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## Arboricultural Method Statement(s)

For

Proposed Development at

No 21 Clevedon Road

Flax Bourton

Bristol, BS48 1NQ

ARBORICULTURAL SITE METHOD STATEMENT (AMS 1) – Tree Protection Precautions (Preliminary)  
ARBORICULTURAL METHOD STATEMENT (AMS 2) - Erection & Removal of Tree Protection Fencing  
ARBORICULTURAL METHOD STATEMENT (AMS 3) – Removal of Existing Driveway within the RPA

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## ARBORICULTURAL SITE METHOD STATEMENT (AMS 1)

For Protection of Trees during Construction at:

### Land at No 21 Clevedon Road, Flax Bourton, Bristol, BS48 1NQ

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The following Method statement will provide the required protection for trees onsite and therefore meet the requirements or conditions imposed by the Local Planning Authority [LPA]. The following sequence of events should be followed:

- a) Pre commencement meeting & issue of method statements.
- b) Removal of trees & vegetation clearance
- c) Installation of tree protection fencing (AMS2)
- d) Commencement of ground works.
- e) Construction.
- f) Removal of existing driveway (AMS3)
- g) Hard & Soft Landscaping (Authorised access) (AMS1)
- h) Authorised removal of tree protection fencing (AMS2)
- i) Remedial Tree Surgery (AMS1)

1. A copy of this Method Statement shall be supplied to all relevant site personnel who are working in proximity to retained trees and a register maintained in the site office to verify receipt.
2. The Method Statement **MUST** be read in conjunction with the approved **Tree Protection Plan [TPP]** reference: **R3779sb-TPP**
3. It is essential that this AMS and those supporting it are reviewed against the agreed construction phase planning together with the supporting AMS. The Tree Protection Plan detail **MUST** be overlaid onto all **EXTERNAL** site plans. Failure to comply with this AMS and the tree protection detail cannot be retrospectively addressed. Where damage to root zones or trees occurred this can lead to costly construction phase delays and long term liability where trees fail or become unsafe as a result.

#### **Background & Proposal**

4. The proposed layout shows an extension to the existing dwelling and relocation of the existing driveway further to the east.

#### **Arboricultural Impact & Mitigation**

5. Specific details are listed within the AIA. This AMS is designed to ensure protection of retained trees during the construction phase of the project.

**Arboricultural Clerk Of Works**

- 6. An Arboricultural Clerk Of Works [ACW] shall be appointed prior to commencement of any work onsite as detailed below. The ACW shall be appointed by the ‘client’ or their agent and not by the contractor. The ACW will be competent in arboriculture and have experience of trees on construction sites.
- 7. Site Monitoring & Supervision will be undertaken by the appointed arboricultural clerk of works to ensure all tree protection measures are in place and precautions are adhered to as follows:
  - a. Monitoring will be undertaken at a frequency agreed by the LPA with the site owner and as per AMS1.
  - b. A Site Monitoring Log will be available for inspection by the LPA on request and will record monitoring visits together with deviations or exceptions from the agreed method statements.
  - c. Any breaches of or substantial deviations from the approved Method Statements shall be recorded on a **non-compliance report** together with action taken to rectify the breach. A copy will be available in the site monitoring log and a copy sent to the LPA.
  - d. The Site Manager is responsible for informing the appointed ACW of any damage to or breaches of the Tree Protection Measures immediately.
  - e. Any defective tree protection measures or damage to retained trees must reported to the ACW immediately and made good in the same day where possible.

**Pre Commencement**

- 8. No work may commence onsite and especially soil movement, stripping or stock piling may occur until the CEZ as per the approved tree protection plan have been established and protection measures implemented. **The LPA or their agents must be satisfied with the position and construction of the fencing before work can commence.**
- 9. A pre-commencement meeting shall be held on site prior to the commencement of any construction works. The site manager or agent and the ACW shall attend this. The methods of tree protection outlined in this statement shall be fully discussed at this meeting, so that all aspects of their implementation and sequencing are made clear to all parties. Any clarifications or modifications to this statement shall be recorded and circulated to all parties in writing. If appropriate, the tree surgery contractor should also attend this meeting.

