
ERECTION OF PROPOSED DWELLING WITH DOUBLE GARAGE AT LAND TO REAR OF WEST HOUSE, BOLDON LANE, CLEADON, SR6 7RH.

T r e e P r o t e c t i o n M e a s u r e s .

Trees on development sites are subject to damage during the construction works. Retained trees need to be protected in line with British Standard: BS 5837:2012 Trees in relation to design, demolition and construction. Recommendations.

This will involve allocating an area around the tree which should remain undisturbed with appropriate protective barriers preventing access to this Root Protection Area during the course of the construction period.

The exact root spread of the individual tree is difficult to quantify, but in general, the bulk of a trees roots are situated in the upper 600mm of the soil with the finer absorbing roots prevalent in the upper 250mm.

In the case of development sites, the root protection area is designed to prevent any significant long term damage to the tree by protecting the root plate and to some extent the lower branches of the tree.

The barriers will be erected prior to work starting on site and will remain in position until construction activities have been completed, with the exception of the areas adjacent to the garage and the north west corner of the main house. These areas will be monitored by the main site manager as the works progress to ensure the best siting of the fence is adopted will allowing the works to commence safely in these areas.

The root protection area should be considered essential and will not be removed or altered under any circumstances. To minimise impact, materials for construction will be ordered and delivered on a 'just in time' basis to ensure only the footprint of the building is occupied by heavy items. This will relieve any root protection areas from potential burdening.

The site manager will undertake responsibility for the health and protection of the trees on site and will have all the arboricultural information to hand on site as reference for any construction workers within the vicinity of sensitive areas.

The barriers themselves will consist of a vertical and horizontal framework of scaffold tubing which is adequately braced to resist impacts. The vertical scaffold tubes need to be placed at a distance not exceeding 3m apart. The weldmesh or Heras panels need to be 2.3m tall and are securely attached to the scaffold framework with wire or scaffold clamps. The wire or scaffold clamps should be secured on the inside of the barrier to avoid easy dismantling.

No fixing shall be made to any tree and all possible care will be taken to prevent damage to tree roots when locating the posts.

All types of barriers will be firmly attached to prevent movement by site personnel or vehicles and all weather signs with the wording "Construction exclusion zone- keep out" should be attached.

C o n c l u s i o n

As with any construction exercise near trees, there are potential areas of conflict where damage could be caused to retained trees.

By using the protective elements dictated by British Standard 5837, no significant damage should take place during the demolition or construction phase and the tree cover should flourish in the longer term.

It is vital that the ultimate size and spread of the trees should be considered when retaining trees near to the building and that shading and light penetration should also be considered when positioning the windows in the building.

All tree works must conform rigorously to BS 3998:2010 Tree work. Recommendations, and as modified by more recent research.