell				Bats : Unknown									
Species : Common Oak <i>Quercus robur</i>				TPO : 2011/2012				Inspected : 21 March 2013				Cons Area : Unknown									
								Next Insp : Not Required													
								1st Branch: 2m; north east													
Stems				Health				RP				Clearance (m)				Spread (m)					
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
14	1	240	Semi-mature	Poor	Fair	Poor	Fair	C.2	10 to 20 yrs	26.1	2.88	Pre Purchase		4	4	4	4	5	1	1	1
Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; some developing woundwood bridging ring-barking; minor deadwood throughout crown.																					
Tree Comment :																					

BS5837:2012 Assessment

Tree ID : T23 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 3m; north	Bats : Unknown Cons Area : Unknown
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Stems			Health				RP		Clearance (m)				Spread (m)				
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
17	1	235	Semi-mature	Fair	Fair	Poor	Fair	C.2	10 to 20 yrs	25	2.82	Pre Purchase		3	4	4	4

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; some developing woundwood bridging ring-barking.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T24 Species : Common Oak <i>Quercus robur</i>	Tag : TPO : 2011/2012	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 6m; north	Bats : Unknown Cons Area : Unknown
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Stems			Health				RP		Clearance (m)				Spread (m)				
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
9	1	130	Semi-mature	Poor	Fair	Fair	Fair	C.2	20 to 40 yrs	7.6	1.55	Pre Purchase		6	6	6	6

Survey Comment : Branch stub of removed sub dominant stem at 0.5m.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T25	Tag :	Assessor : Jonathan Rodwell	Bats : Unknown
Species : Common Oak <i>Quercus robur</i>	TPO : 2011/2012	Inspected : 21 March 2013	Cons Area : Unknown
		Next Insp : Not Required	
		1st Branch: 4m; north	

Stems		Health				RP		Clearance (m)				Spread (m)									
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
9	1	500	Semi-mature	Poor	Poor	Poor	Fair	C.2.3	10 to 20 yrs	113.1	6	Pre Purchase		3	5	6	5	5	10	2	1

Survey Comment : Main stem reduced at 7.5m; overextending branch to east; sub dominant stem removed; decay and cavity at 1.5m; metalwork and ropes attached to tree.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T26	Tag :	Assessor : Jonathan Rodwell	Bats : Unknown
Species : Common Oak <i>Quercus robur</i>	TPO : 2011/2012	Inspected : 21 March 2013	Cons Area : Unknown
		Next Insp : Not Required	
		1st Branch: 6m; north	

Stems		Health				RP		Clearance (m)				Spread (m)									
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
9	1	170	Semi-mature	Poor	Fair	Poor	Fair	C.2	10 to 20 yrs	13.1	2.04	Pre Purchase		6	7	8	7	2	3	2	1

Survey Comment : Partially ring barked at 1m.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T27	Tag :	Assessor : Jonathan Rodwell	Bats : Unknown
Species : Common Oak <i>Quercus robur</i>	TPO : 2011/2012	Inspected : 21 March 2013	Cons Area : Unknown
		Next Insp : Not Required	
		1st Branch: 2m; east	

Stems		Health				RP		Clearance (m)				Spread (m)									
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
19	1	510	Mature	Good	Fair	Poor	Fair	C.1.2	10 to 20 yrs	117.7	6.12	Pre Purchase		5	5	5	7	10	8	10	3

Survey Comment : Ring-barked at 1m; apical dieback of re-growth from dormant buds below ring-barking; some developing woundwood bridging ring-barking; rope causing damage to bark and woody tissue at 2m .

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T28	Tag :	Assessor : Jonathan Rodwell	Bats : Unknown
Species : Sycamore <i>Acer pseudoplatanus</i>	TPO :	Inspected : 21 March 2013	Cons Area : Unknown
		Next Insp : Not Required	
		1st Branch: 3m; south west	

Estimated Measurements

Stems		Health				RP		Clearance (m)				Spread (m)									
H (m)	No	Eq Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W	N	E	S	W
10	2	250	Semi-mature	Poor	Ivy	Fair	Fair	C.2	10 to 20 yrs	28.3	3	Pre Purchase		4	5	3	4	7	2	5	4

Survey Comment : Twin stemmed, ivy covered tree.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T29 Species : Common Oak <i>Quercus robur</i>	Tag : TPO :	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 2m; south	Bats : Unknown Cons Area : Unknown
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Estimated Measurements

Stems			Health					RP		Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
8	1	180	Semi-mature	Poor	Ivy	Poor	Fair	C.2	10 to 20 yrs	14.7	2.16	Pre Purchase		2	2	2	2

Survey Comment : Part of ivy covered group of trees.

