

# **BS5837:2012 Tree Survey & Arboricultural Constraints Report**

**Location: Pontneathvaughn Road**

**Glynneath**

**SA11 5NR**

**Grid Ref. SN90072 07606**

**w3w: chefs.lotteries.pouting**

**Client: NPTCBC / Andrew Scott**

**Consultant / Surveyor: Nick Thomas**

**February 2024**

**Tree Survey &**  
**Arboricultural Constraints Report**  
**CONTENTS**

**Summary**

|                  |                                         |
|------------------|-----------------------------------------|
| <b>Section 1</b> | Introduction                            |
| <b>Section 2</b> | Inspection and General Observations     |
| <b>Section 3</b> | Tree and root protection area schedules |
| <b>Section 4</b> | Arboricultural impact assessment        |
| <b>Section 5</b> | Recommendations                         |
| <b>Section 6</b> | Conclusion                              |
| <b>Section 7</b> | References                              |

**APPENDICES**

|                   |                                                      |
|-------------------|------------------------------------------------------|
| <b>Appendix 1</b> | Terms and definitions used in the tree schedule.     |
| <b>Appendix 2</b> | Design and specification of tree protection barrier. |
| <b>Table 1</b>    | Cascade chart for tree quality assessment            |

**Site plan(s)** showing the position of the schedule trees with their colour coded BS category and the position of the root protection zone fencing.

## **Section 1. Introduction**

1.1 The following tree report has been prepared at the request of Mr Andrew Chick of Andrew Scott Ltd. The instructions were to survey the trees which are located on the western side of the river and on the flyover embankment on the southern end of the site. The survey has been undertaken in accordance with BS5837:2012 Trees in Relation to Design, Demolition and Construction with a supporting report on all the trees which could be affected by the development. A total of 39 individual trees and one group were inspected and these were the only trees that required surveying for this report.

1.2 The details of the individual trees are listed in the tree schedule and the terms used in the schedule with their definitions are listed in Appendix 1. Further information is available via the Tree Terms website which can be accessed via the [www](#) address in [Section 5 . References.](#)

1.3 Only the features apparent at the time of the inspection could be considered and no liability can be accepted regarding trees or their parts that were inaccessible or obscured in part or in whole. It must be emphasised that although the health and safety of the trees is part of the assessment methodology used, this report is only intended for planning purposes, therefore it should not be construed as an assessment of tree safety. As part of this study faults may be identified and recorded but it remains the landowners / client's responsibility to take the appropriate action. The assessor / surveyor can accept no liability for damage or injury sustained because of the failure of any tree or its parts.

1.4 The only information provided for this survey was one topographic plan supplied by Andrew Chick. During the site survey it was difficult to accurately relate a number of the existing trees to their locations shown on the topographic plan. A plan has been forwarded with this survey and shows the general locations of the trees which is adequate for planning purposes but the client may want to consider matching the tagged trees to the topographic plan.

1.5 This report does not provide information on any conflicts between existing tree roots and buildings or infrastructure.

1.6 This report has been issued as a single PDF file. The tree protection plan (TPP) may need to be printed independently to evaluate and consider any difference in its size and orientation to the report's standard A4 format.

## **Section 2. Inspection and General Observations.**

2.1 The tree survey was undertaken on the 19<sup>th</sup> and 27<sup>th</sup> of February 2024 and was undertaken from ground level with no climbing inspections involved. The weather conditions during the survey were drizzle type rain and a light wind.

2.2 Site description. The trees on this site are located on the eastern and southern boundaries. The majority of the trees are located on the riverbank which has a steep and uneven gradient to the river. The single group of trees G1 are growing on the north facing embankment which supports the A465 flyover. Due to their size and location the trees are clearly visible from the adjacent A465 and Pontneathvaughn highways.

2.3 Root morphology. The root spread of some of the trees within the inspected area will have been influenced and restricted by the river and vehicle track with its consolidated surface which provides access to the southern area of the field. The growing environment beneath these tracks and footpaths will be compacted and inhospitable for tree roots.

In all probability the roots will have exploited the riverbank which provides better growing conditions for expanding and healthy root growth.

