



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 land 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, W and X 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 707m², 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
T8	Aspen	Fencing	RPA

Tree Work Schedule

No.	Species	Works	Category
T1	Oak white	Fell to ground level remove stump	C1
T2	Yew	Fell to ground level remove stump	C1
T8	Aspen	Prune to give 1.5m clearance from fencing	C1
G1	Oak white	Fell to ground level remove stump	C1
G2	Yew	Fell to ground level remove stump	C1
G3	Gum white	Fell to ground level remove stump	C1
G5	Yew	Fell to ground level remove stump	C1
G7	Yew	Prune to give 1.5m clearance from fencing	C1

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 trailers, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

Protective Fencing

To be erected prior to the commencement of all works on site, and retained in place throughout construction.

Specifications: To comprise of 2m tall welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two end-tension couplers, installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabilizer 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".

Tree Protection Area
KEEP OUT

Do not move this fence

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR THE SUBJECT OF A TREE PRESERVATION ORDER. CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION.

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.

ARBTECH

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 arboriculturist using a suitable hand saw or secateurs. The edge of all excavation adjacent to the retained trees will be covered over with damp hessian to prevent drying out, and where necessary be cluttered 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.

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:

- Pre-commencement site meeting & location of protective measures.
- Supervised excavations for fence posts within the RPA of tree no. 8.
- Any demolition and/or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (as non-exhaustive list).

Arboricultural Method Statement

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

ARBTECH

Unit 3, Well House Barns, Chester, CH4 0DH
<https://arbttech.co.uk>, 01244 661170

Project: Legacy National Grid Substation, Bronwyflla Road, Rhosyllen, Wrexham, LL14 4HY.

Client: AXIS

Drawing: Tree Protection Plan

Based on: General Arrangement 2658-03-03

Drawing No: Arbttech TPP 01 Rev: B

Date: Jan 2023 Scale: 1:300 @ A0 Drawn: AST

Key:

Tree No.	Tree Category	Tree Symbol	Tree Symbol
T1	Category 'U' trees	Thick line	Thick line
RPAs	Category 'U' trees	Thick line	Thick line
Category 'U' trees	Category 'U' trees	Thick line	Thick line

Protective Fencing: Arboricultural Excavations

ARBTECH Consulting Ltd. 2023