



Arboricultural Consultancy
Holmwood Farm Grange Horsham Road North Holmwood Dorking Surrey RH5 4JR
Tel: 01306 743374 Email: info@chaliceconsulting.co.uk Web: www.chaliceconsulting.co.uk

Our Ref: CC/136 AR1657

2nd October 2012

Mr. Chris Barnes
Yateley Drawing Service Ltd.
21 Coppice Gardens
Hants
GU46 6EF

Dear Mr. Barnes,

Re: Tree Protection Relating to 14 Queensbury Place, Blackwater, Camberley, Surrey GU17 9LX

Please find enclosed an arboricultural report relating to the proposed development at the above site. I would be grateful if you could review the contents of this report to ensure it meets your requirements before it is forwarded to the Local Planning Authority. A copy of this report should be maintained on site at all times and be available to all site personnel.

Attendance at the pre-commencement meeting and for inspections/supervision (sections 16.0 and 27.0 of report) is chargeable at the standard hourly rate, details of which are available upon request.

I hope that this information is clear and helpful and if I can be of any further assistance, please do not hesitate to contact me.

Yours sincerely,

Mr. David Chalice
Chartered Arboriculturist

Enc.

Chalice Consulting Ltd.
VAT Registration No. 886 2277 82
Registered Office: Griffins Court 24-32 London Road Newbury Berkshire RG14 1JX
Registered in England and Wales No. 6080792

**Tree Survey
Arboricultural Impact Assessment
Arboricultural Method Statement**

Relating to:

**14 Queensbury Place, Blackwater,
Camberley, Surrey
GU17 9LX**

Produced for:

Yateley Drawing Service Ltd.

Prepared by:

Chalice Consulting Ltd.

Mr. David Chalice

Dip. Arb. (RFS), M.Arbor.A, MICFor

Date:

2nd October 2012

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INTRODUCTION

1.0 Frequently Used Key Terms and Abbreviations

Tree Preservation Order	TPO
Arboricultural Method Statement	AMS
British Standard 5837:2012 – Recommendations for Trees in Relation to Design, Demolition and Construction	BS 5837
Root Protection Area/Root Protection Areas	RPA/RPAs
Local Planning Authority	LPA

2.0 The Proposal

2.1 It is proposed to extend the single storey part of the house to provide two storeys over the existing footprint without the requirement for excavations.

3.0 Instructions and Purpose

3.1 This report has been commissioned by Yateley Drawing Service Ltd. to;

- Survey the trees in accordance with British Standard (BS 5837) 5837:2012 'Trees in Relation to Design, Demolition and Construction- Recommendations'.
- Detail the arboricultural impact of the proposed project.
- Develop a tree protection strategy for the duration of the development including any demolition works.
- Provision of the above information is designed to address the requirements of the LPA in terms of the arboricultural information necessary to register and determine the planning application.

4.0 Scope

4.1 In surveying the trees to the requirements of BS 5837, trees on and immediately adjacent to the site with a stem diameter over 75mm have been included. Large shrubs and hedges have been included where these are considered to be of significant amenity value. These are particularly important where they provide boundary screening. For clarity and ease of data interpretation, large shrubs have been classified as trees.

4.2 A full hazard assessment of the trees (including the assessment of decay or defects and their impact), has not been undertaken as this is considered beyond the scope of this report. Any obvious hazards and defects have been identified in the Tree Survey Schedule and appropriate works recommended for immediate action.

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5.0 Documents Supplied/Used

Document	Obtained From	Format/Ref.
Layout plans and Topographical Survey	Yateley Drawing Service Ltd.	Dwg.

6.0 Site Details

- 6.1 The site is comprised of a detached residential dwelling with an attached garage, associated gardens and hard surfaces.

Photograph of Site Frontage



- 6.2 The site is within the administrative jurisdiction of Hart District Council.

- 6.3 I have not been instructed to ascertain the protection status of any of the trees on or near the site. However, Mr. Robert Toll (Tree Officer for Hart District Council) has commented on the application and in his submission he has stated that Oak trees T1, G2 and T3 are covered by a TPO (reference TPOHDC127-1981).

