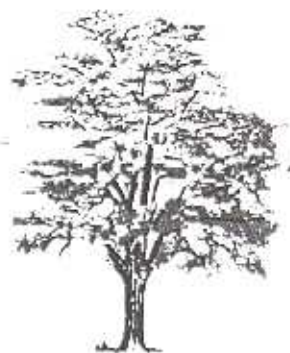




MICHAEL COOPER M.ARB. Dip. P.R.A.
ARBORICULTURAL CONSULTANT



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Tree Surveys
Mortgage Tree Surveys
Planning Applications
Planning Appeals
Public Enquiries
Expert Legal Witness

Our Ref MC

27th November 2006.

Dear Ian,

**ARBORICULTURAL SURVEY, MEADOW DRIVE/PINFOLD LANE,
DARFIELD, BARNSELY.**

I refer to your recent instruction to carry out an Arboricultural survey at the above site. The following points in respect of this site are now outlined for your attention.

- 1 A number of trees on this site have been ring barked and creosote has also been applied. The ring barking is severe and in my opinion will lead to the ultimate death of the trees.
- 2 Due to the ring barking I have been unable to place an accurate category rating on them in terms of their predicted life span; they may survive for many years or they may die next year. This is an unknown quantity and places serious doubts on their current safety. Given these concerns and the proximity of the trees to the highway, the adjacent properties and overhead electricity lines I would strongly advise the owner to commence proceedings to bring about their removal. The necessary checks required to determine if the trees are protected by statutory legislation should be carried out before any work is implemented.

- 3 The boundary wall bordering the playing field would appear to be in very good condition with only one area where I could determine the effects of any root pressure. This is adjacent to T9 which is recommended for removal.
- 4 The wall bordering Pinfold Lane is in a state of general poor repair. It has the appearance of having received little or no maintenance work for many years. Where mortar is present this is literally dropping out and it is not possible to detect any signs of damage due to the presence of the trees or any associated root activity.
- 5 On the aspect of tree retention all development on site should comply with the requirements of ***British Standard Institute Specification 5837 Trees in relation to construction; 2005***
- 6 Any new tree planting should comply with ***British Standards 4043:1989, Transplanting root-balled trees and British Standard Institute Specification 3936: 1992, Nursery Stock Part 1. Specification for Trees and Shrubs***
- 7 All tree surgery work should be carried in accordance with ***British Standard Institute Specification 3998, Tree Surgery work.***

Should you require further assistance with this or any other Arboricultural matter, please do not hesitate to contact me.

Yours sincerely,


M Cooper

KEY TO M. COOPER TREE SURVEY

HEADINGS

TR NO = TREE NUMBER

SPECIES= TREE SPECIES

HGT= OVERALL HEIGHT

STEM DIAM=TRUNK DIAMETER WHEN MEASURED AT 1.5 METRES
FROM GROUND LEVEL

H = HEIGHT

BR SPREAD = BRANCH SPREAD IN METRES ON ALL DIRECTIONS

HGT OF CRN CLRN= HEIGHT OF CROWN CLEARANCE TO THE
BOTTOM BRANCH

AGE = Y= YOUNG TREE, SM = SEMI MATURE, M =MATURE, OM = OVER
MATURE, V = VETERAN

PHYS COND=PHYSIOLOGICAL CONDITION IE GOOD, FAIR, POOR,
DEAD

STRUCTURAL CONDITION=OVERALL CONDITION, WEAKNESSES,
DEFECTS ETC

PRELIMINARY MANAGEMENT RECOMMENDATIONS=SUGGESTED
TREE SURGERY WORK

CAT = CATEGORY IN ACCORDANCE WITH BRITISH STANDARD
INSTITUTE SPECIFICATION 5837 2005 FOR TREES IN RELATION TO
CONSTRUCTION; RECOMMENDATIONS.

