TREE SURVEY REPORT

Wates Construction Ltd

Site: Hampstead School, Westbere Road, London, NW2 3RT

CBA Trees
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The Complete Arboricultural Consultancy

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CBA10333 v1

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.

TREE SURVEY REPORT (BS5837:2012)	
Client:	Wates Construction Limited
Site	Hampstead School, Westbere Road, London NW2 3RT
Date:	4 March 2015
Consultant:	James Fuller FdSc.Arb, BTEC Nat.Dip.Arb, TechArbor.A
Tagged:	**No**

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.

* Trees marked with an asterisk are indicatively plotted on Tree Survey Plan CBA10333.01

TREE PRESERVATION ORDER/CONSERVATION AREA:
CBA Trees has not been instructed to investigate whether trees on or adjacent to the site are protected by a Tree Preservation Order or located within a Conservation Area.

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	Common Hawthorn *Crataegus monogyna*	5	S	210	3.0	4.0	3.0	1.5	2.0	2.0	2.0	2.0	SM	Good	Fair Grows in paved area Metal grill at base Multi-stemmed at 2m above ground level Minor deadwood in crown Trunk and crown shape distorted Bark wounds on trunk Leans to South-east side	None required at time of survey	10+	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
2	Common Hawthorn *Crataegus monogyna*	6	S	230	1.5	4.0	3.0	3.0	2.0	3.0	3.0	3.0	SM	Good	Fair Grows in paved area Metal grill at base Multi-stemmed at 2m above ground level Minor deadwood in crown Trunk and crown shape distorted Bark wounds on trunk Leans to South-east side	None required at time of survey	10+	C1+2
3	Tulip Tree *Liriodendron tulipifera*	13	S	340	4.0	5.0	5.0	6.0	2.0	3.0	2.0	2.0	SM	Good	Good Wall to South and West sides Bark wound on trunk to North side at 0.5m above ground level occluding Old pruning wounds on trunk occluding Bifurcated at 3m above ground level with tension fork Good shape and form	None required at time of survey	40+	B1
4	Silver Birch *Betula pendula*	12	S	290	4.0	4.0	4.0	5.0	2.0	2.0	2.0	2.0	SM	Good	Good Bark wounds on trunk Epicormics on trunk Old pruning wounds in crown Minor deadwood in crown	None required at time of survey	20+	B1
5	Silver Birch *Betula pendula*	15	S	390	4.0	5.0	6.0	5.0	3.0	3.0	3.0	3.0	EM	Good	Fair Wall to West Old pruning wounds on trunk occluding Bifurcated at 6m above ground level	None required at time of survey	20+	B1
6	Common Elder *Sambucus nigra*	4	MS 4x stems	220	1.0	3.0	2.0	3.0	2.0	1.5	1.5	2.0	SM	Fair	Fair Boundary edge tree Multi-stemmed at ground level Crown shape distorted Minor deadwood in crown Poor quality tree	None required at time of survey	10+	C1

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
7	Apple *Malus spp*	6	S	270	2.0	5.0	5.0	2.0	3.0	2.0	2.0	2.0	SM	Good	Fair Boundary edge tree Bark wounds on trunk Bifurcated at 2m above ground level Minor deadwood in crown Crown shape distorted	None required at time of survey	20+	C1
8	Flowering Cherry *Prunus spp*	3	S	120	2.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	Y	Fair	Fair Trunk and crown shape distorted Bark wounds on trunk occluding Multi-stemmed at 2m above ground level Minor deadwood in crown Minor dieback in crown	None required at time of survey	10+	C1
9	Common Elder *Sambucus nigra*	4	MS 6x stems	220	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	SM	Fair	Fair Multi-stemmed at ground level Smothered in ivy Minor deadwood in crown Poor quality tree	None required at time of survey	10+	C1
10	Common Yew *Taxus baccata*	5	S	200	1.0	3.0	3.0	3.0	2.0	2.0	0.0	0.0	Y	Good	Good Developing tree Grows under canopy of T11 Low hanging branches Crown shape distorted Multi-stemmed at 2m above ground level	None required at time of survey	40+	C1
11	Common Ash *Fraxinus excelsior*	14	MS 2x stems	920	6.0	6.0	6.0	6.0	6.0	5.0	6.0	5.0	EM	Fair	Fair Bifurcated at ground level Exposed surface roots Ivy on stems Old pruning wounds on stems Old retaining structure on North-east side previously removed	None required at time of survey	20+	B1

