

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 excavation of existing hard materials, cultivation and regrading within the specified Root Protection Areas of the existing trees and vegetation shall be implemented with a Manual Excavation Method, 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'. 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 height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned to the outside edge of the existing tree Root Protection Areas as 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 trees 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.

Removal of Existing Vegetation

All existing trees to be designated for removal are to be removed in accordance with the Tree Protection and Retention Drawing. All tree work and removal shall be carried out in accordance with BS 5837:2012, 'Trees in Relation to Design, Demolition, and Construction'. Trees designated for removal and felling shall be marked on site with white paint. Prior to the removal and felling of trees, the required work and tree positions shall be agreed on site with the Landscape Architect. Trees shall be felled prior to the erection of the tree protective fencing. Care should be taken to avoid damage to trees, which are designated to be retained.

Stumps shall be removed and cut away so that the top of the stump shall be at least 450 mm below the final topsoil level in order that the site can be leveled and grassed over. Stumps are to be treated with an approved herbicide to be agreed with the Landscape Architect. Where the depth is greater than 450 mm the areas shall be backfilled with topsoil to the required level.

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 Surgery. 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.

NOTES:

The Contractor shall exercise extreme care when performing excavation / demolition operations of the existing hard surfacing 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.

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'. Tree Protective Fencing - to be 2.0 metres height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned to the outside edge of the existing Tree Root Protection Area, as specified.

Tree Protection Zone - No Dig Construction

Hard landscape surfacing within the specified tree root protection areas to be undertaken with a 'No-Dig' permeable paving construction in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - recommendations'. Existing ground levels shall be maintained and there shall be no excavation within the Root Protection Areas of existing trees to be retained. All existing hard landscape and sub-base materials to be removed manually and by hand within the tree RPAs.

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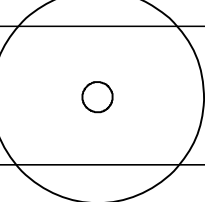
Tree Protection Zone - No Dig Construction

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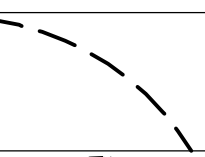
Legend



Existing Trees

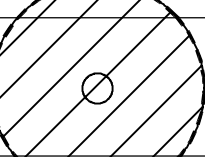


Tree, Shrub, and Hedge Numbers



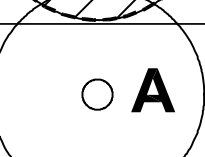
Tree Root Protection Areas

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



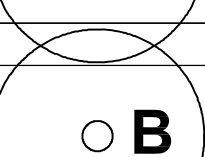
Existing Trees to be Removed

Trees Recommended for Removal from Site Prior to Tree Protection Works / Measures



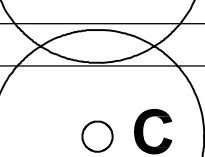
Category A Trees

Trees of High Quality and Value.



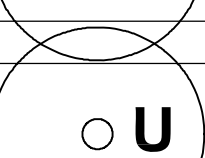
Category B Trees

Trees of Moderate Quality and Value.



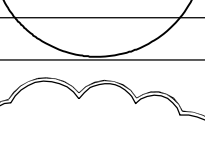
Category C Trees

Trees of Low Quality and Value.

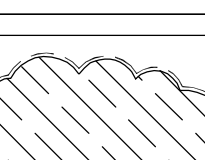


Category U Trees

Trees not viable for retention within the context of existing land use.



Existing Hedgelines / Shrub Group Area

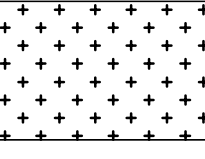


Existing Shrub Group Area to be removed



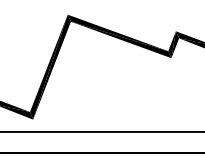
Tree Protective Fencing

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 secured to a scaffolding framework, set into the existing ground, and positioned to the outside edge of the existing Tree Root Protection Area, or as specified.

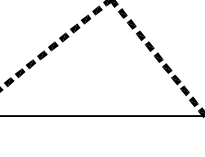


Tree Protection Zone - No Dig Construction

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Existing Building Footprint

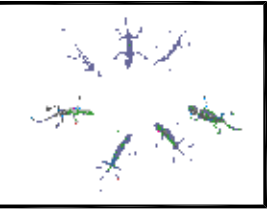


Existing Building to be demolished

Rev	Description	Date	Initials
00	Planning Issue	11.12.14	KM
-	-	-	-

Lizard Landscape Design

Lizard Landscape Design
19 Broadwater Street East
Worthing
West Sussex
BN14 9AA
Tel: 01903 216033
Fax: 01903 214777
Email: lizard.landscape@btconnect.com



Project title 59 Elm Grove, Barnham	
Drawing title Tree Retention and Protection	
Scale 1:200@A1	Drawn KM Approved
Date 11.12.14	
Drawing No LLD789 / 02	Revision 00
CAD Filename LLD789/CADDrawings	

Tree Retention and Protection Plan
59 Elm Grove, Barnham, West Sussex

