May 2017
CBA10728 v2

Mr Frank Abu

ARBORICULTURAL DEVELOPMENT STATEMENT

Site:
56 Lakewood Road,
Chandlers Ford,
SO53 5AA

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The Complete Arboricultural Consultancy

CBA10728

ARBORICULTURAL STATEMENT

Client:	Mr Frank Abu
Site:	56 Lakewood Road, Chandlers Ford, SO53 5AA
Arboricultural Consultant:	James Fuller *FdSc.Arb, BTEC Nat.Dip.Arb, M.Arbor.A*
Date:	May 2017

SUMMARY

The proposal is for the construction of a new rear and side extension at the site of 56 Lakewood Road, Chandlers Ford, SO53 5AA.

This Arboricultural Statement demonstrates the protection measures for the retained trees and should be read in association with the Tree Protection Plan CBA10728.02A TPP. This report follows the initial tree survey, implications assessment and on-going discussions to minimise the impact upon the existing tree stock.

The emphasis of the report is predominantly that of preservation and tree protection. It identifies methodologies to provide protection for trees, to ensure their healthy and safe retention during and post development, as guided by BS5837:2012 and current best practice.

A total of 18 (eighteen) individual trees, 1 group of trees and 3 (three) hedges can be retained within the site as detailed within this report.

There is 1 (one) tree (Tree 14) that will be removed.

CBA Trees believes that the trees highlighted for retention within this report can be retained without undue stress on their long-term health.

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CB1 Tree Survey Schedule and Tree Survey Plan CBA10728.01 TSP
CB2 Root Protection Area Schedule
CB3 Tree Protection Plan CBA10728.02A TPP
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CB5 Tree Protection Guidance Leaflet
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PART 1
ARBORICULTURAL IMPLICATIONS ASSESSMENT

1.0 INTRODUCTION

1.1 There is a planning application for the site of 56 Lakewood Road, Chandlers Ford, SO53 5AA. The site is located on the north-east corner of Lakewood Road and Hiltingbury Road.

1.2 The proposal is for the demolition of an existing rear link-attached building and the construction of a front, rear and side extension to the existing dwelling.

1.3 Document disclosure provided:

- Topographical Site Survey (Ref 2081/01_01_F)
- Proposed design layout by MDT Design (Ref 2081/01_01_H)

1.4 The client provided the original site plans and locations of the trees, and these have been the basis for the production of subsequent plans. Whilst CBA Trees has had a limited input in defining the contents of the development plan, it broadly conforms to the requirements of BS5837:2012 *"Trees in Relation to Design, Demolition and Construction – Recommendations"* and current best practice advice.

1.5 Our advice has been sought on the principles of the development in relation to the potential impact on the existing tree stock, to inform and to facilitate the development layout that is acceptable in arboricultural terms.

2.0 CLIENT'S BRIEF

2.1 In line with our written quotation and verbal instructions, information has been compiled in accordance with BS5837:2012 and current best practice advice.

- To undertake a Tree Survey, appended at CB1.
- To produce a Tree Survey Plan that relies on the accuracy of the topographical survey provided by the client (Plan CBA10728.01 TSP appended with the tree survey schedule at CB1).
- To produce a schedule of Root Protection Areas in accordance with BS5837:2012 Annex D, appended at CB2.
- To undertake an Arboricultural Implications Assessment (AIA) of the proposed design layout provided by MDT Design to identify which trees will be lost, which can be retained and suggest mitigating build techniques in order to retain trees.
- Based on the above and further on-going discussions, to provide an Arboricultural Statement detailing the methodologies for the retention of the tree stock where feasible, in relation to the proposed design layout including a Tree Protection Plan (CBA10728.02A TPP) appended at CB3.

2.2 The advice provided is in support of the current planning application and has been formulated without discussion with the main construction contractors who at this stage have not been appointed. Once the main contractors are appointed, amendments to this Method Statement may be required for construction purposes.

All amendments will be assessed by the retained arboricultural consultant and approved in writing by Eastleigh Borough Council.

3.0 DESCRIPTION OF THE SITE

3.1 The site is a large corner plot with a detached 6-bedroom dwelling located in the middle of the site. The site has large gardens to the front, rear and side of the house. There are a number of trees located on the site, mainly towards the boundary, with the exception of 4 (four) trees located in the middle of the rear garden.

3.2 **Photograph 1:** A view of the front of 56 Lakewood Road



3.3 **Photograph 2:** A view of the rear of 56 Lakewood Road



4.0 THE TREE STOCK

4.1 A tree survey was undertaken by CBA Trees on the 27th February 2017 that identified 19 (nineteen) individual trees, 1 (one) group of trees and 3 (three) hedges. The Tree Survey Schedule and Tree Survey Plan (CBA10728.01 TSP) are appended at CB1.

4.2 ***Tree Categorisation Method***

Category U = Trees in such a condition that any value would be lost within 10 years, or should be removed for reasons of sound arboricultural management. There were no 'U' grade trees on or adjacent to the site at the time of surveying.

Note: BS5837:2012 states -
"Category U trees are those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years."

Category A = Trees of high quality and value: in such a condition as to make a substantial contribution, (40 years or more is recommended). There were no individual 'A' grade trees on or adjacent to the site at the time of surveying.

Category B = Trees of moderate quality and value, capable of making a significant contribution for in excess of 20 years. There were 11 (eleven) individual 'B' grade trees and 1 (one) 'B' grade group of trees on or adjacent to the site at the time of surveying (Trees 1, 2, 3, 5, 6, 7, 8, 10, 11, 13 and 15 and Group 1).

Category C = Trees of low quality and value which might remain for a minimum of 10 years or young trees with stems of less than 150mm diameter. There were 8 (eight) individual 'C' grade trees and 3 (three) hedges on or adjacent to the site at the time of surveying (Trees 4, 9, 12, 14, 16, 17, 18 and 19 and Hedges 1-3).

Note:
Trees under these categories are trees that should be a material consideration in the development process; the subcategories are intended to reflect arboricultural, landscape and cultural values respectively.

4.3 For more details of the existing tree stock, refer to the Tree Survey Schedule (appended at CB1).

5.0 TREE PRESERVATION ORDER/CONSERVATION AREA

5.1 Following consultation with Eastleigh Borough Council's website, CBA Trees has been made aware that the site is not located within a Conservation Area.

5.2 Following consultation with Eastleigh Borough Council, CBA Trees has been made aware that Trees 2, 5, 6, 7, 8, 9, 11, 13, 15 and 16 and 3 (three) trees within Group 1 are protected by a Tree Preservation Order (Ref TPO 250-e). If it is intended to carry out works to these trees prior to the granting of Full Planning Consent and Discharge of Planning Conditions or, in excess of those shown within this statement, it will be necessary to obtain written consent from Eastleigh Borough Council.

