



General

The purpose of this plan is to set out the preservation of retained trees through setting out the appropriate working practices, demolition techniques and tree protection measures that are to be followed during demolition works. Variations to the approved drawings and conditions of contract shall be agreed with the Local Planning Authority. It is the responsibility of the Demolition Contractor to ensure that the Tree Protection Plan is implemented on site, maintained during the development process and understood by all site personnel and contractors prior to commencement of works.

Site Boundary

Line of site boundary within RPA

Statutory Designations (trees)

Ham Common Conservation Area

Demolition

Structure (building)

Tree Protection Measures

Preliminary and protection area

Tree Protection Barriers Type 2 (To be erected immediately following demolition of security fence or wall within RPA)

Tree Protection Barriers Type 1 (To be erected prior to enabling works)

Tree Protection Barriers Type 1 (sequential removal and installation of temporary ground protection required prior to demolition of wall)

Tree Protection Barriers Type 2 (sequential erection prior to demolition of boundary wall adjacent excavation)

Temporary Ground Protection (To be installed within RPA of T106 prior to demolition of security fence or wall)

Roads of access during demolition

Exclosure zone (Demolition) Areas where demolition or demolition operations are prohibited.

Arboricultural Method Statement

The primary purpose of this plan is to set out the preservation of retained trees through setting out the appropriate working practices, demolition techniques and tree protection measures that are to be followed during demolition works. Variations to the approved drawings and conditions of contract shall be agreed with the Local Planning Authority. It is the responsibility of the Demolition Contractor to ensure that the Tree Protection Plan is implemented on site, maintained during the development process and understood by all site personnel and contractors prior to commencement of works.

A summary of the tree protection will be provided to all personnel through the site induction. This summarises the key precautionary measures and responsibilities of all site personnel to ensure an awareness of trees during site works and that they are adequately protected throughout the demolition and site stabilisation works. Demolition Contractor - It is the responsibility of the Demolition Contractor to ensure that the Tree Protection Plan is implemented on site, maintained during the development process and understood by all site personnel and contractors prior to commencement of works.

Pre-commencement meeting - A pre-commencement meeting shall be held on site prior to commencement of enabling or demolition works. This shall be attended by the Client Representative, Demolition Contractor and Project Arboriculturist. The Local Authority Tree Officer will be invited to attend. The methods of tree protection outlined within this statement and measures for the particular project shall be fully discussed at the meeting, so that all aspects of tree preservation and measures to be taken are fully understood by all parties. Any variations or modifications to this statement shall be recorded and circulated to all parties in writing.

In brief, key work stages for the site enabling and demolition phases will be as follows:

- Step 1 Pre-commencement meeting and identify trees for removal or identified within Tree Retention & Removal Plan (TRR/TPP/301)
- Step 2 Enable agreed tree removal and facilitate tree works
- Step 3 Installation of tree protection prior commencement of site enabling and demolition
- Step 4 Carry out site enabling and demolition - Note: existing security fencing and wall to be retained during demolition only also to include trees to south of fence
- Step 5 Following practical completion of demolition of main site - existing security fencing and wall to be demolished and temporary tree protection barriers to be erected
- Step 6 Review tree protection to accord with Tree Protection and Arboricultural Method Statement - Construction (TPP/301/TPP/302) prior to commencement of Construction Phase

The roots of trees are typically concentrated within the top 100cm of soil. Root severing by vehicle, excavator or ground (including) near trees is likely to cause root damage. This may have an adverse impact on the trees health and stability. Any tree roots exposed during operations should be protected at once. Exposed roots smaller than 25mm diameter may be pinned back, preferably to a side bank, using proprietary cutting tools. In the event that roots are required to be pruned, sharp cutting tools are to be used to ensure the minimum damage is caused. Chain cuts are used in the redevelopment of the roots. Four utility cuts can, however, result in root die back and decay. No roots greater than diameter of 25mm are to be pruned without prior agreement with the Project Arboriculturist.

Tree Protection Barriers - All Type 1 Barriers (see below) are to be erected prior to commencement of any external works on site (including site enabling) and are to be retained throughout the demolition process. All Type 2 Barriers (see below) are to be erected immediately following demolition of any section of the existing security fence or wall to enable access to the Exclosure Zone and are to be retained throughout the demolition process. All barriers are to be fit for purpose. The area between the tree and the protection barriers forms the Construction Exclosure Zone. The construction exclosure zone is to remain unexcavated with storage of materials, machinery or equipment prohibited. Protection or change in level inside are to occur within this area unless agreed in writing by the Local Planning Authority. All damage to protective barriers or ancillary damage to trees must be reported to the Client's Representative immediately. Works occurring within the vicinity will cause immediate and adequate tree protection measures are notified. Where appropriate the protection barriers will be aligned with the site boundary.