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
12	Pedunculate Oak *Quercus robur*	14	S	750	6.0	9.0	9.0	9.0	4.0	3.0	3.0	3.0	EM	Good	Good Boundary edge tree Grows between chainlink fence and boundary wall Ivy on trunk Multi-stemmed at 2m above ground level Old pruning wounds in crown occluding Minor deadwood in crown Unable to fully inspect around base of tree due to chainlink fence	Re-inspect once chainlink fence is removed	40+	A1 Interim
13	Pedunculate Oak *Quercus robur*	4	S	80	1.0	-	1.0	-	2.0	2.0	2.0	-	Y	Fair	Fair Newly planted Bark wounds on trunk Developing tree	None required at time of survey	10+	C1
14*	Horse Chestnut *Aesculus hippocastanum*	14	S	630	6.5	6.5	6.0	5.0	2.0	2.0	2.0	2.0	EM	Good	Fair Bleeding canker on trunk Bifurcated at 2m above ground level with compression fork Old pruning wounds on trunk to West side at 2m above ground level with decay present Minor deadwood in crown	None required at time of survey	20+	B1
15	Pedunculate Oak *Quercus robur*	5	S	100	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0	Y	Good	Good Developing tree Good shape and form	None required at time of survey	40+	C1
16	Pedunculate Oak *Quercus robur*	4	S	80	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	Y	Good	Good Newly planted tree Good shape and form Developing tree	None required at time of survey	40+	C1

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	Common Elder *Sambucus nigra*	6	MS 4x stems	200	3.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	SM	Fair	Fair Multi-stemmed at ground level Boundary edge tree Ivy on stems and in crown Crown shape distorted Epicormics in crown	None required at time of survey	20+	C1+2
18*	Common Ash *Fraxinus excelsior*	11	MS 2x stems	290	4.0	4.0	4.0	4.0	3.0	3.0	2.0	3.0	SM	Good	Fair Offsite tree Unable to verify health and safety due to no access Bifurcated at ground level Boundary edge tree	Gain access and re-survey within 1 month	20+	C1+2 Interim
19	Wild Cherry *Prunus avium*	10	S	530	6.0	5.0	5.0	7.0	2.0	3.0	2.0	2.0	M	Good	Fair Exposed surface roots Bifurcated union at 3m above ground level with tight compression fork Bark wounds on long slender branch to West side Old pruning wounds in crown Previously crown reduced	Reduce branch with bark wounds by 2m-3m	10+	C1
20	Common Ash *Fraxinus excelsior*	17	S	860	7.0	7.0	7.0	7.0	6.0	6.0	6.0	6.0	M	Fair	Good Boundary edge tree Exposed surface roots Epicormics on trunk and in crown Bifurcated at 4m above ground level Old pruning wounds in crown Continually pollarded at 16m above ground level Boundary wall to South side	None required at time of survey	20+	B1