6.0 PROPOSED TREE RETENTION AND TREE LOSS

6.1 In accordance with the recommendations contained within BS5837:2012, an experienced arboriculturist has assessed the requirements for tree protection and the Root Protection Area (RPA). The implications of the proposed development are detailed below, along with any mitigating measures to ensure the retention of these trees.

6.2 As part of the assessment, dimensions have been scaled from the proposed site plan drawing (Ref 2081/01_01_H) by MDT Design, which has now been prepared and modified, to include the relevant Tree Survey data and the information as shown on Plan CBA10728.02A TPP, appended at CB3.

6.3 We have been advised by the client that Tree 14 shall be removed as this tree is not protected by a TPO or located within a Conservation Area.

7.0 SUMMARY OF ARBORICULTURAL IMPLICATIONS

7.1 The following summary of implications relates to only those trees that will require mitigation measures to allow for construction operations.

Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
1 2 3 4	Scots Pine Scots Pine Scots Pine Scots Pine	B B B C	• Demolition and construction works in close proximity to trees.	• Retained. • Damage to trunk, branches or RPA during site works.	• Tree Protection Barrier to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP.
5	Common Beech	B	• Existing gravel drive within RPA. • Contractor access within RPA. • Proposed side extension encroaches into RPA	• Retained. • Damage to trunk, branches or RPA during site works.	• Tree Protection Barrier to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP. • Existing compacted gravel drive to be retained. Will provide sufficient hard surface within RPA as it is already being used as a drive. • The proposed footprint of the side extension encroaches into the RPA of Tree 5. The encroachment is minimal and not considered to be significant. The excavations should be carried out by hand under the supervision of the retained arboricultural consultant.

PART 1
ARBORICULTURAL IMPLICATIONS ASSESSMENT

Tree No.	*Species*	*BS 5837:2012 Cat*	*Potential cause of harm*	*Implication*	*Mitigation*
6 7	Common Beech Pedunculate Oak	B B	• Existing site access located between the two trees.	• Retained. • Damage to trunk, branches or RPA during site works.	• Existing compacted gravel drive to be retained. Will provide sufficient hard surface within RPA as it is already being used as a drive. • Tree Protection Barrier to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP.
8 9 10 11 12 13	Oak Sweet Chestnut Common Beech Common Beech Sycamore Sweet Chestnut	B C B B C B	• Demolition and construction works in close proximity to trees.	• Retained. • Damage to trunk, branches or RPA during site works.	• Tree Protection Barrier to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP.
15	Norway Spruce	B	• Demolition of existing building and construction of proposed extension on edge of RPA	• Offsite tree, retained • Damage to trunk, branches or RPA during site works.	• Tree Protection Barrier and Ground Protection to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP.
16	Silver Birch	C	• Demolition of existing building and construction of proposed extension on edge of RPA	• Offsite tree, retained • Damage to trunk, branches or RPA during site works.	• Tree Protection Barrier and Ground Protection to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP.
17 18 19	Cypress Magnolia Bull Bay	C C C	• Contractor parking, Mixing of chemicals, Construction works in close proximity to trees	• Retained. • Damage to trunk, branches or RPA during site works.	• Tree Protection Barrier to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP.

PART 1
ARBORICULTURAL IMPLICATIONS ASSESSMENT

Tree No.	*Species*	*BS 5837:2012 Cat*	*Potential cause of harm*	*Implication*	*Mitigation*
Grp 1 H1 H2 H3	Mixed Species Mixed Species Mixed Species Mixed Species	B C C C	• Contractor parking, Mixing of chemicals, Construction works in close proximity to trees	• Retained. • Damage to trunk, branches or RPA during site works.	• Tree Protection Barrier to be erected as detailed in Section 11 of this report in the location specified on the Tree Protection Plan CBA10728.02A TPP.

8.0 PRE-COMMENCEMENT SITE MEETING

8.1 It is recommended that a pre-commencement site meeting is held prior to any works commencing on site, to agree all approved processes with the arboricultural consultant, the construction personnel and Eastleigh Borough Council. This meeting could be used to formally agree the methods of work, position of site offices, material storage, compounds, parking and tree protection measures prior to commencement of the development and the associated clearance work.

8.2 **General Site Management:** It is the developer's responsibility to ensure that the details of this arboricultural statement and any agreed amendments are known, understood and carried out by all site personnel.

9.0 ADDITIONAL ARBORICULTURAL ADVICE FOR SITE PERSONNEL

9.1 To provide site personnel with additional information regarding the requirements of Tree Protection, a leaflet (appended at CB5) shall be issued to all staff at the time of their site induction. Spare copies of this leaflet shall be available in the site office as replacements.

9.2 In order to inform site personnel of the purpose of the barriers, information notices shall be fixed to the barriers at 5m intervals. These notices shall be of all-weather construction and shall be substantially in the form of the specimen provided at appendix CB5 and replaced as and when necessary.

10.0 PRE-COMMENCEMENT TREE WORKS

10.1 All tree works will be undertaken prior to the commencement of site preparation and construction works.

10.2 **All permitted or proposed tree work** should be carried out in accordance with the British Standard *"Recommendations for Tree Work"* BS3998:2010, by suitably qualified and experienced professional arborists. Under no circumstances shall site personnel undertake any tree pruning operations. All tree surgery works should be carried out prior to the development of the site, and erection of protective barriers.

10.3 If any works are required to the retained trees protected by a TPO (Trees 2, 5, 6, 7, 8, 9, 11, 13, 15 and 16 and Grp 1 – Larch, Oak and Sycamore), prior to full planning permission being granted, written approval must be obtained in advance from Eastleigh Borough Council.

10.4 Consideration should be given to the timing of the proposed tree works to avoid the active growing period of trees. Therefore, all tree work should ideally be carried out during the dormant period from November through to February and then again from June to August.

10.5 Due to the official bird nesting season considered to be from 1st March through to the 31st July (Natural England) depending on weather conditions, consideration must also be given to the potential for nesting birds. Therefore if tree work is to be carried out within June, July or August the project ecologist must be consulted to:

- Complete or advise on a pre-works survey which needs to be carried out by a suitably competent person. As a general rule, it should be assumed that birds will be nesting in trees, and it is down to contactors to assess, record and confirm that any works carried out in the management of trees and other vegetation has not disturbed actively nesting birds*.

10.6 Should additional tree works become apparent during the construction process; written consent will be required from Eastleigh Borough Council prior to these additional works being undertaken.

10.7 All tree works that are required to facilitate the development are detailed within the Pre-Commencement Tree Works Schedule appended at CB4.

11.0 TREE PROTECTION MEASURES

11.1 *Tree Protection*

Before starting works on site, tree protection will be installed in accordance with Tree Protection Plan CBA10728.02A TPP (appended at CB3). This will occur immediately following the completion of tree works and prior to any site preparation works starting.

