

Arboricultural Report
East Drive, Angmering, West Sussex

Prepared by
Jonathan Rodwell NCH (Arb.)

November 2012

Beechdown ref: B/0046/12
Persimmon Homes – East Drive - free survey – November 2012

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1.0 INTRODUCTION

- 1.1 Beechdown Arboriculture Ltd has received instruction from Steve Smith of Persimmon Homes South Coast to undertake a survey of seventeen trees in the verge to the north of East Drive, Angmering, West Sussex.

1.2 The purpose of the instruction was to survey the trees, undertake a basic assessment of their condition and make recommendations accordingly.

2.0 STATUTORY CONTROLS

- 2.1 Before any of the recommended works are undertaken, checks should be made with the Local Planning Authority that there is no statutory protection of the trees.
- 2.2 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 works.

3.0 DOCUMENTS PROVIDED

- 3.1 Persimmon Homes South Coast subcontract order no. **M67/12/A99**

4.0 SURVEY FORMAT

- 4.1 Trees included in the survey were those with a stem diameter at 1.5m high of 75mm or greater.
- 4.2 The trees were inspected from the ground only, no climbing or specialised decay detection was undertaken.
- 4.3 A visual inspection of the trees was undertaken to assess the crowns for any weak structures, deadwood, cavities, poor branch unions or other defects that might affect their stability and safety.
- 4.4 Data was recorded on a handheld computer and the trees were plotted via GPS and are shown at Appendix 5 (1:1500 @ A4).

- 4.5 Detailed tree survey sheets are shown as Appendix 1 with an explanation of the terms and categories covered as Appendix 2.
- 4.6 A summary of recommended work is shown as Appendix 3 and a re-inspection schedule at Appendix 4.
- 4.7 The recommendations are based on good arboricultural practice and the risk of harm or damage that the trees may currently pose to individuals and property NOT on the basis of perceived nuisance such as autumn leaf fall or disruption of light levels to buildings and gardens.

5.0 RISK ASSESSMENT AND SURVEY LIMITATIONS

- 5.1 Although the potential risk to someone passing beneath a tree when the tree, or part of it, fails is relatively remote the risk is present. The risk increases significantly in areas of regular or consistent use, such as gardens, footpaths and roads. Where static structures are present the risks become constant and assessment is made as to whether total or partial failure of a tree could lead to damage of such structures.
- 5.2 Within the scope of any tree survey it is a fact that not all crown or stem failure can be covered, particularly in relation to extreme weather conditions when even healthy trees can suffer structural failure. There is also the potential for mature trees to occasionally shed large branches for no discernible reason, even on calm days. Although a relatively rare occurrence this should be acknowledged as a risk that cannot be entirely mitigated.
- 5.3 Tree appraisals relate to the trees on the day they were inspected. Factors, including biotic (living) i.e. disease, animal damage and vandalism, and abiotic (non-living) i.e. weather, soil conditions and chemicals affecting the trees between the inspection date and the scheduled re-inspection date cannot be accounted for.

6.0 SITE DESCRIPTION

- 6.1 The site is limited to a grass verge of approximately 3000m² between East Drive and 19 detached properties to the north.
- 6.2 The surveyed trees are within the grass verge.

7.0 APPRAISAL

7.1 Details, comments, recommendations and re-inspection dates are listed in the appended survey sheets; tree work recommendations are also detailed below.

8.0 RECOMMENDATIONS

8.1

Tree No.	Species	Recommendations	Priority
T1	Monterey pine	Thin low branches over verge and road and lift secondary small diameter branches to 3m; remove significant deadwood.	6 months
T3	Monterey pine	Reduce tips of subsiding stem at 12m to west by 2m-3m; reduce tips of branches to north and north-east by 3m.	6 months
T4	Monterey pine	Dismantle and fell	3 months
T7	Monterey pine	Crown lift growth at base of tree to 3m over road.	6 months
T14	Monterey pine	Remove significant deadwood.	6 months
T17	Monterey pine	Dismantle and fell	6 months

8.2 The trees should be re-inspected in accordance with Appendix 4 or sooner if there are obvious changes in their condition i.e. storm damage following extremes of weather.

