

# Tree Protection Area KEEP OUT

Do not move this fence

OTHER EXISTING PLANNING ACT TREE TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND THE SUBJECT OF A TREE PRESERVATION ORDER. CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION OF THE LOCAL PLANNING AUTHORITY.

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.

**Protective Fencing**

To be erected prior to the commencement of all works on site, and retained in place throughout construction. **Default specification:** To comprise within 2.4m wooden site hoarding or 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 1.0m intervals and fixed to the ground to a minimum of 600mm. On this site, 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 tall welded mesh panels on timber or concrete feet. Panels are to be joined together using a minimum of two self-tensioning 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 steel plate and secured with ground pins. All weather notices should be erected at regular intervals on the white mesh panels with words such as "Construction exclusion zone - Keep out".

**Trunk Protection**

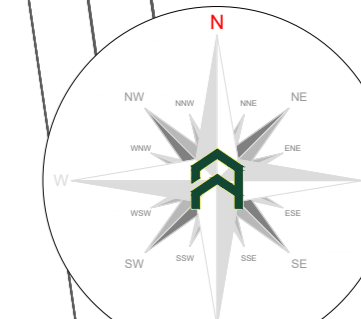
To be attached to the trunks of retained trees prior to the commencement of all works on site, and retained in place throughout construction. To comprise of a minimum of three wrappings of clean 1/2" hearse around the trunk from ground level up to 2.3m high and held in place using steel. Once the hearse is a minimum of three wrappings of chestnut plating and to be held in place by 2.0mm mild steel galvanized wire in three locations and fixed into place using fencing spikes fixed into the chestnut plating. **Protective boarding:** To be erected prior to the commencement of all works on site, and retained in place throughout construction. To comprise of 2.4m wooden 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 protective fabric or mesh should be wrapped around the trunk to protect the bark. All weather notices should be erected at regular intervals on the white mesh panels with words such as "Construction exclusion zone - Keep out".

**'No Dig' Surfacing**

**Multi-dimensional confinement system:** Multi-dimensional confinement system consisting of a geotextile fabric or geogrid installed with hand tools or sprayed with an approved non-residual herbicide such as Glyphosate. The new hard surfacing will be constructed using a 'No Dig' surfacing situated entirely above the existing soil surface and where needed using a proprietary cellular confinement system (Cubes or similar) laid over a steel geogrid (tensar TriAx or similar). Prior to this any small hollows on the surface may be filled with clean sharp sand (not builders sand) to a maximum depth of 100mm. The 'No Dig' to be back filled by hand with a no-fines aggregate of 20mm - 30mm. The area of 'No Dig' will be covered with a permeable geotextile fabric and a geotextile geogrid course laid on top. Edge supports of an appropriate size and strength should be set above ground level and secured with bracing or steel pins driven into the ground, the outer edge of the supports may be marked up with clean top soil. **NB:** The use of a multi-dimensional confinement system will affect the finished level of the hard surfacing by raising the levels and needs to be taken into consideration when designing foundations and setting the finished floor levels of adjacent buildings.

**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 arboriculturalist using a suitable hand saw or secateurs. The edge of all excavation closest to the retained trees will be covered over with stamp hearse to prevent drying out, and where necessary be shuttered to prevent soil collapse or contamination by concrete. If appropriate soil beneath the depth of the excavation may be sheet piled, 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 arboriculturalist), whether for proposed foundations, hard surfacing or underground services. The soil is to be loosened with the use of a fork or pick and 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. When an excavator is used it will be fitted with a suitably sized hydraulic grading bucket, using a grading/scraping motion rather than digging. During such motion the excavator will not be permitted to remove no 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 unexcavated 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 arboriculturalist will clearly instruct the operator about what they want and expect to happen prior to any works may commence.



Indicative only

## Tree Work Schedule

No.	Species	Works	Category
T06	Portuguese laurel	Full tree and remove stump	C2
T07	Bay	Full tree and remove stump	C2
T08	Gum	Full tree and remove stump	B12
T10	Gum	Full tree and remove stump	U12
T11	Gum	Full tree and remove stump	B12
T12	Leyland Cypress	Full tree and remove stump	B12
T13	Sweet Chestnut	Full tree and remove stump	B12
T14	Sweet Chestnut	Full tree and remove stump	B12
T15	Wild Cherry	Full tree and remove stump	U12
T16	Bulbifer Bush	Full tree and remove stump	C1
T17	Sycamore	Full tree and remove stump	B12
T19	Mountain Ash	Full tree and remove stump	C1
T20	Red Deadnettle	Full tree and remove stump	B1
G01	Scamlea	Full tree and remove stump	C12
G02	A Group	Full tree and remove stump	B12
G03	A Group	Full tree and remove stump	B12
G09	Common Ash	Full tree and remove stump	C2
G10	A Group	Full tree and remove stump	C2
H01	Common Box	Full tree and remove stump	C1

All tree work to be undertaken in accordance with British Standard BS: 3968:2012 Tree work - Recommendations. All arrangements 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 lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

## 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. Installation of 'No Dig' hard surfacing within the RPA of tree T04  
 4. Replacement of hard surfacing within the RPA of tree T04  
 5. Installation of 'No Dig' hard surfacing within the RPAs of trees T08 and group G03 & G04  
 6. Supervised excavations for root pruning within the RPA of tree T18  
 7. Any demolition and/or excavations within or underground services (a non-exhaustive list)  
 8. Arboricultural sign off and removal of protective measures.

## Arboricultural Method Statement

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



Arboricultural supervision: The 'no dig' sub-base, e.g. CellWeb™, will be installed in line with manufacturers guidelines for expected loading. The final surface treatment will be porous.

Arboricultural Supervision: Manual excavation along the magenta line, to a depth of 800mm. Soil is to be loosened and carefully removed. Any roots present will be clearly severed by the project arboriculturalist. Dump hearse will be used to cover the exposed trench edge to prevent desiccation of the exposed roots. The remainder of the proposed foundation area can then be excavated.

Arboricultural supervision: Hard surface replacement within the RPA of retained tree T04. The existing sub base will be re-utilised.

Ground protection: The 'no dig' sub-base, e.g. CellWeb™, will be installed prior to the commencement of site activity to act as ground protection within the RPAs of retained tree T04. If the 'no dig' sub-base is not to be installed until later in the program of works, temporary ground boarding should be used in the interim. The 'no dig' sub-base, e.g. CellWeb™, will be installed in line with manufacturers guidelines for expected loading. The final surface treatment will be porous.



Project: Orchard Lane, East Molesey, Surrey, KT8 0BN

Client: Lifestyle Residences

Drawing: Tree Protection Plan

Based on: A3711-ASA-ZZ-00-DR-A-0210-DWG

Drawing No: Arbrech TPP 01

Date: Oct 2022

Scale: 1:200 @ A0

Drawn: AJN

Key:

Tree No.	1	Tree Canopies	Trunks
RPA:	Category 'A' trees	Category 'B' groups	Category 'C' groups
Category 'C' trees:	Category 'C' groups	Trees to be removed	T6
Existing Site:	Proposed Site	Arboricultural Supervision	Arboricultural Exclusion

Arbrech Consulting Ltd. 2022