
Goldington Buildings

Arboricultural method statement










Appendix three – Tree protection plan

DFC A 108 TPP



Tree no	Species	BS 5837 categorisation	Root protection area radius (m)
T1	Chanticleer pear	B2	2.4 metres
T2	False acacia	B2	2.3m
T3	False acacia	B2	3.6m
T4	False acacia	C2	2.4m
T5	False acacia	R	-
T6	Chanticleer pear	C2	1.2m
T7 & T9	Chanticleer pear	C2	1.8m
T8	Chanticleer pear	R	-

Key - BS 5837:2005 - trees in relation to construction

-  Category A - tree of high value
-  Category B - tree of moderate value
-  Category C - tree of low value
-  Category R - remove
-  Tree to be retained
-  Tree to be removed subject to consent
-  New tree either field maple, birch or crab apple 16 - 18cm girth
-  Replacement tree 1 x False acacia, 3 x Calleryana pear 14 - 16cm girth
-  Heras panels to protect trees during refurbishment

Revision	Description	Drawn	Authorised
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D F Clark Ltd

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Allenbuild Ltd South East

Date
19.03.10
Scale
1:200@ A3

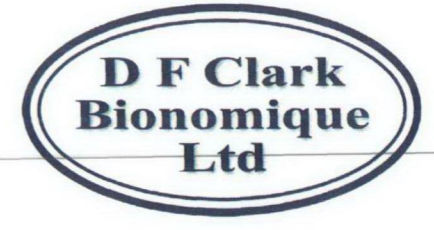
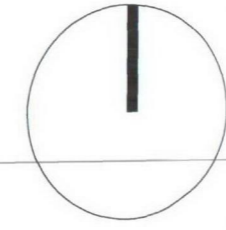
Goldington buildings

Drawing number
DFC A 108 TREE
Revision
-

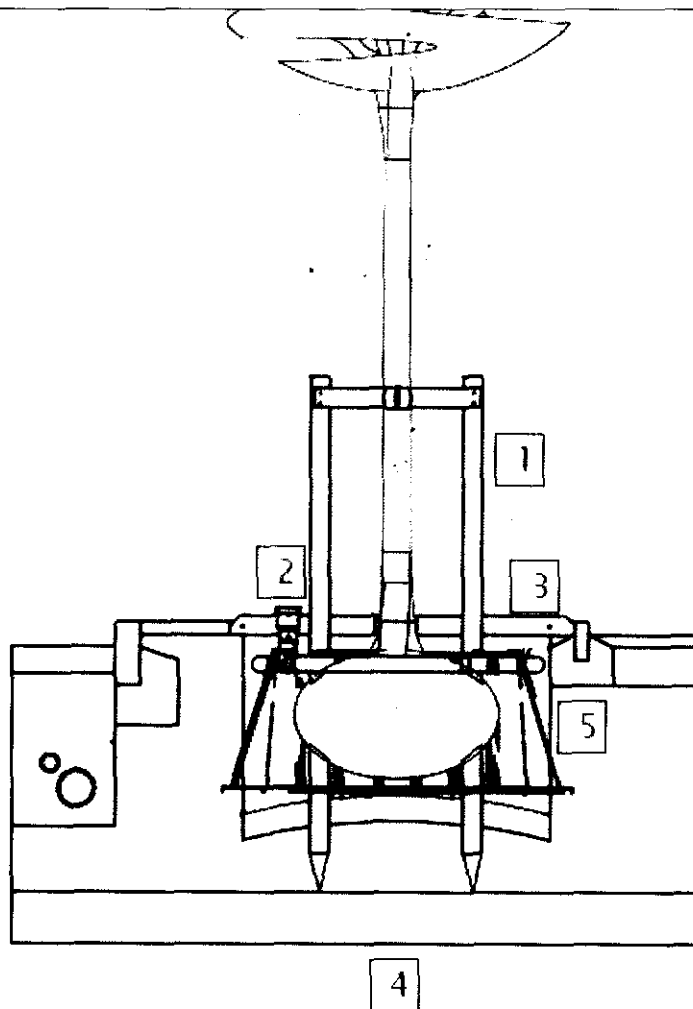
Tree protection and planting plan

Drawn
SMH
Authorised
PA

Orientation



Drawing status
FOR ISSUE



Notes

- 1** Twin peeled chestnut stakes with cross strut and hessian tie. London planes to have a triple stake and cross strut
- 2** Irrigation system installed around rootball. ensure that inlet is flush with, or slightly above finished surround level and that the diameter of irrigation system is sufficient for rootball. Type Roottrain Civic available from Greenleaf (01424 717 797)
- 3** 50mm mulch layer
- 4** Loosen and shape base to aid root penetration and pit drainage
- 5** Root director RD 1050. medium, modular root barrier system. Available from Greenleaf

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Appendix four—tree protection specification

Design of Weldmesh Type Tree Protection Fence

Specifications: Fence shall be 2m high x 3m in length

As 'Heras' type fencing can be easily moved, it must therefore be reinforced with horizontal scaffold poles or using 'U' bolts / clamps. It will not be possible to drive scaffold poles into the ground as the surface is hard paved.