TREE SURVEY

7.0 Survey Method

- 7.1 The site and trees were inspected on 1st October 2012.
- 7.2 The trees were inspected from ground level and no climbing inspections were undertaken.
- 7.3 Heights of the trees were estimated by eye and crown spreads were estimated by pacing.

8.0 Tree Details

- 8.1 The total number of records is as follows:
Individual Trees (T): 3
Tree Groups (G): 3
- 8.2 The tree details and proposed works are presented in the Tree Survey Schedule with Recommended Tree Works at **Appendix 2** and tree positions are shown on the Tree Protection Plan at **Appendix 3**.
- 8.3 The quality and value of the tree stock has been broken down by BS 5837 quality grade. The grading system can be summarised as follows:

A Grade – trees of high quality and value with a life expectancy of more than 40 years

B Grade – trees of moderate quality and value, with a life expectancy of more than 20 years

C Grade – trees of low quality and value, with a life expectancy of more than 10 years

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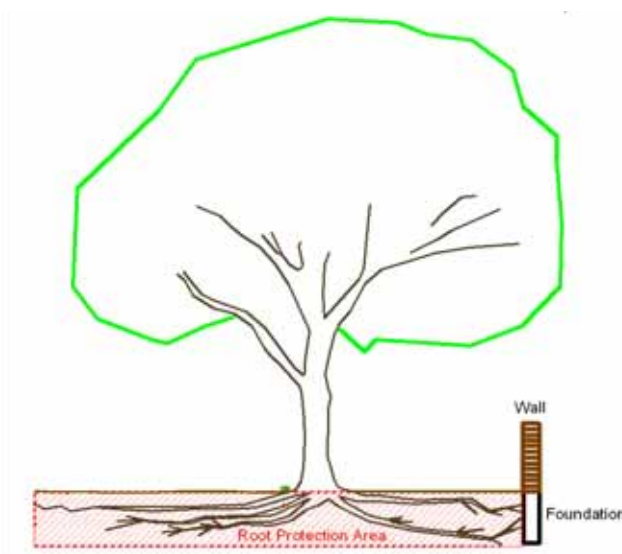
U Grade – trees for removal, with a life expectancy of less than 10 years

Quality and Value of Existing Tree Stock

	A Grade	B Grade	C Grade	U Grade
No. of Tree Records by Grade	3	0	2	1

- 8.4 The RPAs of the trees are included in the Tree Survey Schedule with reference to Table 1 of BS 5837. The RPA is the area, measured in m², which is calculated in accordance with the BS 5837 using the stem diameter of the trees. This should provide retained trees with sufficient rooting environment to survive the proposed development. BS 5837 provides for the shape of the RPA to be modified from the starting point of a circle to account for site features where rooting may be restricted, as long as the total area remains the same.

Diagrammatic Representation of a Restricted Root Protection Area



Modified RPAs

Tree No.	Impediments to Normal Rooting
T1 and G2	Existing house

ARBORICULTURAL IMPACT ASSESSMENT

9.0 Introduction to Arboricultural Impact Assessment

9.1 This section comprises an assessment of the impact the proposed works detailed in Section 2 above have on trees. It considers the arboricultural impact and how this may be mitigated.

10.0 Tree Removal and Retention

10.1 The proposed scheme provides for the retention and protection of all the trees surveyed with the exception of T6, which is in poor condition and should be removed and replaced irrespective of the development proposal.

11.0 Tree Works

11.1 Tree works are recommended for good arboricultural practice and to ensure reasonable clearance from the proposed construction. The pruning described in the Tree Survey Schedule with Recommended Tree Works at **Appendix 2** will not adversely affect the trees or their contribution to local amenity.

12.0 Incursions into Root Protection Areas

12.1 There are no incursions into the RPAs of retained trees within this scheme.

12.2 No new underground services are to be installed within the RPAs of the retained trees.

13.0 Proximity Issues and Shading

13.1 The approximate shade segments for key retained trees have been plotted using the ArborCAD software system, which identifies the area of the site which may be affected by shade during the course of the day. The shade segment does not represent the area which will be in shade all day

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long; however, it represents an area which **may** be affected **at some point** during the course of a day by shade depending on the time of day and season.