Tree Comment :

Work Category	Action
No action	No action

Tree ID : T30 Species : Common Ash <i>Fraxinus excelsior</i>	Tag : TPO :	Assessor : Jonathan Rodwell Inspected : 21 March 2013 Next Insp : Not Required 1st Branch: 5m;south	Bats : Unknown Cons Area : Unknown
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Estimated Measurements

Stems			Health					RP		Clearance (m)				Spread (m)			
H (m)	No	Eq Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
14	3	333	Semi-mature	Poor	Ivy	Poor	Decline	C.2	10 to 20 yrs	50.1	3.99	Pre Purchase		6	6	4	6

Survey Comment : Part of ivy covered group of trees; dead stem, significant deadwood; wounds symptomatic of ash canker noted on stems and branches.

Tree Comment :

Work Category	Action
No action	No action

BS5837:2012 Assessment

Tree ID : T31

Species : Common Oak
Quercus robur

Estimated Measurements

Tag :

TPO :

Assessor : Jonathan Rodwell

Inspected : 21 March 2013

Next Insp : Not Required

1st Branch: 4m; south west

Bats : Unknown

Cons Area : Unknown

Stems		Health						RP		Clearance (m)				Spread (m)			
H (m)	No	Ø (mm)	Maturity	Crown	Stem	Basal	Phy Con	Cat	ERC	A (m²)	R (m)	Site Status	Priority	N	E	S	W
15	1	260	Semi-mature	Good	Ivy	Good	Fair	B.1.2	20 to 40 yrs	30.6	3.12	Pre Purchase		5	7	3	3

Survey Comment :

Tree Comment :

Work Category	Action
No action	No action

Appendix 2 – tree survey definition of terms

Tree ID/Tag

- o Identification number and/or tree tag number.

Species

- o Common and/or scientific name.

Height/No. of stems

- o To the nearest 0.5m below 10m; to the nearest 1.0m above 10m.

Ø

- o Stem diameter measured at 1.5m or equivalent with reference to Annex C of BS5837:2012.

Crown spread

- o Measured at the cardinal points in metres.

Crown clear

- o Crown clearance in metres above ground level at the cardinal points.

Maturity

- o Newly planted;
- o young – less than approximately 10 years old;
- o semi- mature – less than 1/5 of typical life expectancy;
- o mature – between 1/5 and 5/5 of typical life expectancy;
- o over- mature - a tree having reached its maximum life span and declining in health and size; possible veteran of interest biologically, aesthetically or culturally because of its age, size or condition.

RP

- o Root protection area (m²) and length of radial protection (m).

Physiological condition

- o Good, fair, poor, decline or dead.

Structural condition

- o Crown - good, fair or poor;
- o stem - good, fair or poor;
- o basal area - good, fair or poor.

Cat

- o BS grading category.

ERC

- o Estimated remaining contribution.

Appendix 3 – BS 5837 grading categories

Trees unsuitable for retention

- **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.

- **Category A** – trees of high quality with an estimated remaining life expectancy of at least 40 years - shown in **light green** on plans.
 - 1) *Mainly arboricultural qualities* – trees that are good examples of their species, especially if rare or unusual; or those that are essential components of groups, formal or semi-formal arboricultural features.
 - 2) *Mainly landscape qualities* – trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features.
 - 3) *Mainly cultural values, including conservation* – 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.
 - 1) *Mainly arboricultural qualities* – 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.
 - 2) *Mainly landscape qualities* – 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.
 - 3) *Mainly cultural values, including conservation* – 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.

Appendix 3 – BS 5837 grading categories

- 1) *Mainly arboricultural qualities* – unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.
- 2) *Mainly landscape qualities* – 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.
- 3) *Mainly cultural values, including conservation* – trees with no material conservation or other cultural values.

