

**Site:** Flat 1, 53 Iverson Road, London, NW6 2QT

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**CCL ref No:** 12155

**Client:** Mike Sprague

## Tree Protection Barriers

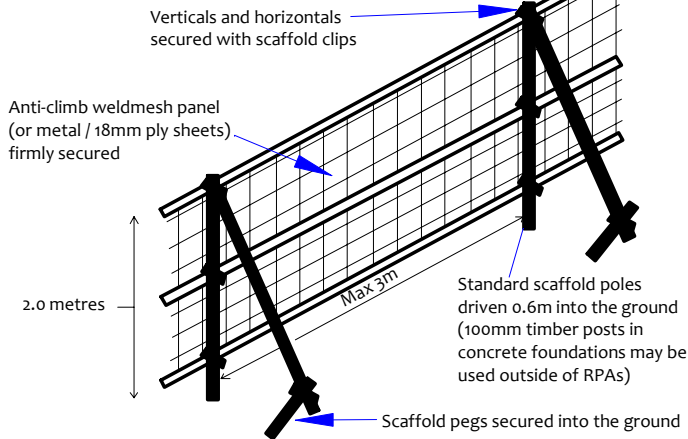
The purpose of tree protection barriers is to keep construction activity away from Restricted Activity Zones or Construction Exclusion Zones. They must be appropriate to the nature and proximity of activity within the site. Barriers must be erected prior to the commencement of all activity including demolition, soil stripping and delivery of materials and demolition (except where existing structures require demolition to enable the barriers to be installed). Barrier systems are specified below; however, for this specific site, the existing boundary fences will be retained in place and will act as tree protection barriers.

### The In-Ground System

This system will be installed where indicated by a solid purple line on the Tree Protection Plan. It will be robust enough to withstand occasional knocks by plant machinery and, once installed, will remain in place throughout the entire construction phase.

Vertical scaffold poles are driven into the ground, onto which are affixed horizontal scaffold poles and diagonal bracing struts. Weldmesh panels (or similar – e.g. Heras type fencing panels, or 18mm+ plywood boards) are secured to this scaffold framework using sturdy clips e.g. standard scaffold clips. The system is illustrated in the diagram below and is based on BS 5837 guidelines.

### The 'In-Ground' System



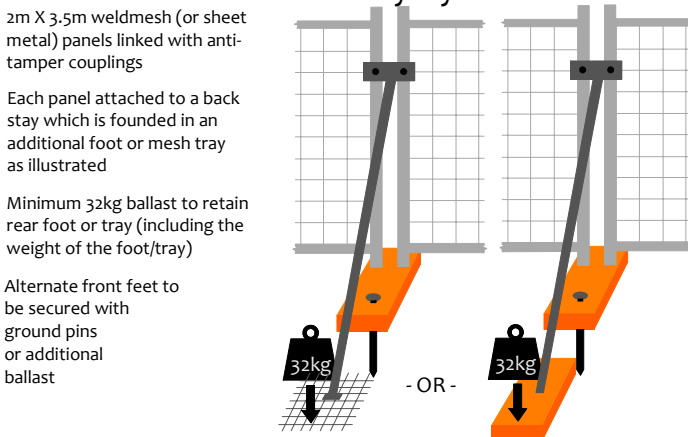
### The Back-Stay System

This system will be installed where indicated by a dashed purple line on the Tree Protection Plan. It is more practical over existing hard surfaces or where the fencing needs to be moved to enable permitted activities within a Restricted Activity Zone. This system is able to withstand occasional knocks by machinery and must not be relocated except with the consent of the site manager and the approval of the local authority.

Within this system, weldmesh fencing panels (minimum height 2m) are affixed into rubber or concrete feet and clipped together with anti-tamper couplers. Two couplers should be used, spaced at least 1m apart. Alternate panels will be attached to a diagonal back stay connected to an additional foot or baseplate secured with ground pins or additional ballast. Where ground pins are not used, the total weight of the foot/plate plus ballast must total no less than 32kg.

Where it is not possible to install diagonal struts (such as very close to a hedge) then the front feet will be secured using ground pins or ballast.

### The 'Back Stay System'



## Removal of Tree Protection Barriers

Removal of protective fencing or ground protection measures will only be done after all major construction work is complete and their removal has been approved by the appointed arborist.

## Ground Protection Measures

Within Restricted Activity Zones, soils containing roots may be subject to compaction due to general construction activity (including pedestrian activity and use of plant machinery). In order to minimise compaction, it is proposed to ensure that a suitable load-spreading surface is in place at all times.