- 13.2 The juxtaposition between the retained trees and the proposed development is in accordance with BS 5837 and should not lead to future pressure to heavily prune or remove retained trees for the following reasons:
1. Tree pruning has been recommended to provide adequate separation between the proposed extension and the retained trees.
 2. Low maintenance gutters can be specified to negate the need for removing leaves from the rainwater collection system.
 3. Any future tree pruning works are unlikely to be over and above those required for general maintenance purposes.

14.0 Summary of Arboricultural Impact

- 14.1 In summary, the arboricultural impact of the proposed scheme is relatively minor as no trees are to be removed as a result of the proposed extension and minimal pruning works are required. The retained trees can be afforded an adequate degree of protection in accordance with the BS 5837 as detailed in the AMS.

ARBORICULTURAL METHOD STATEMENT

15.0 Introduction to Arboricultural Method Statement

- 15.1 To safeguard the retained trees (both above and below ground parts) during the development works and preserve the soil structure of areas which have been allocated for new planting, it will be necessary to implement tree protection measures as outlined below.
- 15.2 The basic principle is that the area inside the tree protective fencing and where ground protection has been used is to be protected for the duration of the works.

- 15.3 A copy of this AMS shall be maintained on site at all times and made available to all site personnel.
- 15.4 All site personnel shall be made aware of the key impact of this AMS and be given an arboricultural induction by the Site Manager. An Induction Form is attached at **Appendix 6**. A copy of the Induction Form will be signed by all site personnel to confirm that they have understood the issues involved.
- 15.5 As of 2005, Local Planning Authorities have powers to serve **Temporary Stop Notices** if agreed tree protection measures are not carried out. Adhering to this AMS will ensure that such costly and time consuming action is avoided.

16.0 Pre-Commencement Meeting

- 16.1 A pre-commencement site meeting, involving representatives from the Development Company, the Arboricultural Consultant and the LPA Tree Officer will be held to ensure that all aspects of the tree protection process are understood and agreed. A record of the meeting will be communicated to all parties by the Arboricultural Consultant.

17.0 General Site Precautions

- 17.1 The following points will be observed at all times:
- No fires will be lit on site.
 - No access will be permitted inside the tree protective fencing.
 - No materials, equipment or debris will be stored within the tree protective fencing.
 - Notice boards, telephone cables or other services will not be attached to any parts of retained trees.
 - Materials which will contaminate the soil (e.g. concrete mixings, diesel oil and vehicle washings) will not be permitted to migrate into the RPAs of retained trees.

18.0 Tree Works

- 18.1 All works will be carried out in accordance with BS 3998:2010 'Recommendations for Tree Work' (as amended) and to current arboricultural best practice. Tree works will be carried out by a suitably qualified and experienced Arboricultural Contractor holding the necessary insurance cover. This contractor should carry out the relevant site specific risk assessments and record such information prior to commencement of tasks and work in accordance with current health and safety standards, practices and legislation. A list of such contractors is available from the Arboricultural Association at www.trees.org.uk.
- 18.2 Oak trees T1, G2 and T3 are protected by virtue of being covered by a TPO. Submission of this AMS in connection with a planning application should be construed as a formal application to carry out those works specified in the Tree Survey Schedule with Recommended Tree Works at **Appendix 2**. It is recommended that this matter be clarified in writing with the LPA prior to any works commencing.
- 18.3 If additional pruning of trees is required to facilitate the proposed works or access for machinery/plant, the Arboricultural Consultant will be contacted to advise on appropriate works and liaise with the LPA as necessary.

19.0 Tree Protective Fencing

- 19.1 Tree protective fencing is used to ensure that the RPAs of retained trees are safeguarded. These measures may also be employed to protect areas of ground for new landscaping.
- 19.2 The positioning and specification of the fencing are shown in **Appendix 3** and **Appendix 4**. In this case, either **Hoarding or fixed Heras** fencing would be effective.
- 19.3 The protective fencing will remain in position for the duration of the development. Clear signs will be attached to the fencing once erected – suggested wording will be '**Protected Trees – Keep Out**'.

