

36 LONG LANE
ICKENHAM
UXBRIDGE
UB10 8TA

ARBORICULTURAL METHOD STATEMENT



for

ZYNTAX
CHARTERED
ARCHITECTS

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1. Introduction

1.1. ACD Environmental was instructed by Zyntax Chartered Architects, in August 2020, to prepare the following report to ensure protection for all retained trees on the development site at 36 Long Lane, Ickenham. Implementation of the protection methods and other details within this report are integral to achieving this goal.

1.2. This Method Statement has been compiled to clear conditions

1. A method statement outlining the sequence of development on the site including demolition, building works and tree protection measures.

2. Detailed drawings showing the position and type of fencing to protect the entire root areas/crown spread of trees, hedges and other vegetation to be retained shall be submitted to the Local Planning Authority for approval. No site clearance works or development shall be commenced until these drawings have been approved and the fencing has been erected in accordance with the details approved. Unless otherwise agreed in writing by the Local Planning Authority. Such fencing should be a minimum height of 1.5 metres.

Thereafter, the development shall be implemented in accordance with the approved details. The fencing shall be retained in position until development is completed. The area within the approved protective fencing shall remain undisturbed during the course of the works and in particular in these areas:

2.a There shall be no changes in ground levels;

2.b No materials or plant shall be stored;

2.c No buildings or temporary buildings shall be erected or stationed.

2.d No materials or waste shall be burnt; and.

2.e No drain runs or other trenches shall be dug or otherwise created, without the prior written consent of the Local Planning Authority.

3. Where the arboricultural method statement recommends that the tree protection measures for a site will be monitored and supervised by an arboricultural consultant at key stages of the development, records of the site inspections / meetings shall be submitted to the Local Planning Authority.

REASON

To ensure that trees and other vegetation can and will be retained on site and not damaged during construction work and to ensure that the development conforms with policy DMHB 14 of the Hillingdon Local Plan Part 2 (2020)

1.3. This Method Statement is to be made available to all operatives on site during the construction process, so that they understand the scope and importance of the measures set out for tree protection.

1.4. For details of trees to be retained, and locations and types of special protection methods, reference should be made to the latest revision of Tree Protection Plan (ref: PR122964-03), which should be displayed prominently on site for all staff to see.

- 1.5. To ensure accuracy and avoid future costly adjustments, the Tree Protection Fence and Ground Protection must be set out by a surveyor with all node points being marked clearly on site for the fencing contractor to work to. The AutoCAD version of the Tree Protection Plan is available on request.
- 1.6. The information contained within this Arboricultural Method Statement is in line with BS5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.
- 1.7. The controlling authority is London Borough of Hillingdon, who can be contacted at:

Civic Centre, High Street, Uxbridge, Middlesex, UB8 1UW. (01895) 250111
- 1.8. Any questions relating to the content of this report should be directed in the first instance to: ACD Environmental, The Old Mill, Fry's Yard, Bridge Street, Godalming, Surrey GU7 1EY, 01483 425 714/07796 832 490, quoting the site address and report reference number.
- 1.9. The following abbreviations have been used throughout this document:
 - Root Protection Area – RPA
 - Construction Exclusion Zone- CEZ
 - Tree Protection Plan – TPP
 - Tree Protection Fencing – TPF



Figure 1 Overview of site survey area

2. Phasing of Operations for Tree Protection

2.1. Implementation of tree protection measures on the site must be carried out in the following order:

- 1) Tree removals and tree surgery.
- 2) Line of tree protection fence to be set out to node points by surveyor.
- 3) Accurate erection of tree protection fence and ground protection.
- 4) **Pre-commencement site meeting with project arboriculturist, Local Authority Tree Officer, site manager and groundworkers.**
- 5) Site accessible to construction/demolition traffic.
- 6) Demolition/site clearance.
- 7) Construction Phase.
- 8) Removal of tree protection fencing.
- 9) Remedial tree surgery (if required).

2.2. The above phasing must not be changed without approval from the project arboriculturist and agreement with the Council.

3. Site Supervision

3.1. Tree protection is limited to fencing around the RPAs of trees identified for retention, therefore it is reasoned that once in place further arboricultural supervision will not be necessary.

3.2. The development process will be subject to arboricultural supervision only where construction work inside the construction exclusion zone is required. Therefore, input and supervision from the project arboriculturist will be required at the following stages:

- 1) Tree removals and access facilitation pruning.
- 2) Accurate erection of tree protection measures.
- 3) Site meeting with project arboriculturist, Local Authority Tree Officer, site manager and groundworkers.
- 4) Site accessible to construction/demolition traffic.
- 5) Demolition/site clearance.

