

Trees can be affected by construction within the RPAs either through the removal of trees or through the construction of new trees. Construction of new trees can be done in a number of ways, including the planting of seedlings, the use of cuttings, or the use of a more advanced method of planting, such as the use of a tree pit. The removal of trees can be done in a number of ways, including the use of a chainsaw, the use of a tree puller, or the use of a more advanced method of removal, such as the use of a tree crane. The removal of trees can be done in a number of ways, including the use of a chainsaw, the use of a tree puller, or the use of a more advanced method of removal, such as the use of a tree crane. The removal of trees can be done in a number of ways, including the use of a chainsaw, the use of a tree puller, or the use of a more advanced method of removal, such as the use of a tree crane.

**Underground utility apparatus**

Mechanical trenching for the installation of underground apparatus and drainage severs 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 root and methods of installation of underground apparatus. Where possible, underground apparatus should be installed outside of RPA's. Where this is not possible, it is preferable to keep apparatus together in common ducts, all inspection chambers should be sited outside of the RPA's.

Where underground apparatus is to pass within the RPA's, detailed planning and design should be undertaken. This should be 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 trench shields (or trench shields/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 (NUJG).

**Underground utility apparatus**

When a trench for the installation of underground apparatus and drainage serves any roads present and can change the local hydrology of the area, the following steps should be taken to ensure that the particular care should be taken in the root and methods of installation of all underground apparatus. Wherever possible, apparatus should be installed in a trench that is not adjacent to a road. It is preferable to keep apparatus together in common ditches, all inspection chambers, manholes and access points should be located on the same side of the road.

Where underground apparatus is to pass within the RPAs, detailed plans showing the proposed route should be drawn up in conjunction with the local authority. The following steps and measures should be taken:

- The proposed route should be marked out on the ground using methods should be used with entry and retrieval pits being located outside of the RPA. This option is not feasible and providing roads are not to be closed, the proposed route should be marked out using hand held tools (air-spade, force, shovel) or a combination of these methods.
- The proposed route should be marked out using a combination of any design and installation including CCTV cameras and in accordance with the National Joint Utilities Guideline (NJUG).
- The proposed route should be marked out using a combination of the above-ground apparatus including Cavity cameras and lighting should be used to ensure that the proposed route is clearly visible and that the current and future crown size of the tree should be assessed.

Tree branches can be pruned back with care to provide space. Small trees can be removed with a chainsaw. The removal of trees should be undertaken unless this is a suitable management outcome for the site. The proposed route should be undertaken in accordance with the following steps:

BS3980:2006

Above-ground utility 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 bear initial design solution unless this is a suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010



Arboricultural Impacts			
Impacts			Nos. of trees
Trees to be removed			4
Groups / Hedgers to be removed (Partial removal of groups)			0 (2)
Trees with proposed incursions into RPA's			2
Groups / Hedgers with proposed incursions into RPA's			0
Trees that will require pruning			3
Groups / Hedgers that will require pruning			2
Trees to be transplanted			0
Groups / Hedgers to be transplanted			0

No.	Species	Proposed structure	Incursion
T09	Scots Pine	Hard surfacing	RPA
T10	Mountain Ash	Fencing	RPA
T11	Wild Cherry	Hard surfacing/ cycle store	RPA
T11	Wild Cherry	Fencing	RPA

Arboricultural Impacts - RPAs (Area)				
No.	Species	RPA (m <sup>2</sup> )	Incursion (m <sup>2</sup> )	(%)
T09	Scots Pine	72.4	10.4	14.4
T10	Mountain Ash	25.4	Negligible	0.0
T11	Wild Cherry	222.9	3	1.3
T11	Wild Cherry	222.9	Negligible	0.0

Tree Work Schedule			
No.	Species	Works	Category
T10	Mountain Ash	Prune to facilitate future pruning. This will be achieved by pruning of second order or further sub-order branches only.	U
T11	Wild Cherry	Prune crown lift south crown to 3m to facilitate future installation.	C1
T14	Nonsey Maple	Prune crown lift north crown to 3.5m to facilitate plant crown installation.	B1
T30	Hornbeam	Fell to ground level, remove stump.	C1
T31	Hornbeam	Fell to ground level, remove stump.	C1
T36	Hornbeam	Fell to ground level, remove stump.	C1
T37	Hornbeam	Fell to ground level, remove stump.	C1
G08	Common Ash	Prune crown lift to 3m above sports pitches	C12
G09	Various	Prune crown lift to 3m above sports pitches	C12

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.  
All arising is to be removed and the site is to be left as found.  
Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

No. of individual trees to be removed			
U	A	B	C
0	0	0	4

No. of groups / hedges to be removed			
U	A	B	C
0 (2)	0 (2)	0 (2)	0 (2)

( ) = Partial removal of a group

### Arboricultural Method Statement

All tree work is to be undertaken in accordance with British Standard BS5837:2012. Please refer to Arbtech 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 may be implemented without detriment to retained trees.



Project: Rosedale College,  
Wood End Green Road,  
Hayes,  
Middlesex,  
UB3 2SE

Client:	Bouygues UK Ltd
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Drawing:  
Arboricultural Impact Assessment

Based on:  
SRP1077-NVB-SW-XX-MM2-L-2900 Rev P06-S2



Drawing No:	Rev:
Arbtech AIA 01	

Date:	Scale:	Drawn:
August 2023	1:500 @ A0	EK

Key:

Nos.:		Canopies:		Trunks:	
RPA's:		Category		Category	

Category 'B' trees:		Category 'B' groups:		Category 'C' trees:	
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Category 'C' groups:		Trees to be removed:	<del>T30</del>	Existing Site (Topo):	—
Invasion:		Invasion -		Assessment:	

Site:		Hard surfacing:		Fences:	
<p>All dimensions should be checked on site. No dimensions are to be scaled from this drawing.          Please notify us of any discrepancies found. Architect Consulting Ltd. cannot be held responsible for inaccuracies in the above drawing in which this plan is based.</p>					

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, fixed surfacing or underground services. This drawing was produced in colour - a monochrome copy should not be relied upon.