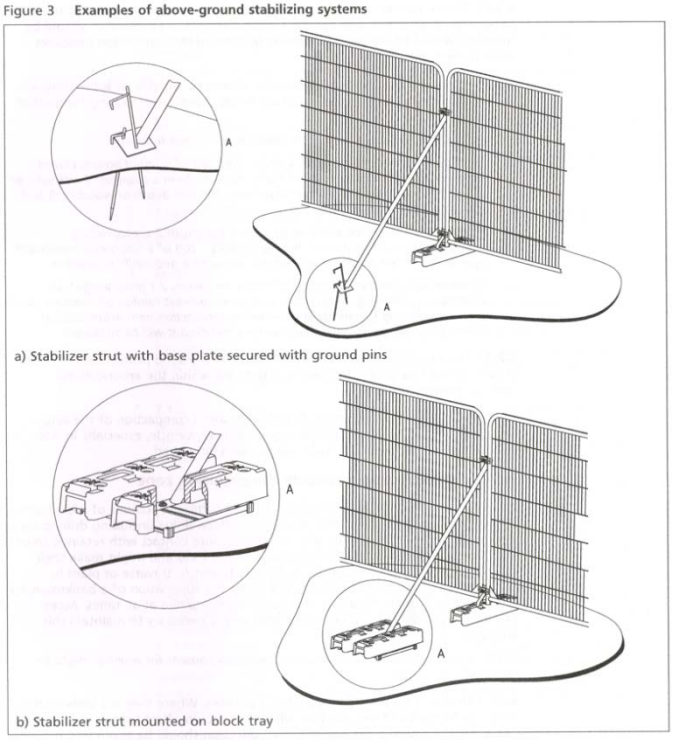
It is recommended that a copy of the Tree Protection Plan is displayed in a visible location to act as a point of reference for all site operatives.

11.2 *Tree Protective Barrier*

All the retained trees are adjacent to areas of demolition and construction activity. It is thought that due to the low impact nature of the construction works it will be reasonable to use 2m tall welded mesh panels on rubber or concrete feet, joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the barrier. The distance between the couplers should be at least 1m and be uniform throughout the barrier. The panels should be supported on the inner side by stabilizing struts, which should be attached to a base plate and secured with ground pins.

Figure 1:
Example of weld mesh panels and ground stabilising systems taken from BS5837:2012 (shown on next page)

Figure 3 Examples of above-ground stabilizing systems



Once the barriers are in place they must remain *in-situ* throughout the following:

- Contractor occupancy
- Plant and Materials delivery
- Construction works
- Installation of porous surfacing
- Utility installation
- Completion of development
- Landscaping

The area within the Tree Protection Barriers shall be known as the Construction Exclusion Zone (CEZ) and will be regarded as **sacrosanct.** The tree protective barriers shall not be taken down or relocated at any time without the written approval of Eastleigh Borough Council. An example of a CEZ notice is appended at CB5.

11.3 *Ground Protection*

Trees 15 and 16 require construction activity within the identified Root Protection Area (RPA). Ground protection will be implemented for these trees as detailed on the Tree Protection Plan CBA10728.02A TPP appended at CB3.

This method will consist of inter-linked ground protection boards, supported on a 150mm thick layer of composted woodchip, which is prevented from mixing with the underlying soil by geotextile separation layer (see Figure 2, shown on next page)

Figure 2:



12.0 AVOIDING DAMAGE TO STEMS AND BRANCHES

12.1 Care shall be taken when planning site operations, to ensure that wide or tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact could result in serious damage to them, and might make their safe retention impossible. Consequently, any transit or traverse of plant in close proximity to trees, will be conducted under the supervision of a banksman, in order to ensure adequate clearance from trees is maintained at all times.

13.0 SITING OF TOILETS AND MATERIAL STORAGE COMPOUNDS

13.1 It is anticipated that all storage of materials and deliveries shall make use of the existing access and hard surfaces within the site confines, in order to avoid unnecessary damage to tree roots.

13.2 The locations for the delivery, storage and movement of all essential facilities, as well as aspects such as temporary contractor vehicle parking and site location of chemical mixing (e.g. concrete), will be outside of the RPAs, and avoid areas where 'run off' of chemicals may flow into RPAs.

13.3 ***Material Storage***

This shall be accommodated outside of the CEZ, particularly to avoid harmful spillages of fuel, or phytotoxic substances that may damage the health of retained trees.

14.0 GENERAL CONSIDERATIONS WITHIN AND OUTSIDE THE CONSTRUCTION EXCLUSION ZONE

14.1 Inside the CEZ formed by the protective barrier and ground protection measures, the following prohibitions shall apply:

- No construction activity will occur within the CEZ unless otherwise stated in this report, or agreed in writing with Eastleigh Borough Council prior to the specific activity taking place.

14.2 In addition to the above, further precautions are necessary adjacent to trees outside the CEZ:

- Materials, which will contaminate the soil e.g. concrete mixing, diesel, oil and vehicle washings, shall not be discharged within 10 metres of the tree stem, branches, foliage or RPA. This should take into consideration the topography of the site, to avoid liquids such as concrete washings running downhill towards the retained trees.

- Fires shall not be lit in a position where their flames can extend to within 10 metres of foliage, branches or trunk. This will depend on the size of the fire and the wind direction.

- Notice boards, telephone cables or other services shall not be attached to any part of the tree. (See appendix CB5 Common Causes of Damage During Construction Works)

15.0 CONCLUSIONS

15.1 The proposals for the construction of a new rear and side extension at the site of 56 Lakewood Road, Chandlers Ford, SO53 5AA have been assessed broadly in accordance with BS5837:2012 *"Trees in Relation to Design, Demolition and Construction – Recommendations"*.

15.2 It is our opinion that the trees identified for retention can be afforded due respect and provided adequate protection, ensuring their safe and healthy retention during the development process.

15.3 A total of 18 (eighteen) individual trees, 1 group of trees and 3 (three) hedges can be retained within the site as detailed within this report. There is 1 (one) tree (Tree 14) that will be removed.

15.4 Provided the recommendations included within this report are strictly adhered to, CBA Trees believes the trees highlighted for retention within this report can be retained without undue stress on their long-term health.

16.0 CONTACT LIST

16.1 It is suggested that points of contact and lines of communication are established prior to commencement of the works on site including:-

- Arboricultural Consultant
- Project Architect
- Highways Engineer
- Structural Engineer
- Drainage Engineer
- Landscape Architects
- Eastleigh Borough Council's Tree Officer
- Eastleigh Borough Council's Planning Case Officer
- Site Supervisor and Foreman

16.2 It is advised that the site supervisor establishes their own listing of contact details at the pre-start site meeting, and displays this in their office for general use as necessary.