3.3. Arboricultural supervision is to be carried out at all crucial stages throughout the development process to ensure detailed tasks are carried out as per the approved methodology, and during any other, unplanned incursions into protection areas, for whatever reason. The arboriculturist will keep a record of site visits undertaken and provide a record to the local authority accordingly.

3.4. No development or other operations shall take place except in complete accordance with the approved Arboricultural Method Statement. If satisfied this is the case, a signed certificate of compliance can be provided by the appointed arboriculturist to the local planning authority on completion and prior to the first occupation of the dwellings.

4. Tree Protection Areas

- 4.1. Based on tree survey data, tree protection areas have been determined for every retained tree. These areas are designed to protect at least a functional minimum of tree root mass in order to ensure that the trees survive the construction process.
- 4.2. It is the responsibility of everyone engaged in the construction process to respect the tree protection measures and observe the necessary precautions within and adjacent to them.

5. Restrictions Within Tree Protection Areas

- 5.1. Inside the exclusion area of the fencing, the following shall apply:
 - No mechanical excavation whatsoever.
 - No excavation by any other means without arboricultural site supervision.
 - No hand digging without a written method statement having first been approved by the project arboriculturist.
 - No lowering of levels for any purpose (except removal of grass sward using hand tools).
 - No storage of plant or materials.
 - No storage or handling of any chemical including cement washings.
 - No vehicular access.
 - No fire lighting.
- 5.2. In addition to the above, further precautions are necessary adjacent to trees:
 - No substances injurious to tree health, including fuels, oil, bitumen, cement (including cement washings), builders' sand, concrete mixing and other chemicals shall be stored or used within or directly adjacent to the protection area of retained trees
 - No fire shall be lit such that flames come within 5m of tree foliage.

6. Avoiding Damage to Stems and Branches

- 6.1. Care shall be taken when planning site operations in proximity of retained trees to ensure that wide or tall loads, or plant with booms, jibs and counterweights, can operate without coming into contact with retained trees. Such contact can result in serious injury to them and might make their safe retention impossible.
- 6.2. Consequently, any transit or traverse of plant in proximity of trees shall be conducted under the supervision of a banksman, to ensure that adequate clearance from trees is at all times maintained. In some circumstances, it may be impossible to achieve this without pruning works known as 'access facilitation pruning'.
- 6.3. Access facilitation pruning shall be kept to the barest minimum necessary to facilitate development and shall be carried out in strict accordance with the guidance below (Tree Surgery). Under no circumstances shall construction personnel undertake any tree pruning operations.

7. Tree Protection Fencing

- 7.1. The Tree Protection Plan (see the latest revision of: PRI22964-03) shows the alignment of Tree Protection Fencing (TPF), which is to be installed prior to any of the following taking place:
- Demolition
 - Plant and material delivery
 - Soil stripping
 - Utility installation
 - Construction works
 - Landscaping
- 7.2. Stages for installation of TPF:
- 1) Hand clearance of any vegetation to allow clear working access.
 - 2) Setting out of fencing points
 - 3) Fencing erected
 - 4) Site accessible to demolition/construction traffic
- 7.3. To ensure accuracy and avoid future costly adjustments, the Tree Protection Fence must be set out by a surveyor with all node points being marked clearly on site for the fencing contractor to work to.
- 7.4. Once erected, all TPF will be regarded as sacrosanct, and will not be removed or altered without prior recommendation by the project arboriculturist and approval of the local planning authority.
- 7.5. The typical TPF construction is suitable for areas of high intensity development, and shall comprise of interlocking weld-mesh panels, well braced to resist impacts by attachment to a scaffold framework that is set firmly into the ground. A detailed specification can be found on the TPP.
- 7.6. Should any alternative method of barrier construction be proposed, the design should be approved by the local planning authority.
- 7.7. Once the exclusion zone has been protected by barriers and/or ground protection, construction work can commence.
- 7.8. All weather notices should be erected on the barriers (for example see figure below).

8. Site Storage, Parking and Welfare Facilities

- 8.1. The site will require provision for; site storage, contractor parking, welfare facilities, temporary services/drainage, material drop of points, etc.
- 8.2. No details of these provisions are available at the time of writing of this report.
- 8.3. It is reasoned there is suitable space on the property frontage and rear garden area. None of the above provisions will be sited within RPAs of retained trees without the input or the project arboriculturist and the consent of the Local Authority.

9. Tree Surgery and Removal

- 9.1. No trees are identified for removal, there are a number of low level garden shrubs that will be removed to implement the design proposals. However, these are of a size that will not be to the detriment of the local landscape.
- 9.2. The following surgery works are to be carried out:

Tree number	Species	Operation
T2	Pear	Tree crown to south to be reduced by 1.7m to provide adequate clearance from proposed builtform.

