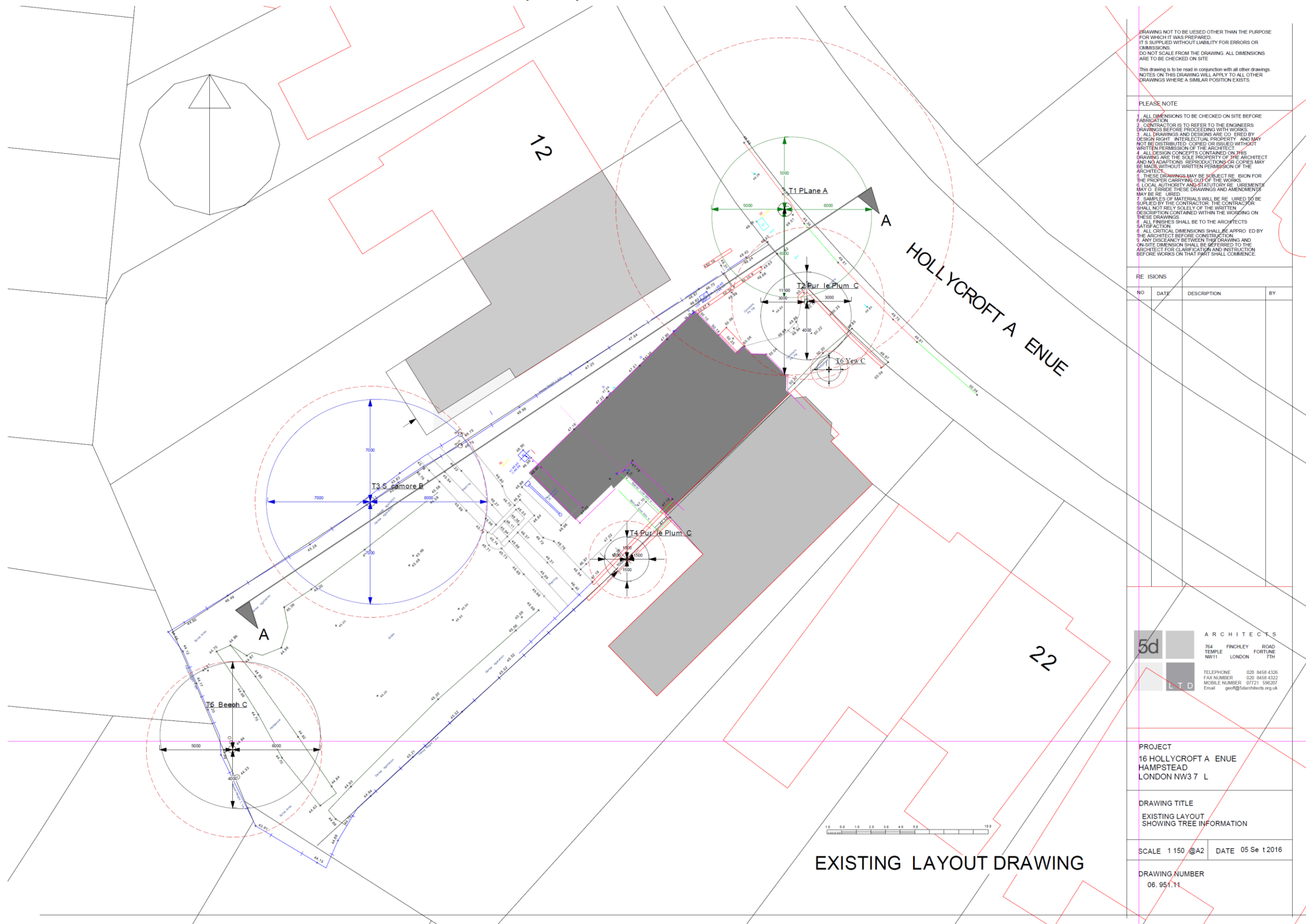


APPENDIX MD2

Tree constraints plan (TCP) showing existing plot layout with tree numbers, BS5837: 2012 colour codes (A – Green, B – Blue, C – Grey, U - Red) and root protection areas (dashed circles). The plan has been provided separately as a PDF at a scale of 1: 150 @A2.



DRAWING NOT TO BE USED OTHER THAN THE PURPOSE FOR WHICH IT WAS PREPARED. IT IS SUPPLIED WITHOUT LIABILITY FOR ERRORS OR OMISSIONS. DO NOT SCALE FROM THE DRAWING. ALL DIMENSIONS ARE TO BE CHECKED ON SITE.  
This drawing is to be read in conjunction with all other drawings. NOTES ON THIS DRAWING WILL APPLY TO ALL OTHER DRAWINGS WHERE A SIMILAR POSITION EXISTS.