**Tree Surgery & Tree Removals**

- 10. Tree surgery work in accordance with recommendations for individual trees as recorded in the Tree Survey Schedule. On the conclusion of the build an updated Visual Tree Assessment should be made on the condition of the retained trees. Any amendments to the original recommendations to be recorded in a succinct report and agreed with the manager or agent and the LPA tree officer.
- 11. The following tree work is to be undertaken prior to commencing or as the project phases progress as indicated below:

WORKS SCHEDULE TO BE AGREED WITH THE ACW AT THE PRE-COMMENCEMENT BRIEFING

**Tree removals & Tree Work Specifications are as follows:**

Tree Type	Tree No	Species	Preliminary Management Recommendations
H	1	Lawson cypress	Remove 5m Section as per proposed plan to facilitate new drive access.
T	3	Beech	Requires detailed condition assessment and proactive ongoing future management.
T	14	Fir	Remove to facilitate new landscape planting.
T	17	Lawson cypress	Crown lift to 4m from drive level to facilitate access.

12. Machinery is not to enter the stated Precautionary Zones [PZs] of retained trees without ground protection such as ground mats or similar as agreed with the ACW before commencement.
13. Tree surgery & Felling is to be undertaken in accord with the Industry Code of Practice for Arboriculture- Tree work at height by competent and proficient contractors.
14. All tree surgery will conform where appropriate to BS3998:2010 Tree Work – Recommendations.
15. The general tree protection measures as described below must be adhered to at all times.

#### **Existing Driveway (Removal)**

16. The existing driveway can be used during the construction phase of the development. Its removal should be in accordance with AMS3. Once it is removed and topsoil re-instated, the area must be fenced off with TPF.
17. Any variation to the agreed Method Statement MUST be agreed with the local ACW before commencing work.

#### **Construction**

18. The construction methodology will be communicated to the ACW at the pre-commencement meeting and any specific issues addressed in relation to the protection of the root systems and aerial parts of the adjoining trees. This will include storage and movement of materials, the use of tower or other cranes, piling, mortar storage vessels, welfare, and accommodation.

#### **Landscaping**

19. Before proceeding with any landscaping within the **Precautionary Zone** access must be agreed with ACW together with the scope and extent of works to be undertaken within the zone.
20. Landscaping may then be undertaken. Care will be taken to ensure that landscaping does not cause any damage to the existing trees. Within Root Protection Areas the following points shall be observed:
  - a. Ground levels will not be changed.
  - b. No heavy plant or equipment such as tractors shall enter the root protection areas.
  - c. No fuels or chemicals shall be brought into or stored within these areas.
  - d. If any digging is necessary within the protection areas (for fence posts etc) this shall be done by hand. Any roots over 50mm in diameter that are encountered shall not be cut; any smaller roots should be cut cleanly. All roots exposed should be back-filled with sharp sand on the same day they are uncovered.
21. Unwanted vegetation shall be removed manually or by using chemicals that cannot damage the roots of the trees and that have been agreed by the ACW prior to application.
22. No drainage pipes or other underground services shall be installed within the **Precautionary Zones**.
23. Planting of replacements for removed trees shall be done at this time. Species, sizes and positions shall be agreed at the pre-contact meeting and shall be marked on the landscape plan. The ACW shall review planting.
24. The contractor will provide adequate training on the above for all relevant staff. This training will be carried out by or to the approval of ACW.

25. The ACW or their appointed agent shall directly supervise all construction within fence protection areas. Non-compliance / Variation notices will be issued to the contractor in any cases of substantial deviation from this method statement and will record instances in his final report to the client.

**Practical Completion**

26. The ACW will issue a Practical Completion Certificate on completion of the site to include construction and landscaping activities. This will be presented with the Arboricultural Supervision Log to the LPA by the client / or their agent for the discharge of any condition in relation to tree protection onsite.

**Signed:**

*Arboricultural Clerk of Works*

**Print Name:**

**Date:**

**I the undersigned will ensure the above method statement is complied with in full and that the appointed Arboricultural Clerk of Works or their Agents for this development cannot be held responsible for breaches of this statement by me or my agents, contractors or sub contractors in the event of enforcement action by the Local Planning Authority.**

**Signed:**

*(on behalf of the client)*

**Print Name:**

**Position:**

**Date:**

## ARBORICULTURAL METHOD STATEMENT for the Erection & Removal of Tree Protection Fencing (AMS2)

Failure To Follow The Method Statement May Constitute A Breach Of Planning Condition And Could Result In Enforcement Action.