2.4 The trees in this area are not protected with a tree preservation order and are not within a conservation area.

2.5 A total of 39 deciduous trees and one deciduous group were inspected. Their individual positions are plotted on the site plan. All tags have been attached on the tree's main stems at approximately 2 metres above ground level.

2.6 The quality rating for the trees on or affecting this site is summarised as follows.

**TABLE A**

| <b>BS5837<br/>Quality<br/>category</b> | <b>Total number<br/>of individual<br/>trees surveyed</b> | <b>Total number<br/>of tree<br/>groups<br/>surveyed</b> | <b>Total<br/>number of<br/>woodlands<br/>surveyed</b> | <b>Total number<br/>of hedges<br/>surveyed</b> | <b>Total</b> |
|----------------------------------------|----------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|------------------------------------------------|--------------|
| <b>A</b>                               | 0                                                        | 0                                                       | 0                                                     | 0                                              | 0            |
| <b>B</b>                               | 14                                                       | 0                                                       | 0                                                     | 0                                              | 14           |

|                  |    |   |   |   |    |
|------------------|----|---|---|---|----|
| C                | 14 | 1 | 0 | 0 | 15 |
| U                | 11 | 0 | 0 | 0 | 11 |
| Total<br>A,B,C,U | 39 | 1 | 0 | 0 | 40 |

2.7 Soil assessment. The site's soil was assessed by desktop analysis using the Soilsclapes website, [www.landis.org.uk/soilsclapes/](http://www.landis.org.uk/soilsclapes/), which identified the area as having a freely draining floodplain soil with a loam type texture.

This soil assessment should only be used as a general guide and the project engineer should undertake a detailed-on site soil analysis for the foundation calculations and specifications.

### **Section 3. Tree and root protection area schedules.**

**TABLE B**

| Tree no. | Species | Ht. (m) | Stem dia. (mm) | Age | Crown spread (m) |     |     |     | Low branches | Cat. | Notes and recommended work                                                                         |
|----------|---------|---------|----------------|-----|------------------|-----|-----|-----|--------------|------|----------------------------------------------------------------------------------------------------|
|          |         |         |                |     | N                | E   | S   | W   |              |      |                                                                                                    |
| 801      | Ash     | 21      | 121            | M   | 7.9              | 8.2 | 7.8 | 8.7 | 2.0          | B1   | Monitor annually for Ash dieback disease                                                           |
| 802      | Ash     | 8       | 27             | SM  |                  |     |     | 5.0 | 2.0          | U    | Lean towards river, advanced Ash dieback infection, remove or retain for habitat and biodiversity. |
| 803      | Ash     | 15      | 33             | EM  |                  |     |     | 6.0 | 6.0          | U    | Lean towards river, advanced Ash dieback infection, remove or retain for habitat and biodiversity. |
| 804      | Ash     | 15      | 70             | M   |                  |     |     | 7.5 | 5.0          | C2   | Reduce one over extended branch above the field by 3 metres. High potential for bats.              |
| 805      | Ash     | 15      | 45             | EM  |                  |     |     | 6.0 | 1.0          | C2   | Lean towards river, retain for habitat.                                                            |
| 806      | Elm     | 12      | 39             | SM  |                  |     |     | 5.0 | 3.0          | U    | Dead tree - remove                                                                                 |
| 807      | Ash     | 18      | 65             | M   |                  |     |     | 5.0 | 1.0          | U    | Lean towards river, advanced basal decay,                                                          |