17.0 BIBLIOGRAPHY

- British Standard 5837:2012 –
  "Trees in Relation to Design, Demolition and Construction - Recommendations"
- British Standard 3998:2010 –
  "Recommendations for Tree Work"
- National Joint Utilities Group Publication Volume 4 –
  "Guidelines for the planning, installation and maintenance of utility services in proximity to trees"
- Wildlife and Countryside Act 1981
- Conservation of Habitats and Species Regulations 2010 (as amended)
- Town and Country Planning Acts


CB1

The Professional Arboricultural Consultancy

TREE SURVEY NOTES

This Tree Survey has been undertaken within the recommendations of British Standards 5837:2012 and current arboricultural best practice.

- Each tree has been numbered and, where instructed, for future identification on site, has been tagged using small durable metal or plastic tags.
- Due to variations of existing ground levels through the site, height dimensions are estimated and are given in metres. Accurate heights, measured with the aid of optical instruments can be provided where instructed.
- Trunk/stem diameters are measured in mm at 1.5 metres above ground level, using a standard measuring tape as defined by British Standards, unless otherwise stated.
- Estimated branch spread is taken in metres from the centre of the trunk, at the four cardinal points of a compass, to achieve an accurate representation of the crown shape which will be recorded on the tree survey plan.
- An assessment of a tree's age classification is made in terms of its maturity within the site's landscape and defined as:

  Y = young trees
  SM = semi-mature trees
  EM = early mature trees
  M = mature trees
  OM = over-mature trees

- An assessment of a tree's physiological condition is defined as:

  Good = fully functioning biological system showing average vitality i.e. normal bud growth, leaf size, crown density and wound closure
  Fair = fully functioning biological system showing below average vitality i.e. reduced bud growth, smaller leaf size, lower crown density and reduced wound closure
  Poor = a biological system with limited functionality showing significantly below average vitality i.e. limited bud growth, small and chlorotic leaves, low crown density and limited wound closure
  Dead = dead

- An assessment of a tree's structural condition is defined as:

  Good = no significant structural defects
  Fair = structural defects which could be alleviated through remedial tree surgery or management practices
  Poor = structural defects which cannot be alleviated through tree surgery or management practices
  Dead = dead

- An assessment of a tree's future life expectancy is defined as: **<10, 10+, 20+ or 40+ years.**

Categorisation of Trees

The category for each tree is assessed using the recommendations of BS5837:2012. The assessment has not considered any site-specific development proposals, but will have considered any changes on or off-site which may have an effect on the conditions surrounding the surveyed trees.

The trees have been classified into one of the following categories (and one or more sub-categories [this will however not increase the value of the tree]) and are indicated on the associated drawings by colours as indicated.

Category U				Identification colour on plan
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	• Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) • Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline • Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality			**DARK RED**
Category A	1 – Mainly arboricultural values	2 – Mainly landscape values	3 – Mainly cultural values	Identification colour on plan
Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands, of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	**LIGHT GREEN**
Category B	1 – Mainly arboricultural values	2 – Mainly landscape values	3 – Mainly cultural values	Identification colour on plan
Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are down-graded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation value or other cultural value	**MID BLUE**
Category C	1 – Mainly arboricultural values	2 – Mainly landscape values	3 – Mainly cultural values	Identification colour on plan
Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value	**GREY**

Clients are advised that Tree Surveys are a basic data collection exercise and record of tree condition at the time of survey. This will identify any visible signs of ill-health or major defects, advising a further detailed investigation where appropriate. This will most often take the form of a request for either "*full ground level inspection"* or "*climbing inspection required".* There may also be a further reference to the need for "*decay detection equipment"* to aid diagnosis. A tree survey does not include a comprehensive schedule or specification of remedial tree works, but may contain a guide to the work which might be undertaken by a prudent tree owner, purely for reasons of health and safety.

A Tree Survey should not be confused with a Tree Inspection or Arboricultural Implication Assessment, which are totally separate exercises.

Site:	56 Lakewood Road, Chandlers Ford, SO53 5AA
Date:	27th February 2017
Consultant:	James Fuller *FdSc.Arb, BTEC Nat.Dip.Arb, TechArbor.A*
Tagged:	No

TREE SURVEY REPORT (BS5837:2012)

Notes:-

1. It may be advised that some trees should have the ivy removed to enable a re-survey to be carried out. This would also alleviate the tree from becoming suppressed; carrying additional weight that increases the chance of windthrow due to a larger dense crown area; and only receiving restricted light. Unless otherwise stated, in order to prevent regrowth, it is only necessary to remove a 300mm section of ivy and clear around the base.
2. It may be advised that it was only possible to estimate the diameter of some trees because of ivy smothering, dense vegetation, or trees located off-site with no access.
3. The estimated remaining contribution in years, and the tree grading category have been calculated for the current situation and may alter where further investigation works are advised.
4. Some trees or groups may have been given an interim grade. The reason for the interim grading is addressed in the timescales given as this may have a bearing on health and safety and/or any development proposals.
5. Tree Groups have been assessed with estimated and representative data.
6. This is not a Tree Works Schedule. Any preliminary management recommendations are listed in the interests of health and safety and should be carried out by a prudent tree owner.
7. Any management recommendations are suggested for reasons of health and safety only, regardless of development proposals at this stage. However, the defects requiring remedial tree surgery are by their very nature potential wildlife habitats, including protected species which needs consideration prior to any tree surgery works commencing.

TREE PRESERVATION ORDER/CONSERVATION AREA:
Eastleigh Borough Council has confirmed that some of the trees are protected by Tree Preservation Order TPO 250-e (see trees annotated in red).

Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
1	Scots Pine *Pinus sylvestris*	20	S	520	6.0	3.0	0.0	2.0	4.0	8.0	-	8.0	EM	Good	Good Trunk and crown shape distorted due to group pressure Ivy on trunk and in crown Minor deadwood in crown	None required at time of survey	20+	B1+2

