

**Protective Fencing**

To be erected prior to the commencement of all works on site, and retained in place throughout construction.

**Default specification:** To comprise either 2.4m wooden site hoarding; or a 2.3m high scaffolding framework comprising of vertical and horizontal framework, well braced to resist impacts, with uprights to be spaced at a maximum of 3.0m intervals and driven into the ground by a minimum of 600mm. On to this, standard anti-climb welded mesh panels are to be securely fixed to each other with at least two scaffold clamps and to the scaffold framework with wire.

**Secondary Specification:** To comprise of 2m tall welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabilizer struts, which should be attached to a base plate and secured with ground pins.

All weather notices should be erected at regular intervals on the weld mesh panels with words such as "Construction exclusion zone - Keep out".

**Trunk Protection**

**Protective trunk Wrapping:**  
To be attached to the trunks of retained trees prior to the commencement of all works on site, and retained in place throughout construction. To comprise of a minimum of three wrappings of clean dry hessian around the trunk from ground level up to 2.3m high and held in place using sisal. Onto the hessian a minimum of three wraps of chestnut palling and is to be held in place by 2.50mm mild steel galvanized wire in three locations and fixed into place using fencing staples fixed into the chestnut palling.

**Protective hoarding:**  
To be erected prior to the commencement of all works on site, and retained in place throughout construction. To comprise of 2.4m wooden site hoarding constructed upon a timber frame work situated around the outside of the planting pit. Where the timber frame is constructed around the tree trunk a minimum of 4 layers of clean dry hessian is to be wrapped around the trunk to protect the bark.

All weather notices should be erected at regular intervals on the weld mesh panels with words such as "Construction exclusion zone - Keep out".

**Ground boarding**

New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.

Note The ground protection might comprise one of the following:

- a) for pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100mm depth of woodchip), laid onto a geotextile membrane;
- b) for pedestrian-operated plant up to a gross weight of 2t, proprietary inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150mm depth of woodchip), laid onto a geotextile membrane;
- c) for wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary system or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

**Manual Excavation**

Excavation within the RPAs will be initially undertaken by hand under direct on-site arboricultural supervision to a minimum of 750mm deep of any excavation, whether for proposed foundations, hard surfacing or underground services. The soil is to be loosened with the use of a fork or pick and then cleared with the aid of an air-spade and air-vac. All roots to be cut will be clearly severed with the use of a hand saw or secateurs. The edge of the excavation closest to the retained trees will be covered over with damp hessian to prevent drying out, and where necessary be shuttered to prevent soil collapse or contamination by concrete. If appropriate soil beneath the depth 750mm may be sheet piled, regular piles or individual piles. Any deeper excavations may be undertaken by a machine provided it works from outside of the RPA or has appropriate ground protection in place to move and work upon.

**Arboricultural Supervision**

The arboricultural consultant will be required to attend site to directly supervise all demolition and construction works that have to be undertaken within the root protection areas. This will include:

1. Re-location of protective measures.
2. Manual excavation along the line of the contiguous pile wall and of foundations for the extension and retaining wall within and adjacent to RPAs of tree nos. 1 - 3, 5, 11 and 13.
3. Any excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services.
4. Removal of protective measures and sign off.

**Arboricultural Method Statement**

Please refer to Arbttech Consulting Ltd. Tree Schedule and Arboricultural Method Statement, for full details on all surveyed trees and how all aspects of the the development maybe implemented without detriment to retained trees.