SS=SINGLE STEM TREE

MS= MULTI-STEM TREE

S=SHRUB OR SHRUBBERY

W=WOODLAND AREA OR WOODED PERIMIETER/SCREEN

H=HEDGELINE

G=GROUP

Survey carried out in November 2006 by;
Michael Cooper. M.Arb. Dip. P.R.A

Site: Meadow Drive/Pinfold lane, Darfield
Barnsley, South Yorkshire.

Carried out on behalf of client:
Ian Barraclough, Barraton Design Studios
Bentley, Doncaster.

TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLR m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T1	Acer pseudoplatanus, Common Sycamore	25m	860mm	N 6.9m E 4.7m S 9.5m W 10.5m	4m	M	Poor	Clear stem of 1.25m at which point it divides to produce two major stems. These are growing very tightly together. This tree has been ring barked at 1m from ground level and the bottom of the trunk below the ring barking has been treated with creosote	Whilst this tree appears to be physically healthy, this may change in the near future. It could remain healthy for many years or it may become unstable within a very short timescale. Inspect every 6 months	?	B1
T2	Acer pseudoplatanus, Common Sycamore	16m	290mm	N 2.6m E 2.1m S 5.5m W 5.2m	2m	M	Good	Good straight stem. Good crown. Part of the branch framework extends over the adjacent property	No work required	20	C1

Survey carried out in November 2006 by: Site: Meadow Drive/Pinfold lane, Darfield Carried out on behalf of client:
Michael Cooper. M.Arb. Dip. P.R.A Barnsley, South Yorkshire. Ian Barracrough, Barratton Design Studios
Bentley, Doncaster.

TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T3	Cupressus	12m	800mm	N 2m E 5m S 2m W 2m	GL	M	Poor	This conifer has 6 stems arising at ground level. One stem has grown in a horizontal aspect at ground level for 3m after which it has assumed vertical growth	Remove		R
T4	Cupressus	16m	520mm	N 2.5m E 2m S 2m W 2m	GL	M	Fair	Four stems arising at 0.3m from ground level	No work required	10	C1
T5	Acer pseudoplatanus, Common Sycamore	18m	390mm	N 4.4m. E 5.9m S 5.2m W 3.2m	2m	M	Poor	Clear stem to 3m at which point it divides. Well balanced tree. Ring barked on main stem and creosote has been applied	Whilst this tree appears to be physically healthy, this may change in the near future. It could remain healthy for many years or it may become unstable within a very short timescale. Inspect every 6 months	?	B1

Survey carried out in November 2006 by: Michael Cooper. M.Arb. Dip. P.R.A. Site: Meadow Drive/Pinfold lane, Darfield Barnsley, South Yorkshire. Carried out on behalf of client: Ian Barracough, Barraton Design Studios Bentley, Doncaster.

TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLRN m	AGE	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	CAT
T6	Acer pseudoplatanus, Common Sycamore	17m	290mm	N 2.1m E 2.8m S 4.5m W 3.3m	2.5m	M	Poor	Clear stem to 3m at which point it divides to produce 2 major stems. One of the major stems divides again at 5m to a further two stems. Well shaped tree. This tree has been ring barked and creosote has been applied	Whilst this tree appears to be physically healthy, this may change in the near future. It could remain healthy for many years or it may become unstable within a very short timescale. Inspect every 6 months	?	B1
T7	Acer pseudoplatanus, Common Sycamore	26m	780mm	N 5.6m E 8.3m S 7.9m W 7.7m	3m	M	Poor	Clear stem to 4m. Large trunk wound at 2m from ground level. Some decay present but not detrimental to the trees stability. This is a fine tree. This tree has been ring barked and creosote applied	Whilst this tree appears to be physically healthy, this may change in the near future. It could remain healthy for many years or it may become unstable within a very short timescale. Inspect every 6 months	?	B1