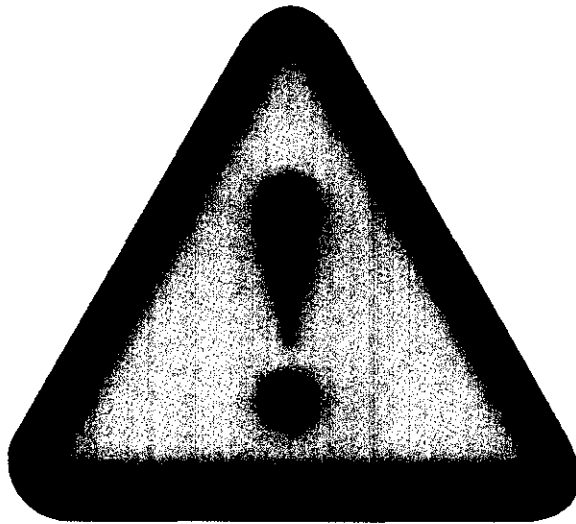
The fencing will be further identified by 'Tree Protection' warning signs.

Location: Fencing shall be positioned on the perimeter of the Root Protection Area (RPA) to define the Construction Exclusion Zone.

Example of the new BS 5837:2005 Protective Barrier design



Suggested protective fencing warning sign format



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Appendix five – tree surgery schedule

Tree Surgery Recommendations:

NOTE: All tree works to be undertaken in accordance with BS 3998:1989 'Recommendations for tree works'. The trees are in a Conservation Area.

T1	Chanticleer pear	Goldington Court, Royal College Street	Remove crossing branch Cut back tips of branches on eastern aspect by 500mm to a suitable growing point	Good arboricultural management To manage spread of tree
T2	False acacia	Goldington Court, Royal College Street	Remove dead wood with a diameter greater than 25mm	For safety
T3	False acacia	Goldington Court, Royal College Street	Remove dead wood with a diameter greater than 25mm and remove hanging branches Cut back tips of branches on north eastern aspect by 0.5 -1m to a suitable growing point	For safety
T4	False acacia	Goldington Court, Royal College Street	No works	n/a
T5	False acacia	Goldington Court, Royal College Street	Fell and replace	Fire damage leading to death of bark on trunk
T6	Chanticleer pear	Goldington Court, Royal College Street	Fell to ground level and grub out stump	To enable scaffold for refurbishment
T7 & T9	Chanticleer pear	Goldington Court, Royal College Street	Fell to ground level and grub out stump	To enable scaffold for refurbishment
T8	Chanticleer pear	Goldington Court, Royal College Street	Fell and replace	Poor structural form due to death of main leader

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Appendix six – terms of reference and contact information

Terms of Reference

Reference Documents:

BS5837:2005 'Trees in relation to construction – recommendations'

BS3998:1989 'Tree work – recommendations'

'Tree Roots in the built environment' (*DCLG - Jack Roberts, Nick Jackson & Mark Smith*)

Principles of Tree Hazard Assessment and Management' (*DTLR—David Lonsdale*)

Tree Root Damage to Buildings—*P G Biddle*

Received information:

The following from Nicholson Mould Griffiths proposed ground floor plan NMG 039/401

Planning decision notice dated 8 February 2010 reference 2009/5741/P

Method:

Site inspected on 8 March 2010

Contacts Table

Phil Lawrence	Allenbuild Ltd South East	Client	Care of DF Clark
Tim Nicholсан	Nicholson Mould Griffiths	Project architects	020 8991 9196
Sharon Hosegood	DF Clark Bionomique Ltd	Arboricultural consultant	01621 740876 07930760104
Alex Hutson	London Borough of Camden	Tree officer	020 7974 4444

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Appendix seven – caveats

Specific Report Caveats:

- 1 The survey was based on a drawing provided by the client.
- 2 The tree numbering has been chosen by the surveyor.
- 3 The tree protection status is correct at the time of report production but can be subject to change. It is therefore the responsibility of any persons undertaking tree works operations to the trees, the subject of the report and in accordance with our recommendations, to undertake their own statutory tree protection checks with the local planning authority, to include TPO, CA and Planning Conditions prior to works commencing.
- 4 No internal diagnostic equipment was used other than a sounding mallet and probe and all inspections were from ground level only.
- 5 All measurements taken with the use of hand held DBH tapes / loggers tapes.
- 6 The survey is concerned solely with arboricultural issues.
- 7 The survey was undertaken in accordance with the principles of BS 5837:2005 "Trees in relation to construction—Recommendations".
- 8 Any required pruning works will be carried out in accordance with BS 3998:1989 'Recommendations for tree work'.
- 9 Any work with trees will discharge the due diligence requirements of all relevant Wildlife & Countryside legislation.
- 10 Any changes in ground level, or excavations near to tree roots not discussed within this report may change the stability and condition of the trees and a further examination would be required.
- 11 As trees are a dynamic living organism this report is only valid for a period of 12 months, in respect to their health & condition.