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20.0 Ground Protection

20.1 A provision has been made to install ground protection between the edge of the proposed development and the tree protective fencing. This provides adequate working space to permit the safe and practical completion of construction works whilst protecting the rooting environment of the retained trees (position shown in **Appendix 3** and specification shown in **Appendix 4**). The ground protection will remain in place for the duration of the development, including the removal of any existing structures.

21.0 Site Access/Hard Surfaces

21.1 The existing driveway is suitable for site access during construction and little or no damage is anticipated to the root systems of retained trees.

22.0 Demolition

22.1 There is no requirement for demolition within any of the phases within this proposed development.

23.0 Underground Services

23.1 The proposed scheme can make use of existing services and there is no requirement for new excavations in the vicinity of retained trees.

24.0 Foundations

24.1 The foundations of the existing house will be used to support the proposed extension, therefore, there is no requirement to carry out any excavations for the proposed development. If at any stage underpinning is required, then I should be contacted to ascertain the implications of the proposed excavations on the retained trees.

25.0 Construction/Hard Landscaping

- 25.1 Construction is taken to include erection of scaffolding and the installation of associated hard landscaping features such as retaining walls and patios.
- 25.2 In this instance, retained trees will not impede the erection of scaffolding and no ancillary structures are proposed within the RPAs of the retained trees.
- 25.3 Subject to all of the above tree protection measures being implemented, construction works may proceed without risk of damage to retained trees.

26.0 Soft Landscaping/Boundary Fencing

- 26.1 Soft landscaping will be undertaken when heavy machinery has been removed from site and tree protective fencing taken down. The following points will be observed:
- Care will be taken not to compact the soil within the RPAs of retained trees or where new tree planting is to be carried out.
 - No changes in ground levels will occur.
 - Unwanted vegetation will be removed manually or using contact herbicides that will not damage existing tree roots.
 - No irrigation or drainage pipes will be installed within the RPAs of retained trees.
 - If soil has been compacted in areas where planting is proposed, measures to improve soil structure (e.g. decompaction) may be necessary to facilitate successful plant establishment.
 - Where fence posts are being installed within the RPAs of retained trees, this will be undertaken under arboricultural supervision. Fence post holes shall be lined with polythene where concrete is used to prevent the harmful cement leaching into the soil and damaging the roots of the retained trees.

27.0 Sequencing and Supervision

27.1 Effective tree protection relies on following a logical sequence of events and arboricultural inspection/supervision.

27.2 Works which have the potential to affect trees will be supervised by a suitably qualified and experienced Arboricultural Consultant. Regular inspection visits will also be undertaken to ensure that tree protection measures are being adhered to. The final details of supervision and the frequency of inspection visits will be agreed at the pre-commencement meeting. The Arboricultural Consultant will make a record of visits, which will be attached to the site copy of the AMS for inspection and communicated in writing to the LPA. An example of the Site Inspection Record is found in **Appendix 5**.

Sequencing and Supervision

Stage	Action	Personnel
1	Issue arboricultural report to site manager	Client/Developer
2	Give Arboricultural Consultant (AC) at least a week's notice of pre-commencement meeting	Client/Developer
3	Pre-commencement meeting	Site Manager, Tree Officer and AC
4	Arboricultural induction	All personnel
5	Carry out tree works	AC to monitor
6	Erect tree protective fencing and install ground protection	AC to inspect
7	Erect scaffolding and carry out construction (including hard landscaping)	AC to monitor
8	Remove machinery/plant	AC to monitor
9	Remove tree protective fencing/ground protection	AC to monitor
10	Carry out soft landscaping and erect fencing	Brief landscaping company on site/supervise

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28.0 Amendments

- 28.1 Issues sometimes arise on development sites which require amendments to the previously agreed tree protection details. Any amendments to this AMS will be discussed with the Arboricultural Consultant and approved in writing by the LPA prior to being implemented. Copies of paperwork relating to any amendments shall be attached to the site copy of the AMS to provide a definitive record of what has been agreed.