|     |          |      |           |    |  |  |  |     |     |    |                                                                                                                |
|-----|----------|------|-----------|----|--|--|--|-----|-----|----|----------------------------------------------------------------------------------------------------------------|
|     |          |      |           |    |  |  |  |     |     |    | retain for habitat and biodiversity.                                                                           |
| 808 | Oak      | 16   | 68        | OM |  |  |  | 8.5 | 2.0 | B2 | Reduce the lower secondary stem to the fence line and remove all deadwood above 3cms diameter above the field. |
| 809 | Elm      | 16   | 40        | EM |  |  |  | 3.0 | 2.0 | B2 | N/C                                                                                                            |
| 810 | Ash      | 14   | 45        | EM |  |  |  | 5.0 | 6.0 | C2 | Monitor annually for Ash dieback disease.                                                                      |
| 811 | Ash      | 20   | 23        | SM |  |  |  | 4.0 | 9.0 | U  | Lean towards river, remove or retain for biodiversity.                                                         |
| 812 | Ash      | 19   | 42        | EM |  |  |  | 6.2 | 6.0 | U  | Advanced decay on main stem, remove tree                                                                       |
| 813 | Elm      | 20   | 52        | EM |  |  |  | 2.6 | 3.0 | C2 | N/C                                                                                                            |
| 814 | Lime     | 20   | 39,40, 60 | EM |  |  |  | 8.9 | 2.0 | B2 | N/C                                                                                                            |
| 815 | Ash      | 18   | 27        | SM |  |  |  | 4.4 | 6.5 | U  | Remove tree                                                                                                    |
| 816 | Ash      | 18   | 37,37     | EM |  |  |  | 5.5 | 4.5 | U  | Remove tree                                                                                                    |
| 817 | Alder    | 20   | 44        | EM |  |  |  | 8.5 | 3.0 | B2 | Remove one lower over extended branch above the field.                                                         |
| 818 | Sycamore | 19   | 23,27, 43 | EM |  |  |  | 7.6 | 3.0 | B2 | N/C                                                                                                            |
| 819 | Ash      | 19   | 51        | EM |  |  |  | 2.0 | 4.0 | C2 | N/C                                                                                                            |
| 820 | Oak      | 19   | 32,47, 51 | EM |  |  |  | 7.1 | 2.0 | B2 | Remove all deadwood above 3cms diameter above the field.                                                       |
| 821 | Oak      | 13.5 | 50        | SM |  |  |  | 5.5 | 2.5 | C2 | N/C                                                                                                            |
| 822 | Oak      | 18   | 60        | EM |  |  |  | 6.7 | 2.5 | C2 | As 820                                                                                                         |
| 823 | Sycamore | 18   | 54        | EM |  |  |  | 6.5 | 2.5 | B2 | N/C                                                                                                            |
| 824 | Oak      | 10   | 32        | SM |  |  |  | 5.2 | 2.0 | C2 | N/C                                                                                                            |
| 825 | Oak      | 14   | 31        | SM |  |  |  | 4.9 | 2.0 | B2 | N/C                                                                                                            |
| 826 | Oak      | 16   | 55        | EM |  |  |  | 5.9 | 2.0 | B2 | As 820                                                                                                         |

|                                                                                                                                                                                               |                  |    |             |       |  |  |  |      |     |    |                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----|-------------|-------|--|--|--|------|-----|----|----------------------------------------------------------------------------------------|
| 827                                                                                                                                                                                           | Ash              | 14 | 21,28,29    | EM    |  |  |  | 5.3  | 3.0 | U  | Advanced Ash dieback infection, remove tree.                                           |
| 828                                                                                                                                                                                           | Alder            | 16 | 21,28,30,31 | EM    |  |  |  | 4.4  | 1.0 | B2 | N/C                                                                                    |
| 829                                                                                                                                                                                           | Elm              | 15 | 31          | SM    |  |  |  | 5.0  | 6.0 | C2 | N/C                                                                                    |
| 830                                                                                                                                                                                           | Alder            | 14 | 35          | SM    |  |  |  | 6.0  | 1.0 | C2 | N/C                                                                                    |
| 831                                                                                                                                                                                           | Oak              | 15 | 53          | EM    |  |  |  | 10.0 | 3.0 | B2 | As 820                                                                                 |
| 832                                                                                                                                                                                           | Ash              | 14 | 22          | SM    |  |  |  | 1.5  | 5.0 | U  | Advanced Ash dieback infection, remove tree.                                           |
| 833                                                                                                                                                                                           | Alder            | 13 | 31          | SM    |  |  |  | 1.5  | 2.0 | U  | Advanced basal decay, remove tree.                                                     |
| 834                                                                                                                                                                                           | Sycamore         | 13 | 18,20,20,26 | SM    |  |  |  | 4.4  | 2.0 | B2 | N/C                                                                                    |
| 835                                                                                                                                                                                           | Sycamore         | 13 | 39          | SM    |  |  |  | 5.8  | 2.0 | B2 | N/C                                                                                    |
| 836                                                                                                                                                                                           | Ash              | 12 | 40          | EM    |  |  |  | 0    | 2.0 | C2 | N/C                                                                                    |
| 837                                                                                                                                                                                           | Elm              | 11 | 23          | SM    |  |  |  | 4.6  | 1.5 | C2 | N/C                                                                                    |
| 838                                                                                                                                                                                           | Alder            | 10 | 60          | EM    |  |  |  | 3.5  | 2.5 | C2 | N/C                                                                                    |
| 839                                                                                                                                                                                           | Alder            | 10 | 39          | EM    |  |  |  | 4.3  | 2.0 | C2 | N/C                                                                                    |
| G1                                                                                                                                                                                            | Goat Willow, Ash | 12 | 38          | SM-EM |  |  |  |      |     | C2 | Coppice 5 Willow adjacent to fence and remove 7 Ash infected with Ash dieback disease. |
| <b>NOTE:</b> Due to the topography of the land, the river and the location of the proposed development the crown spread measurements were restricted to the western side of trees 802 to 839. |                  |    |             |       |  |  |  |      |     |    |                                                                                        |