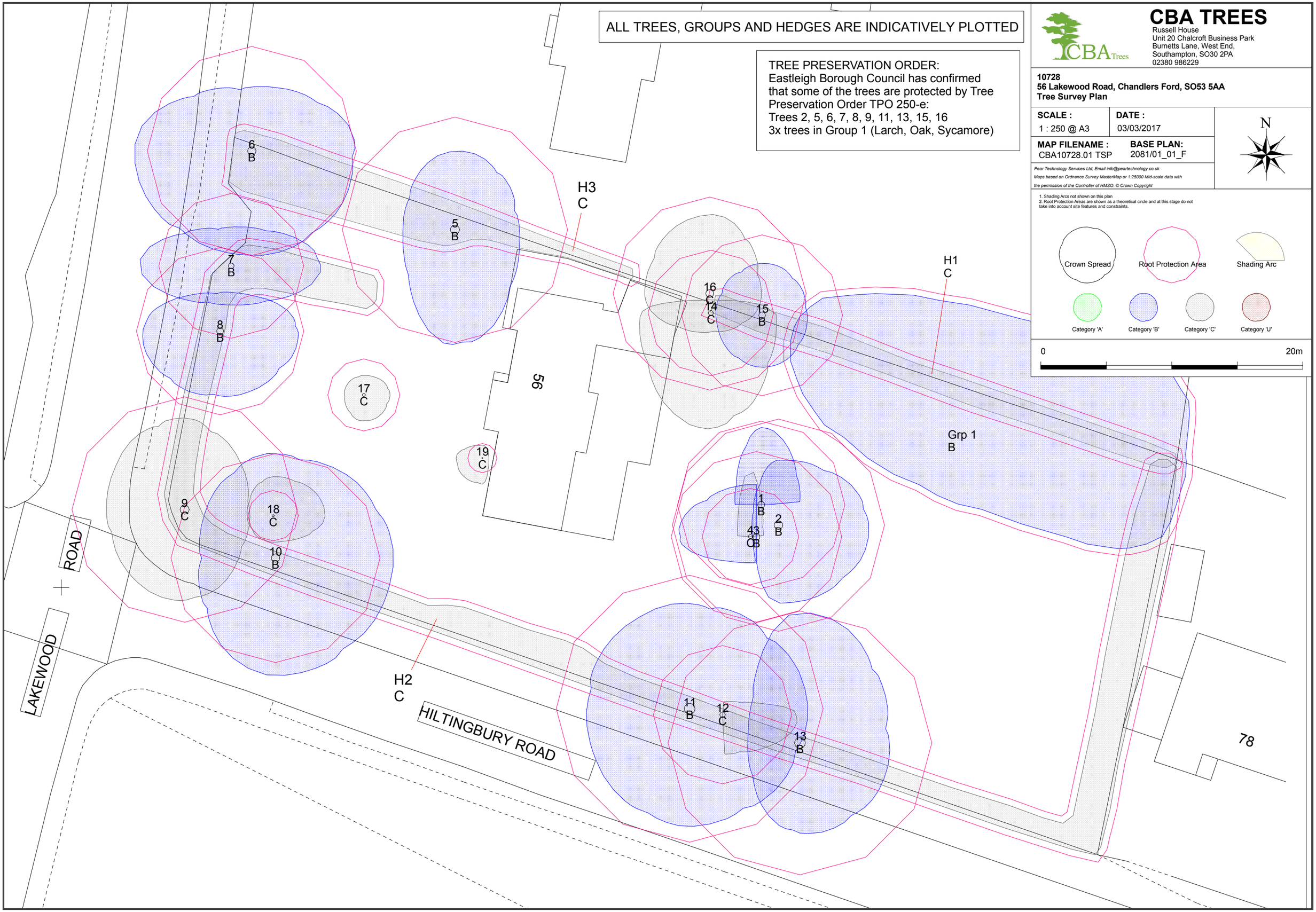
Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
2 TPO	Scots Pine *Pinus sylvestris*	22	S	660	5.0	7.0	6.0	2.0	4.0	4.0	8.0	8.0	EM	Good	Good Trunk and crown shape distorted due to group pressure Old pruning wounds on trunk Previously crown lifted Minor deadwood in crown	None required at time of survey	20+	B1+2
3	Scots Pine *Pinus sylvestris*	20	S	530	4.0	0.0	2.0	6.0	6.0	-	6.0	4.0	EM	Good	Good Ivy on trunk and in crown Minor deadwood in crown Crown shape distorted due to group pressure	None required at time of survey	20+	B1+2
4	Scots Pine *Pinus sylvestris*	14	S	300	5.0	1.0	0.0	1.0	4.0	6.0	-	6.0	SM	Good	Fair Trunk and crown shape distorted due to group pressure Biased to north Minor deadwood in crown	None required at time of survey	20+	C1+2
5 TPO	Common Beech *Fagus sylvatica*	17	S	Est 700	6.0	5.0	9.0	4.0	6.0	3.0	2.0	6.0	EM	Fair	Good Boundary line tree Estimated data Unable to verify health and safety due to dense hedge Ivy on trunk Old pruning wounds on trunk and in crown Sparse upper crown Possible dessicated fungal fruiting body on trunk to east at 6m above ground level Minor deadwood in crown	Clear around base and carry out aerial inspection within 1 month	20+	B1 Interim

Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
6 TPO	Common Beech *Fagus sylvatica*	17	S	Est 650	5.0	8.0	8.0	9.0	5.0	2.0	2.0	2.0	EM	Good	Fair Boundary line tree Estimated data Unable to verify health and safety due to dense hedge Ivy on trunk Large old pruning wound at 2m above ground level on north-east side with cavity present Old pruning wounds on trunk and in crown Crown shape distorted Minor deadwood in crown Multi-stemmed at 4m above ground level	Inspect old pruning wound at 2m above ground level on north-east side within 1 month	20+	B1+2 Interim
7 TPO	Pedunculate Oak *Quercus robur*	14	S	Est 450	3.0	7.0	3.0	7.0	5.0	2.0	2.0	2.0	EM	Fair	Good Boundary line tree Estimated data Unable to verify health and safety due to dense hedge Ivy on trunk Crown shape distorted due to group pressure Minor deadwood in crown Distorted branch growth in crown	Clear around base and re-survey within 1 month	20+	B1 Interim
8 TPO	Pedunculate Oak *Quercus robur*	15	S	520	3.0	6.0	5.0	6.0	6.0	2.0	3.0	5.0	EM	Fair	Good Boundary line tree Unable to verify health and safety due to dense hedge Ivy on trunk Old pruning wounds on trunk Minor deadwood in crown Previously crown reduced Low crown density	Clear around base and re-survey within 1 month	20+	B1+2 Interim

Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
9 TPO	Sweet Chestnut *Castanea sativa*	17	S	700	7.0	5.0	7.0	6.0	3.0	2.0	2.0	4.0	EM	Poor	Fair Boundary line tree Estimated data Unable to verify health and safety due to dense hedge Ivy on trunk Old pruning wounds on trunk and in crown Apical dieback Low crown density In decline	Clear around base and re-survey within 1 month	10+	C1 Interim
10	Common Beech *Fagus sylvatica*	18	S	Est 650	8.0	9.0	9.0	6.0	3.0	3.0	4.0	4.0	EM	Good	Good Boundary line tree Estimated data Unable to verify health and safety due to dense hedge Multi-stemmed at 3m above ground level Ivy on trunk and in crown Old pruning wounds on trunk and in crown Crown shape distorted due to group pressure	Clear around base and re-survey within 1 month	20+	B1+2 Interim
11 TPO	Common Beech *Fagus sylvatica*	22	S	830	8.0	9.0	9.0	8.0	3.0	3.0	4.0	3.0	M	Good	Good Exposed surface roots Ivy on trunk Bifurcated at 4m above ground level Old pruning wounds on trunk and in crown Crown shape distorted Boundary edge tree	None required at time of survey	40+	B1+2
12	Common Sycamore *Acer pseudoplatanus*	18	S	430	1.0	6.0	3.0	0.0	8.0	5.0	5.0	-	EM	Good	Fair Boundary edge tree Trunk and crown shape distorted due to group pressure Suppressed by T11 Minor deadwood and stubs in crown	None required at time of survey	20+	C1+2

Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
13 TPO	Sweet Chestnut *Castanea sativa*	20	S	820	10.0	7.0	7.0	4.0	4.0	3.0	6.0	8.0	M	Good	Good Trunk and crown shape distorted due to group pressure Old and recent pruning wounds on trunk and in crown Minor deadwood in crown Suppressed by T11 Bifurcated at 8m above ground level	None required at time of survey	40+	B1+2
14	Wild Cherry *Prunus avium*	14	S	390	1.0	5.0	9.0	5.5	6.0	4.0	3.0	2.0	EM	Good	Fair Boundary edge tree Trunk and crown shape distorted Trunk and crown biased to south Suppressed by T16	None required at time of survey	10+	C1+2
15 TPO	Norway Spruce *Picea abies*	19	S	Est 500	4.0	3.5	4.0	3.5	2.0	3.0	3.0	3.0	EM	Good	Fair Offsite tree Estimated data Unable to verify health and safety due to no access Ivy on trunk and in crown Minor deadwood on trunk and in crown Bifurcated at 8m above ground level	Gain access and re-survey within 1 month	20+	B1+2 Interim
16 TPO	Silver Birch *Betula pendula*	19	S	600	6.0	4.0	3.0	5.0	6.0	6.0	6.0	6.0	M	Good	Fair Offsite tree Boundary edge tree Estimated data Ivy on trunk and in crown Trunk and crown shape distorted due to group pressure Minor deadwood in crown	Gain access and re-survey within 1 month	10+	C1+2 Interim

Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
17	Cypress *Cupressus spp*	4	MS	230	1.5	2.0	2.0	1.5	1.0	1.0	1.0	1.0	SM	Fair	Fair Bifurcated at ground level Regularly trimmed with hedge cutters	None required at time of survey	20+	C1
18	Magnolia *Magnolia spp*	2	MS	160	3.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0	SM	Good	Good Trifurcated at ground level Low hanging branches Stems and crown shape distorted	None required at time of survey	20+	C1
19	Bull Bay *Magnolia spp*	3	S	90	1.0	0.5	2.0	2.0	1.0	1.0	1.0	1.0	SM	Good	Fair Trunk and crown shape distorted Growing next to house Fully managed and maintained	None required at time of survey	20+	C1
Grp 1	Larch x 1 - TPO Beech x 1 Oak x 1 - TPO Sycamore x 1 - TPO	19	S	700	-	-	-	-	-	-	-	-	EM	Good	Good Offsite group Estimated data Crown shape distorted due to group pressure Ivy on trunk and in crown Minor deadwood in crown Understorey of Hedge 1	Gain access and re-survey within 1 month	40+	B2 Interim
H1	Rhododendron Eleagnus Cherry Laurel Bamboo Cypress	2	S	100	-	-	-	-	-	-	-	-	SM	Fair	Fair Boundary edge hedge Mixed species Fully managed and maintained	None required at time of survey	20+	C2
H2	Cherry Laurel Rhododendron	1.5-2	S	150	-	-	-	-	-	-	-	-	SM	Good	Good Boundary edge hedge Fully managed and maintained	None required at time of survey	20+	C2
H3	Cherry Laurel Rhododendron Lonicera	2	S	150	-	-	-	-	-	-	-	-	SM	Good	Good Boundary edge hedge Fully managed and maintained	None required at time of survey	20+	C2


ALL TREES, GROUPS AND HEDGES ARE INDICATIVELY PLOTTED
TREE PRESERVATION ORDER:
Eastleigh Borough Council has confirmed that some of the trees are protected by Tree Preservation Order TPO 250-e:
Trees 2, 5, 6, 7, 8, 9, 11, 13, 15, 16
3x trees in Group 1 (Larch, Oak, Sycamore)
CBA TREES
Russell House
Unit 20 Chalcroft Business Park
Burnetts Lane, West End,
Southampton, SO30 2PA
02380 986229
10728
56 Lakewood Road, Chandlers Ford, SO53 5AA
Tree Survey Plan
SCALE :
1 : 250 @ A3
DATE :
03/03/2017
MAP FILENAME :
CBA10728.01 TSP
BASE PLAN:
2081/01_01_F
Pear Technology Services Ltd: Email info@peartechnology.co.uk
Maps based on Ordnance Survey MasterMap or 1:25000 Mid-scale data with the permission of the Controller of HMSO. © Crown Copyright
1. Shading Arcs not shown on this plan
2. Root Protection Areas are shown as a theoretical circle and at this stage do not take into account site features and constraints.
N
Crown Spread
Root Protection Area
Shading Arc
Category 'A'
Category 'B'
Category 'C'
Category 'U'
0
20m
H3
C
H1
C
H2
C
Grp 1
B
56
78
LAKEWOOD ROAD
HILTINGBURY ROAD
1
B
2
B
43
C
B
5
B
6
B
7
B
8
B
9
C
10
B
11
B
12
C
13
B
14
C
15
B
16
C
17
C
18
C
19
C


CB2

CBA Trees	**BS5837:2012 TREE ROOT PROTECTION AREA SCHEDULE**
Site:	56 Lakewood Road, Chandlers Ford, SO53 5AA
Date:	27th February 2017
Consultant:	James Fuller *FdSc.Arb, BTEC Nat.Dip.Arb, TechArbor.A*

Notes:
1. This is an assessment of the Root Protection Area (RPA) required, based on the individual tree data collected and Section 4.6.1 of BS5837:2012.
2. At this juncture this document is for your sole guidance and ongoing discussions purposes only and is not intended for general circulation, as it assumes that all but the 'U' trees will be retained, which clearly may not be the case.
3. For all single stem trees with a stem diameter greater than 1250mm, and multi-stem trees with a stem diameter greater than 1500mm, the calculated RPA has been capped at 707m2 in accordance with Section 4.6.1 of BS5837.2012.

TREE PRESERVATION ORDER/CONSERVATION AREA:
Eastleigh Borough Council has confirmed that some of the trees are protected by Tree Preservation Order TPO 250-e (see trees annotated in red).