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLR m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T8	Acer pseudoplatanus, Common Sycamore			N E S W		M		This is a tree stump.	Remove tree stump		R
T9	Acer pseudoplatanus, Common Sycamore	16m	450mm	N 3m E 4.5m S 2.7m W 2m	GL	M	Fair	This tree is applying pressure to the boundary wall	This tree should be removed		R
T10	Acer pseudoplatanus, Common Sycamore	17m	770mm	N 5m E 7m S 7.9m W 7.4m	2m	M	Good	The canopy of this tree is growing into the overhead electricity cables. Major sucker growths arising at ground level and have attained the size of small branches. Some buttress roots exposed but these are not a problem. Broken branches in the crown plus some dead wood	Remove sucker growths. Remove major dead wood and broken branches from the crown. Clear a channel or maintain the required clearance for the electricity cables by working in conjunction with the appropriate statutory service	40	A2

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLR m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T11	Cupressus	10m	300mm	N 2m E 2m S 2m W 2m	GL	M	Good	Good conifer. Three stems arising at ground level	No work required	20	A2
T12	Quercus robur, English Oak	19m	590mm	N 8.3m E 8.1m S 7.7m W 9.8m	1.5m	M	Poor	Well balanced tree, Numerous damaged branches in the crown. Branches reach down to near ground level. Some old branch stubs present from past pruning operations. Canopy is in close proximity to overhead electricity cables This tree has been ring barked and creosote applied	Whilst this tree appears to be physically healthy, this may change in the near future. It could remain healthy for many years or it may become unstable within a very short timescale. Inspect every 6 months Clear a channel or maintain the required clearance for the electricity cables by working in conjunction with the appropriate statutory service	?	B1

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLR m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T13	Cupressus	13m	400mm	N 2m E 2m S 2m W 2m	GL	M	Good	Two stems arising at ground level	No work required	20	A2
T14	Acer pseudoplatanus, Common Sycamore	20m	610mm	N 8.5m E 5.7m S 2.0m W 1.7m	1.5m	M	Good	Clear stem to 6m. Slightly leaning tree with Ivy on the main stem. Some dead wood and sucker growths at base of main stem Canopy is in close proximity to overhead electricity cables	Clear a channel or maintain the required clearance for the electricity cables by working in conjunction with the appropriate statutory service	20	B1
T15	Tilia sp, Lime	26m	980mm	N 7.6m E 5.1m S 7.8m W 5.4m	GL	M	Good	Clear stem to 6m at which point the first branch arises. Some burrs on the main stem. Branches grow down to near ground level.	No work required	20	B1

TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLR m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T16	Acer pseudoplatanus, Common Sycamore	19m	490mm	N 4.5m E 4.7m S 1.7m W 3.0m	1.5m	M	Good	Few sucker growths at ground level. Misshapen trunk Several trunk wounds but not decayed internally. Canopy in close proximity to overhead electricity cables	Clear a channel or maintain the required clearance for the electricity cables by working in conjunction with the appropriate statutory service Remove sucker growths	20	B1
T17	Acer pseudoplatanus, Common Sycamore	16m	660mm	N 7.5m E 2.5m S 7.1m W 3.0m	6m	M	Fair	Ivy on main stem and all the way into the crown. Some sucker growths on main stem	Remove ivy and the sucker growths from the main stem	20	B1
T18	Cupressus	8m	280mm	N 1.5m E 1.5m S 1.5m W 1.5m	GL	M	Good	Four stems arise at ground level. Good healthy conifer. In close proximity to overhead electricity cables	Clear a channel or maintain the required clearance for the electricity cables by working in conjunction with the appropriate statutory service	40	A2

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLR m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T19	Cupressus	11m	310mm	N 1.5m E 1.5m S 1.5m W 1.5m	GL	M	Good	Three stems arising at 0.3m In close proximity to overhead electricity cables	Clear a channel or maintain the required clearance for the electricity cables by working in conjunction with the appropriate statutory service	40	A2
T20	Acer pseudoplatanus, Common Sycamore	22m	760mm	N 7.5m E 4.5m S 6.0m W 4.9m	3m	M	Good	Clear stem to 4m at which point the first main branch arises. Some dead wood in the crown which is well shaped	Remove major dead wood	40	A2
T21	Acer pseudoplatanus, Common Sycamore	20m	510mm	N 6.1m E 3.6m S 5.1m W 4.3m	7m	M	Good	Clear stem to 7m at which point the first main branch arises. One main stem through the entire crown Slightly one-sided crown due to proximity of T20 Canopy in close proximity to overhead electricity cables	Clear a channel or maintain the required clearance for the electricity cables by working in conjunction with the appropriate statutory service	40	A2