Beechdown Arboriculture Limited

1 Church Hill, Slindon, Arundel, W. Sussex BN18 0RB
Tel - 01243 814740 Email - jonathan.rodwell@beechdown.com

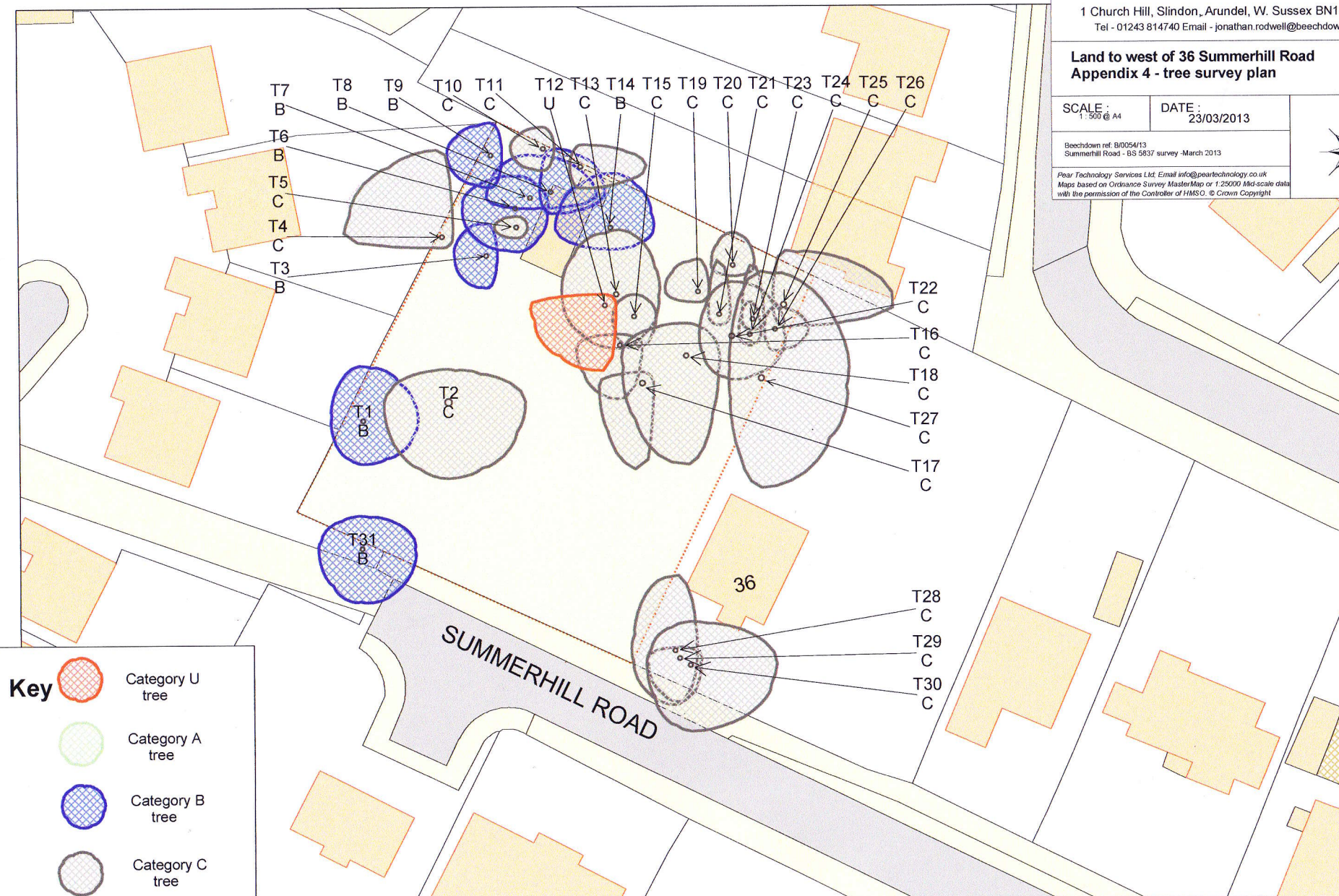
Land to west of 36 Summerhill Road Appendix 4 - tree survey plan

SCALE :
1:500 @ A4

DATE :
23/03/2013

Beechdown ref: B/0054/13
Summerhill Road - BS 5837 survey - March 2013

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- Key**
-  Category U tree
 -  Category A tree
 -  Category B tree
 -  Category C tree