ADHERING TO THE METHOD STATEMENT WILL SAVE TIME AND MONEY!

The Construction Exclusion Zone [CEZ] is created around retained trees to protect the root system from compaction, contamination and severance. This area will be **Out Of Bounds** for all construction activities and access by any persons or machines. The CEZ will also protect the aerial parts of the tree.

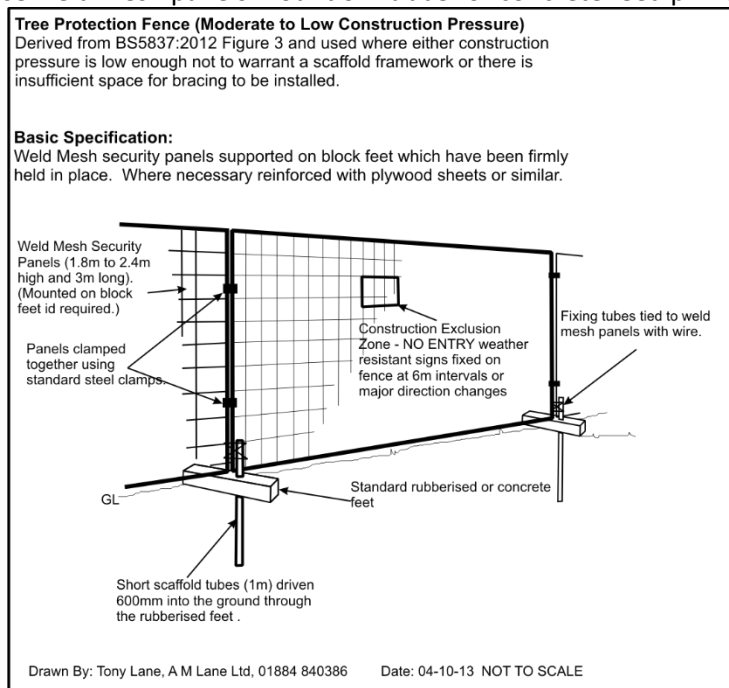
This Method Statement **MUST** be read in conjunction with the **Arboricultural Site Method Statement (AMS 1)** and the **Tree Protection Plan (R3779sb-TPP)**

2. The **Sequence Of Events** are as follows:

- a. Tree work including removal of vegetation may take place prior to the construction of the fence protection but subject to a method statement agreed with the designated Arboricultural Clerk of Works.
- b. The Tree Protection Fencing must be in place prior to commencing any demolition works, soil moving, materials storage, temporary access construction and or widening, or any operations involving the use of motorised vehicles or construction machinery onsite.
- c. The fence protection may be removed in stages as the project is completed subject the agreement of the Appointed Arboricultural Clerk of Works.

3. **The designated Arboricultural Clerk of Works** will mark out on the ground using pegs or paint the position of the Construction Exclusion Zone [CEZ] in accordance with the approved Tree Protection Plan (Ref: R2998sb Tree Protection Plan).

4. **The fence specification** will follow the principles of (BS5837:2012, Clause 6.2) illustrated below and will comprise weld mesh panels mount on rubber or concrete feed pinned to the ground.



