## 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).
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 bean 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: | 21 |
| Groups to be removed: | 0 |
| Trees with proposed incursions into RPAs: | 0 |
| Groups with proposed incursions into RPAs: | 0 |
| Trees that will require pruning: | 0 |
| Groups that will require pruning: | 0 |

## Tree Work Schedule

| No. | Species | Works | Category |
|---|---|---|---|
| 1 | Lime | Fell to ground level, remove stump | B$_{U}$ |
| 2 | Lime | Fell to ground level, remove stump | B$_{U}$ |
| 3 | Lime | Fell to ground level, remove stump | B$_{U}$ |
| 4 | Lime | Fell to ground level, remove stump | B$_{U}$ |
| 5 | Lime | Fell to ground level, remove stump | B$_{U}$ |
| 6 | Corsican pine | Fell to ground level, remove stump | B$_{U}$ |
| 7 | Corsican pine | Fell to ground level, remove stump | B$_{U}$ |
| 8 | Corsican pine | Fell to ground level, remove stump | C$_{U}$ |
| 9 | Corsican pine | Fell to ground level, remove stump | C$_{U}$ |
| 10 | Lime | Fell to ground level, remove stump | C$_{U}$ |
| 11 | Lime | Fell to ground level, remove stump | U |
| 15 | Lime | Fell to ground level, remove stump | B$_{U}$ |
| 16 | Lime | Fell to ground level, remove stump | B$_{U}$ |
| 25 | Lime | Fell to ground level, remove stump | C$_{U}$ |
| 26 | Wild cherry | Fell to ground level, remove stump | B$_{U}$ |
| 27 | Wild cherry | Fell to ground level, remove stump | C$_{U}$ |
| 28 | Wild cherry | Fell to ground level, remove stump | C$_{U}$ |
| 29 | Corsican pine | Fell to ground level, remove stump | B$_{U}$ |
| 30 | Corsican pine | Fell to ground level, remove stump | B$_{U}$ |
| 31 | Hornbeam | Fell to ground level, remove stump | C$_{U}$ |
| 32 | Hornbeam | Fell to ground level, remove stump | C$_{U}$ |

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 |
|---|---|---|---|
| 1 | 0 | 12 | 8 |

## Arboricultural Method Statement

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


ARBTECH
Unit 3, Well House Barns, Chester, CH4 0DH
https://arbtech.co.uk, 01244 661170


Project:
Plot 4100,
Gypsy Moth Avenue,
Hatfield Business Park,
Hatfield,
AL10 9SN.

Client:
Cambria Automobiles Property Ltd.

Drawing:
Arboricultural Impact Assessment

Based on:
3280 / 030 K

| Drawing No: | | Rev: |
|---|---|---|
| Arbtech AIA 01 | | |
| Date: Jan 2018 | Scale: 1:250 @ A0 | Drawn: MGM |

Key:

| | | | | | |
|---|---|---|---|---|---|
| Tree Nos.: | 12 | Tree Canopies: | | Trunks: | |
| RPAs: | | Category 'U' trees: | | Category 'B' trees: | |
| Category 'C' trees: | | Trees to be removed: | | | |


All dimensions should be checked on site. No dimensions are to be scaled from this drawing.
Arbtech Consulting Ltd. 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 trees.
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/or 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.
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