

Protection and Retention of Existing Vegetation
The Contractor shall exercise extreme care when performing operations beneath the canopy of existing mature trees and vegetation and within the specified Root Protection Areas designated for protection and avoid at all times damage to the roots, trunk and branches.

All excavations, cultivation and grading beneath the canopy of existing mature trees and within the specified Root Protection Areas of the existing trees and vegetation shall be carried out using hand tools, taking care not to damage or disturb any existing tree roots.

All trees to be retained on site shall be protected with fencing erected around the area of mature vegetation in accordance with BS 5837: 2012; 'Trees in Relation to Design, Demolition and Construction - Recommendations'. The fencing shall be installed, protected and maintained during the main works by the Contractor who shall be responsible for protecting any area beneath the canopy of the existing trees and within the specified Root Protection Areas.

The installed protective fencing shall be 2.0 metres minimum height 'Heras' Welded Wire Mesh Fencing positioned to the outside edge of the existing tree Root Protection Areas specified. All tree protection to be in accordance with BS 5837: 2012; 'Trees in Relation to Design, Demolition and Construction - Recommendations'. The fencing should be strained, and fixed to fences, walls, knee rails where possible to provide a complete protected area.

Day-glo ribbons shall be maintained during the main works by the Main Contractor attached to the top of the fencing to ensure that the fencing is clearly visible during the works. Fencing shall be used to enclose the full canopy spread of any tree in accordance with the specified Root Protection Areas and generally with 1.5m on either side of any hedge.

All such fencing shall be maintained for the full contract period. All necessary excavations, earthworks and cultivation beneath the canopy spread of any existing tree; shrub or hedge shall be undertaken by hand. Repositioning of the protective fencing during the course of the contract as the contract works progress shall need to be agreed with the Landscape Architect.

At the end of the contract period the Contractor shall remove protective fencing from the site. All retained vegetation shall be healthy and thriving at the handover date.

Within the protected area the following activities must not take place:

- No vehicles are to be used in the fenced off areas;
- No materials are to be stockpiled or stored;
- No chemicals are to be stored;
- No excavation or increase in the soil level shall occur;
- No fires shall be lit on site.

Tree Surgery
Any significant defects found in the trees during the course of the scheduled work shall be reported to the Landscape Architect. All work shall be undertaken by an approved and qualified tree surgeon in accordance with BS 3998: 2010 'Tree Work: Recommendations'.

Care should be taken to avoid damage to neighbouring trees to be retained. Branches in confined spaces shall be removed and taken down in sections. All arisings shall be transported and disposed of away from site to the Contractor's tip.

Tree and Vegetation Management
For Tree and Vegetation Retention and Removal Proposals refer to the accompanying LLD1469 Existing Tree Schedule.

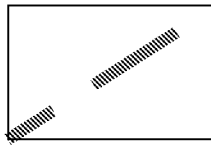
Tree Protection Zone - No Dig Construction
All existing hard landscape and sub-base materials are to be removed manually by hand within the tree RPAs. All existing ground levels shall be maintained. The proposed area of hard landscape surfacing within the specified tree root protection area is to be undertaken with a 'No-Dig' permeable paving construction. Proposed ground levels above existing soil levels are to be supported upon a perforated structural cellular geo-web infilled with granular fill Type 3, above which a permeable surface treatment shall be applied.

Proposed Mews Development
- 6 no. Terraced Properties.

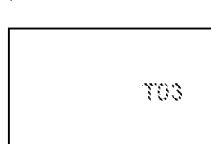
Tree Protection Zone - Manual Excavation
Limited Manual Excavation Zone shall be implemented, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'. The excavation for construction shall be undertaken with due care with hand held tools under *Arboricultural Supervision* only. Removal of excavated material shall be made without further intrusion of the Root Protection Area.

Tree Protective Fencing
All Tree Protection and Tree Protective Fencing to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'. Tree Protective Fencing - to be 2.0 metres height 'Heras' Welded Wire Mesh Fencing Panels on rubber or concrete feet supported by stabilizer struts mounted on a block tray, and positioned as specified. No Construction Access shall be permitted within the RPA.

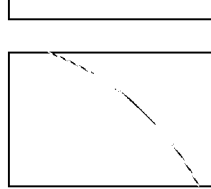
Legend



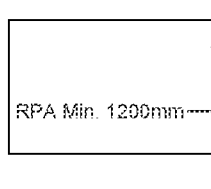
Tree Survey Boundary



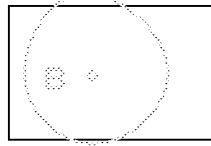
Tree and Hedge Numbers



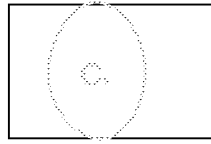
Tree Root Protection Areas
Tree Root Protection Areas calculated and specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.



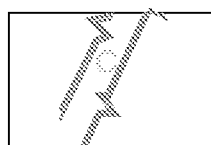
Tree Root Protection Area Dimensions
Tree Root Protection Areas calculated and specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.



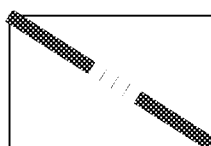
Category B Trees to be Retained and Protected on Site
Trees of moderate quality and value. All tree protection to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition & Construction - Recommendations'.



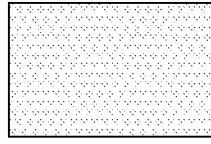
Category C Trees to be Retained and Protected on Site
Trees of low quality and value. All tree protection to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition & Construction - Recommendations'.



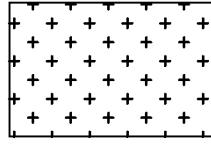
Existing Hedgerows to be Retained and Protected on Site
Existing hedgerows to be retained and protected on site during the construction process.



Tree Protective Fencing
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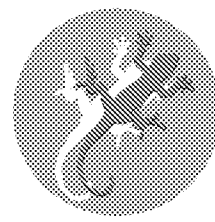
Tree Protection Zone Manual Excavation
All excavation operations within the RPA of the existing trees is to be undertaken manually / by hand in order to protect existing tree roots / canopies. All excavation and demolition operations within the RPA of existing trees to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.



Tree Protection Zone - No Dig Construction
All existing hard landscape and sub-base materials are to be removed manually by hand within the tree RPAs. All existing ground levels shall be maintained. The proposed area of hard landscape surfacing within the specified tree root protection area is to be undertaken with a 'No-Dig' permeable paving construction. Proposed ground levels above existing soil levels are to be supported upon a perforated structural cellular geo-web infilled with granular fill Type 3, above which a permeable surface treatment shall be applied.

Planning Issue

Rev	Description	Date	Initials
01	Planning Issue	10.09.20	LB



LIZARD
Landscape Design and Ecology

The Old Bank, 34 South Street, Tarring, Worthing, West Sussex, BN14 7JH
T.01903 216033 E.lizardlandscape@btconnect.com W.lizardlandscapeecology.com

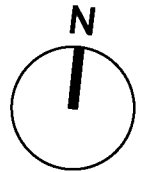
Client
Proposed B1 Commercial Developments
Project Title and Location
West Barn, Norton, West Sussex

Drawing Title
Tree Retention & Protection Plan

Scale 1:200@A1 **Drawn** LB **Approved** JJ **Date** 07.06.18

Drawing No LLD1469-ARB-DWG-001 **Revision** 01

Tree Retention & Protection Plan West Barn, Norton, West Sussex



0 2 5 10
Metres