5. **Installation Of The Fence** will be undertaken by a contractor briefed by the above appointed person and will observe the following precautions;
  - a. The location of the fence will be as accurate as possible to the approved Tree Protection Plan. Any change to the position or construction of the fencing must be agreed by the local planning authority or Appointed Person prior to installation.
  - b. No vehicles will drive or be parked within the CEZ.
  - c. No materials will be stored within the CEZ.
6. **After Installation** the Construction Exclusion Zone must be considered sacrosanct and off limits for any access or construction activity without the written consent of the appointed arboricultural specialist or local planning authority.
7. **Warning Notices** will be affixed to every other panel or at 3m centres and will be made of all weather signs stating 'CONSTRUCTION EXCLUSION ZONE' --- KEEP OUT (Contact A M Lane Ltd 07773 845558 for access).
8. **Site Monitoring & Supervision** will be undertaken by the appointed Arboricultural Clerk Of Works to ensure all fence protection measures are in place and precautions are adhered to as follows:
  - a. Monitoring will be undertaken at a frequency agreed by the Local Planning Authority and with the Developer.
  - b. A log of monitoring visits will be available at the site office during normal office hours for inspection by the LPA.
  - c. Any defective fencing or ground protection measures will be reported to the site manager immediately and made good in the same day.
  - d. The Site Manager is responsible for informing the Arboricultural Clerk of Works of any damage to or breaches of the Tree Protection Measures immediately.
9. **Removal or Moving Of The Fence Protection** will only be undertaken within the written approval of the Arboricultural Clerk of Works with the following precautions;
  - a. The fencing may only be removed when the CEZ can be protected against construction or other activities.
  - b. Only contractors signed onto this method statement will remove the fence protection unless the contractor removing the fencing is supervised by the appointed arboricultural specialist.
  - c. No vehicles will drive or be parked within the CEZ.
  - d. No materials will be stored within the CEZ.
  - e. Posts will be removed with care so as not to damage the canopy of the tree. (Contractors to submit their own Method Statement & Risk Assessment).

#### Additional Precautions

10. Materials that will contaminate the soil, e.g. concrete mixings, diesel, oils, vehicle washings, salt etc, must NOT be discharged within 10m of the tree stem.
11. On sloping sites care must be taken not to allow the above materials to run towards the tree.
12. Fires should not be lit in a position where flames can extend WITHIN 5m of foliage or branches and must take account of the size of the fire and the wind direction including changes in that direction.
13. Notice boards, telephone cables or other services MUST not be ATTACHED to the tree.

## **ARBORICULTURAL METHOD STATEMENT for the Removal of Existing Driveway within the RPA (AMS3)**

Failure To Follow The Method Statement May Constitute A Breach Of Planning Condition And Could Result In Enforcement Action.

ADHERING TO THE METHOD STATEMENT WILL SAVE TIME AND MONEY!

### **Scope**

Tree roots may be subject to direct damaged through excavation and in direct damage through soil compaction leading to long term changes to soil structure. The root protection area is an estimated minimum volume of root required to sustain the retained tree and is represented as an area on the Tree Protection Plan.

This method statement relates to the removal of the existing driveway within the RPA of the trees growing on the adjacent property as shown on the TPP **R3779-TPP**

The objective of the method statement is to minimise the direct and indirect damage to the roots of retained trees utilising the principles set out in BS5837:2012.

This Method Statement **MUST** be read in conjunction with the **Arboricultural Site Method Statement (AMS 1 & AMS 2)**

### **1. Sequence of Events**

1.1. The **Sequence Of Events** are as follows:

- 1.1.1.The appointed Arboricultural Clerk of Works [ACW] will agree a sequence of driveway removal and soil reinstatement with the designated contractor.
- 1.1.2.The extent of the restricted working zone will be agreed.
- 1.1.3.Method of construction and limitations on access together with machine size to be agreed.
- 1.1.4.Specification and re-instatement of soil to be agreed with the ACW.
- 1.1.5.Works undertaken.
- 1.1.6.Erect tree protection fencing to demarcate the 'No Go' areas.
- 1.1.7.Monitor removal and re-instatement.
- 1.1.8.Sign off at practical completion.

### **2. Principles of Operation**

- 2.1. The **ACW** will supervise the removal of the driveway within the RPA in accordance with the approved Tree Protection Plan.
- 2.2. All work will seek to minimise damage to existing roots by proceeding with care to only remove the structures and not to damage underlying roots by excavating beyond the structure into the underlying or surrounding soil, and by ensuring that the ground within the RPA is protected from machine compaction by:
  - 2.2.1.Operating a machine with a low ground pressure.
  - 2.2.2.Operating the machine from an existing surface that prevents further ground compaction.
  - 2.2.3.Installing temporary ground protection measures as required.
  - 2.2.4.Utilising the 'Pull Back' method of removal by operating outside of the RPA or on an existing/temporary load bearing surface.
  - 2.2.5.Ensuring that all machine operatives and those working within the RPA are fully briefed on the protection arrangements.

