

Tree Protection Area KEEP OUT

To be erected prior to the commencement of all works on site, and retained in place throughout construction.
 Details specification: To comprise either 2.4m wooden site hoarding or 2.2m high scaffolding framework comprising of vertical and horizontal framework, well braced to resist impacts, with lengths 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 secured first 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-ranger 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 either end of the fence should be erected at regular intervals on the weld mesh panels with words such as "Construction exclusion zone - Keep out".

Supervised Excavation

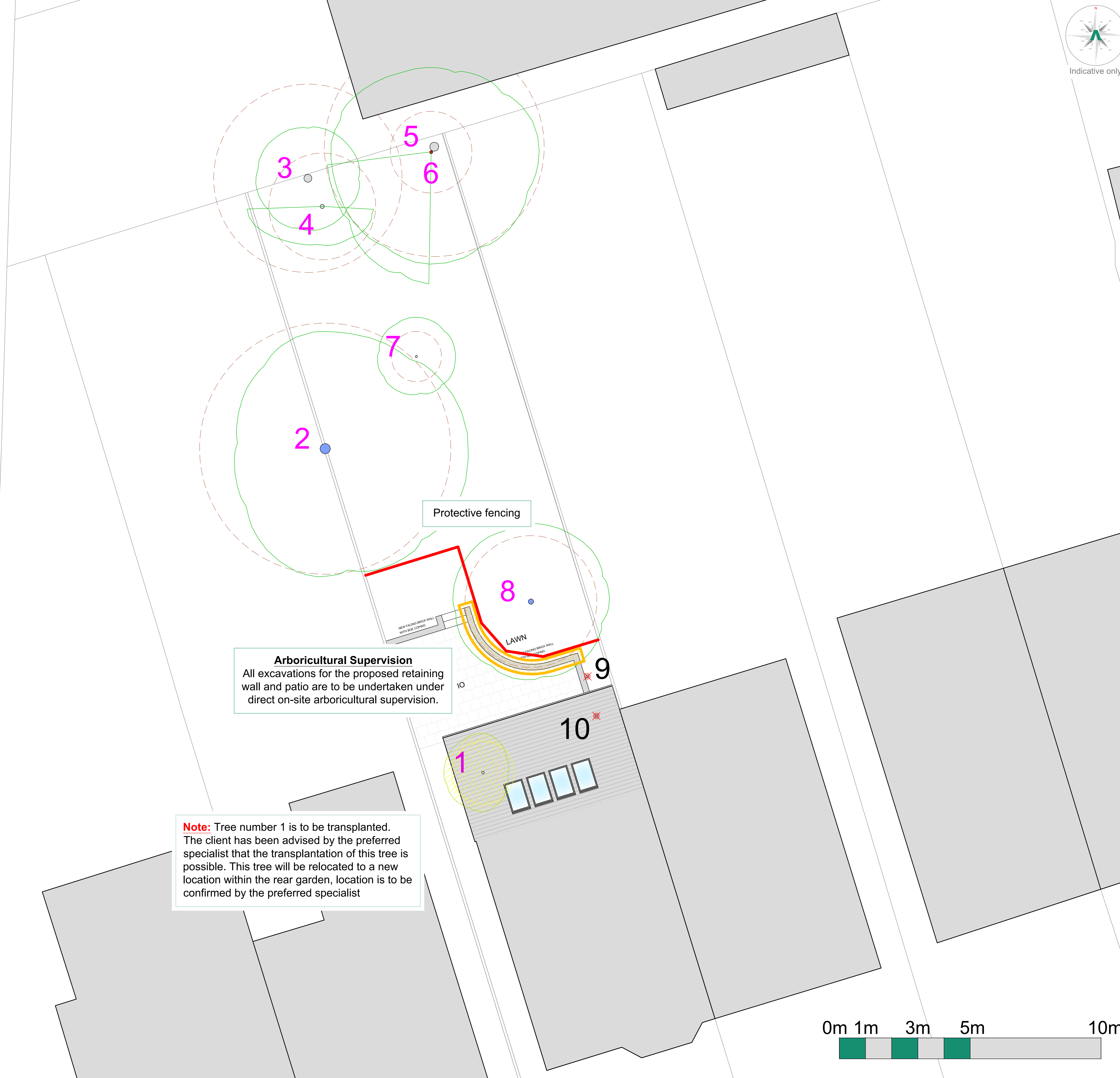
All excavations within and immediately adjacent to RPAs are to be undertaken under direct on-site arboricultural supervision.
 Any roots that are to be cut will be clearly severed by the project arboriculturist using a suitable hand saw or secateurs. The edge of all excavation closest to the retained trees will be covered over with heavy geotextile to prevent drying out, and where necessary be shrouded to prevent soil collapse or contamination by concrete.
 If appropriate soil beneath the depth of the excavation may be sheet piling, lagged piled or have individual piles installed.
Manual excavation:
 Excavations within the RPAs will be initially undertaken by hand under direct on-site arboricultural supervision to a minimum of 600mm deep (to be confirmed by the project arboriculturist), whether it is for proposed foundations, hard surfacing or underground services. The soil is to be loosened with the use of a fork or pick end of air-spade and then cleared with a shovel and/or the aid of an air-spade and air-vac.
Mechanical excavation:
 Excavation within the RPAs will consist of a mixture of mechanical and manual excavation.
 Where an excavator is used it will be fitted with a suitably sized business grading bucket, using a grading /scrapping motion rather than digging. During each motion the excavator will not be permitted to remove more than 10-20mm deep of soil in any one pass.
 If any roots are discovered, mechanical excavation will immediately be stopped and manual excavation will take over to expose the root. Upon the root being uncovered and either severed or protected the excavations can then continue.
 Any excavator or other machinery that is to be used will be situated outside of the RPAs of all retained trees or on top of a suitable ground protection.
 Where an excavator or any other machinery is to be used within RPAs or beneath canopies the project arboriculturist will clearly instruct the operator about what they want and expect to happen prior to any works may commence.