**TABLE C**

| Tree no. | Species | Mean stem dia. (mm) | RPA 1 (m2) | Minimum radial protection (m) |          | Justification for RPA modification | Position of protective barrier           |
|----------|---------|---------------------|------------|-------------------------------|----------|------------------------------------|------------------------------------------|
|          |         |                     |            | RPA 2                         | Modified |                                    |                                          |
| 801      | Ash     | 121                 | 652        | 14.4                          | No       | N/A                                | On perimeter of radial RPA – 14.4 metres |

|     |          |    |     |     |    |     |                                         |
|-----|----------|----|-----|-----|----|-----|-----------------------------------------|
| 802 | Ash      | 27 | 34  | 3.3 | No | N/A | On perimeter of radial RPA – 3.3 metres |
| 803 | Ash      | 33 | 50  | 4.0 | No | N/A | On perimeter of radial RPA – 4.0 metres |
| 804 | Ash      | 70 | 222 | 8.4 | No | N/A | On perimeter of radial RPA – 8.4 metres |
| 805 | Ash      | 45 | 92  | 5.4 | No | N/A | On perimeter of radial RPA – 5.4 metres |
| 806 | Elm      | 39 | 72  | 4.8 | No | N/A | On perimeter of radial RPA – 4.8 metres |
| 807 | Ash      | 65 | 191 | 7.8 | No | N/A | On perimeter of radial RPA – 7.8 metres |
| 808 | Oak      | 68 | 212 | 8.2 | No | N/A | On perimeter of radial RPA – 8.2 metres |
| 809 | Elm      | 40 | 72  | 4.8 | No | N/A | On perimeter of radial RPA – 4.8 metres |
| 810 | Ash      | 45 | 92  | 5.4 | No | N/A | On perimeter of radial RPA – 5.4 metres |
| 811 | Ash      | 23 | 25  | 2.8 | No | N/A | On perimeter of radial RPA – 2.8 metres |
| 812 | Ash      | 42 | 81  | 5.1 | No | N/A | On perimeter of radial RPA – 5.1 metres |
| 813 | Elm      | 52 | 124 | 6.3 | No | N/A | On perimeter of radial RPA – 6.3 metres |
| 814 | Lime     | 46 | 206 | 8.1 | No | N/A | On perimeter of radial RPA – 8.1 metres |
| 815 | Ash      | 27 | 34  | 3.3 | No | N/A | On perimeter of radial RPA – 3.3 metres |
| 816 | Ash      | 37 | 163 | 7.2 | No | N/A | On perimeter of radial RPA – 7.2 metres |
| 817 | Alder    | 44 | 88  | 5.3 | No | N/A | On perimeter of radial RPA – 5.3 metres |
| 818 | Sycamore | 31 | 196 | 6.6 | No | N/A | On perimeter of radial RPA – 6.6 metres |