9.0 REFERENCES

- 9.1 Principles of tree hazard assessment and management – D. Lonsdale
- 9.2 Trees of Britain & Northern Europe – A. Mitchell
- 9.3 Fungi on Trees – A Field Guide – G. Watson, T.Green

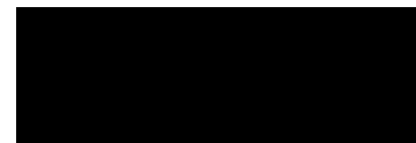
10.0 DETAILS

- 10.1 Date of survey - 31.10.2012
- 10.2 Present at survey - Jonathan Rodwell; Alan Flemington
- 10.3 Date of report - 09.11.2012

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Beechdown Arboriculture Ltd

November 2012

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General Tree Assessment (Detailed)

Tree ID: T1

Monterey Pine
Pinus radiata

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment: Lowest branch to south twisted, reduce weight by thinning and lifting over verge; soil level appears to be marginally raised.

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	14 m	6 m	1	750 mm	Mature			N/A	30-Apr-14	N/A	Fair
Observations	Root	Stem				Branch		Leaf/Bud			
	Increase in soil level	No visual defect				Minor dead wood Low hanging branches		Normal			
Work	Category	Action				Priority					
	Raise low canopy	To 3.0m				6 Months					
	Remove	Major dead wood				6 Months					

Tree ID: T2

Stone Pine
Pinus pinea

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment:

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	8 m	2 m	1	245 mm	Semi-mature			N/A	30-Apr-14	N/A	Good
Observations	Root	Stem				Branch		Leaf/Bud			
	No visual defects	Mower damage				Minor dead wood		Normal			
Work	Category	Action				Priority					
	No action	No action									

General Tree Assessment (Detailed)

Tree ID: T3

Monterey Pine
Pinus radiata

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment: Recent loss of lower limbs to south and higher branch to west; subsidence of stem to west at 12m; upper crown weighted to north; reduce subsiding stem to west by 2m-3m; reduce tips of branches to north and north-east by 3m.

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	15 m	6 m	1	1045 mm	Mature	Unknown		N/A	30-Apr-14	N/A	Varied
Observations	Root	Stem				Branch			Leaf/Bud		
	No visual defects			Stress marks / slime flux			Damage / wounding Minor dead wood Major dead wood Old pruning wounds			Normal	
Work	Category	Action								Priority	
	Reduce crown(s)	By specified percentage (see comment)								6 Months	

Tree ID: T4

Monterey Pine
Pinus radiata

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment: Poor condition; excessively thinned and lifted; multiple large wounds on stem and throughout crown; sparse upper crown; fungal brackets {*Phaeolus schweinitzii*} at 2.5m on north west of stem.

Note: *P.schweinitzii* causes a brown cubical rot resulting in loss of tensile strength that can lead to the brittle fracture of stems or branches even in the early stages of decay.

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	21 m	10 m	2	1200 mm	Mature	Unknown		N/A	31-Jan-14	N/A	Poor
Observations	Root	Stem				Branch			Leaf/Bud		
	No visual defects	Fungus or decay Leaning Old pruning wounds Weak fork Bifurcated				Apical die back Minor dead wood Major dead wood Old pruning wounds			Small / sparse		
Work	Category	Action								Priority	
	Fell	Fell to ground level								3 Months	

General Tree Assessment (Detailed)

Tree ID: T5	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12								
Survey Comment: Historically reduced in height or storm damaged at approximately 12m.											
Details	Height 18 m	Spread 8 m	Stems 1	Ø 995 mm	Maturity Mature	Bat	Con Area	Prev Insp N/A	Next Due 30-Apr-14	QTRA Score N/A	Condition Fair
Observations	Root No visual defects		Stem Old pruning wounds		Branch Major dead wood		Leaf/Bud Normal				
Work	Category No action		Action No action		Priority						

Tree ID: T6	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12								
Survey Comment: Crown weighted to north-east; growth habit suppressed by T5.											
Details	Height 18 m	Spread 8 m	Stems 1	Ø 925 mm	Maturity Mature	Bat	Con Area	Prev Insp N/A	Next Due 30-Apr-14	QTRA Score N/A	Condition Fair
Observations	Root No visual defects		Stem Old pruning wounds		Branch Minor dead wood Old pruning wounds		Leaf/Bud Normal				
Work	Category No action		Action No action		Priority						