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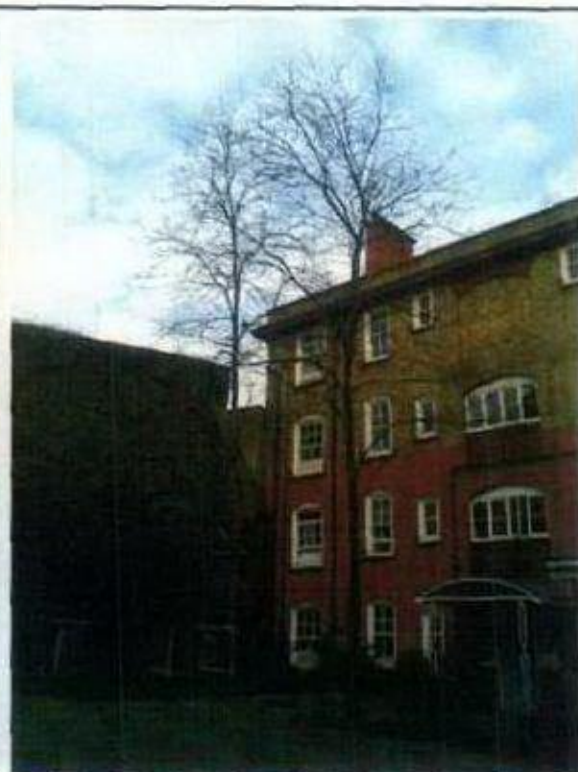
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Appendix eight – photographs



T1 looking north



T2 and T3 looking north east



T4 and T5 looking north



T6, T7, T8 and T9



T5 showing dead bark



T6 showing dead bark in upper crown due to fire damage



T8 with dead main leader



View of T2 and T1 looking south east

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Appendix nine – generic tree constraints

<p>Tree works operations</p>	<p>The tree works necessary are found at the tree surgery schedule at appendix five</p>	<p>The trees to be removed are highlighted with red dashed lines on the tree protection plan at appendix three</p> <p>The tree works will be undertaken by qualified and insured contractors, who will make provision for working within the site, taking into account the site conditions.</p> <p>Tree works will be undertaken in accordance with BS3998:1989 'Recommendations for tree works' and where necessary under the supervision of a competent arboriculturist.</p> <p>The contractor will be responsible for their own method statements and site specific risk assessments. Tree operations must take into account the Wildlife due diligence inspections, in respect of nesting birds and roosting bats</p>
<p>Establishment & Protection of Root Protection areas (RPA) for retained trees</p>	<p>To prevent the damage to retained tree roots, on or adjacent to the site, an RPA is plotted around the subject trees to be retained.</p>	<p>The RPA for the retained trees is determined according to the calculation in Table 2 from the British Standard, based upon the stem diameter at 1.5m, and plotted on the tree protection plan. It is defined as being the '<i>the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree</i>'.</p> <p>The basement will be excavated in accordance with the method statement at 6.0.</p> <p>The existing pavement serves as ground protection</p>

<p>Generic construction site constraints:</p> <p>1 Site hut location</p> <p>2 Temporary toilets</p> <p>3 Siting of bonfires</p> <p>4 Location of storage and washout areas</p> <p>5 Location of stripped topsoil</p>	<p>The protection recommendations listed opposite will also often discharge the general requirements of tree protection planning policies to 'protect existing trees'</p> <p>These measures are in accordance with the principles contained within the BS5837:2005 'Trees in relation to construction – Recommendations'.</p>	<p>The need for protective fencing securely installed.</p> <p>No builders debris to be stored beneath the crown spread or within the RPAs of retained trees.</p> <p>No changes in surface level beneath or within the RPAs.</p> <p>No fires to be lit within 20 metres of existing trees and shrubs to be planted.</p> <p>Replanting should be undertaken as part of the landscaping scheme for the site.</p> <p>Contaminant storage and washout areas eg. For cement / concrete and fuel / chemicals should be located well away, a minimum of 10m, from retained trees outside of their RPAs.</p> <p>Locate topsoil / clay subsoil away from the RPA's of retained trees within the proposed earth bund, so as not to compact tree rooting zones.</p> <p>Notice boards, telephone site cables and other temporary services should not be attached to retained trees.</p>
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Arboricultural Method Statement and survey of trees at:

**Conditions 14,15,16 and 17 of planning consent
09/00196/FUL**

Goldington Buildings
Royal College Street
London
NW1 0PA

Allenbuild Ltd South East

Sharon Hosegood MICFor M Arbor A BSc (Hons) Tech Cert (Arbor A)

18 March 2010

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