Tree No	Species	Category	Single/ Multi-Stemmed (S or MS)	Stem Diameter (mm)	Initial Linear Root Protection Distance (Radius m)	Root Protection Area (m2)
1	Scots Pine Pinus sylvestris	B1+2	S	520	6.24	122.34
2 TPO	Scots Pine Pinus sylvestris	B1+2	S	660	7.92	197.09
3	Scots Pine Pinus sylvestris	B1+2	S	530	6.36	127.09
4	Scots Pine Pinus sylvestris	C1+2	S	300	3.60	40.72
5 TPO	Common Beech Fagus sylvatica	B1 Interim	S	700	8.40	221.70
6 TPO	Common Beech Fagus sylvatica	B1+2 Interim	S	650	7.80	191.16
7 TPO	Pedunculate Oak Quercus robur	B1 Interim	S	450	5.40	91.62
8 TPO	Pedunculate Oak Quercus robur	B1+2 Interim	S	520	6.24	122.34
9 TPO	Sweet Chestnut Castanea sativa	C1 Interim	S	700	8.40	221.70
10	Common Beech Fagus sylvatica	B1+2 Interim	S	650	7.80	191.16
11 TPO	Common Beech Fagus sylvatica	B1+2	S	830	9.96	311.69

Tree No	Species	Category	Single/ Multi-Stemmed (S or MS)	Stem Diameter (mm)	Initial Linear Root Protection Distance (Radius m)	Root Protection Area (m2)
12	Common Sycamore Acer pseudoplatanus	C1+2	S	430	5.16	83.66
13 TPO	Sweet Chestnut Castanea sativa	B1+2	S	820	9.84	304.23
14	Wild Cherry Prunus avium	C1+2	S	390	4.68	68.82
15 TPO	Norway Spruce Picea abies	B1+2 Interim	S	500	6.00	113.11
16 TPO	Silver Birch Betula pendula	C1+2 Interim	S	600	7.20	162.88
17	Cypress Cupressus spp	C1	MS	230	2.76	23.93
18	Magnolia Magnolia spp	C1	MS	160	1.92	11.58
19	Bull Bay Magnolia spp	C1	S	90	1.08	3.66
Grp 1	Larch x 1 - TPO Beech x 1 Oak x 1 - TPO Sycamore x 1 - TPO	B2 Interim	S	700	8.40	221.70
H1	Rhododendron Eleagnus Cherry Laurel Bamboo Cypress	C2	S	100	1.20	4.52
H2	Cherry Laurel Rhododendron	C2	S	150	1.80	10.18
H3	Cherry Laurel Rhododendron Lonicera	C2	S	150	1.80	10.18


CB3

KEY

TREE 14 HAS BEEN REMOVED

LOCATION OF TREE PROTECTION BARRIER TO BE CONSTRUCTED AS DETAILED IN SECTION 11 OF THE AMS

AREA OF GROUND PROTECTION TO BE CONSTRUCTED AS DETAILED IN SECTION 11 OF THE AMS

Notes:

ALL TREES, GROUPS AND HEDGES ARE INDICATIVELY PLOTTED

TREE PRESERVATION ORDER:
Eastleigh Borough Council has confirmed that some of the trees are protected by Tree Preservation Order TPO 250-e: Trees 2, 5, 6, 7, 8, 9, 11, 13, 15, 16 3x trees in Group 1 (Larch, Oak, Sycamore)

Shading Arcs not shown on this plan. Root Protection Areas are shown as a theoretical circle and at this stage do not take into account site features and constraints.

Existing Gravel Drive

Contractor Parking

Working Space

H3 C

H1 C

H2 C

Grp 1 B

Mixing of chemicals

Storage of Materials

HILLINGBURY ROAD

50.6m

KEY

ROOT PROTECTION AREA (RPA)
CROWN SPREAD
TREE NUMBER
CATEGORY

JOB TITLE
56 Lakewood Road,
Chandlers Ford,
SO53 5AA

DRAWING TITLE
Tree Protection Plan

CBA DRAWING No.
CBA10728.02A

BASE PLAN DRAWING No.
56 Lakewood Road H for Arb

SCALE 1:250 @ A3

DRAWN LI

DATE May 2017

THIS DRAWING IS COPYRIGHT OF CBA Trees. AND SHOULD NOT BE REPRODUCED WITHOUT PERMISSION. ALL DIMENSIONS MUST BE CHECKED ON SITE AND NOT SCALED FROM THIS DRAWING.

CBA Trees.
Russell House, Unit 20 Chalcroft Business Park, Burnetts Lane, West End, Southampton, SO30 2PA
Tel: 02380 986229

N

5m 10m


CB4

	TREE WORKS SCHEDULE			
	Client:	Mr Frank Abu	**Site:**	56 Lakewood Road, Chandlers Ford, SO53 5AA
	Date:	March 2017	**Consultant:**	James Fuller *FdSc.Arb, BTEC Nat.Dip.Arb, M.Arbor.A*

Tree No.	Species	Recommended Works
1	Scots Pine	• N/A
2	Scots Pine	• N/A
3	Scots Pine	• N/A
4	Scots Pine	• N/A
5	Common Beech	• Crown lift to 4m above ground level on south side, by removing as small diameter branches as possible
6	Common Beech	• Crown lift to 3m above ground level on south side, by removing as small diameter branches as possible
7	Pedunculate Oak	• Crown lift to 3m above ground level on north side, by removing as small diameter branches as possible
8	Pedunculate Oak	• N/A
9	Sweet Chestnut	• N/A
10	Common Beech	• N/A
11	Common Beech	• N/A
12	Common Sycamore	• N/A
13	Sweet Chestnut	• N/A
14	Wild Cherry	• To be removed
15	Norway Spruce	• N/A
16	Silver Birch	• N/A
17	Cypress	• N/A
18	Magnolia	• N/A
19	Bull Bay	• N/A
Grp 1	Larch Beech Oak Sycamore	• N/A

Tree No.	Species	Recommended Works
H1	Mixed Species	• N/A
H2	Mixed Species	• N/A
H3	Mixed Species	• N/A

- All tree works are advised to be carried out between July and September or November and February. Tree works should also avoid the season for nesting birds.
- All tree works should be carried out in accordance with current best practice guidelines and BS3998:2010 – Tree Work Recommendations.
- We recommend the use of an Arboricultural Association Approved Contractor or an ISA Certified Arborist/Tree Worker suitably insured and experienced to carry out the tree works.


CB5

TREES AT_____:

SUMMARY OF

TREE PROTECTION MEASURES

Introduction

This leaflet shall be issued to all site personnel as part of their induction briefing.

It describes in summary form the precautions that site personnel shall at all times follow, to ensure that the existing trees on the site come to no harm.

The precautions described are neither arbitrary nor reducible and must be adhered to in full.

These precautions are necessary because unprotected trees are very vulnerable to damage during demolition and construction works.

Furthermore, many of the trees on the site are under **LEGAL PROTECTION** and damaging them can result in heavy fines.

Two common misconceptions about trees:

MYTH: Trees have deep taproots and so shallow excavations will not harm the tree.
FACT: 90% of all tree's roots are found in the top 600mm of soil; all excavations near to trees are likely to cause root damage which can kill the tree.
MYTH: Trees will quickly heal over any bark wound, with no ill effect.
FACT: Bark wounds take years to heal and larger ones never do; missing bark can lead to disease and even the death of the tree.