Any existing hard surfacing may be retained so long as the project arborist considers it adequate to spread the load of construction traffic. Otherwise, it will be reinforced or replaced with adequate ground protection measures.

Where only pedestrian activity will occur, ground protection will consist of 24mm OSB boards laid at double thickness and screwed together to prevent slippage. If an auger is required for the installation of screw piles, this should operate from areas of existing hard standing wherever possible.

The ground protection measures will be installed and approved before commencement of construction activity and before the arrival of any materials. They shall remain in place until the construction is complete or until they are due to be replaced with a new hard surface.

## Construction Exclusion Zones

Within Construction Exclusion Zones the following restrictions apply:

- No construction activity or excavation will occur in these areas.
- No vehicles or plant machinery will be driven or parked.
- No tree works will be undertaken.
- No alterations of ground levels or conditions will occur.
- No chemicals or cement washings will be permitted.
- No temporary structures will be installed.
- No spoil will be stored.
- No fires will be permitted.
- All hazardous materials (including non-essential cement products) will be forbidden.

## Timing of Operations

Activity within the site shall be phased according to the following chronology

Order	Phase	Activity
1st.	Pre-Construction Phase	Planning conditions relating to trees to be identified and discussed with the Project arborist and site manager.
2nd.		Install the tree protection. See Headers - <i>Ground Protection Measures</i> .
3rd.		Pre-Commencement site meeting: Ground protection boards inspected. Any additional protection measures to be agreed, if required. Scope of future inspections / monitoring to be agreed.
4th.		Arboricultural Method Statement to be revised and approved (if necessary).
Protection measures confirmed acceptable by the local authority		
5th.	Construction Phase	Remove existing surfaces where applicable.
6th.		Install the new structure taking into account restricted activities as specified in this Arboricultural Method Statement.
7th.	Post-Construction Phase	Site meeting with project arborist. Landscaping restrictions to be agreed. Condition of retained trees to be assessed and mitigation agreed. Ground conditions to be assessed and ground remediation to be agreed.
8th.		Remove protective barriers (ground protection measures).
9th.		Undertake any restricted landscaping operations within Root Protection Areas, including (where applicable) pedestrian surfaces and any proposed tree planting.

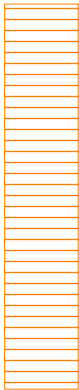
## Tree Works Specification

No tree removal or canopy pruning works are proposed as part of the proposal, nor are they required.

# Restrictions in Specific Zones

## Restricted Activity Zone A

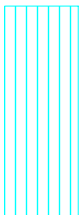
Within this zone, tree roots are likely to be present where access will be required to facilitate construction. The following restrictions shall apply:



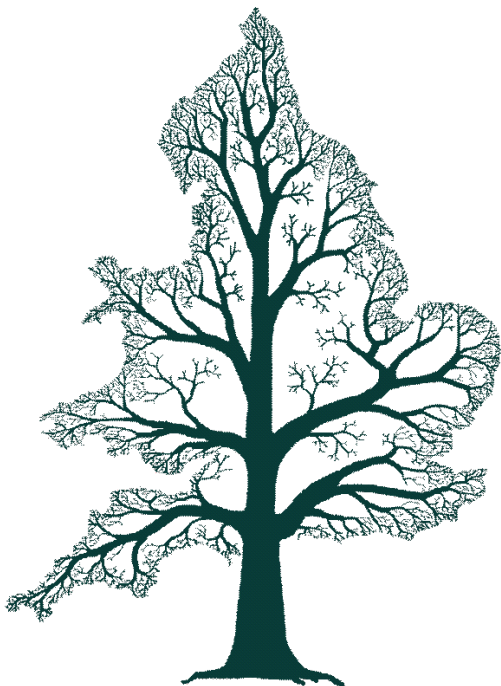
- No vehicles or heavy machinery will operate in this zone.
- A load spreading surface will be installed and/or maintained as specified under the heading **Ground Protection Measures**. This will remain in place throughout the entire construction phase.
- Removal of existing surfaces will be undertaken using hand tools only.
- No excavation will occur in this zone.
- Existing ground levels will be retained undisturbed.
- No new permanent or temporary structures will be erected other than those shown on the planning application documents unless approved by the local authority.
- Underground services will not be installed in this area.
- If roots are encountered in excess of 25mm diameter, they will be retained wherever possible and protected with damp sacking during times that they are unearthed. Any roots in excess of 10mm that need to be severed will be pruned with secateurs.
- Storage of materials and spoil will be avoided unless it has been agreed with the project arborist that the ground protection measures are adequate to ensure no soil compaction or contamination occurs.
- All hazardous materials (including non-essential cement products) will be forbidden.
- No fires will be permitted.