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TR NO	SPECIES	HGT m	STEM DIAM mm	BR SPREAD m	HGT OF CRN CLR m	A G E	PHYS COND	STRUCTURAL CONDITION.	PRELIMINARY MANAGEMENT RECOMMENDATIONS	EST. REMAIN CONT years	C A T
T22	Pinus sp, Pine	6m	200mm	N 2m E 2m S 2m W 2m	GL	SM	Good	Nice young semi-mature pine	No work required	40	A2
G1	12 Cupressus 1 Sycamore, 2 Hollies		300mm Average	14m Aver	GL	M	Good	Hollies spreading into adjacent field by 2m	No work required	20	B2

ROOT PROTECTION ZONE

The attached sheet(s) provide the root protection areas for each tree on site that is recommended for retention. This allows for developers to calculate the distance within which they can build in proximity to each tree.

I have provided two figures, these being;

The Overall Root protection zone.

This is in effect the total area around the trees canopy and rooting area which is required to be kept free of any development or encroachment to ensure it survives the development and post development period.

The Root Protection Diameter.

This is the diameter of any area necessary to meet the requirements of the overall root protection zone. This should ideally be applied across the full width of the trees canopy.

NB These calculations are in accordance with the requirements of the British Standard Institute Specification 5837, 2005

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TR NO	SPECIES	ROOT PROTECTION AREA RADIUS	OVERALL ROOT PROTECTION AREA
T1	Acer pseudoplatanus, Common Sycamore	10.32M	334.63 SQ MT
T2	Acer pseudoplatanus, Common Sycamore	3.48M	38.05 SQ MT
T3	Cupressus	R	R
T4	Cupressus	6.24M	122.34 SQ MT
T5	Acer pseudoplatanus, Common Sycamore	4.68M	68.82 SQ MT
T6	Acer pseudoplatanus, Common Sycamore	3.48M	38.05 SQ MT
T7	Acer pseudoplatanus, Common Sycamore	9.36M	275.27 SQ MT
T8	Acer pseudoplatanus, Common Sycamore	R	R
T9	Acer pseudoplatanus, Common Sycamore	R	R
T10	Acer pseudoplatanus, Common Sycamore	9.24M	268.26 SQ MT
T11	Cupressus	3.60M	40.72 SQ MT
T12	Quercus robur, English Oak	7.08M	157.50 SQ MT
T13	Cupressus	4.80M	72.39 SQ MT
T14	Acer pseudoplatanus, Common Sycamore	7.32M	168.36 SQ MT

Survey carried out in November 2006 by; Site: Meadow Drive/Pinfold Lane
Michael Cooper. M.Arb. Dip. P.R.A Darfield, Barnsley.

Carried out on behalf of client:
Ian Barraclough, Barraton Design

TR NO	SPECIES	ROOT PROTECTION AREA RADIUS	OVERALL ROOT PROTECTION AREA
T15	Tilia sp, Lime	11.76M	434.53 SQ MT
T16	Acer pseudoplatanus, Common Sycamore	5.88M	108.63 SQ MT
T17	Acer pseudoplatanus, Common Sycamore	7.92M	197.09 SQ MT
T18	Cupressus	3.36M	35.47 SQ MT
T19	Cupressus	3.72M	43.48 SQ MT
T20	Acer pseudoplatanus, Common Sycamore	9.12M	261.33 SQ MT
T21	Acer pseudoplatanus, Common Sycamore	6.12M	117.68 SQ MT
T22	Pinus sp, Pine	2.40 SQ M	18.10 SQ MT
G1	12 Cupressus 1 Sycamore 2 Hollies	6.38m In the case of this group, an area with a diameter of 6.38m or a radius of 3.19m either side of the main stems is recommended	

W