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
21	Lombardy Poplar *Populus nigra 'Italica'*	18	S	840	2.0	3.0	3.0	2.0	6.0	6.0	6.0	6.0	M	Fair	Fair Large buttress roots Boundary edge tree Small cavity on North side at base Major deadwood in crown Previously topped at 16m above ground level Boundary wall to South side	None required at time of survey	10+	C1+2
22*	Common Ash *Fraxinus excelsior*	14	S	450	4.0	4.0	6.0	7.0	2.0	2.0	3.0	2.0	EM	Good	Good Offsite tree Boundary edge tree Unable to verify health and safety due to no access Trunk and crown shape distorted due to group pressure Trunk and crown biased to South-west side Boundary wall between site and tree	Gain access and re-survey within 1 month	20+	B1 Interim
23*	Pear *Pyrus spp*	6	S	400	4.0	2.0	3.0	4.0	2.0	3.0	2.0	2.0	M	Fair	Fair Offsite boundary edge group Canopy overhangs site Unable to verify health and safety due to no access Previously topped at 6m above ground level Crown shape distorted Minor deadwood in crown Estimated data	Gain access and re-survey within 1 month	10+	C1 Interim
24*	Bay Laurel *Laurus nobilis*	5	S	200	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	SM	Good	Good Offsite boundary edge tree Unable to verify health and safety due to no access Estimated data	Gain access and re-survey within 1 month	20+	C1 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
25	Apple *Malus spp*	3	MS 2x stems	140	4.0	0.5	0.5	3.0	1.0	1.0	1.0	1.0	SM	Fair	Fair Bark wounds on trunk Trunk and crown shape distorted Bifurcated at 1.2m above ground level Poor quality tree Of limited value	None required at time of survey	10+	C1
26	Wild Cherry *Prunus avium*	12	S	400	5.5	6.0	6.5	6.5	2.0	2.0	2.0	2.0	EM	Good	Fair Large buttress roots Exposed surface roots Bifurcated at 2m above ground level Minor deadwood in crown Old pruning wounds in crown	None required at time of survey	20+	B1
27	Wild Cherry *Prunus avium*	6	MS 2x stems	250	2.0	4.0	5.0	3.0	3.0	2.0	2.0	2.0	SM	Good	Fair Bifurcated at ground level Grows next to existing building Old pruning wounds in crown Previously crown reduced	None required at time of survey	20+	C1
28	Common Lime *Tilia x europaea*	15	S	470	6.0	7.0	7.0	7.0	4.0	4.0	4.0	4.0	EM	Good	Fair Part of linear group Bifurcated at 3m above ground level Minor deadwood in crown Old pruning wounds in crown	None required at time of survey	40+	B1+2
29	Common Lime *Tilia x europaea*	8	S	180	2.0	1.0	4.0	3.0	3.0	3.0	3.0	2.0	SM	Good	Fair Part of linear group Trunk and crown shape distorted due to group pressure Suppressed by T28 Old pruning wounds on trunk	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
30	Common Lime *Tilia x europaea*	8	S	230	4.0	4.0	3.0	4.0	2.0	3.0	2.0	2.0	SM	Good	Good Part of linear group Old pruning wounds on trunk Crown shape distorted Minor deadwood in crown	None required at time of survey	20+	C1+2
31	Common Lime *Tilia x europaea*	12	S	330	5.0	5.0	4.0	6.0	4.0	4.0	4.0	3.0	SM	Good	Fair Part of linear group Trifurcated at 2m above ground level Old pruning wounds on trunk and in crown Minor deadwood in crown	None required at time of survey	20+	C1+2
32	Common Lime *Tilia x europaea*	12	S	270	3.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	SM	Good	Fair Part of linear group Epicormics on trunk and in crown Bifurcated at 3m above ground level with compression fork Old pruning wounds in crown Previously crown reduced	None required at time of survey	20+	C1+2
33	Common Lime *Tilia x europaea*	13	S	330	4.0	4.0	3.0	3.0	4.0	4.0	4.0	4.0	SM	Good	Fair Part of linear group Epicormics on trunk and in crown Tight forks with included bark in crown Old pruning wounds in crown Previously crown reduced	None required at time of survey	20+	C1+2
34	Common Lime *Tilia x europaea*	15	S	410	6.0	6.0	5.0	6.0	5.0	5.0	5.0	5.0	EM	Good	Good Part of linear group Old pruning wounds on trunk and in crown occluded and occluding	None required at time of survey	40+	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
35	Common Lime *Tilia x europaea*	12	S	320	4.0	5.0	2.0	1.0	3.0	4.0	4.0	4.0	SM	Good	Fair Part of linear group Trunk and crown shape distorted due to group pressure Epicormics on trunk Old pruning wounds on trunk and in crown occluding Suppressed by T34 and T36	None required at time of survey	20+	C1+2
36	Common Lime *Tilia x europaea*	15	S	430	5.0	6.0	5.0	5.0	4.0	5.0	4.0	5.0	EM	Good	Good Part of linear group Old pruning wounds in crown occluding Epicormics in crown	None required at time of survey	40+	B1+2
37	Common Lime *Tilia x europaea*	14	S	410	6.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	EM	Good	Good Part of linear group Basal suckers Epicormics on trunk and in crown Old pruning wounds in crown occluding Previously crown reduced away from building	None required at time of survey	40+	B1+2
38	Silver Birch *Betula pendula*	3	S	100	2.0	1.0	1.5	2.0	2.0	2.0	2.0	1.5	Y	Fair	Fair Trunk and crown shape distorted Broken hanging branch on East side of tree Trunk kinks at 2m above ground level	None required at time of survey	10+	C1

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
39	Common Ash *Fraxinus excelsior*	12	S	490	4.0	5.0	5.0	4.0	6.0	5.0	6.0	6.0	EM	Fair	Fair Bark wounds on exposed surface roots and at base of tree Epicormics on trunk and in crown Bifurcated at 3m above ground level Old pruning wounds in crown Previously pollarded at 10m above ground level	None required at time of survey	20+	B1
40	Indian Bean Tree *Catalpa bignonioides*	12	S	620	8.0	8.0	4.0	6.0	3.0	2.0	6.0	3.0	EM	Good	Fair Trunk and crown shape distorted Trunk and crown biased to North-east Old pruning wounds in crown occluding Previously crown reduced on South-west side	None required at time of survey	20+	B1
41	Crack Willow *Salix fragilis*	16	S	880	5.0	6.0	5.0	4.0	4.0	4.0	6.0	6.0	M	Good	Good Grows in paved area Old pruning wounds in crown Previously pollarded at 14m above ground level New regrowth makes up crown	None required at time of survey	20+	B1
42	Horse Chestnut *Aesculus hippocastanum*	9	S	220	4.0	4.0	3.0	4.0	3.0	2.0	3.0	3.0	SM	Fair	Fair Trunk and crown shape distorted Bifurcated at 2m above ground level Old pruning wounds in crown Suppressed by T41 Sparse buds in crown	None required at time of survey	10+	C1