Appendix 1

List of Contacts

Contact	Name	Company/LPA	Contact Number(s)	Report Issued to?
Client	Mr. Chris Barnes	Yateley Drawing Service Ltd.	01252 660136	Yes
Arboricultural Supervisor	Mr. David Challice	Challice Consulting Ltd.	01306 743374 07831 855764	N/a
LPA Tree Officer	Mr. Robert Toll	Hart District Council	01252 774419	No

Appendix 2

Site: 14 Queensbury Place, Blackwater, Camberley, Surrey GU17 9LX

Surveyor: Mr. David Challice

Date: 1st October 2012

Our Ref: CC/136 AR1657

Tree No.	English Name	Height	Crown Spread	Ground Clearance	Age Class	Stem Diameter	Protection Multiplier	Protection Radius	Growth Vitality	Structural Condition	Landscape Contribution	B.S. Cat	Sub Cat	Useful Life	Observations
T1	Oak, Common 1 Number	20	6 8 8 8	GC 3 FB 8 S	Mature	980 1	12	11.8	Normal	Good	High	A	2	40+	Tree located off site Ivy smothering stem prevented proper inspection or stem measurement
Recommended Works/ Reason for Works:		Cut back over proposed extension by approximately 2m to give 2m clearance		Recommended to permit development											
G2	Oak, Common 2 Number	20	8 8 8 8	GC 6 FB 4 S	Mature	600 1 ave	12	7.2	Normal	Good	High	A	2	40+	Trees located off site Ivy smothering stems prevented proper inspection or stem measurements
Recommended Works/ Reason for Works:		Cut back over proposed extension by approximately 2m to give 2m clearance		Recommended to permit development											
T3	Oak, Turkey 1 Number	20	8 8 8 8	GC 4 FB 9 N	Mature	850 1	12	10.2	Normal	Good	High	A	2	40+	Tree located off site
Recommended Works/ Reason for Works:		Cut back over proposed extension by approximately 1.5m to give 2m clearance		Recommended to permit development											
G4	Holly and Hawthorn 5 Number	7	3 3 3 3	GC0.5 FB 0.5 N	Mature	300 1 ave	12	3.6	Normal	Fair	Low	C	2	40+	Trees plotted on plan by eye Trees located off site Ivy smothering stems prevented proper inspection or stem measurements Not all trees plotted
Recommended Works/ Reason for Works:		No work proposed													

Notes:

1. Height describes the approximate height of the tree measured in meters from ground level.
2. The Crown Spread refers to the crown radius in meters from the stem centre and is shown above on each of the four compass points (i.e. N, S, E, W).
3. Ground Clearance (GC) is the height in meters of crown clearance above adjacent ground level, the height of the first significant branch (FB) and the direction in which it is growing.
4. Stem Diameter is the diameter of the stem measured in millimeters at 1.5m from ground level. The stem diameter may be estimated (est) where access is restricted or an average (ave) taken for groups or multi-stemmed trees with more than five stems. The number of stems is also indicated.
5. Protection Multiplier is the number used to calculate the tree's protection radius and area and is shown as 12.

6. Protection Radius is a radial distance measured from the trunk centre.
7. Growth Vitality - Normal growth, Moderate (below normal), Poor (sparse/weak) or Dead (dead or dying tree).
8. Structural Condition - Good (no or only minor defects), Fair (remedial defects), Poor (major defects present).
9. Landscape Contribution - High (prominent landscape feature), Medium (visible in landscape), Low (secluded/among other trees).
10. B.S. Cat refers to British Standard 5837:2012 Table 1 and refers to tree/group quality and value; 'A' - High, 'B' - Moderate, 'C' - Low, 'U' - Remove.
11. Sub Cat refers to the retention criteria values where 1 is Arboricultural, 2 is Landscape and 3 is Cultural including Conservational, Historic and Commemorative.
12. Useful Life is the tree's estimated remaining contribution in years.