Tree ID: T7	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12								
Survey Comment: Prune growth at base of tree to clear highway.											
Details	Height 22 m	Spread 10 m	Stems 1	Ø 950 mm	Maturity Mature	Bat	Con Area	Prev Insp N/A	Next Due 30-Apr-14	QTRA Score N/A	Condition Fair
Observations	Root No visual defects		Stem Old pruning wounds		Branch Minor dead wood Major dead wood Old pruning wounds		Leaf/Bud Normal				
Work	Category See Comment		Action See Comment		Priority 6 Months						

General Tree Assessment (Detailed)

Tree ID: T8	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12
Survey Comment: Suppressed by surrounding trees; growth weighted to north-east.			
Details	Height 13 m	Spread 12 m	Stems 2
	Ø 825 mm	Maturity Mature	Bat
		Con Area	Prev Insp N/A
		Next Due 30-Apr-14	QTRA Score N/A
		Condition Fair	
Observations	Root No visual defects	Stem Leaning Old pruning wounds	Branch Minor dead wood Major dead wood
		Leaf/Bud Normal	
Work	Category No action	Action No action	Priority

Tree ID: T9	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12
Survey Comment: Mower damage to surface roots; evidence of historic root severing at edge of driveway.			
Details	Height 21 m	Spread 6 m	Stems 1
	Ø 975 mm	Maturity Mature	Bat
		Con Area	Prev Insp N/A
		Next Due 30-Apr-14	QTRA Score N/A
		Condition Fair	
Observations	Root Trenching / excavations	Stem Old pruning wounds	Branch Minor dead wood Old pruning wounds
		Leaf/Bud Small / sparse	
Work	Category No action	Action No action	Priority

General Tree Assessment (Detailed)

Tree ID: T10	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12								
Survey Comment: Minor wounds to surface roots consistent with lawnmower damage.											
Details	Height 22 m	Spread 6 m	Stems 1	Ø 770 mm	Maturity Mature	Bat	Con Area	Prev Insp N/A	Next Due 30-Apr-14	QTRA Score N/A	Condition Fair
Observations	Root Damage to buttress roots	Stem Old pruning wounds		Branch Minor dead wood Major dead wood Old pruning wounds		Leaf/Bud Normal					
Work	Category No action	Action No action		Priority							

Tree ID: T11	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12								
Survey Comment: Evidence of stem removal at 4.5m to north-west.											
Details	Height 22 m	Spread 10 m	Stems 1	Ø 1000 mm	Maturity Mature	Bat	Con Area	Prev Insp N/A	Next Due 30-Apr-14	QTRA Score N/A	Condition Fair
Observations	Root No visual defects	Stem Old pruning wounds		Branch Damage / wounding Minor dead wood Old pruning wounds		Leaf/Bud Small / sparse					
Work	Category No action	Action No action		Priority							

General Tree Assessment (Detailed)

Tree ID: T12

Monterey Pine
Pinus radiata

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment: Sparse foliage in upper crown but no significant dieback.

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	24 m	8 m	1	930 mm	Mature			N/A	30-Apr-14	N/A	Fair
Observations	Root	Stem			Branch			Leaf/Bud			
	Trenching / excavations			No visual defect			Minor dead wood Major dead wood Old pruning wounds			Small / sparse	
Work	Category	Action			Priority						
	No action	No action									

Tree ID: T13

Monterey Pine
Pinus radiata

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment: Multiple large pruning wounds on south of main stem; potential for column of decay to coalesce from entry points at pruning wounds; no action necessary at present but close monitoring of tree's condition required.