|     |          |    |     |     |    |     |                                         |
|-----|----------|----|-----|-----|----|-----|-----------------------------------------|
| 819 | Ash      | 51 | 117 | 6.1 | No | N/A | On perimeter of radial RPA – 6.1 metres |
| 820 | Oak      | 43 | 191 | 7.8 | No | N/A | On perimeter of radial RPA – 7.8 metres |
| 821 | Oak      | 50 | 113 | 6.0 | No | N/A | On perimeter of radial RPA – 6.0 metres |
| 822 | Oak      | 60 | 163 | 7.2 | No | N/A | On perimeter of radial RPA – 7.2 metres |
| 823 | Sycamore | 54 | 133 | 6.5 | No | N/A | On perimeter of radial RPA – 6.5 metres |
| 824 | Oak      | 32 | 46  | 3.8 | No | N/A | On perimeter of radial RPA – 3.8 metres |
| 825 | Oak      | 31 | 44  | 3.7 | No | N/A | On perimeter of radial RPA – 3.7 metres |
| 826 | Oak      | 55 | 137 | 6.6 | No | N/A | On perimeter of radial RPA – 6.6 metres |
| 827 | Ash      | 26 | 117 | 6.1 | No | N/A | On perimeter of radial RPA – 6.1 metres |
| 828 | Alder    | 28 | 124 | 6.3 | No | N/A | On perimeter of radial RPA – 6.3 metres |
| 829 | Elm      | 31 | 44  | 3.7 | No | N/A | On perimeter of radial RPA – 3.7 metres |
| 830 | Alder    | 35 | 55  | 4.2 | No | N/A | On perimeter of radial RPA – 4.2 metres |
| 831 | Oak      | 53 | 129 | 6.4 | No | N/A | On perimeter of radial RPA – 6.4 metres |
| 832 | Ash      | 22 | 22  | 2.6 | No | N/A | On perimeter of radial RPA – 2.6 metres |
| 833 | Alder    | 31 | 44  | 3.7 | No | N/A | On perimeter of radial RPA – 3.7 metres |
| 834 | Sycamore | 21 | 96  | 5.5 | No | N/A | On perimeter of radial RPA – 5.5 metres |
| 835 | Sycamore | 39 | 69  | 4.7 | No | N/A | On perimeter of radial RPA – 4.7 metres |

|     |                  |    |     |     |    |     |                                         |
|-----|------------------|----|-----|-----|----|-----|-----------------------------------------|
| 836 | Ash              | 40 | 72  | 4.8 | No | N/A | On perimeter of radial RPA – 4.8 metres |
| 837 | Elm              | 23 | 25  | 2.8 | No | N/A | On perimeter of radial RPA – 2.8 metres |
| 838 | Alder            | 60 | 163 | 7.2 | No | N/A | On perimeter of radial RPA – 7.2 metres |
| 839 | Alder            | 39 | 69  | 4.7 | No | N/A | On perimeter of radial RPA – 4.7 metres |
| G1  | Goat Willow, Ash | 38 | N/A | 4.6 | No | N/A | On perimeter of radial RPA – 4.6 metres |

#### **Section 4. Arboricultural Impact Assessment (AIA)**

4.1 This section will assess the implications, if any, that the proposed development will have on the 45 trees in the tree schedule – Table B and provide advice on arboricultural actions that will mitigate any impact resulting from the proposed development.

4.2 This information can then be used to evaluate the impact of the development on the tree(s) and if any remedial measures are required.

4.3 Please note that Table D of the AIA has been evaluated from information on the current plan. Any design changes after this time may require an amendment of the AIA.

| <b><u>TABLE D</u></b> | <b>Issues</b> | <b>Observations</b>                                                                                                                         | <b>Impact</b> |
|-----------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <i>Design phase</i>   | Category A    | There are no trees in this category                                                                                                         |               |
|                       | Category B    | The final design has not been confirmed but it appears that there will be little impact on the trees in this category                       |               |
|                       | Category C    | The final design has not been confirmed but it appears that there will be little impact on the trees in this category                       |               |
|                       | Category U    | For safety reasons the majority of these trees should be removed prior to the start of any demolition work. If required trees 802, 803, 807 |               |

