

BS5837:2012 *Arboricultural Method Statement*

Belle Vue College,
Cockerham Lane,
Barnsley S75 1AT

14th November 2014



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1. Introduction

1.1 INTRODUCTION

1.1.1 To successfully retain the trees in the vicinity of the proposed residential development, it will be essential to provide adequate protection during the demolition process. Some damage is easily spotted such as breaking of branches and surface damage to tree stems and buttress roots, but it is more often the damage underground that is the most harmful. Vehicles tracking over roots, trenching to install services or digging foundations and storage of materials result in compaction, poisoning, severing and crushing of roots leading to extensive root death.

1.1.2 As the roots die the trees ability to produce and store energy reduces and is followed by a decline in health; as the tree becomes stressed it is more susceptible to infection by disease and decay, and ultimately results in tree death. Research shows that the time period that this process takes varies, but it is usually several years later before obvious symptoms appear. By then the link is then not always made to the initial causal damage.

1.2 PROTECTIVE FENCING

1.2.1 Protective fencing to the specifications shown in BS5837 2012 figures 2 and 3 within section 6.2 will be installed in the locations shown in the Tree Protection Plan ref BELLE_VUE_TPP_O1_REV1 which accompanies the Arboricultural Report.

1.3 CONSTRUCTION EXCLUSION ZONE

1.3.1 The perimeter of the Root Protection Area (RPA) indicates the minimum distance of the CEZ unless indicated otherwise by the location of tree protective fencing on the Tree Protection Plan.

1.4 TIMING OF CONSTRUCTION OPERATIONS

1.4.1 The CEZ will need to be identified prior to any demolition works, any demolition vehicles accessing the site, or the start of any major development operations.

Timing	Operation	Authorisation
	<u>Prior to Construction</u>	
1	Carry out required tree works and removals	LPA Arboricultural Officer & Project Arboriculturist
2	Erect protective fencing in locations shown in the Tree Protection Plan and erect site warning signs	Site Manager & Project Arboriculturist
3	Ensure that all Contractors are informed of the reason behind the tree protection measures (indicate the CEZ)	LPA Arboricultural Officer & Project Arboriculturist
4	Define construction access route	Site Manager & Project Arboriculturist
5	Carry out demolition work	Site Manager
	<u>Construction can start</u>	
6	Daily checks of fencing locations and condition with repairs and re-instatement as required	
	Unannounced site visits by County Council planning officers and Project Arboriculturist	
	<u>Construction completed</u>	
7	Landscaping and replacement tree planting	LPA Arboricultural Officer & Project Arboriculturist

1.5 PRE-START ON SITE MEETING

- 1.5.1 Before any demolition works start the site manager will arrange a pre-commencement meeting with the project Arboriculturist. All tree protection measures detailed in this document must be fully discussed so that all aspects of their implementation and sequencing are understood by all parties in writing. No work shall start on site until the project Arboriculturist has indicated that they are satisfied with the precautions.

2. Hard Surfacing and Demolition Work within the RPA

2.1 CONCRETE AND HARD SURFACING

- 2.1.1 Any works to remove hard surfacing that are carried out within the vicinity of the protected root zone should be done by hand. No vehicular access should be allowed. Handheld, mechanical concrete breakers may be used to break up tarmac and concrete, but the waste should be removed by shovel and wheel barrow. Care should be taken to avoid any damage to the roots; should any roots 25mm (1") or larger be damaged, then the damaged section should be removed by pruning with secateurs or a hand saw, which should be cut back to the preceding secondary growth point.

2.2 CHEMICALS AND WASHINGS

- 2.2.1 Materials which will contaminate the soil e.g. cement (dry or wet), diesel, oil, vehicle washings, etc. should not be discharged within 5m of the CEZ. An allowance should be made for the topography of the site to ensure harmful liquids do not run into the CEZ. There should be no fires should be lit within 10m of the CEZ. Notices, cables or any other services should not be attached to any part of the retained trees.

2.3 TOP DOWN, PULL BACK

- 2.3.1 To carry out the proposed demolition and minimise the impact upon the retained trees, the 'Top Down, Pull Back' method should be used whereby the structures are pulled inwards within the footprint of the existing building. If there is a significant build-up of dust present on the foliage during the demolition it will be necessary for this to be hosed off. It is preferable for any existing underground structures to remain in-situ to prevent root damage; if such structures are to be removed further Arboricultural advice will be required.

3. Construction Exclusion Zone

3.1 SUMMARY OF PROHIBITIONS WITHIN TREE PROTECTION ZONES & ADJACENT TO TREES

3.1.1 Inside the Construction Exclusion Zone of the protective fencing, the following prohibitions shall apply:

- No linear mechanical excavation whatsoever
- No excavation by any other means without arboricultural site monitoring
- No hand digging without a written Method Statement having first been approved in writing by the project Arboriculturist
- No lowering of levels for any purpose (except removal of grass sward using hand tools)
- No construction of a sealed hard surface (except where agreed with the project Arboriculturist)
- No storage of plant or materials
- No storage or handling of any chemical including cement washings
- No vehicular access
- No fire lighting

3.2 AVOIDING DAMAGE TO STEMS AND BRANCHES

3.2.1 Care shall be taken when planning site operations in proximity to trees to ensure that wide or tall loads or plant with booms, jibs and counter-weights can operate without coming into contact with retained trees. Such contact can result in serious injury to them and might make their safe retention impossible. Consequently, any transit or traverse of plant in proximity to trees shall be conducted under the supervision of a banks-man, to ensure that adequate clearance from trees is at all times maintained.

3.2.2 Should any damage occur to the trees, it must be reported to the site agent immediately. The site manager shall report up the chain of responsibility to the project Arboriculturist, to allow any remedial measures to be implemented as necessary.

3.3 TREE PLANTING

- 3.3.1 The specified tree size and type will be determined by the project Landscape Architect and reviewed by the Arboriculturist.
- 3.3.2 An overarching recommendation is to follow *BS 8545: Trees: From Nursery to independence in the Landscape. Recommendations* and that in the interest of Biosecurity, trees should not be imported directly from European suppliers and planted straight into the field, but spend a full growing season in a British nursery to ensure plant health and non-infection by foreign pests or disease. This is the appropriate measure to address the introduction of diseases such as Oak Processionary Moth and Chalara of Ash. All trees to be planted must have been held in quarantine.

4. Queries

4.1 ANY QUERIES REGARDING THIS METHOD STATEMENT SHOULD BE DIRECTED IN THE FIRST INSTANCE TO:

Dave Holmes - Arboriculture

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Kingmoor Park

Carlisle

CA6 4SJ

E-mail: david.holmes@capita.co.uk

Telephone: 07818 075 476

A handwritten signature in black ink, appearing to read 'D Holmes', is positioned below the contact information.

Signed by Dave Holmes on behalf of Capita Property and Infrastructure Ltd

ROOT PROTECTION AREA:



KEEP OUT!

**NO DIGGING OR TRENCHING
NO STORAGE OF PLANT OR MATERIALS
NO VEHICLE ACCESS
NO FIRE LIGHTING
NO CHEMICAL HANDLING
AVOID PLANT CONTACT WITH TREE CANOPY
REPORT ANY DAMAGE**

TO TREES OR FENCING IMMEDIATELY

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