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
43	Common Ash x2	15	S	See below	6.0	6.0	3.0	4.0	6.0	4.0	5.0	5.0	EM	Good	Good Boundary edge trees Unable to verify health and safety due to trees growing between chainlink fence and retaining wall Ivy on trunk Two trees growing together Previously crown reduced Old pruning wounds in crown Epicormics in crown Part of linear group	Gain access and re-survey within 1 month	20+	B1+2 Interim
A				450														B
B				400														B
44	London Plane *Platanus x hispanica*	14	S	Est 800	5.0	6.0	5.0	5.0	6.0	6.0	6.0	6.0	EM	Good	Good Boundary edge tree Part of linear group Grows between chainlink fence and retaining wall Ivy on trunk Bifurcated at 2m above ground level Previously pollarded at 12m above ground level	None required at time of survey	40+	B1+2
45*	Common Ash *Fraxinus excelsior*	12	MS 2x stems	370	3.0	5.0	6.0	5.0	3.0	3.0	3.0	2.0	SM	Good	Fair Offsite boundary edge tree Bark wound to North-west side Bifurcated at ground level Crown shape distorted due to group pressure	None required at time of survey	20+	C1+2

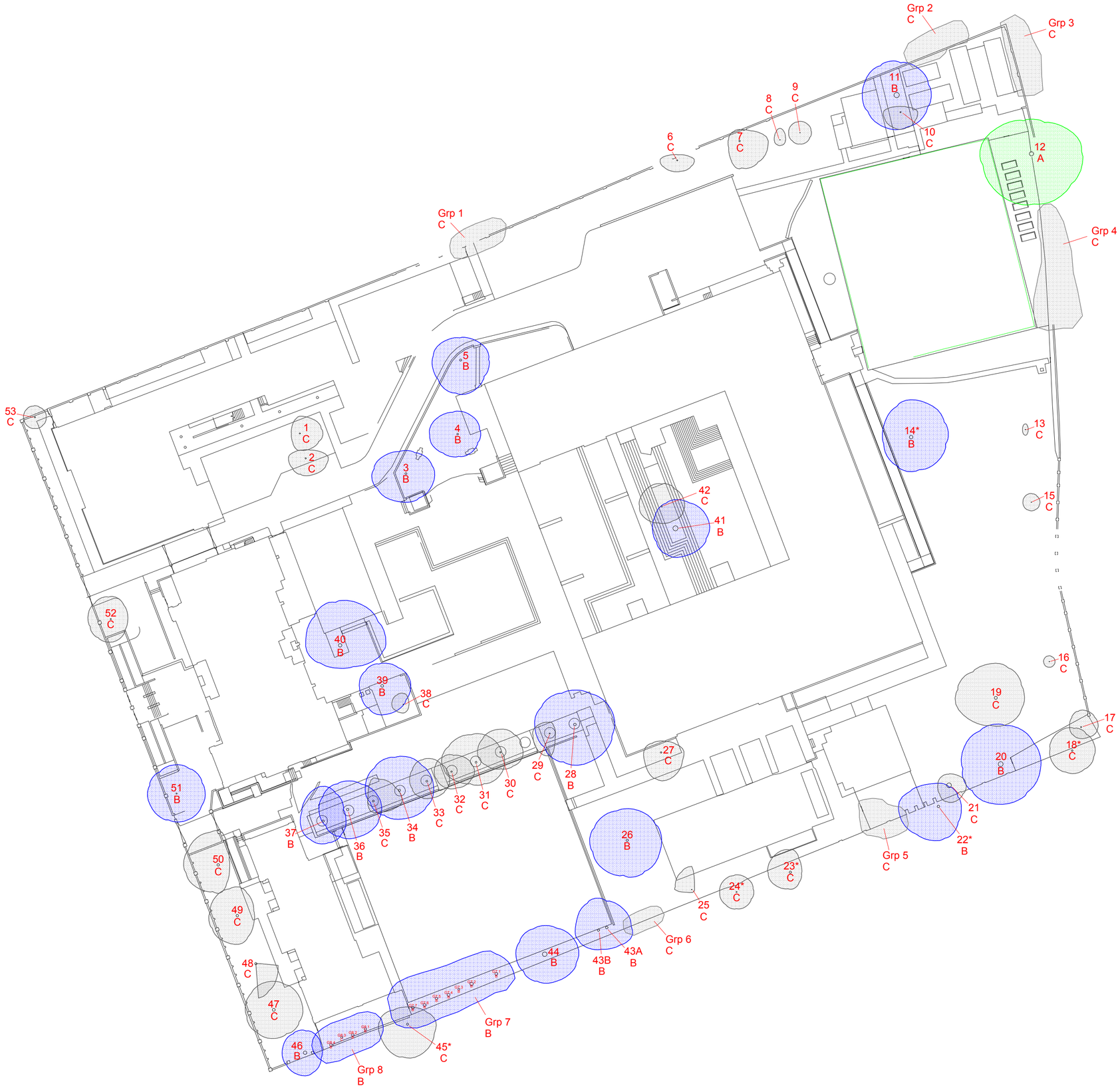
Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
46	London Plane *Platanus x hispanica*	14	S	620	4.0	3.0	4.0	4.0	6.0	6.0	4.0	4.0	EM	Good	Good Boundary edge tree Bifurcated at 2m above ground level Previously pollarded at 12m above ground level Old pruning wounds in crown Epicormics make up crown	None required at time of survey	40+	B1+2
47	Flowering Cherry *Prunus spp*	6	S	500	5.0	5.0	5.0	5.0	2.0	2.0	2.0	2.0	M	Good	Fair Part of linear group Mechanical damage to exposed surface roots Multi-stemmed at 2m above ground level Minor deadwood in crown Old pruning wounds in crown Previously crown reduced on North-east side	None required at time of survey	10+	C1+2
48	Flowering Cherry *Prunus spp*	5	S	400	0.0	4.0	6.0	0.0	-	4.0	2.0	-	EM	Fair	Fair Part of linear group Bifurcated at 1.8m above ground level Two stems previously removed Long heavily weighted limb to South side Poor quality tree Previously crown reduced on North-east side	None required at time of survey	10+	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
49	Flowering Cherry *Prunus spp*	6	S	440	5.0	3.0	5.0	5.0	3.0	3.0	2.0	2.0	EM	Good	Fair Part of linear group Exposed surface roots Mechanical damage to exposed surface roots Multi-stemmed at 1.8m above ground level Minor deadwood in crown Previously crown reduced on North-east side Old pruning wounds in crown	None required at time of survey	10+	C1+2
50	Flowering Cherry *Prunus spp*	7	S	440	6.0	2.0	5.0	6.0	3.0	3.0	2.0	2.0	EM	Good	Fair Part of linear group Exposed surface roots Mechanical damage to exposed surface roots Multi-stemmed at 1.8m above ground level Minor deadwood in crown Old pruning wounds in crown occluding Previously crown reduced on North-east side	None required at time of survey	10+	C1+2
51	Manna Ash *Fraxinus ornus*	12	S	240	5.0	5.0	5.0	5.0	2.0	3.0	3.0	2.0	SM	Good	Good Minor deadwood in crown Multi-stemmed at 5m above ground level	None required at time of survey	20+	B1
52	Manna Ash *Fraxinus ornus*	11	S	200	4.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0	SM	Fair	Fair Large bark wound on trunk occluding Main stem previously snapped out at 5m above ground level Minor deadwood in crown Poor quality tree	None required at time of survey	10+	C1