## Restricted Activity Zone B

In this zone, screw piles are to be installed. The following restrictions will apply:



- A small auger may be used for the installation of screw piles if required, so long as it operates from a suitable load spreading surface. Otherwise, piles will be screwed into the ground using hand operated tools.
- Before installing the piles, the upper soils will be probed using a garden fork (or similar) to ensure there are no significant tree roots directly beneath the surface.
- No excavation beyond a depth of 100mm will occur. Excavation is only permitted to this depth to remove existing surfaces or loose topsoil.
- If roots in excess of 25mm diameter are encountered, they will be retained wherever possible and protected with damp sacking during times that they are unearthed. Any roots that need to be severed will be neatly pruned with clean, sharp secateurs.



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Tree Consultancy  
08000 141330

# General Restrictions

## Preparatory Works

No removal of surfaces, or soil stripping will commence until the ground protection measures are installed to the satisfaction of the local authority.

## Fires

No fires will be permitted beneath any tree canopy or within 5m of any tree stem, branch or foliage. No fires will be permitted within any Construction Exclusion Zone or Restricted Activity Zone. No fires will be permitted in the vicinity of any exposed tree roots.

## Canopy Protection

In order to protect tree canopies the following restrictions will apply throughout the site:

- No machinery in excess of 2m will pass beneath the canopy of any tree without being carefully marshalled in order to ensure that no branches are damaged.
- If materials require installation or delivery beneath tree canopies, this will be done without the use of overhead cranes.
- If materials are to be installed or delivered close to tree canopies (but not beneath them) and a crane is required, they will be carefully marshalled in order to ensure that branches are not accidentally damaged.

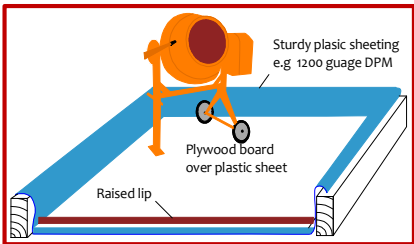
## Storage of Spoil and Materials

Storage of materials and spoil will be avoided in any Construction Exclusion Zones and Restricted Activity Zones unless it has been agreed with the project arborist that the ground protection measures are adequate to ensure no soil compaction or contamination occurs. All hazardous materials (including non-essential cement products) will be forbidden.

It is intended to remove any spoil or waste generated by construction works at the time of the task-at-hand, and store them within a vehicle outside the front of the property.

## Hazardous Materials

Any mixing of cement-based materials will take place outside the Construction Exclusion Zones and Restricted Activity Zones. Where cement is to be mixed at considerable distances from trees and water run-off cannot enter Root Protection Areas, then no further special measures are required. Otherwise, provision will be made to ensure that the mixing area is contained so that no water run-off enters the Root Protection Area of any trees (see diagram for example). Mixers and barrows will be cleaned within this area.



All other chemicals hazardous to tree health, including petrol and diesel, will be stored in suitable containers as specified by current COSHH Regulations, and kept away from Root Protection Areas.

## Underground Services

No underground services will be installed in any part of the Construction Exclusion Zones or Restricted Activity Zones.

## Site Hoarding

If site hoarding shall be installed over the Root Protection Area of any tree, the following restrictions will apply:

- Ground levels will be maintained as existing.
- Post holes will not exceed 300mm x 300mm.
- No post hole will be excavated within 1.5m of any tree stem.
- Post holes will be excavated using hand tools or by a post-hole auger attached to plant machinery sited outside of Root Protection Areas.
- Roots in excess of 25mm will be retained wherever possible.
- Roots in excess of 10mm will be pruned with sharp secateurs.
- Pruning will be minimal and only undertaken where absolutely necessary to facilitate the site hoarding. It will be undertaken by a reputable tree surgeon working to BS 3998 (2010).

Site hoarding may be installed in place of the specified tree protection measures subject to the approval of the local authority with regard to its location and specification.

## Siting of Cabins

Due to the small-scale of the development, no site cabins require installation within the site.

## Fence Posts or Decking Posts

If any new decking or fencing is to be installed within Root Protection Areas as part of any landscaping operations, the following restrictions will apply:

- All post holes will be excavated by hand and kept as narrow as possible (maximum diameter 300mm).
- Exploratory post holes will be dug before committing to post / panel positions. If any roots in excess of 25mm are encountered they are to remain intact and the post hole will be relocated slightly. The fencing system must permit such flexibility (i.e. where fixed panel widths are used, all post holes must be excavated before committing to the final location).
- Any roots in excess of 10mm which are severed will be neatly pruned back with secateurs. This shall encourage healing and reduce the likelihood of infection.