Type 1 Barriers - should consist of a scaffold framework comprising of a vertical and horizontal framework, well braced to resist impacts, with well fixed spaced at a maximum of 3m and driven into the ground. Once this, well braced frame is in place, immediately following demolition of any section of the existing security fence or wall to enable access to the Exclosure Zone - Type 1 (see below) shall be erected in accordance with the Local Planning Authority. See Tree Protection Barriers - Type 1 (extract of Fig 3 350037 3012 - Default specification for protective barrier).

Type 2 Barriers - should consist of well braced posts on rubber or concrete feet and secured with two or three copes provided so that they can only be removed from inside the barrier. The posts should be supported on the lower side by additional struts secured with ground pins unless similar fencing is agreed with the Local Planning Authority see Default specification for protective barrier (extract of Fig 3 350037 3012).

Once the barriers have been properly installed and erected in position, the fenced area is to be cordoned and must not be removed or altered in any way without prior approval from the Project Arboriculturist.

All weather tree protection notices are to be fixed to the outside of all tree protection barriers. See Example - Tree Protection Signs.

Installation of site hoarding within the RPA - Temporary site hoarding will be located within the RPA of retained trees. Temporary site hoarding shall be formed of good quality brick or concrete masonry with a 2.1m high ply face and erected as specified by the Engineer. Footings shall be above ground level and formed of pre-cast concrete (unless otherwise stated). Where the hoarding is located directly adjacent to or within the RPA of a retained tree the distribution of existing ground by the block shall be carried out using hand held tools to provide a level surface. Casting of concrete blocks shall be prohibited within retained areas of root ground. Where stabilisation of concrete blocks is required, the method of stabilisation will be discussed and agreed with the Project Arboriculturist prior to commencement.

Temporary Ground Protection - Immediately following dismantling of Type 1 Barriers and prior to commencement of demolition of the existing security fence or wall within the RPA, temporary ground protection to minimise compaction or root disturbance will be installed at commencement of works (within 10m radius). Immediately following completion of demolition Type 2 Barriers will be erected as specified and ground protection removed.

Ground protection for pedestrian movements only within the RPA and wooded areas will be constructed in the form of a single thickness of scaffold boards placed on top of a driven scaffold frame, so as to suspend the walkways.

For pedestrian operated plant up to a gross weight of 2t, proprietary interlocked ground protection boards placed on top of a proprietary scaffold frame will form a good quality surface.

Ground Protection for Vehicular Movements will be formed by a temporary load bearing surface such as Embankment (www.embankment.co.uk). Any hollows within the existing ground surface will be filled to provide a flat surface. A geotextile material will then be laid within the position shown. The track way will then be laid and secured in place in accordance with manufacturer's instructions.

Demolition of existing security fence or wall - Existing security fence or wall will remain in place to provide tree protection to trees to the south of the site during demolition of the main site.

All plant and vehicles engaged in demolition work must operate outside of the RPA unless existing level existing or ground protection (see above) is present. All plant and vehicles will be appropriate to the demolition in hand and site conditions in order to minimise damage/disturbance to trees. Precautionary measures must be observed to avoid contact with the crown of any retained trees from tall loads, plant with booms, plant & counterweights.

Protection and precautionary measures shall be considered by the Demolition Contractor and provision made within the contractor's Method Statement for tree protection and physical impact to trees from demolition materials.

Demolition will be carried out sequentially. Following demolition of each section, Type 2 Barriers will be installed before commencement of the next section. No section shall remain incomplete without Type 2 Barriers erected. All vehicles are prohibited from tracking within the Exclosure Zone (Demolition).

Demolition of standing structures shall be carried out using a 'top down and pulled back' methodology. Demolition material shall be pulled longitudinally away from the tree's RPA.

Removal of the foundation base must be carefully carried out in order not to disturb tree roots that may be present directly adjacent to them. Appropriate machinery and arboricultural monitoring will be used to break-up and remove the existing surface and sub-base supporting ground excavation does not encroach within the well ground directly adjacent. All structures shall be pulled longitudinally away from the RPA. Any tree roots exposed by such operations shall be treated as one. Roots smaller than 25mm diameter may be pinned back, preferably to a side bank, using proprietary cutting tools. Roots over 25mm diameter to be reported and pinned as per the Project Arboriculturist's guidance (see Fig 3 350037 3012).

