## 'No Dig' Surfacing

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.
When designing hard surfacing that is to be situated within RPAs, the 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.

## Boundary fences

Proposed and/or replacement boundary fence posts are to be located so that they will not damage or require the removal of roots important to the health or stability of any trees. This may require individual posts to be relocated which will increase or decrease the spacing between the posts (bay lengths).

All posts within the RPAs of retained trees are to be excavated manually, using handheld tools (spade, shovel, rabbiting spade, post hole digger). No mechanised equipment (handheld or plant mounted post borer) is to be used.

## Replacement Hard Surfacing

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.).

Where it is required for hard surfacing is to be removed and or re-surfaced within the RPAs of retained trees it is to be undertaken under direct on-site arboricultural supervision, during the landscaping phase of the development.

The wearing course will be broken up using a handheld pneumatic breaker, hand tools and wheelbarrows to break up and remove the surfacing. Where is necessary to remove the subbase, this is to be undertaken using a fork to loosen the material and moved using shovels and wheelbarrows.

In some situations, and at the discretion of the arborist it may be possible to use an excavator using a hydraulic breaker and a suitably sized toothless grading bucket. If an excavator is to be used it must be situated outside of the RPAs, on top of the hard surfacing working away from the RPAs or from ground boarding.

Whichever system is used there is to be **NO** disturbance of the soil beneath. If roots are found they are to be covered over with damp hessian and a layer of either sharp sand, wood chip or topsoil will be applied as soon as practicably possible to prevent desiccation.

## Utility apparatus

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 rout 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.
Where underground apparatus is to pass within the RPAs, 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 RPAs. 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).
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 bean initial design solution unless this is a suitable management outcome for the tree. Any pruning should be undertaken in accordance with BS3998:2010




| Impacts | Nos. of trees |
|---|---|
| Trees to be removed | 0 |
| Groups / Hedges to be removed (Partial removal of groups) | 0 (1) |
| Trees with proposed incursions into RPAs | 4 |
| Groups / Hedges with proposed incursions into RPAs | 2 |
| Trees that will require pruning | 6 |
| Groups / Hedges that will require pruning | 2 |

| No. | Species | Proposed structure | Incursion |
|---|---|---|---|
| G01 | Leyland Cypress | Hard surfacing | RPA |
| G07 | Common Hawthorn | Fencing and boundary wall | RPA |
| T81 | Common Oak | Hard surfacing | RPA |
| T82 | Common Oak | Fencing | RPA |
| T87 | Common Oak | Fencing | RPA |
| T70 | Common Ash | Fencing and boundary wall | RPA |

## Arboricultural Impacts - RPAs (Area)

| No. | Species | RPA (m²) | Incursion (m²) | Incursion (%) |
|---|---|---|---|---|
| G01 | Leyland Cypress | 10.2 | 2.5 | 24.6 |
| G07 | Common Hawthorn | 18.1 | 0.8 | 4.4 |
| T81 | Common Oak | 72.4 | 3.9 | 5.4 |
| T82 | Common Oak | 206.1 | Negligible | N/A |
| T87 | Common Oak | 83.6 | Negligible | N/A |
| T70 | Common Ash | 413.9 | 3.4 | 0.8 |

## Tree Work Schedule

| No. | Species | Works | Category |
|---|---|---|---|
| G01 | Leyland Cypress | Prune northwest canopy over the proposed road surface by up to 1.5m in length to facilitate construction and road use. | B2 |
| G02 | Various | Partial removal of group. Fell highlighted section to ground level and grind stumps. | C2 |
| G07 | Common Hawthorn | Prune 2m from canopy extent in proximity to proposed fencing in order to facilitate fencing construction. | B2 |
| T56 | Common Oak | Crown reduction. Prune all sides by 2m in length. | B1 |
| T81 | Common Oak | Prune 2m from lower southern crown extent above proposed hard surfacing. | B1 |
| T83 | Common Oak | Crown reduction. Prune all sides by 1m in length. | B1 |
| T85 | Common Oak | Crown reduction. Prune all sides by 1.5m in length. | B1 |
| T87 | Common Oak | Prune 2m from lower northwest and southwest crown extent in order to facilitate fencing construction. | B1 |
| T70 | Common Ash | Prune 1m from lower eastern crown extent in order to facilitate fencing construction. | B1 |

All tree work is to be undertaken in accordance with British Standard 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.

## No. of individual trees to be removed

| U | A | B | C |
|---|---|---|---|
| 0 | 0 | 0 | 1 |

## No. of groups / hedges to be removed

| U | A | B | C |
|---|---|---|---|
| 0 (0) | 0 (0) | 0 (0) | 0 (1) |

( ) = Partial removal of a groups

## Arboricultural Method Statement

All tree work is to be undertaken in accordance with British Standard BS 3998. 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 maybe implemented without detriment to retained trees.

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Project:
The Land North of Old Quarry House, Fenway, Steeple Aston

Client:
[redacted]

Drawing:
Arboricultural Impact Assessment

Based on:
25.20.019.PL003 Rev C

| Drawing No: | Rev: |
|---|---|
| 42857078_AIA01 | 02 |

| Date: | Scale: | Drawn: |
|---|---|---|
| Aug 2026 | 1:300 @ A0 | FG |

Key:
Tree Nos.: T01 | Tree Canopies: | Trunks:
RPAs: | Category 'U' trees: | Category 'A' trees:
Category 'A' groups: | Category 'B' trees: | Category 'B' groups:
Category 'C' trees: | Category 'C' groups: | Trees to be removed: T64
Existing Site Plan (Topo): | Proposed Site Plan: | Incursion - Structures:
Incursion - Hard surfacing: | Incursion - Fences:

The dimensions should be checked on site. No dimensions are to be scaled from this drawing. Please notify us of any discrepancies found. Arbtech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based.
This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.
This drawing is not to be read as a definitive part of the engineering or construction designs or method statement. Arbtech Consulting Ltd. accepts no responsibility for the accuracy of the engineering or construction designs or method statement for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.
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