Personnel and Accountability

This table should be completed at the Pre-Start Meeting or earlier

Position	Name	Contact Phone & email	Roles
Project Manager	Sandra Mason	Insert Details	<p>Liaising with site manager &amp; project arborist regarding any potential issues relating to trees (including pre-start clarification of the Arboricultural Method Statement).</p> <p>Scheduling of meetings, excavations and inspections (including project arborist and local authority tree officer where applicable).</p> <p>Overseeing this monitoring schedule.</p> <p>Instructing the project arborist and arranging access.</p> <p>Liaising with local authority regarding discharge of planning conditions and variances to the Arboricultural Method Statement.</p> <p>Reporting to the local authority following site inspections and any variation or incidents.</p>
Site Manager	Fred Beaufort	Insert Details	<p>Day to day monitoring of tree protection measures.</p> <p>Induction of all contractors.</p> <p>Reporting to the Project Manager and the Appointed Arborist of any incidents or potential variations to the agreed tree protection measures.</p>
Project Arborist	Crown Tree Consultancy	08000 14 13 30 0203 797 7449 Info@crowntrees.co.uk	<p>Liaising with LPA Tree Officer over technical arboricultural matters.</p> <p>Upon instruction the arborist shall inspect the tree protection barriers including ground protection measures and produce a short report for the project manager to submit.</p> <p>Upon instruction the arborist shall attend any specified site visits and inspections and produce a short report for the project manager to submit.</p>
Additional Contact	Insert Details	Insert Details	Insert Details

Site Monitoring Schedule

Inspection	Site Attendees	Comments
<b>Pre- Start Desk-top</b> To occur prior to any works taking place on the site.	N/A.	Project Manager and Site Manager to study this Method Statement & contact the Project Arborist to clarify all protection measures.
<b>Pre-Start Meeting</b> After tree works completed & tree protection barriers / ground protection measures installed and prior to any other activity, inc. demolition & soil stripping.	Project Manager, Site Manager, Project Arborist, relevant contractors.  Tree Officer invited.	<p>Tree protection fencing locations &amp; specification checked.</p> <p>Ground protection measures checked.</p> <p>Contractors to be inducted to all relevant aspects of the Arboricultural Method Statement. Responsibilities checked and acknowledged.</p> <p>Adherence to the Arboricultural Method Statement to be discussed and agreed.</p> <p>Report on findings to be provided by the arborist and sent to the local authority tree officer by the project manager.</p>
<b>Post-Construction Meeting</b> Post external construction activity but prior to removal of fencing & landscaping operations.	Site Manager, Project Arborist.  Tree Officer invited.	Retained trees inspected. Ground conditions assessed and mitigation measures agreed where appropriate. Further landscaping operations and restrictions to be agreed.

Tree Data Schedule

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (cm)	Crown Spread (m) W N E	Scaled Tree Diagram (m)	Notes	Recommendations (Independent of any development proposals)		Vigour	Amenity Value	
								Priority	Inspect Freq (yrs)		Physiological Condition	Life Expectancy (yrs)
										Structural Condition		
T001	Early-Mature  Sycamore  Acer pseudoplatanus.	10	3	55	3.5 3.5 3		Position: Situated on third party land. History: Heavily reduced. Defects: Occasional decaying stubs to old pruning wounds (acceptable condition at present).	No action required.		Moderate	Low	
										Good	40+	
								n/a	3	Fair	C	
T002	Early-Mature  Sycamore  Acer pseudoplatanus.	20	8.5	65	7.5 7.5 7		Position: Situated on third party land. History: Previously reduced. Defects: No significant defects observed. Other: Limited inspection, dimensions estimated.	No action required.		Moderate	Moderate	
										Good	40+	
								n/a	3	Good	B	

# Tree Protection Plan

BS 5837 Root Protection Area (Sometimes not included on the Tree Protection Plan to avoid confusion with restricted Zones)		
T1 = Tree No 1	G2 = Group No 2	H3 = Hedge No 3

Tree Retention Categories Stems & canopies shown	
	Category A tree
	Category B tree
	Category C tree
	Category U tree

	Trees of high quality with an estimated life expectancy of 40+ years. Usually large trees with significant presence or smaller trees with excellent form. Retention of these trees is highly desirable.
	Trees of moderate quality with a life expectancy of 20+ years. Usually maturing trees, or younger trees with good form. Retention of these trees is desirable though less than Category A trees.
	Unremarkable trees of low quality and merit. Individual specimens are not considered to be a material planning consideration.
	Trees unsuitable for retention due to their very poor condition.