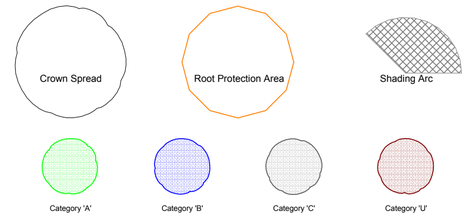
Tree No	Species	H't (m)	Single/ Multi-Stemmed (S or MS)	Stem Diam (mm)	Branch Spread (m) N	E	S	W	H't of Crown AGL (m) N	E	S	W	Life Stage	Physio-logical Condition	Structural Condition and General Observations	Preliminary Management Recommendations	Est. Rem. Contrib. (Yrs)	Cat
53	Common Elder *Sambucus nigra*	5	MS 5x stems	210	2.0	2.0	2.0	2.0	1.5	1.5	1.5	1.5	SM	Good	Fair Boundary edge tree Multi-stemmed at ground level Recent pruning wounds at base Low hanging branches	None required at time of survey	10+	C1
Grp 1	Lawson Cypress x4 Ash x1	12	S	Est 400	-	-	-	-	-	-	-	-	SM	Fair	Fair Offsite boundary edge group One dead tree in group Survey limited due to no access Wall between site and trees Estimated data	None required at time of survey	20+	C1+2
Grp 2	Common Sycamore	7	S	200	-	-	-	-	-	-	-	-	SM	Fair	Fair Offside boundary edge group Self-set trees Tree to North-east end previously pollarded at 4m above ground level Wall between site and group	None required at time of survey	20+	C2
Grp 3	Ash Common Sycamore	8	S	200	-	-	-	-	-	-	-	-	SM	Fair	Fair Offsite boundary edge group Self-set trees Crown shapes distorted due to group pressure Minor deadwood in crowns Wall between group and site	None required at time of survey	20+	C2
Grp 4	Ash Common Sycamore	7	S	100	-	-	-	-	-	-	-	-	Y	Fair	Fair Offsite boundary edge group Self-set trees Crown shapes distorted due to group pressure	None required at time of survey	20+	C2