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. Pre-commencement site meeting.
 2. Location of protective measures.
 3. Supervised excavations for the retaining wall, patio and associated foundations within RPA of tree no. 8.
 4. Any demolition and/or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (a non-exhaustive list).
 5. Arboricultural sign off and removal of protective measures.

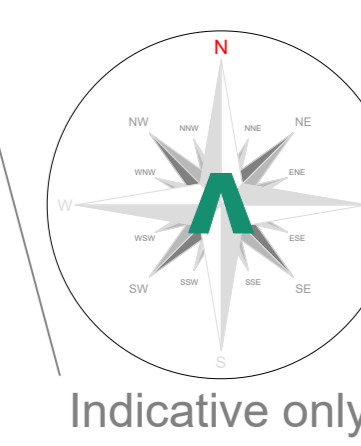
Arboricultural Method Statement

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



Arboricultural Supervision
 All excavations for the proposed retaining wall and patio are to be undertaken under direct on-site arboricultural supervision.

Note: Tree number 1 is to be transplanted. The client has been advised by the preferred specialist that the translocation of this tree is possible. This tree will be relocated to a new location within the rear garden, location is to be confirmed by the preferred specialist



Tree Work Schedule

No.	Species	Trunk	Works	Category
1	Camelia	Trunk		C
8	Silver Birch	Crown	Remove SE, S, SW & canopy by 2m from trunk	B
9	Alpine	Canopy	Remove SE, S, SW & canopy by 2m from trunk	C
10	London plane	Canopy	Remove SE, S, SW & canopy by 2m from trunk	C

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.
 All existing trees to be removed and the site 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 category operations. No equipment or vehicles such as timber trucks, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

Trees for translocation

No.	Species	Trunk Diameter	Physical Condition
1	Camelia	100mm	Good

ARBTECH

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Project: 31 Swains Lane, Highgate, London N6 6QL

Client: J.B. Annette & C.L. Goodings

Drawing: Tree Protection Plan

Based on: 0219/SW/03 A

Drawing No: Arbtch TPP 01

Date: June 2019 Scale: 1:50 @ A0 Drawn: MGM

Key:

Tree No. 1	Tree Canopies	Trunks
RPAs	Category C trees	Category B trees
Category C trees	Trees to be removed	Trees for relocation
Protective fencing	Arboricultural supervision	Excavations

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 The client's use of this drawing is to be used as a reference point of the engineering of construction design or related content. The client's use of this drawing is not to be used as a substitute for professional advice or services. The client's use of this drawing is not to be used as a substitute for professional advice or services. The client's use of this drawing is not to be used as a substitute for professional advice or services.
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