Drawing No:	CCL 12155	/ TPP Rev: 1
Title:	Tree Protection Plan (Existing Layout with Proposals Overlaid)	
Site:	Flat 1, 53 Iverson Road NW6 2QT	
Scale:	0 5 1:100	Paper Size: A4



Construction Exclusion Zone

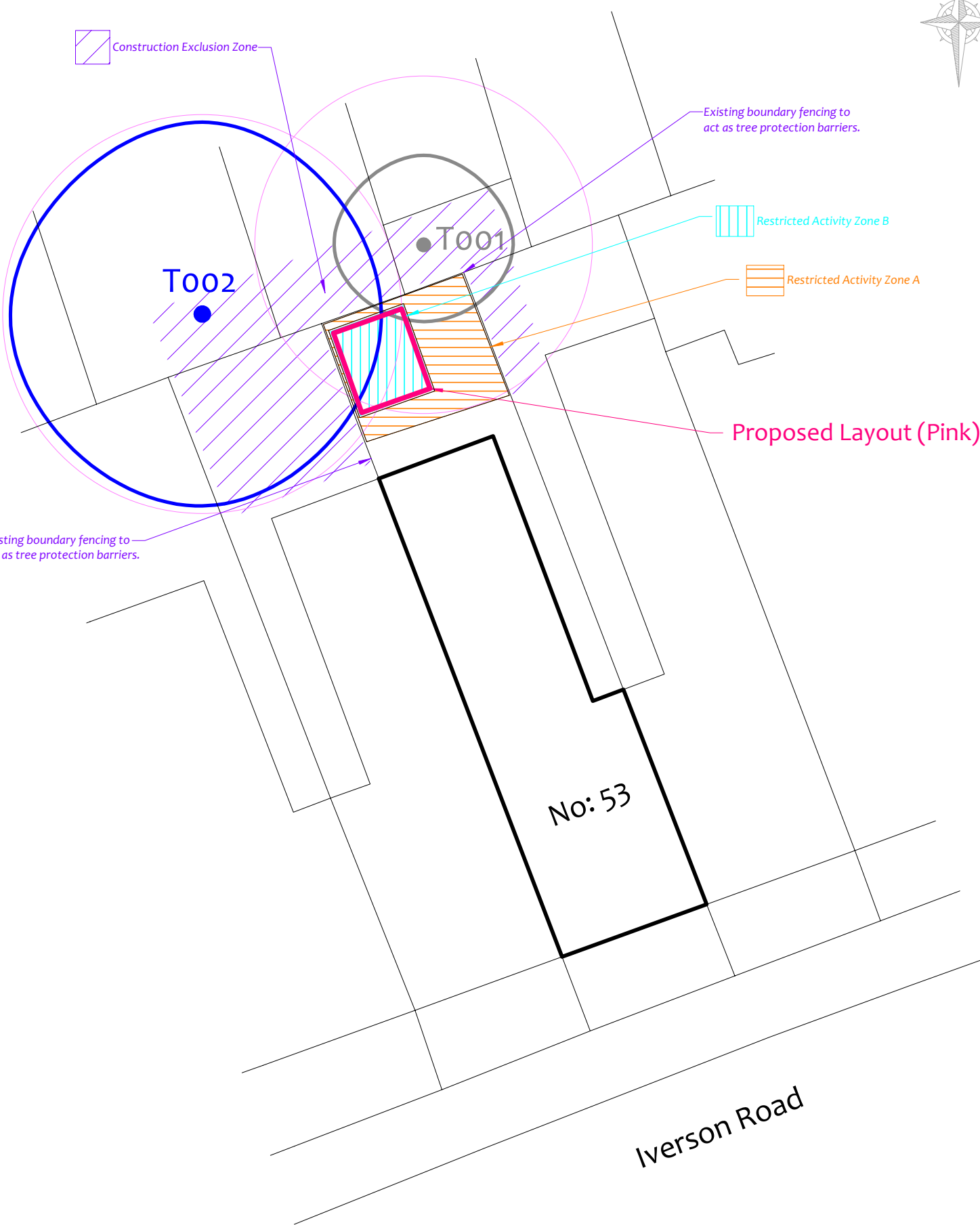
Existing boundary fencing to act as tree protection barriers.

Restricted Activity Zone B

Restricted Activity Zone A

Proposed Layout (Pink)

Existing boundary fencing to act as tree protection barriers.



Iverson Road

No: 53

T002

T001