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
Grp 5	Ash x5	10	S	200	-	-	-	-	-	-	-	-	SM	Good	Good Boundary edge group Trunk and crown shape distorted due to group pressure Some trees multi-stemmed at various heights Self-set group Previously reduced on South side	None required at time of survey	20+	C2
Grp 6	Lawson Cypress	4	S	200	-	-	-	-	-	-	-	-	SM	Fair	Fair Offsite boundary edge group Unable to verify health and safety due to no access Minor deadwood in crown Crown shape distorted due to group pressure	Gain access and re-survey within 1 month	10+	C2 Interim
Grp 7	London Plane x7	14	S	See below	-	-	-	-	-	-	-	-	EM	Good	Good Boundary edge group Multi-stemmed at various heights Previously pollarded at 12m above ground level Provides screening into and out of site	None required at time of survey	40+	B2
G7.1				500														B
G7.2				600														B
G7.3				350														B
G7.4				500														B
G7.5				450														B
G7.6				500														B
G7.7				500														B

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
Grp 8	London Plane x4	14	S	See below	-	-	-	-	-	-	-	-	EM	Good	Good Boundary edge group Bark wound to South-east side Two trees bifurcated at 2m above ground level G8.3 has large bark wound at base of East side stem Previously pollarded at 12m above ground level Provides screening into and out of site	Remove stem on East side of G8.3 within 6 months	40+	B2
G8.1				410														B
G8.2				450														B
G8.3				370														C
G8.4				450														B



NOTE:
Root Protection Areas and Shading Arcs not shown on this plan
Groups are indicatively plotted
Trees marked with * are indicatively plotted



0 60m

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

10333
Hampstead School, Westbere Road, London
Tree Survey Plan

SCALE :	DATE :
1 : 500 @ A2	10/03/2015

MAP FILENAME :
CBA10333.01 TSP

N


CB1

BS5837:2012 TREE ROOT PROTECTION AREA SCHEDULE	
Client:	Wates Construction Limited
Site:	Hampstead School, Westbere Road, London, NW2 3RT
Date:	4 March 2015
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:
CBA Trees has not been instructed to investigate whether trees on or adjacent to the site are protected by a Tree Preservation Order or located within a Conservation Area.

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	Common Hawthorn	C1+2	S	210	2.52	19.95
2	Common Hawthorn	C1+2	S	230	2.76	23.93
3	Tulip Tree	B1	S	340	4.08	52.30
4	Silver Birch	B1	S	290	3.48	38.05
5	Silver Birch	B1	S	390	4.68	68.82
6	Common Elder	C1	MS 4x stems	220	2.64	21.90
7	Apple	C1	S	270	3.24	32.98
8	Flowering Cherry	C1	S	120	1.44	6.52
9	Common Elder	C1	MS 6x stems	220	2.64	21.90
10	Common Yew	C1	S	200	2.40	18.10
11	Common Ash	B1	MS 2x stems	920	11.04	382.95
12	Pedunculate Oak	A1 Interim	S	750	9.00	254.50
13	Pedunculate Oak	C1	S	80	0.96	2.90
14*	Horse Chestnut	B1	S	630	7.56	179.58
15	Pedunculate Oak	C1	S	100	1.20	4.52
16	Pedunculate Oak	C1	S	80	0.96	2.90
17	Common Elder	C1+2	MS 4x stems	200	2.40	18.10
18*	Common Ash	C1+2 Interim	MS 2x stems	290	3.48	38.05
19	Wild Cherry	C1	S	530	6.36	127.09