Tree Protection

All trees adjacent to unsupervised work areas have been protected by tree protection barriers.

These barriers must be respected at all times and no attempts shall be made to damage, bypass or ignore them.

In areas designated for supervised working, no works shall be undertaken without the supervisor being present or without him/her issuing a "carry on" chit.

Prohibitions Adjacent to Trees

Inside the exclusion area of the tree protection, the following prohibitions shall apply.

- **No** digging or scraping
- **No** storage of plant or materials
- **No** vehicular access
- **No** fire lighting
- **No** handling, discharge or spillage or any chemical substance
- **No** water-logging

In addition to the above, further precautions shall be taken near to trees.

- A 10m separation distance shall be observed between trees and any substance injurious to their health, including fuels, oil, bitumen, cement (including washings) builders' sand, concrete mixing and other chemicals.

- No fire shall be lit such that flames come within 5m of any foliage; this shall be taken to mean a fire separation distance to the leaved of 20m.

Avoiding Damage to Stem and Branches

Care shall be taken when planning site operations to ensure that wide or tall loads or plant with booms, jibs and counterweights, can operate without coming into contact with trees.

Consequently, any transit or traverse of plant in proximity to trees shall be conducted under the supervision of a spotter to ensure that adequate clearance is at all times maintained.

In some circumstances, it may be impossible to achieve this, necessitating the pruning of the tree.

If this is necessary, a specialist team shall be called in following referral to the project Arboriculturist.

No tree pruning shall be undertaken by demolition or construction personnel.

Asking for Help

If you see any damage to a tree or its protective fencing, or if you need a tree pruning for plant clearance, contact **CBA Trees** as follows:

Office Telephone: 020 8098 6229

REMEMBER:

ALL TREE DAMAGE IS AVOIDABLE –

SO AVOID IT!



PROTECTIVE BARRIERS.
THESE BARRIERS MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.

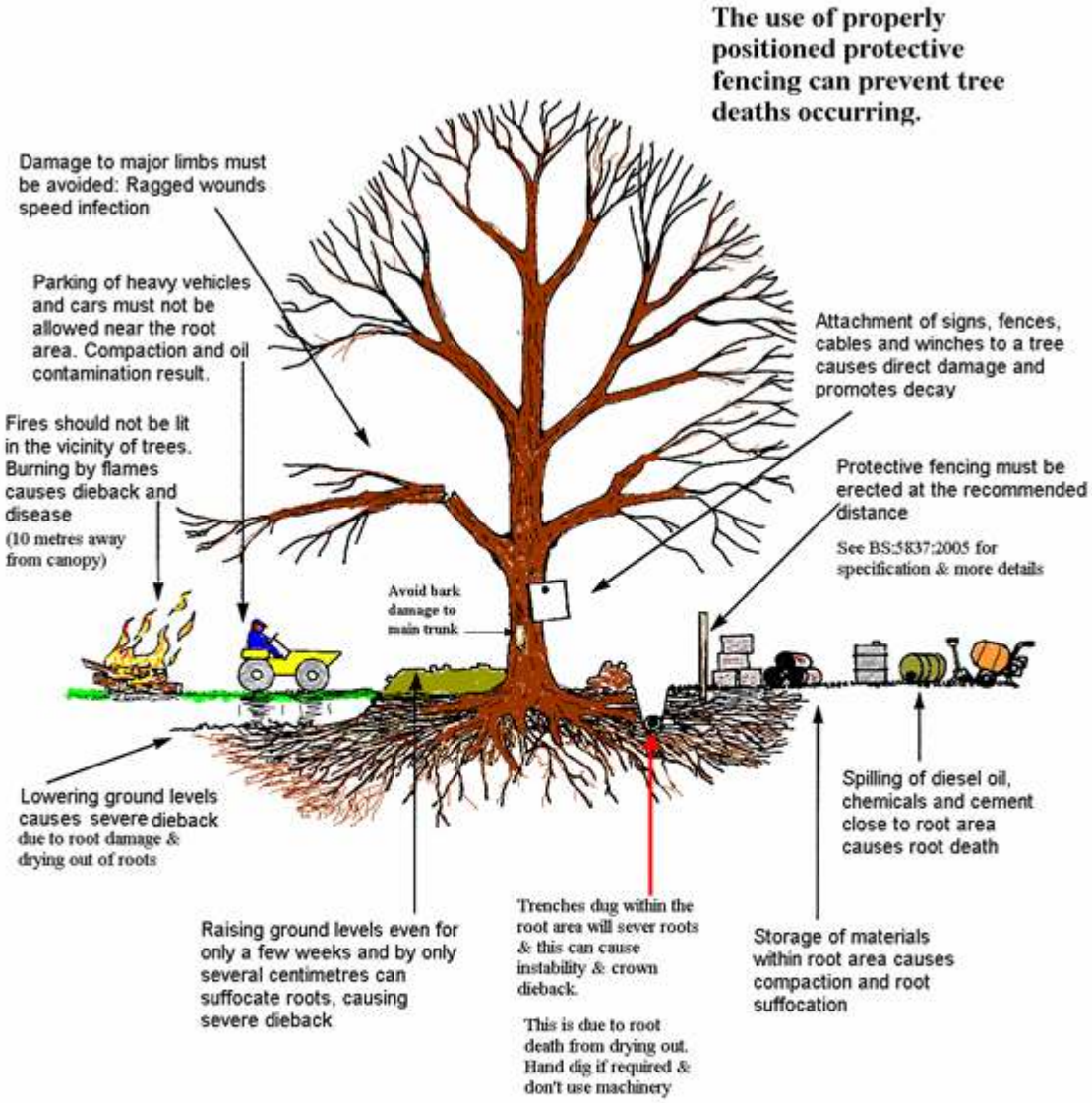


TREE PROTECTION AREA
KEEP OUT !

(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY

Common causes of Tree Death



Please use copies of this as an on-site poster for personnel

(Source: Arboricultural Information Exchange website, 2005)


CB6

The Professional Arboricultural Consultancy

Qualifications of
James Fuller
Senior Consultant

James Fuller FdSc.Arb, BTEC Nat.Dip Arb, M.Arbor.A joined CBA Trees in 2007 as a gap-year junior surveyor/arborist having attained the Foundation Degree in Arboriculture at Sparsholt College near Winchester and has more recently acquired the Professional Tree Inspector's Certificate.

Over the years James has gained experience in every field of our work, undertaking all elements of consultancy including large BS5837:2012 tree surveys using the latest data capture equipment to produce Implication Assessments and Method statements for planning applications.

Having broadened his knowledge and gained considerable experience, James is now a retained Senior Consultant, undertaking site assessments, site monitoring, and provision of advice to prominent development companies for large and complex projects.