- 9.3. If any further tree surgery works are required, a proposed specification will be submitted to, and approved by London Borough of Hillingdon before any works are carried out.
- 9.4. All work will be carried out in accordance with BS 3998:2010 Recommendations for Tree Work, industry best practice and in line with any works already agreed with London Borough of Hillingdon.
- 9.5. The tree surgery contractor is responsible for carrying out any relevant health and safety risk assessment, and insurance, prior to any work being carried out.
- 9.6. The statutory protection afforded by the Wildlife and Countryside Act and Countryside and Rights of Way Act will be adhered to. If further advice is required, particularly if bats are discovered during tree work, it will be obtained from Natural England or other competent persons and recommendations adhered to.
- 9.7. The stumps of any trees removed from within the Construction Exclusion Zone or the RPAs of retained trees will be either; cut flush to ground level and left in situ or ground out using a stump grinder. They will not be winched out.
- 9.8. All operations shall be carefully carried out to avoid damage to the trees being treated or neighbouring trees. No trees to be retained shall be used for anchorage or winching purposes.

10. Soft Landscaping within RPA

10.1. All landscaping and associated ground preparation within exclusion zones will be carried out sensitively to ensure root damage is mitigated as much as is practicable. At no time is any heavy plant to be used within any protected area. Removal of existing vegetation will be carried out by hand; turf may be removed using a mechanical turf stripper or by hand.

Turfing

10.2. Stages for turfing gardens and open spaces:

No plant machinery¹ to be used in the area for whatever reason

- 1) Remove TPF to allow access to area.
- 2) Do not reduce any high spots or excavate in any way.
- 3) Existing poor quality turf may be removed with a turf stripper.
- 4) Use good quality top-soil to level any low-lying areas and hollows and provide a fine tilth to lay turf on. This imported soil must not result in a level increase of more than 100mm in any area.
- 5) Import turves by hand in wheelbarrow.
- 6) Lay turves as required.

Planting

10.3. Should the soil be compacted or have a poor structure which may hinder the development of any new planting, soil decompaction techniques may be used upon consultation with the project arboriculturist.

10.4. Stages for planting within tree protection areas:

No plant machinery to be used in the area for whatever reason

- 1) Remove TPF to allow access to area.
- 2) Remove existing vegetation by hand, turf may be removed using a mechanical turf stripper.
- 3) Do not reduce any high spots or excavate in any way.
- 4) Import good quality top-soil by hand (with wheelbarrow) into area.
- 5) Level to a depth of no more than 100mm with hand tools.
- 6) Dig individual planting pits for each plant by hand (including hedging which must not be trench planted).
- 7) Any mulch should also be imported and spread by hand.

10.5. No works will be carried out within any protected areas if the soil moisture is of a level likely to allow compaction to occur.

¹ Including rotovators

11. Installation of underground services within RPAs

11.1. If for whatever reason installation within RPAs is required, the project arboriculturist and local authority must be notified prior to any tree protection barrier removal and the following details adhered to.

11.2. Stages for installing services within tree protection areas:

No plant machinery to be used in the area for whatever reason

- 1) Contact project arboriculturist to hold pre-start site meeting and 'toolbox' talk before starting work.
- 2) Remove just enough tree protection fencing to allow access to area and facilitate trenching.
- 3) Remove any surface vegetation or existing hard surfaces using hand tools.
- 4) Excavate the trench using hand tools only, keeping to minimum dimensions required.
- 5) Roots below 25mm should preferably be retained, however if required can be cut cleanly using secateurs or hand saw.
- 6) Roots over 25mm diameter will be retained and kept damp by covering with hessian (re-wetted as required).
- 7) Feed in services.
- 8) Back fill trench with 200-300mm depth of excavated soil, or a mixture of excavated and imported top-soil (to BS3882:2015), firming down with heels.
- 9) Repeat step 7 until trench is filled.
- 10) Re-erect tree protection fencing as per approved plan.

11.3. An alternative to the method of excavation above, for trenching within RPA's, is by using an 'air-spade' or similar. This tool utilises compressed air to remove soil from around tree roots causing minimal damage and can be run off a typical site compressor. ACD can provide details of contractors supplying air-spade services if required.

11.4. Alternatively, trenchless technology such as thrust boring can be used in some instances and is particularly effective as it can pass directly under the tree, at a depth which is likely to avoid almost all impact on roots of the subject tree. As no access/thrust pits will be located within the RPAs of the subject trees, the need for arboricultural supervision is limited.

11.5. Reference can be made to National Joint Utilities Group Publication Volume 4 (NJUG Vol4) for guidance, but any approach must be approved by the project arboriculturist.

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Arboriculturist

07 August 2020

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