27 OCT 2017

PHASE 1
SEQUENCE OF DEVELOPMENT

1. ERECT SECURE FENCING AROUND SITE BOUNDARY
2. ERECT TREE PROTECTION FENCING AS DRAWING/SPEC

WHY TREE PROTECTION IS NEEDED

1) **Soil compaction kills roots-** caused by plant movement and storage of materials within protected areas.
2) **Trenching severs roots-** many small roots grow within the top 600mm of soil. Even the removal of the top 200mm can cause damage.
3) **Soil pollution kills roots-** Dripping fuel storage or cement washings can contaminate the soil resulting in root death.
4) **Raising & lowering levels kills roots-** the soil used to increase levels can compact the underlying soil (see point 1). Lowering levels will remove roots causing damage to the tree.
5) **Bark and branch damage-** bark removal and branch damage can allow disease and fungi into the tree.

The impact of any of the above can take years to show- trees can have huge reserves of food and water.

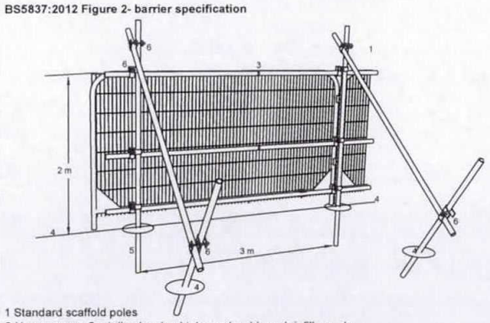
CONSTRUCTION EXCLUSION ZONE

Root protection areas (RPA) of retained trees within which all construction activity is restricted.

All trees that are being retained on site must be protected by barriers and/or ground protection before any materials or machinery are brought onto the site, and before any demolition, development or stripping of soil commences. Where all activity can be excluded from the RPA, vertical barriers must be erected to create a construction exclusion zone. Where, due to site constraints, construction activity cannot be fully or permanently excluded in this manner from all or part of a tree's RPA, appropriate ground protection can be installed.

DEFAULT POSITION FOR THE TREE PROTECTION BARRIERS.

BS5837:2012 Figure 2- barrier specification



1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and weld mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps

Examples of alternative barrier designs can be found in the method statement. Should an alternative design be more viable and appropriate, it must be agreed with the project arboriculturist before its implementation.

SENSITIVE DEMOLITION
The existing feature(s) is within the RPAs of retained trees and therefore, to minimise impact on underlying roots is to be demolished as per the method statement & under the supervision of the project arboriculturist.

RESTRICTIONS WITHIN TREE PROTECTION AREAS

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

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 areas of retained trees
- No fire shall be lit such that flames come within 5m of tree foliage.

TREE TO BE REMOVED

A CATEGORY TREE
B CATEGORY TREE
C CATEGORY TREE
U CATEGORY TREE

ROOT PROTECTION AREA (RPA) FOR RETAINED TREES

Proposed layout

Existing Layout

T6 - C1 Ash
T7 - C1 Sweet Chestnut
G3 - C2 Beech
T12 - B1 Hybrid Black Poplar
T8 - C1 Privet
G2 - C2 Leyland Cypress
G4 - C2 English Elm
T9 - C1 Sycamore
G1 - C2 Leyland Cypress
T5 - C1 Ash
T10 - U English Elm
T11 - B1 Common Oak
T4 - C1 Hawthorn
T3 - C1 Hawthorn
T2 - C1 Hawthorn
T1 - C1 Alder
Bins
BCP
EW
Shed to be constructed on excising hard standing
GATE AND WALL REMOVED TO IMPROVE ENTRANCE
EXISTING BOLLARDS TO BE RETAINED
EXISTING BOLLAR TO BE RETAINE
CONNAUGHT CLOSE
No. 20
No. 16A
No. 27A
12
19
18
18a
22

The original of this drawing was produced in colour- a monochrome copy should not be relied upon.

0 1 2 3 4 5 10m

Rev Date Details Drawn

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AQUINNA HOMES
incorporating Angel Developments Ltd

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CONNAUGHT CLOSE HILLINGDON
SITE SET UP SEQUENCE
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