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	19 m	8 m	1	945 mm	Mature	Unknown		N/A	30-Apr-14	N/A	Poor
Observations	Root	Stem			Branch			Leaf/Bud			
	No visual defects			Old pruning wounds			Minor dead wood Old pruning wounds			Normal	
Work	Category	Action			Priority						
	See Comment			See Comment							

General Tree Assessment (Detailed)

Tree ID: T14	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12								
Survey Comment: Strip of exposed dysfunctional sapwood extends from old pruning wound at 4m down to ground level.											
Details	Height 19 m	Spread 12 m	Stems 1	Ø 1070 mm	Maturity Mature	Bat	Con Area	Prev Insp N/A	Next Due 30-Apr-14	QTRA Score N/A	Condition Fair
Observations	Root No visual defects		Stem Bark wounds Old pruning wounds		Branch Minor dead wood Major dead wood Old pruning wounds		Leaf/Bud Normal				
Work	Category Remove		Action Major dead wood		Priority 6 Months						

Tree ID: T15	Monterey Pine <i>Pinus radiata</i>	Tag: TPO:	Assessor: Jonathan Rodwell Date: 31-Oct-12								
Survey Comment:											
Details	Height 22 m	Spread 8 m	Stems 1	Ø 945 mm	Maturity Mature	Bat	Con Area	Prev Insp N/A	Next Due 30-Apr-14	QTRA Score N/A	Condition Good
Observations	Root No visual defects		Stem Old pruning wounds		Branch Minor dead wood Major dead wood		Leaf/Bud Normal				
Work	Category No action		Action No action		Priority						

General Tree Assessment (Detailed)

Tree ID: T16

Monterey Pine
Pinus radiata

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment: Recently pruned tree; multiple large pruning wounds on stem.

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	22 m	10 m	1	1197 mm	Mature			N/A	30-Apr-14	N/A	Fair
Observations	Root	Stem				Branch			Leaf/Bud		
	No visual defects	Leaning				Minor dead wood			Normal		
	Damage to buttress roots	Old pruning wounds				Old pruning wounds					
Work	Category	Action				Priority					
	No action	No action									

Tree ID: T17

Monterey Pine
Pinus radiata

Tag:
TPO:

Assessor: Jonathan Rodwell
Date: 31-Oct-12

Survey Comment: Lowest 3 branches only with normal healthy foliage, remaining growth sparse and with significant dieback; trenching and excavation at base of tree; fungal fruiting body (*Phaeolus schweinitzii*) noted on ground at base of tree.

Details	Height	Spread	Stems	Ø	Maturity	Bat	Con Area	Prev Insp	Next Due	QTRA Score	Condition
	18 m	6 m	1	985 mm	Mature	Unknown		N/A	31-Jan-14	N/A	Poor
Observations	Root	Stem				Branch			Leaf/Bud		
	Fungus or decay Trenching / excavations	Old pruning wounds				Apical die back Minor dead wood Major dead wood			50% dead / absent		
Work	Category	Action				Priority					
	Fell	Fell to ground level				6 Months					

Appendix 2 – Explanatory sheet

Tree ID	- identification number.
Species	- common and scientific name.
Height	- in metres.
Spread	- radial crown spread in metres.
Stems	- single or multi-stemmed.
Ø	- stem diameter measured at 1.5m or immediately above root flare of multi stemmed trees, in millimetres.
Maturity:	
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.
Bat	- potential bat roost.
Con. area	- trees within conservation area.
Previous inspection	- date of last inspection.
Next due	- date of next inspection.
QTRA score	- Quantified tree risk assessment score.
Condition	- good, fair or poor.
Observations	- of root, stem, branches and foliage/buds

Tree Survey Work Analysis Summary

Tree Summary

Common Name	Species	No of Trees of each Type
Monterey Pine	<i>Pinus radiata</i>	16
Stone Pine	<i>Pinus pinea</i>	1
Total Number of Trees		17

