

Tree Protection Area

KEEP OUT

Do not move this fence

Trees enclosed by this fence are protected by planning conditions and are the subject of a tree preservation order. Any contravention of a tree preservation order may lead to criminal prosecution.

Any inclusion into the protected area must be with the written permission of the local planning authority.

ARBTECH

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Protective Fencing

To be erected prior to the commencement of all works on site, and retained in place throughout construction.  
Specification: To comprise of 2m tall welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabiliser struts, which should be attached to a base plate and secured with ground pins.  
All weather notices should be erected at regular intervals on the weld mesh panels with words such as "Construction exclusion zone - Keep out".

'No Dig' Surfacing

Hard surfacing replacement with No Dig hard surfacing within the RPA of tree nos. T17, T88, T89, T90, T91, T92, T93, G08 & G10 is to be designed in conjunction with arboricultural advice to ensure that the construction will be situated entirely above the existing soil level and will not require excavation into the RPAs of the trees. The wearing course should be permeable. The kerb stones will be set above ground level and should be secured with either haunching or steel pins driven into the ground. The outer edge of the supports may be backed up with clean topsoil.

Supervised Excavation

All excavations within and immediately adjacent to RPAs are to be undertaken under direct on-site arboricultural supervision.  
Any roots that are to be cut will be clearly severed by the project arboriculturalist using a suitable hand saw or excavator. The edge of all excavation closest to the retained trees will be covered over with damp hessian to prevent drying out, and where necessary be shrouded to prevent soil collapse or contamination by concrete.  
If appropriate soil beneath the depth of the excavation may be sheet piled, regular piled or have individual piles installed.  
Manual excavation:  
Excavations within the RPAs will be initially undertaken by hand under direct on-site arboricultural supervision to a minimum of 600mm deep (to be confirmed by the project arboriculturalist), whether as is for proposed foundations, hard surfacing or underground services. The soil is to be loosened with the use of a fork or pick and or air-spade and then cleared with a shovel and or the aid of an air-spade and air-rake.  
Mechanical excavation:  
Excavation within the RPAs will consist of a mixture of mechanical and manual excavation.  
Where an excavator is used it will be fitted with a suitably sized toothless grading bucket, using a grading / scraping motion rather than digging. During each motion the excavator will not be permitted to remove no more than 10 - 20mm deep of soil in any one pass. If any roots are discovered, mechanical excavation will immediately be stopped and manual excavation will take over to expose the root. Upon the root being uncovered and either severed or protected the excavations can then continue.  
Any excavator or other machinery that is to be used will be situated outside of the RPAs of all retained trees or on top of a suitable ground protection.  
Where an excavator or any other machinery is to be used within RPAs or beneath canopies the project arboriculturalist will clearly instruct the operator about what they want and expect to happen prior to any works may commence.

# Sheet 1

**Note:** No unauthorised excavations are to be carried out within the RPAs of any retained trees. Any level changes must form part of a construction method statement & must protect the rooting environments of all retained trees.

**Note** Proposed resurfacing above the RPAs is to be designed so that it can be constructed entirely above the existing soil level and the existing sub-base is retained.

'No Dig' surfacing

Protective fencing

Excavations for hard surfacing road under arboricultural supervision.

Protective fencing

Protective fencing

Protective fencing

Trunk protection

Indicative only

Tree Categories

Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.  
Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current and use for longer than 10 years.  
Category 'V' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.  
Category 'W' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.  
Category 'X' - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 100mm.

Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category 'U', 'V' and 'W' trees. This is a minimum area in which should be left undisturbed around each retained tree.  
The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.  
The calculated RPA is capped to 707mm, which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.

Arboricultural Impacts Addressed

| No.  | Species      | Proposed structure                          | Incursion |
|------|--------------|---------------------------------------------|-----------|
| T17  | Cherry       | Hard surfacing replacement                  | RPA       |
| T78  | Beech        | Cellular reinforced grass                   | RPA       |
| T88  | Norway maple | Hard surfacing replacement                  | RPA       |
| T89  | Norway maple | Hard surfacing replacement                  | RPA       |
| T90  | Norway maple | Hard surfacing replacement                  | RPA       |
| T91  | Horsetail    | Hard surfacing replacement                  | RPA       |
| T92  | Pine         | Hard surfacing replacement                  | RPA       |
| T93  | Lime         | Hard surfacing replacement                  | RPA       |
| T99  | Lime         | Hard surfacing replacement                  | RPA       |
| T95  | Sorbus       | Hard surfacing replacement                  | RPA       |
| T102 | Silver birch | Hard surfacing replacement                  | RPA       |
| G08  | Various      | Hard surfacing & hard surfacing replacement | RPA       |
| G09  | Silver birch | Hard surfacing replacement                  | RPA       |
| G12  | Various      | Hard surfacing replacement                  | RPA       |
| G15  | Various      | Hard surfacing & hard surfacing replacement | RPA       |

Arboricultural Supervision

The arboricultural consultant will be required to attend site to directly supervise all demolition and construction works that have to be undertaken within the root protection areas. This will include:  
1. Pre-commencement site meeting & location of protective measures.  
2. Supervised excavations for hard surfacing within RPAs of group nos. G08 & G15 and tree T78.  
3. Hard surfacing replacement with No Dig hard surfacing within the RPA of tree nos. T17, T88, T89, T90, T91, T92, T93, T95, T102, G08, G09, G12 & G15.  
4. Any demolition and or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (a non-exhaustive list).

Arboricultural Method Statement

Please refer to Arbtech Consulting Ltd. Tree Schedule and Arboricultural Method Statement, for full details on all surveyed trees and how all aspects of the development may be implemented without detriment to retained trees.

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Project:

Land off Archway Road, Huyton,  
Metropolitan Borough of Knowsley, Merseyside  
L36 9UX

Client:

Gen8 Kajima Regeneration (Huyton) Limited

Drawing:

Tree Protection Plan  
Sheet 1 of 2

Based on:

260723-L0016-SK19

Drawing No:

Arbtech TPP 01

Rev:

B

Date:

Jul 2026

Scale:

1:200 @ A0

Drawn:

AST

Key:

Tree Nos:

T1

Tree Categories:

Category 'U' trees:

Category 'V' groups:

Category 'W' groups:

Category 'X' groups:

Category 'Y' groups:

Category 'Z' groups:

Category 'AA' groups:

Category 'BB' groups:

Category 'CC' groups:

Category 'DD' groups:

Category 'EE' groups:

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