Site: 14 Queensbury Place, Blackwater, Camberley, Surrey GU17 9LX

Surveyor: Mr. David Challice

Date: 1st October 2012

Our Ref: CC/136 AR1657

Tree No.	English Name	Height	Crown Spread	Ground Clearance	Age Class	Stem Diameter	Protection Multiplier	Protection Radius	Growth Vitality	Structural Condition	Landscape Contribution	B.S. Cat	Sub Cat	Useful Life	Observations
G5	Hawthorn	4	1	GC 0	Young	100	12	1.2	Normal	Good	Low	C	2	40+	Trees located off site
approx 8	Number		1 1 1	FB 0 N		1									Not all trees plotted on plan

Recommended Works/ No work proposed

Reason for Works:

T6	Thorn	2	2	GC0.5	Early Mature	100	12	1.2	Poor	Poor	Low	U	<10	Dead central leader	
1	Number		2 2 2	FB 0.5 N		1									

Recommended Works/ Fell and replant

Advisable for good arboricultural practice

Reason for Works:

Notes:

1. Height describes the approximate height of the tree measured in meters from ground level.
2. The Crown Spread refers to the crown radius in meters from the stem centre and is shown above on each of the four compass points (i.e. N, S, E, W).
3. Ground Clearance (**GC**) is the height in meters of crown clearance above adjacent ground level, the height of the first significant branch (**FB**) and the direction in which it is growing.
4. Stem Diameter is the diameter of the stem measured in millimeters at 1.5m from ground level. The stem diameter may be estimated (**est**) where access is restricted or an average (**ave**) taken for groups or multi-stemmed trees with more than five stems. The number of stems is also indicated.
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10. B.S. Cat refers to British Standard 5837:2012 Table 1 and refers to tree/group quality and value; 'A' - High, 'B' - Moderate, 'C' - Low, 'U' - Remove.
11. Sub Cat refers to the retention criteria values where 1 is Arboricultural, 2 is Landscape and 3 is Cultural including Conservational, Historic and Commemorative.
12. Useful Life is the tree's estimated remaining contribution in years.

Appendix 3

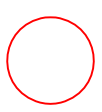


Indicative

Notes:



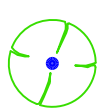
Shade patterns for key retained trees



BS rooting area for all trees to be retained on site has been modified to account for site features



A Grade



B Grade



C Grade



U Grade (remove)



Position of fixed Heras-style fencing



Position of ground protection

Plan to be printed in colour and to scale

DRAWING TITLE

Tree Protection Plan

PROJECT

14 Queensbury Place,
Blackwater, Camberley,
Surrey GU17 9LX

SCALE

1:200 @ A3

DATE 02.10.2012

DRAWN BY D.C.

DRAWING NUMBER

TPP-CC/136 AR1657

REV

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Challice Consulting Ltd.