Storage of materials - All materials for demolition purposes should be carefully stored outside the Demolition Exclosure Zone.

Utilities and drainage lines - All redundant utility or drainage lines within the RPA will be disconnected and capped off outside of the RPA and are to remain in place in order to be replaced within the RPA as part of agreed utility and drainage plans. Hand tools only must be used in accordance with National Joint Utility Childless Vol. 4 Issue 2 Nov 07.

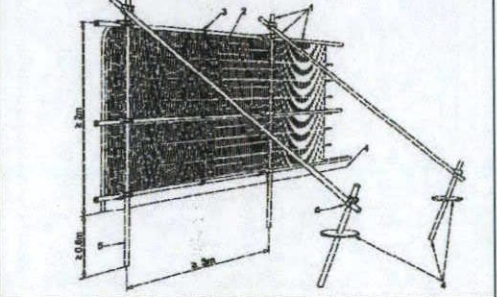
Arboricultural Monitoring & Recording

It is the responsibility of the demolition contractor to liaise with the Project Arboriculturist of works within the RPA at all times prior to commencement.

| Work Stage | Scope of arboricultural monitoring |
|--|---|
| Pre-commencement meeting, tree retention & inclusion works | Identify all trees and agree retention & inclusion works with the Project Arboriculturist and the Local Planning Authority. Check with the Local Planning Authority for any restrictions or conditions. |
| Tree Protection Barriers and Ground Protection | On installation of tree protection barriers: inspect (keeping any outstanding works or actions required). On completion of any outstanding works or actions required. Report issues to the Site Manager for action. |
| Demolition of existing security fence or wall | Identify all trees and agree retention & inclusion works with the Project Arboriculturist and the Local Planning Authority. Check with the Local Planning Authority for any restrictions or conditions. |
| Tree Protection (Temporary) | Identify all trees and agree retention & inclusion works with the Project Arboriculturist and the Local Planning Authority. Check with the Local Planning Authority for any restrictions or conditions. |

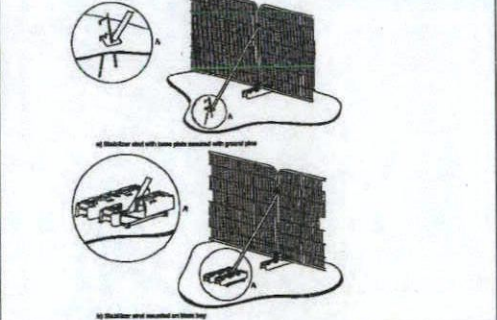
Tree Protection - Type 1 Barrier

Figure 1 Default specification protective barrier



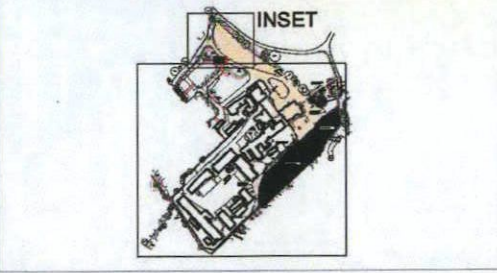
Tree Protection - Type 2 Barrier

Figure 2 Example of alternative installation system



PROTECTIVE FENCING - THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.

TREE PROTECTION AREA KEEP OUT!
IT IS A CRIMINAL OFFENCE UNDER THE PROVISIONS OF THE PLANNING (CONSTRUCTION) ACT 1991 TO ENTER A TREE PROTECTION AREA WITHOUT THE PERMISSION OF THE LOCAL PLANNING AUTHORITY.



tree:fabrik
Lenton House
Lenton Street
Alton, Hampshire
GU34 1HG
T: 01420 593250
F: 01420 544243
E: alan@treefabrik.com

Project
LATCHMERE HOUSE RICHMOND

Tree Protection & Arboricultural Method Statement - Demolition

Scale: 1:500 Date: AUG '15 Drawn: AR

Drawing No: f 913s1/TPP/301 Revision: B

Legend:
 Preliminary
 Issued for Planning Approval
 Issued for Construction
 Issued for Design Information
 Issued for Tender
 As Built

Drawing sheet size - A1
m 0 5 10 15 20 25 30 35 40 45 50
Scale 1:500