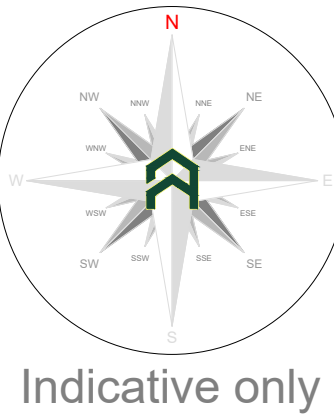




Arboricultural Impacts - RPAs (Area)				
No.	Species	RPA	Incursion	
			(m ²)	(%)
T04	Common Oak	203.1	6.7	3.3
T05	Common Oak	447.6	35	7.8
T07	Common Hawthorn	99.8	0.8	1.4
T08	Common Oak	152.2	15	9.9

U	A	B	C
1	0	0	0

U	A	B	C
0 (2)	0 (2)	0 (1)	1 (2)

All tree work is to be undertaken in accordance with British Standard
Please refer to Arbrech Consulting Ltd. Tree Schedule, Arboricultural
Method Statement and Tree Protection Plan, for full details of all
surveyed trees and how all aspects of the development maybe
implemented without detriment to retained trees.

The use of traditional strip foundations can result in excessive root loss and as such should be avoided.

Designs for foundations that would minimize the adverse impact upon trees should include particular attention to the existing levels, proposed finished levels and cross sectional details. Site specific and specialist advice should be sought from the project engineers and arboriculturist.

- Piles with site investigation used to be determined their optimal location whilst avoiding damage to roots important for the stability of the tree, by means of hand tools or compressed air soil displacement, to a minimum depth of 600mm;
- Beams, laid at or above ground level, and cantilevered as necessary to avoid tree roots identified by site investigation.

Where a slab for minor structures (e.g. shed base) is to be formed within the RPA, it should bear on the existing ground level, and should not exceed an area greater than 20% of the existing unsurfaced ground.

Slabs for larger structures (e.g. dwellings) should be constructed with a ventilated air space between the underside of the slab and the existing soil surface (to enable gas exchange and venting through the soil surface). In such cases, a specialist irrigation system should be employed (e.g. roof-run-off redirected under the slab). The design of the foundation should take into account of the effect on the load bearing properties of the underlying soil from the redirected roof-run-off. Approval in principle for a foundation that relies on topsoil retention and roof-run-off under the slab should be sought from building control authority prior to this approach being relied upon.

Where piling is to be installed near to trees, the smallest practical pile diameter should be used, as this reduces the possibility of striking major tree roots, and reduces the size of the rig required to sink the piles. If a piling mat is required, this should conform to the parameters for ground boring. Use of the smallest practical piling rig is also important where piling within the branch spread is proposed, as this can reduce the need for access facilitation pruning. The pile type should be selected bearing in mind the need to protect the soil and adjacent roots from the potentially toxic effects of uncured concrete, e.g., *clay-lined bored piles* or *steel piles*.

This information is compliant with British Standard BS5837:2012 Trees in relation to design demolition and construction - Recommendations, section 7.6. Special precautions for beeches within the MMA

Underground utility apparatus

Mechanical trenching for the installation of underground apparatus and drainage sewers any roots present and can change the local hydrology in a way that adversely affects the health of the tree. For this reason, particular care should be taken in the rout and methods of installation of all underground apparatus. Wherever possible, apparatus should be routed outside of RFPs. Where this is not possible, it is preferable to keep apparatus together in common ducts, all inspection chambers

Where underground apparatus is to pass within the RPA's, detailed plans showing the proposed route should be drawn up in conjunction with the project arboriculturist. In such cases trenchless insertion methods should be used with entry and retrieval pits being located outside of the RPA's. If this option is not feasible and providing roots can be retained and protected excavations should be undertaken using hand held tools (air-spade, forks, shovels) or a combination of trenchless and manual excavation (broken trench).

Any design and installation should be undertaken in accordance with the National Joint Utilities Guidelines (NJUG).

Above-ground utility apparatus

Above-ground apparatus (including CCTV cameras and lighting) should be sited to avoid the need for detrimental tree pruning, as such the current and future crown size of the tree should be assessed.

Tree branches can be pruned back with care to provide space, though it is not appropriate for repetitive and significant tree work to be an initial design solution unless this is a suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010

Rev:	Date:	Notes:
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Client: **Henry Giles**

Drawing:
Arboricultural Impact Assessment

Based on: 16698

Drawing No:	Rev:
Arhtech AIA 01	--

Date:	Scale:	Drawn:
Jul 2024	1:150 @ A2	IAG

Key:					

Tree Nos.:	101	Tree Canopies:		Trunks:	
PPA:		Category		Category	

Category 'B' groups:		Category 'C' trees:		Category 'C' groups:	
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Trees to be removed:	T13	Existing Site:	Proposed Site:
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Structures:

All dimensions should be checked on site. No dimensions are to be scaled from this drawing.
Please notify us of any discrepancies found. Arttech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawings in which this plan is based.

This drawing is not to be read as a definitive part of the engineering or construction designs or method statement. An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services. This drawing was produced in colour - a monochrome copy should not be relied upon.

Issue: Proposed outbuildings situated within the RPAs of trees T04, T05, T07 & T08.

Solution: Foundations are to be designed to an engineering specification in conjunction with arboricultural advice and site investigations.