

Arboricultural Impacts - RPAs (Area)				
No.	Species	RPA	Incursion	
			(m ²)	(%)
G01	Various	30.6	0.8	2.6
G02	Various	40.7	Negligible	0.0
G03	Various	95.5	5.4	15.2
G04	Various	113.1	38.5	34.0
G07	Various	136.6	19.2	7.5
G09	Common Ash	55.4	Negligible	0.0
T02	Common Ash	26.1	1.2	4.6
T06	Wild Cherry	83.6	1.9	2.3
T12	Common Ash	55.4	Negligible	0.0

BS 3998:2010 Tree work - Recommendations.
All arising's are 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.

0	0	1	0
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0 (X)	0 (Y)	0 (Z)	4 (X)
() = Partial removal of a group			

All tree work is to be undertaken in accordance with British Standard BS3998:2010. Please refer to Arblech 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.

Trees can be affected by construction within the RPAs either through the direct damage caused by the removal of roots, compaction of the rooting environment or secondary damage such as poisoning through leaks and spills (oils, fuels, etc.) or through de-icing (road salt, etc.).

Proposed hard surfacing within the RPAs of retained trees is to be designed so that it can be situated above the existing soil level and to minimise any adverse impact upon the tree RPAs, as the use of traditional foundations can result in excessive root loss through direct removal of roots during excavation and by compaction of the soil beneath the excavation, as such this 'traditional' type of foundation should be avoided.

design team need to pay particular attention to the proposed usage (pedestrian, domestic traffic, delivery vans, Emergency vehicles, HGVs etc.), the existing and proposed levels of hard surfacing and finished floor levels, edging types and details, proximity to tree trunks and surface rooting, contamination capture, SUDs, etc.

Possible sub-bases (foundations systems) for hard surfacing situated within the RPAs of retained trees could include:

- A proprietary system such as a multi-dimensional confinement system (Cellweb TRP or similar);
- Engineered solution such as a road deck, bridge, etc.

An engineered solution is likely require a level of excavation for site specific investigations to locate roots to aid in foundation design so that a suitable foundation can be designed to avoid roots and for the installation the structure.

NB: The use of a multi-dimensional confinement systems and or an engineered solution will affect the finished level of the hard surfacing by raising the levels and needs to be taken into consideration when designing foundations and setting the finished floor levels of adjacent buildings.

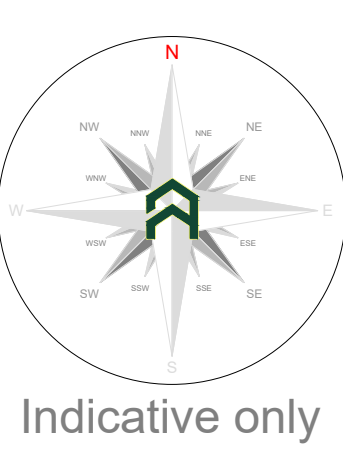
Underground utility apparatus
Mechanical trenching for the installation of underground apparatus and drainage sewers any roots present and can change the local hydrology in a way that adversely affects the health of the tree. For this reason, particular care should be taken in the route and methods of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

planning showing the proposed route to be drawn up in conjunction with the project architect/artist. 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 removed by hand excavation, the use of an underpinning 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 Contractors Association (NJCA).

Above-ground utility apparatus

Above-ground apparatus (including CCTV cameras and lighting) should be avoided where possible. In the case of decorative pruning, as such the current and/or crown size of the tree should be released. 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 integral part of the project. A suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010



Indicative only

Issue: Proposed boundary fences situated within the RPAs retained.
Solution: Excavations of post holes for the proposed boundary fences within RPAs are to be undertaken manually under arboricultural supervision; posts may need to be relocated if significant roots will be affected. This may impact bay length.

Issue: Proposed hard surfacing (inc. bin store) situated within RPA of retained tree.
Solution: Proposed surfacing to be designed in conjunction with an arboriculturist so that it can be constructed entirely above the existing soil level.

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Issue: Proposed hard surface situated within the RPA / canopy of retained tree.
Solution: Proposed surfacing to be designed in conjunction with an arboriculturist so that it can be constructed entirely above the existing soil level. Prune canopy over the proposed surface to give 4m clearance from ground level.



Rev:	Date:	Notes:
A	27/09/24	T05 shown as removed post survey.



Project: Gaywood Green,
Liverpool,
L32 6RD

Client: Ridge and Partners LLP

Drawing:
Arboricultural Impact Assessment

Based on:
(529)2316-GWP-01-01-D-A-(PA)-0010-P08

Drawing No:	Rev:
Arbtech AIA 01	A

Date:	Scale:	Drawn:
Aug 2024	1:250 @ A0	JCH

Key:				
Tree Nos.:	T01	Tree Canopies:	Trunks:	
RPA's:		Category 'B' trees:	Category 'B' groups:	
Category 'C' trees:		Category 'C' groups:	Trees to be removed:	T01
Existing Site Topo.:		Proposed site plan:	Inclusion - Hard surfacing:	
Inclusion - Forgo's:		Trees removed:	T05	

This drawing was produced in colour - a monochrome copy should not be relied upon.