Holmwood Farm Grange

Horsham Road

North Holmwood

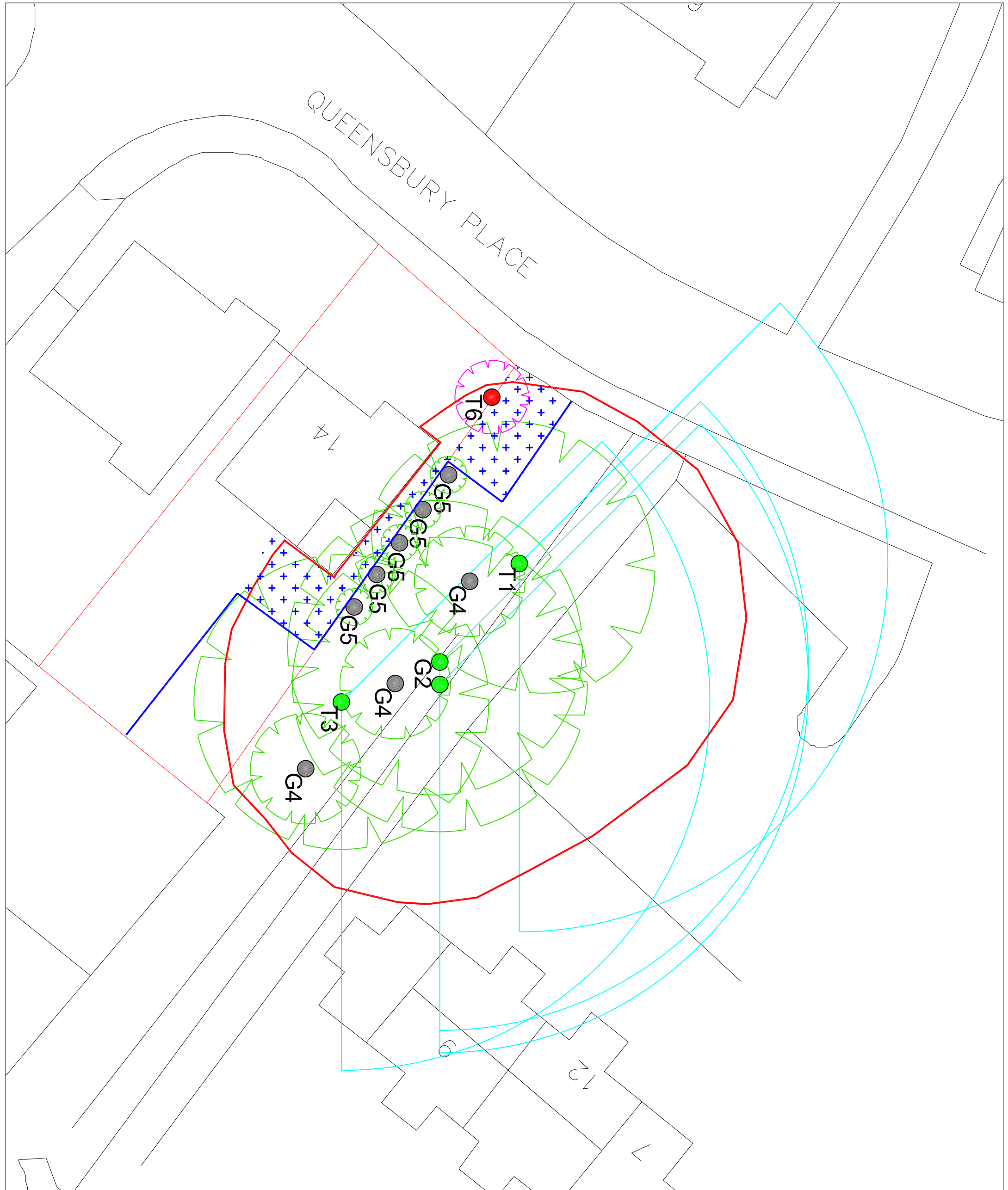
Dorking

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Appendix 4



Example of Heras Fencing

2.4m Hoarding

- 3.0m 100 x 100mm square wooden posts.
- 3 x 38 x 87mm wooden rails affixed to posts.
- 2.4m x 1200 outside board panels (12-15mm) affixed to rails.
- 50 x 100mm angled supporting struts affixed internally (quantity as required).