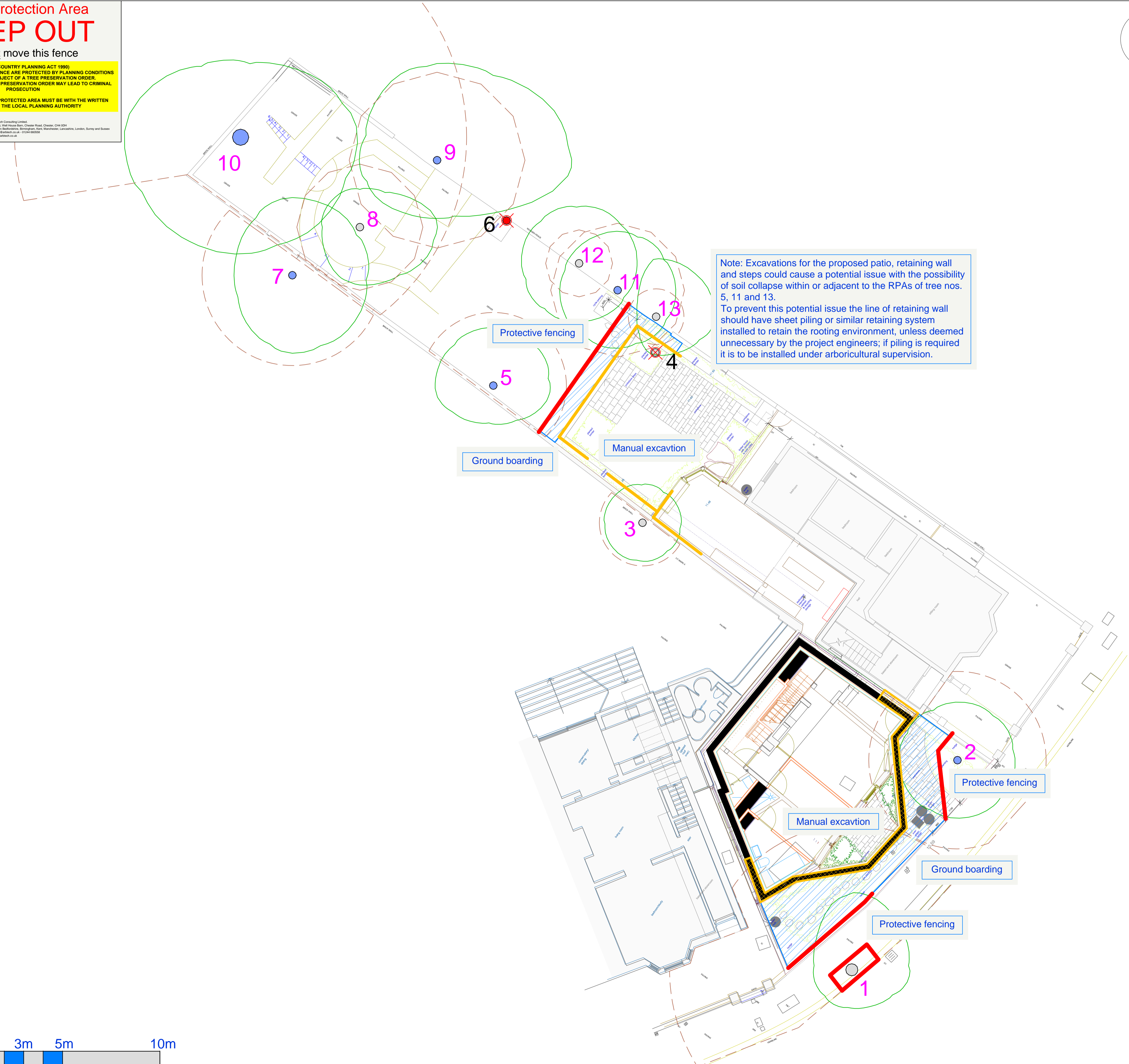
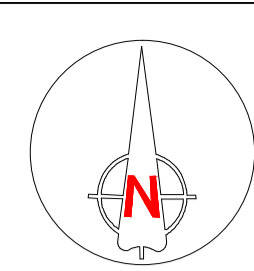
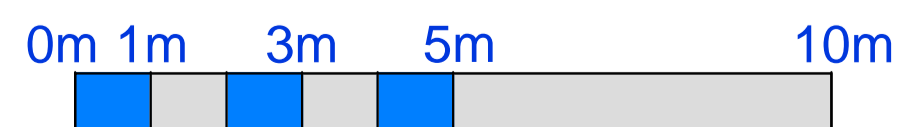
**Tree Protection Area**

**KEEP OUT**

Do not move this fence

(TOWN & COUNTRY PLANNING ACT 1990)  
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECT OF A TREE PRESERVATION ORDER.  
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION  
ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY

**ARBTECH** Consulting Limited  
Unit 3, West House Barn, Chester Road, Chester, CH1 0EH  
01244 300000  
www.arbtech.co.uk



Note: Excavations for the proposed patio, retaining wall and steps could cause a potential issue with the possibility of soil collapse within or adjacent to the RPAs of tree nos. 5, 11 and 13.  
To prevent this potential issue the line of retaining wall should have sheet piling or similar retaining system installed to retain the rooting environment, unless deemed unnecessary by the project engineers; if piling is required it is to be installed under arboricultural supervision.

**Tree Work Schedule**

No.	Species	Works	Category
2	Silver birch	Crown reduce NE 1/4 canopy to provide 2m clearance from building	B
3	Magnolia	Crown reduce NE canopy back to boundary	C
4	Apple	Fell to ground level, grind out stump	C
6	Elder	Fell to ground level, grind out stump	U
13	Sycamore	Crown lift S canopy to 4m above GL	C

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.  
All stumps are to be removed and the site is to be left as found.  
Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.



Project:  
**15a Parliament Hill,  
London,  
NW3 2SY.**

Client:  
**Miss K. Woollacott**

Drawing:  
**Tree Protection Plan**

Based on:  
**Gr 000Pground & B P0 0-1 bsmnt**

Drawing No:  
**Arbttech TPP 01 (Construction)**

Date:  
**Dec 2014**

Scale:  
**1:100 @ A1**

Drawn:  
**MGM**

Key:

Tree Nos.:	1	Tree Canopies:		Trunks:	
RPAs:		Category 'U' trees:		Category 'A' trees:	
Category 'B' trees:		Category 'C' trees:		Protective fencing:	
Trunk protection:		Ground boarding:		Manual excavation:	

All dimensions should be checked on site. No dimensions are to be scaled from this drawing.  
Please notify us of any discrepancies before. Arbttech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based.  
This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.  
This drawing is not to be read as a definitive part of the engineering or construction design or method statement. An architect or structural engineer should be consulted over any matters of construction, loading or specification for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.  
This drawing was produced in colour - a monochrome copy should not be relied upon.  
© Arbttech Consulting Ltd. 2013