PLEASE NOTE  
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE FABRICATION.  
2. CONTRACTOR IS TO REFER TO THE ENGINEERS DRAWINGS BEFORE PROCEEDING WITH WORKS.  
3. ALL DRAWINGS AND DESIGNS ARE COVERED BY DESIGN RIGHT, INTELLECTUAL PROPERTY, AND MAY NOT BE DISTRIBUTED, COPIED OR ISSUED WITHOUT WRITTEN PERMISSION OF THE ARCHITECT.  
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5. THESE DRAWINGS MAY BE SUBJECT TO REVISION FOR THE PROPER CARRYING OUT OF THE WORKS.  
6. LOCAL AUTHORITY AND STATUTORY REQUIREMENTS MAY OVERRIDE THESE DRAWINGS AND AMENDMENTS MAY BE REQUIRED.  
7. SAMPLES OF MATERIALS WILL BE REQUIRED TO BE SUPPLIED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT RELY SOLELY ON THE WRITTEN DESCRIPTION CONTAINED WITHIN THE WORKING ON THESE DRAWINGS.  
8. ALL FINISHES SHALL BE TO THE ARCHITECT'S SATISFACTION.  
9. ALL CRITICAL DIMENSIONS SHALL BE APPROVED BY THE ARCHITECT BEFORE COMMENCEMENT OF WORKS.  
10. ANY DISCREPANCY BETWEEN THIS DRAWING AND ON-SITE DIMENSIONS SHALL BE REFERRED TO THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION BEFORE WORKS ON THAT PART SHALL COMMENCE.

REVISIONS			
NO	DATE	DESCRIPTION	BY

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PROJECT  
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HAMPSTEAD  
LONDON NW3 7 L

DRAWING TITLE  
EXISTING LAYOUT  
SHOWING TREE INFORMATION

SCALE 1:150 @A2 DATE 05 Sep 2016

DRAWING NUMBER  
06.951.11

EXISTING LAYOUT DRAWING

**APPENDIX MD3**  
**BS5837 schedule of protection areas**

<b>Tree No.</b>	<b>Species</b>	<b>Trunk diameter (mm)</b>	<b>BS5837: 2012 Root protection area, RPA, (m<sup>2</sup>)</b>	<b>BS5837: 2012 Radial protection distance (m)</b>
T1	Plane	960	417.0	11.5
T2	Purple plum	430	83.7	5.2
T3	Sycamore	660	197.1	7.9
T4	Purple plum	220	21.9	2.6
T5	Beech	500	113.1	6.0
T6	Yew	170	13.1	2.0







## APPENDIX MD6

# TREE AWARENESS – SITE INDUCTION SHEET

SITE NAME: 16 Hollycroft Avenue, London NW3 7QL

**Trees are an important part of this development and all trees noted on the Tree Protection Plan are protected by planning conditions and by virtue of being in a Conservation Area. Trees must not be damaged in any way, including indirectly through compaction/contamination of soil, so that they can fully integrate into the finished project and stay healthy well into the future. All persons working on this site have a responsibility to be aware of trees and to abide by tree protection procedures.**

### How can trees can be damaged?

*Above the ground* – contacts and impacts with branches and trunk (for example by machine operations: piling rigs, high-sided vehicles, crane use, fixings to trunk, unauthorised cutting back of branches). Make sure there is adequate clearance under the tree canopy and don't stray close to the trunk. Damage to bark allows infections to enter the tree.

*Below the ground* – roots spread out from the trunk horizontally at shallow depth and are therefore easily damaged. Vehicle and pedestrian movements and storage of materials on unprotected ground causes compaction, especially in wet weather, and must be avoided. Soil stripping during site clearance or landscaping is prohibited in root protection areas. The effects of root damage may take some time to become obvious, but can result in disfiguring dieback of leaves and branches, or even death.

### Tree protection procedures

Provided that the simple steps below are followed most tree protection is straightforward:

- Stay out of tree Construction Exclusion Zones (CEZs). These are the areas of ground surrounding retained trees that are protected by barriers and/or ground protection. If you need to go into a CEZ, you must first gain authorisation from the Site Manager.
- No construction activity of any description within CEZs, e.g. soil stripping, cement mixing, services installation, storage of materials etc.
- No fires within 20m of trunk of any retained tree.
- If authorised to work within a CEZ, for example, for installation of an above-ground no-dig driveway you must follow the procedures set out in the **Arboricultural Method Statement**.
- If damage occurs, you must inform the Site Manager who must, in turn, inform the project arboriculturist.