Tree No	Species	Category	Single/ Multi-Stemmed (S or MS)	Stem Diameter (mm)	Initial Linear Root Protection Distance (Radius m)	Root Protection Area (m2)
20	Common Ash	B1	S	860	10.32	334.63
21	Lombardy Poplar	C1+2	S	840	10.08	319.25
22*	Common Ash	B1 Interim	S	450	5.40	91.62
23*	Pear	C1 Interim	S	400	4.80	72.39
24*	Bay Laurel	C1 Interim	S	200	2.40	18.10
25	Apple	C1	MS 2x stems	140	1.68	8.87
26	Wild Cherry	B1	S	400	4.80	72.39
27	Wild Cherry	C1	MS 2x stems	250	3.00	28.28
28	Common Lime	B1+2	S	470	5.64	99.95
29	Common Lime	C1+2	S	180	2.16	14.66
30	Common Lime	C1+2	S	230	2.76	23.93
31	Common Lime	C1+2	S	330	3.96	49.27
32	Common Lime	C1+2	S	270	3.24	32.98
33	Common Lime	C1+2	S	330	3.96	49.27
34	Common Lime	B1+2	S	410	4.92	76.06
35	Common Lime	C1+2	S	320	3.84	46.33
36	Common Lime	B1+2	S	430	5.16	83.66
37	Common Lime	B1+2	S	410	4.92	76.06
38	Silver Birch	C1	S	100	1.20	4.52
39	Common Ash	B1	S	490	5.88	108.63
40	Indian Bean Tree	B1	S	620	7.44	173.92
41	Crack Willow	B1	S	880	10.56	350.38
42	Horse Chestnut	C1	S	220	2.64	21.90
43	Common Ash x2	B1+2 Interim	S	See below	-	-
A			S	450	5.40	91.62
B			S	400	4.80	72.39
44	London Plane	B1+2	S	400	4.80	72.39
45*	Common Ash	C1+2	MS 2x stems	370	4.44	61.94
46	London Plane	B1+2	S	620	7.44	173.92
47	Flowering Cherry	C1+2	S	500	6.00	113.11
48	Flowering Cherry	C1+2	S	400	4.80	72.39
49	Flowering Cherry	C1+2	S	440	5.28	87.59
50	Flowering Cherry	C1+2	S	440	5.28	87.59
51	Manna Ash	B1	S	240	2.88	26.06
52	Manna Ash	C1	S	200	2.40	18.10
53	Common Elder	C1	MS 5x stems	210	2.52	19.95
Grp 1	Lawson Cypress x4 Ash x1	C1+2	S	400	4.80	72.39

Tree No	Species	Category	Single/ Multi-Stemmed (S or MS)	Stem Diameter (mm)	Initial Linear Root Protection Distance (Radius m)	Root Protection Area (m2)
Grp 2	Common Sycamore	C2	S	200	2.40	18.10
Grp 3	Ash Common Sycamore	C2	S	200	2.40	18.10
Grp 4	Ash Common Sycamore	C2	S	100	1.20	4.52
Grp 5	Ash x5	C2	S	200	2.40	18.10
Grp 6	Lawson Cypress	C2 Interim	S	200	2.40	18.10
Grp 7	London Plane x7	B2	S	See below	-	-
G7.1		B		500	6.00	113.11
G7.2		B		600	7.20	162.88
G7.3		B		350	4.20	55.42
G7.4		B		500	6.00	113.11
G7.5		B		450	5.40	91.62
G7.6		B		500	6.00	113.11
G7.7		B		500	6.00	113.11
Grp 8	London Plane x4	B2	S	See below	-	-
G8.1		B		410	4.92	76.06
G8.2		B		450	5.40	91.62
G8.3		C		370	4.44	61.94
G8.4		B		450	5.40	91.62


CB2

The Professional Arboricultural Consultancy

Company Profile, Qualifications and Experience

CBA Trees, one of the leading professional arboricultural consultancy practices in the UK is based in Southampton. There are currently three consultants working from our Hampshire office, all of varying expertise and qualifications.

The team is headed by **Colin Bashford** *MBE M.Arb., ex F.Arbor.A, MAE* who, with over 45 years in the profession, is considered to be one of the most eminent professionals in this field and is a past Registered Consultant of the Arboricultural Association, a Law Society approved Expert Witness and a member of the Academy of Experts.

Colin has worked on private estates; for Local and Central Government where in the latter he advised up to Ministerial level for government bodies, agencies and departments, as well as acting as the Inspecting Officer on Appeals, or Technical Assessor at Public Local Inquiries.

In 1990, Colin retired from public service and formed a sole practitioner company; this has since blossomed into a thriving Practice which was formally incorporated in 1993.

His expertise leads Colin to act as an expert witness on behalf of well-known household names. A listing of some of the clients of CBA Trees can be found on pages 3 and 4 of this document.

Colin is a past Chairman of the Board of Governors for Merrist Wood College in Guildford, and has served for many years on the Board of Directors of the International Society of Arboriculture (ISA) and that of ISA Europe Ltd. He was President of ISA for the period 2011-2013.

Stefan Rose BSc(Hons), TechCert (Arbor A), joined CBA Trees in 1998 as a junior surveyor and has consistently studied to become a respected Senior Consultant. He has vast experience in working as a locum for local authorities, assessing new and extant Tree Preservation Orders, as well as working on some of the largest development sites nationwide.