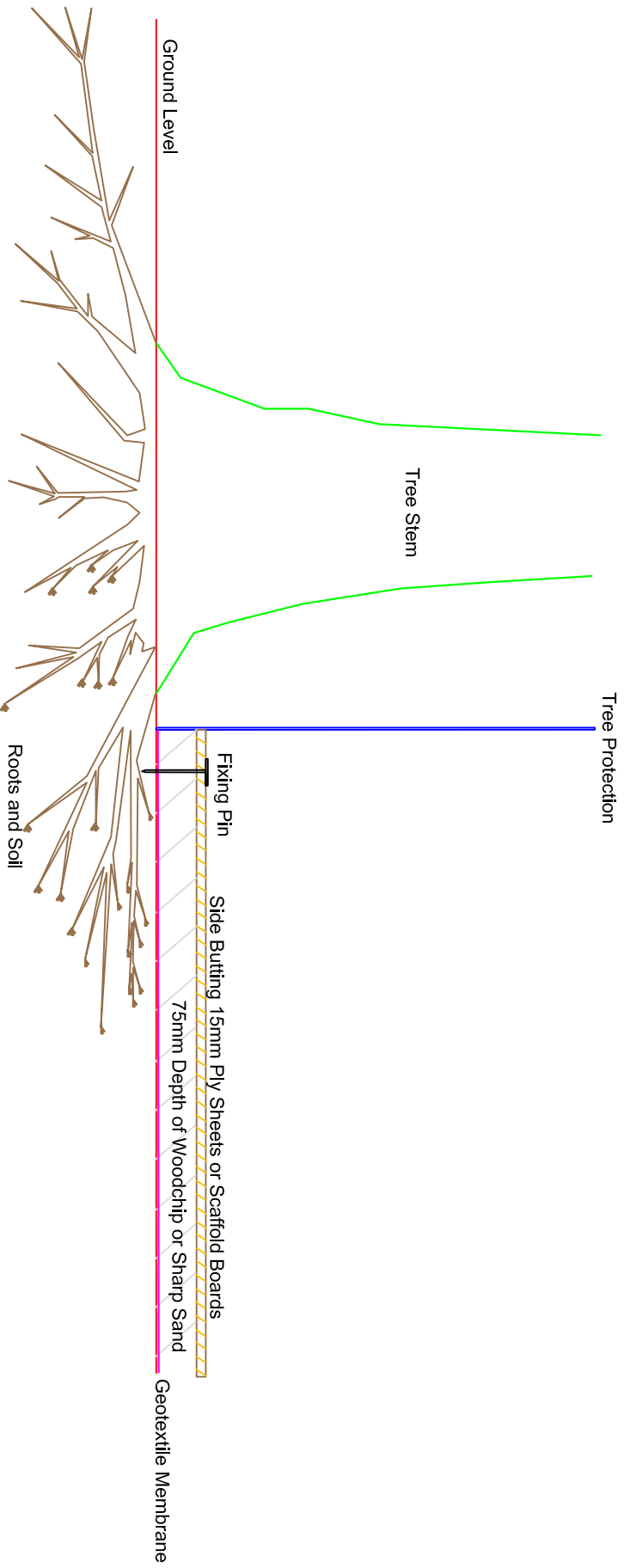
Supporting posts fixed into position using concrete.

All post holes to be hand excavated.

Post holes to be no larger than 300 x 300mm.



Example of Hoarding



- Specification:**
1. Level surface by hand
 2. Lay Geotextile Membrane
 3. Lay minimum of 75mm depth of Sharp Sand or Woodchip
 4. Lay side butted Ply Sheets or Scaffold Boards
 5. Maintain ground protection during the construction process
 6. Remove ground protection upon completion of construction

DRAWINGS TITLE

Example of Ground Protection



Challice Consulting Ltd.
 Holmwood Farm Grange
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 North Holmwood
 Dorking
 Surrey
 RH5 4JR
 Tel: 01306 743374

Appendix 5

Site: Sample
Inspected By: D. Challice
Client: The Builder
Site Agent: No staff present

Date of Inspection:
Time of Inspection:

Tree Protective Fencing

Tree protection in correct location

Comments/Action

No action at this time



Tree protection T23

Agreed Construction Exclusion Zone

No debris within construction exclusion zone

Comments/Action

No action at this time



Tree protection T14

Amendments to Documentation Required

No amendments required

Comments/Action

Remedial Works

Install protection as per Arboricultural Method Statement

General Comments

No ground protection in place for T11,12,14,17 & 22
Sweet Gum T1 not removed

Appendix 6

Induction Form for all Site Personnel:

Site Name:.....

- I have had explained to me by the Site Manager the key implications of the Arboricultural Method Statement relating to the development at the above site.

- I am aware that the tree protective fencing must remain in its original position and must not be moved without the approval of the appointed Arboricultural Consultant.

- I understand that certain operations must be supervised by the appointed Arboricultural Consultant and that these operations must not start until the consultant is present and has given approval.

- I confirm that I will bring any concerns about potential damage to trees to the attention of the Site Manager.

- I am aware that I must not cause damage to any of the retained trees on or adjacent to the site. Damage may be caused by direct means (i.e. physical damage caused to roots or the trunk/branches of the tree) or by indirect means (e.g. by fire or toxic materials entering the rooting environment of the tree).

Print Name:.....

Sign Name:.....

Date:.....