### Planning Authority enforcement action needs to be avoided:

- 'Breach of Conditions' notices can prevent a site from being signed-off.
- 'Temporary Stop Notices' halt site operations and result in associated high costs.
- Wilful damage/destruction of TPO/Conservation Area trees can result in company and/or individual prosecutions - fines can be anything up to £20,000 (County Court fines are unlimited). Remember that fines may apply to the person committing the offence as well as the site owner and main contractors!

I have received site induction in tree awareness and tree protection procedures

PRINT NAME

SIGN

DATE

## APPENDIX MD7

### Qualifications and Experience

Dr Martin Dobson has been engaged in research and advisory work on trees since graduating in 1986 with a BSc (Hons) Degree in Biology. Subsequent postgraduate research led to the award of a Doctor of Philosophy (DPhil) Degree in Tree Physiology in 1990.

Postgraduate studies began in 1986 at the University of Ulster and continued in 1987 at the Forestry Commission's Research Station in Hampshire and focussed on the influence of air pollution on trees. Upon completion of this research in 1989 Dr Dobson was employed by the Forestry Commission and worked in both the Tree Pathology and Environmental Research Branches. During the next six years he was responsible for Department of Environment research contracts focussing on air pollution, climate change, de-icing salt damage to trees, woodland establishment on landfills and tree root research. He has authored two books: *De-icing Salt Damage to Trees and Shrubs* and *The Potential for Woodland Establishment on Landfill Sites*. He concluded his time at the Forestry Commission as Project Manager for research into the interaction between trees, roots and clay soils which included laboratory investigations, testing of root barriers and a three-year field-scale monitoring programme investigating the influence of woodland and grassland on the moisture status of clay soils.

In 1995 Martin joined the Arboricultural Advisory and Information Service as a senior Arboricultural Advisor. The AAIS advised the (then) Department of the Environment on matters concerning amenity trees and was the principal source of technical advice and information to the arboricultural profession as well as landscape architects, engineers, the horticultural industry and private individuals. A large proportion of advisory work focussed on issues relating to tree diseases and interactions between trees and buildings.

In 1997 Martin started an arboricultural consultancy practice specialising in subsidence and tree root claims, planning and development, tree safety and disease diagnosis. He was a local authority retained consultant providing expertise on tree protection practice and legislation from 1999 - 2006 and has dealt with several thousand Tree Preservation Order and Conservation Area applications.

He has extensive experience as an Expert Witness in the High Court, County Court and Magistrates Court. Notable recent cases he has been involved in include *Robbins v London Borough of Bexley* and *Khan v London Borough of Harrow* and *Kane*.

From 1995 to 2011 he was an examiner for the Professional Diploma in Arboriculture for the Royal Forestry Society/ABC Awards and he is currently an assessor for the Arboricultural Association Registered Consultant scheme. He has been a guest lecturer for the Middlesex University Countryside Management MSc course and for Portsmouth University. Together with Dr Giles Biddle he has devised and teaches introductory and advanced courses on trees and subsidence and co-presents seminars on trees and climate change with Professor Andy Moffat for the Arboricultural Association.

In addition to over 30 publications in scientific and technical journals he is the author of *Arboriculture Research and Information Note 130/95/ARB Tree Root Systems*, and leading author of:

*Driveways Close to Trees*. Arboricultural Practice Note 1. AAIS, Farnham.

*Trees in Dispute*. Arboricultural Practice Note 3. AAIS, Farnham.

*Root Barriers and Building Subsidence*. Arboricultural Practice Note 4. AAIS, Farnham.

He is a Fellow and Registered Consultant of the Arboricultural Association and is a Member by examination of the Expert Witness Institute.

## **Qualifications and Experience**

### **Iain Waddell**

Iain Waddell has been working with trees since 2010 when he retired from a career of professional Ski Coaching in Canada and New Zealand.

He began his studies at Sparsholt College in Winchester where he gained a Level Three extended Diploma in Arboriculture. During his studies he worked for a Petersfield based firm – Sequoia Tree Services, starting as a groundsman but rapidly developing his skills to become a lead climber. After 4 years Iain became a Company Director and began to expand the business.

Whilst carrying out tree works at Sequoia Iain developed not only his skills with a chainsaw but also his interest in the legal side of tree management. This prompted him to attend an Arboricultural Consultancy course through Tree Life Training AC Ltd based at Westonbirt Arboretum which resulted in the attainment of a Level 6 Diploma in Arboriculture. His choice of subject of specialist research was the management of veteran trees.

Iain is a member of the Arboricultural Association and is enjoying working as a member of Martin Dobson Associates.