James Fuller FdSc.Arb, BTEC Nat.Dip Arb, TechArbor.A, joined CBA in 2007 as a gap year junior surveyor/arborist having attained the Foundation Degree in Arboriculture and as part of his professional development James has more recently attained the Professional Tree Inspector's Certificate. Over the years James has gained experience in every field of our work, undertaking all elements of consultancy work including large tree surveys and BS5837:2012 planning applications. As a retained Senior Consultant James undertakes site assessments, site monitoring, provision of advice to prominent development companies and preparation of Implication Assessments and Method Statements.

Alex Monk TechCert (Arbor A), NCH Arb, has a background in tree surgery, running his own small business for many years. Joining CBA in 2004 he soon adapted to the rigour of surveying and consultancy and has progressed to providing his expertise to an extensive client base. Alex provides an excellent service to Local Authorities in the area, assessing extant and new Tree Preservation Orders as well as becoming an expert in the use of decay detection equipment on these and other projects. Alex's work also encompasses development projects with all the associated surveying and consultancy work that this part of the industry entails, guiding the arboricultural elements of the development project through the planning process.

Darren Smith FdSc.Arb, TechArborA is the newest recruit to our team. He has carried out full asset tree surveys for London local authorities, covering highways, parks and allotments, including Health & Safety Audits and brings a considerable amount of experience in this area. He has also attained the Lantra Professional Tree Surveyor Certificate and as part of his professional development, hopes to continue his studies to turn his Foundation Degree into a full degree.

All consultants are trained in the use of 'state of the art' decay detection equipment, and the latest data capture equipment.

Listed below are some of the services we provide:

- Arboricultural Consultancy
- Arboricultural Impact Studies & Method Statements
- Trees in Conservation Areas
- Advice on Veteran Trees and Ancient Woodlands
- Expert Witness at PLI, and Court Work
- Arboricultural/Landscape Design
- PLI, Expert Witness and Court Work/Litigation
- Tree Survey Work (street trees, development projects, individual private sites)
- Tree Preservation Order Advice
- Tree Inspections and Hazard Risk Assessments
- Woodland Creation, Maintenance & Management
- Health & Safety issues – Inspections on behalf H&SE
- Arboricultural site and project management

CBA Trees is very proud of its client base that includes the following companies:

Developers – Commercial and Residential

Bryant Homes Ltd
Abbeymill Homes Ltd
Alfred McAlpine Limited
Bellway Homes Ltd
Berkeley Homes Ltd
Bewley Homes
Bloor Homes
Bouygues UK
Bovis Homes Limited
Countryside Properties
Crayfern Homes
Crest Strategic Properties
David Wilson Developments Ltd
Fairview New Homes plc
Great Sutton Homes
Highwood Construction
Imperial Elite Construction
Laing/Gladedale Ltd
Linden Homes
Morgan Sindall
Rydon Construction
Taylor Wimpey
Thomas Homes
Wates Construction
Wates Development

Design & Legal

Barton Willmore Partnership
Terra firma Consultancy
Boyer Planning Associates
Acanthus, Lawrence & Wrightson
Cunningham Ellis & Buckle
Penningtons
Tucker Parry Knowles Partnership
Derek Lovejoy Partnership
David Huskisson Associates
Acanthus Ferguson Mann
Masons
RPS Planning, Transport & Environment
Town Planning Consultancy
MacGregor Smith
Lester Aldridge
Denton Hall
Bond Pearce
McKennas

Education

Brighton and Hove Sixth Form College
Cognita Schools
Hillyfield Primary Academy
Richard Taunton College
Royal Holloway University of London
St Osmunds Primary School
United Church Schools
University College Oxford
University of Portsmouth
Merrist Wood College

Local Authorities & Government Bodies

Ampfield Parish Council
Basingstoke Borough Council
Catalyst Housing
Circle Housing Group
Eastleigh Borough Council
Hampshire County Council
Highways Agency
Lambeth and Southwark Housing
London Borough of Bexley
London Borough of Camden
NHS Property Services
Poole Borough Council
Portsmouth City Council
Raglan Housing
Reigate and Banstead Council
Royal Borough of Kensington & Chelsea
Royal Borough of Kingston
Ruscombe and Twyford LEP
Rushmoor Borough Council
Southampton City Council
Test Valley Borough Council
The Hyde Group
Transport for London
West Sussex County Council
West Wittering Parish Council

CBA Trees can be found at:

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West End
Southampton, SO30 2PA.

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For further information, visit our web site at www.cbatrees.com which gives more detail of our expertise, and of course, our staff are always willing to help answer any queries you may have.