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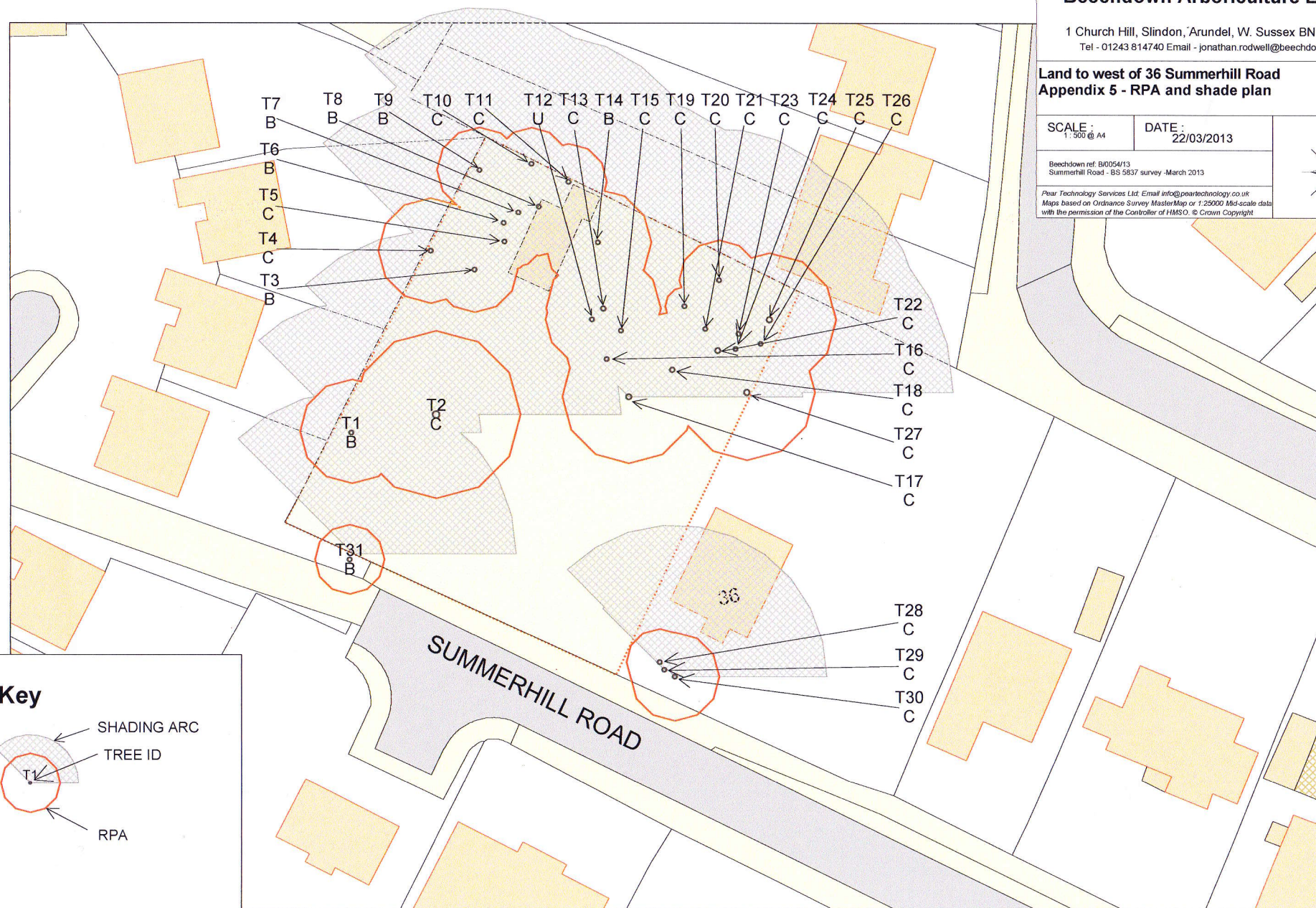
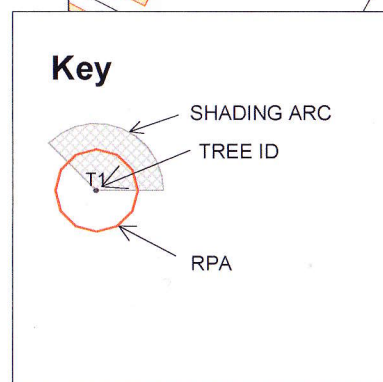
Land to west of 36 Summerhill Road Appendix 5 - RPA and shade plan

SCALE :
1:500 @ A4

DATE :
22/03/2013

Beechdown ref: B/0054/13
Summerhill Road - BS 5837 survey - March 2013

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Land to west of 36 Summerhill Road Appendix 6 - existing area for development

SCALE :
1:300 @ A4

DATE :
22/03/2013

Beechdown ref: B0054/13
Summerhill Road - BS 5837 survey - March 2013

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