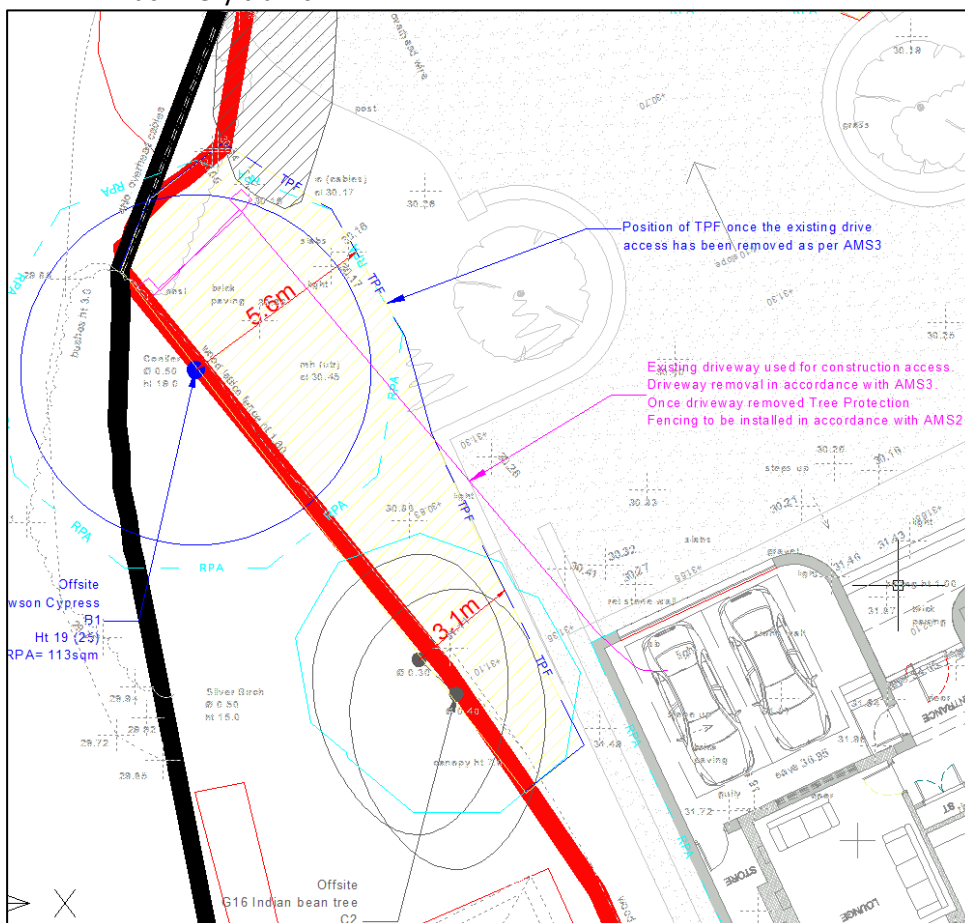


### 3. Access Within The RPA

3.1. This will be agreed with the ACW first. The tree protection fence may be moved temporarily to provide working space and access. The RPA must be made secure at the end of each working day.

### 4. Outline Method

- 4.1. The Tree Protection Fence will be located along RPA of the trees as set out on the TPP **R3779sb-TPP**.
- 4.2. The tracked excavator will operate outside of the designated RPA and where possible on or east of the existing path.
- 4.3. The driveway will be pulled back from the line of the tree protection fence taking care not to excavate or disturb the soil below the block paving, sharp sand and block paving.
- 4.4. The work will proceed from the south back out to the access road in the north.
- 4.5. As the removal proceeds the exposed soil will be protected by moving the Tree Protection Fence along the line of the RPA or by generally fencing the area off from pedestrian or machinery traffic.



Screenshot of TPP ref R3779sb showing the drive to be removed (Yellow Hatched Area) and location of the TPF following removal – Not to scale

### 5. Soil Re-instatement

- 5.1. Good quality topsoil will be used to match levels with the adjacent surfaces.
- 5.2. The imported soil shall comply with BS3882:2015.
- 5.3. The soil shall be to a depth to match existing ground levels but not exceed a depth of 300mm.
- 5.4. The soil should be consolidated using the horticultural practice of 'Duck walking' to avoid excessive compaction but achieve a consolidated surface suitable for plant growth.
- 5.5. Once the imported soil has been installed the area will be fenced off. The Tree Protection Fence will be located along RPA of the trees as set out on the TPP **R3779sb-TPP**.