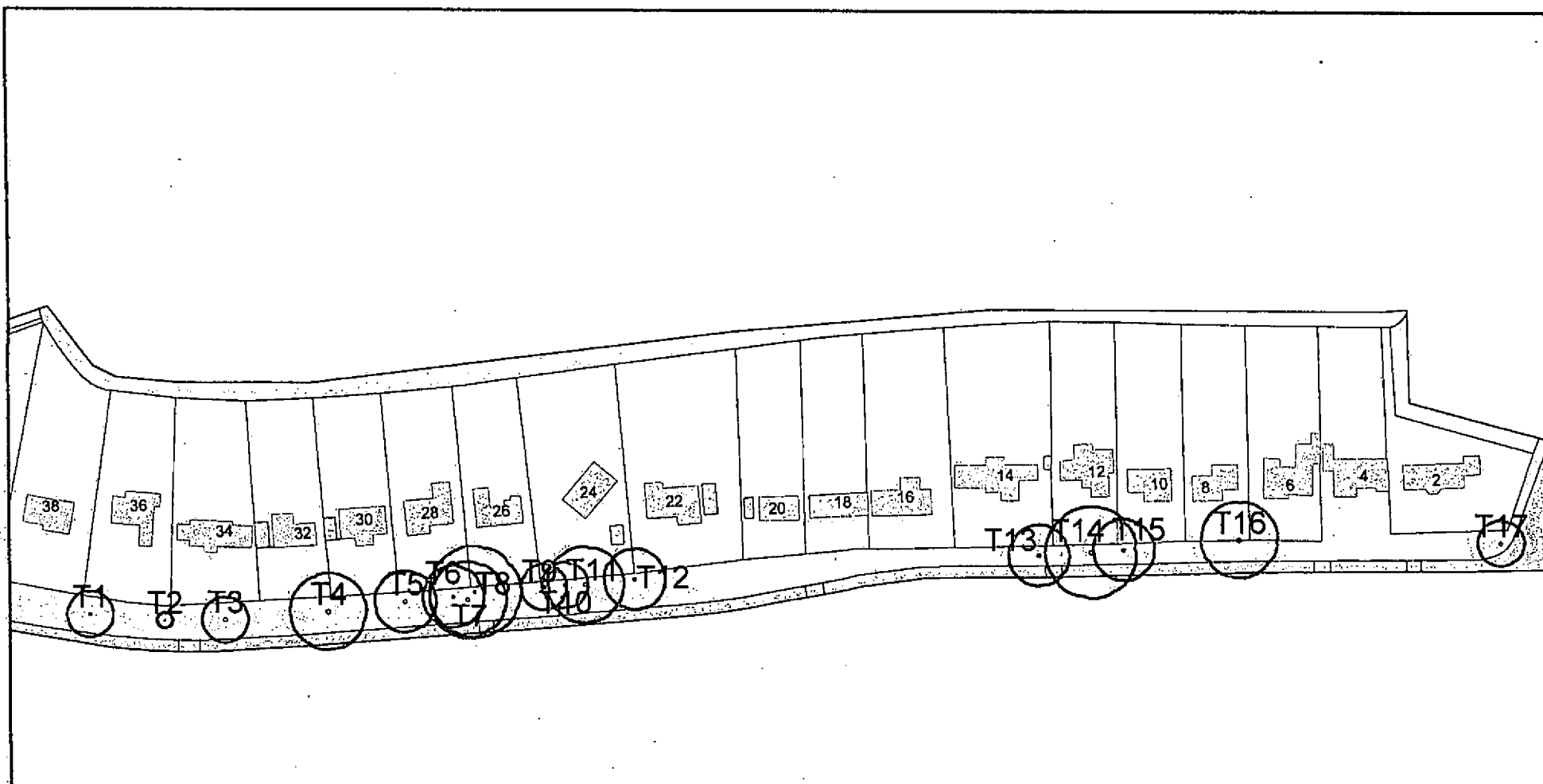
WorkSummary

Work Description	No of Trees Requiring Work
Fell	2
No action	10
Raise low canopy	1
Reduce crown(s)	1
Remove	2
See Comment	2

1 Church Hill
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 West Sussex
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Tree Survey Re-Inspection Due Dates

Tree Ref			Previous Insp	Re-Insp Due
T1	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T2	Stone Pine	<i>Pinus pinea</i>	31/10/2012	30/04/2014
T3	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T4	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	
T5	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T6	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T7	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T8	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T9	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T10	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T11	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T12	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T13	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T14	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T15	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T16	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	30/04/2014
T17	Monterey Pine	<i>Pinus radiata</i>	31/10/2012	



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East Drive, Angmering, West Sussex
Appendix 5

SCALE:
1:1500

DATE:
09/11/2012



Beechdown ref: B004M/2
Perkins Hill - East Drive - survey - November 2012

Plan Technology Services Ltd: Email info@planttechnology.co.uk
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