|                           |                                        |                                                                                                                                    |  |
|---------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|
|                           |                                        | and 811 can be retained for habitat and biodiversity.                                                                              |  |
|                           | Structures in RPA                      | To be confirmed                                                                                                                    |  |
|                           | Services in RPA                        | To be confirmed                                                                                                                    |  |
|                           | Changes to existing ground levels      | To be confirmed                                                                                                                    |  |
| <i>Construction phase</i> | Demolition                             | Prior to the start of any work full tree protection measures must be installed.                                                    |  |
|                           | Site access                            | With the recommended tree protection measures the existing site access can be used for the construction vehicles and machinery.    |  |
|                           | Working areas                          | The working areas are outside the root protection areas.                                                                           |  |
|                           | Site office, storage and welfare unit. | There are sufficient areas outside the root protection areas that are adequate.                                                    |  |
|                           | Vehicle parking                        | There is adequate car parking.                                                                                                     |  |
| <i>Post development</i>   | Tree pruning / maintenance             | If the tree work in Table B is undertaken before the start of any work any further pruning will be limited to general maintenance. |  |
|                           | Tree roots                             | Future root growth is unlikely to affect the new development.                                                                      |  |
|                           | Shading / periodic nuisance            | There will be some shading and issues with falling leaves. General maintenance should keep this issue within acceptable limits.    |  |

**KEY - Prior to any mitigation measures**

|  |                                                                   |
|--|-------------------------------------------------------------------|
|  | No impact from development and no mitigation measures required.   |
|  | Some impact which will require mitigation measures.               |
|  | Low impact which may require mitigation measures.                 |
|  | High impact which will require an amended design or tree removal. |

4.4 Any infringement of the root protection areas of the retained trees will require ground protection. This should comprise of a membrane laid on the soil surface with a 10cms covering of wood chippings and finally the installation of bog mats which can then be used for the passage of materials and site staff. Additional measures such as a cellular confinement system for new footpaths may need to be considered.

4.5 Due to the nature of the development the impact of the development on the local landscape is minimal.

**Section 5. Recommendations.**

5.1 To protect the tree's root protection zones prior to any ground or construction work protective fencing as shown in Appendix 2 must be erected at an adequate distance from the trees. The minimum distances between the base of the main stem and the fencing are shown in Section 3, Table C under the RPA 2 column. After consultation and agreement with the local planning authority if the fence cannot be erected at the recommended distance from the tree it should be erected at the maximum distance possible and ground protection measures as stated in 4.4 above must be implemented.

5.2 All tree work must be completed by suitably qualified and competent arborists in accordance with the guidelines in BS3998:2010 Tree Work – Recommendations and current good practice.

5.3 No burning of waste products must be undertaken in the vicinity of retained trees.

5.4 To minimise any ground disturbance the removal of all stumps within the RPA's of retained trees must be undertaken by a stump grinder. Adequate ground protection with the use of bog mats to prevent soil compaction is usually required.

5.5 Soil contamination from cement mixing and washing must be avoided. If due to the topography of the land there is a risk of any contamination entering the RPA's and vicinity of retained trees adequate precautions to contain all pollution e.g. heavy duty plastic sheeting and sand bags, must be implemented.

5.6 Prior to any tree work the structure of the individual trees and surrounding area should be checked by a suitably competent and qualified person for protected species such as nesting birds and bats. If possible all tree work operations should be undertaken when the minimum disturbance is caused to the local wildlife.

5.7 The construction of new footpaths, parking and/or turning areas within root protection zones should be avoided. If this is unavoidable any works within these zones will require the installation of a cellular confinement system. It would be advisable to obtain the advice of a suitably qualified arborist prior to this type of work.

5.8 On completion of the development it would be beneficial to the site and surrounding area if an appropriate mixture of tree species was planted. This new planting will provide a natural screen, visual diversity, habitat for wildlife and a broader age class that currently exists.

5.9 To provide an accurate evaluation of the trees physiological condition it is advisable if all the trees are reinspected during the summer months when the trees should be in full leaf.

## **Section 6. Conclusion**

6.1 If the recommendations in BS5837:2012 and this report are followed due to the location of the trees and the site topography this development should not have a significant impact on the existing trees. Additional precautions such as ground protection will be required for any work within the root protection areas of retained trees.

## **Section 7. References.**

British Standard 5837 : 2012 Trees in relation to design, demolition and construction.

British Standard 3998 : 2010 Tree Work – Recommendations.

Tree surveys – A guide to good practice (2005). Fay, Dowson & Helliwell.

Principles of tree hazard assessment and management (1999). Lonsdale.

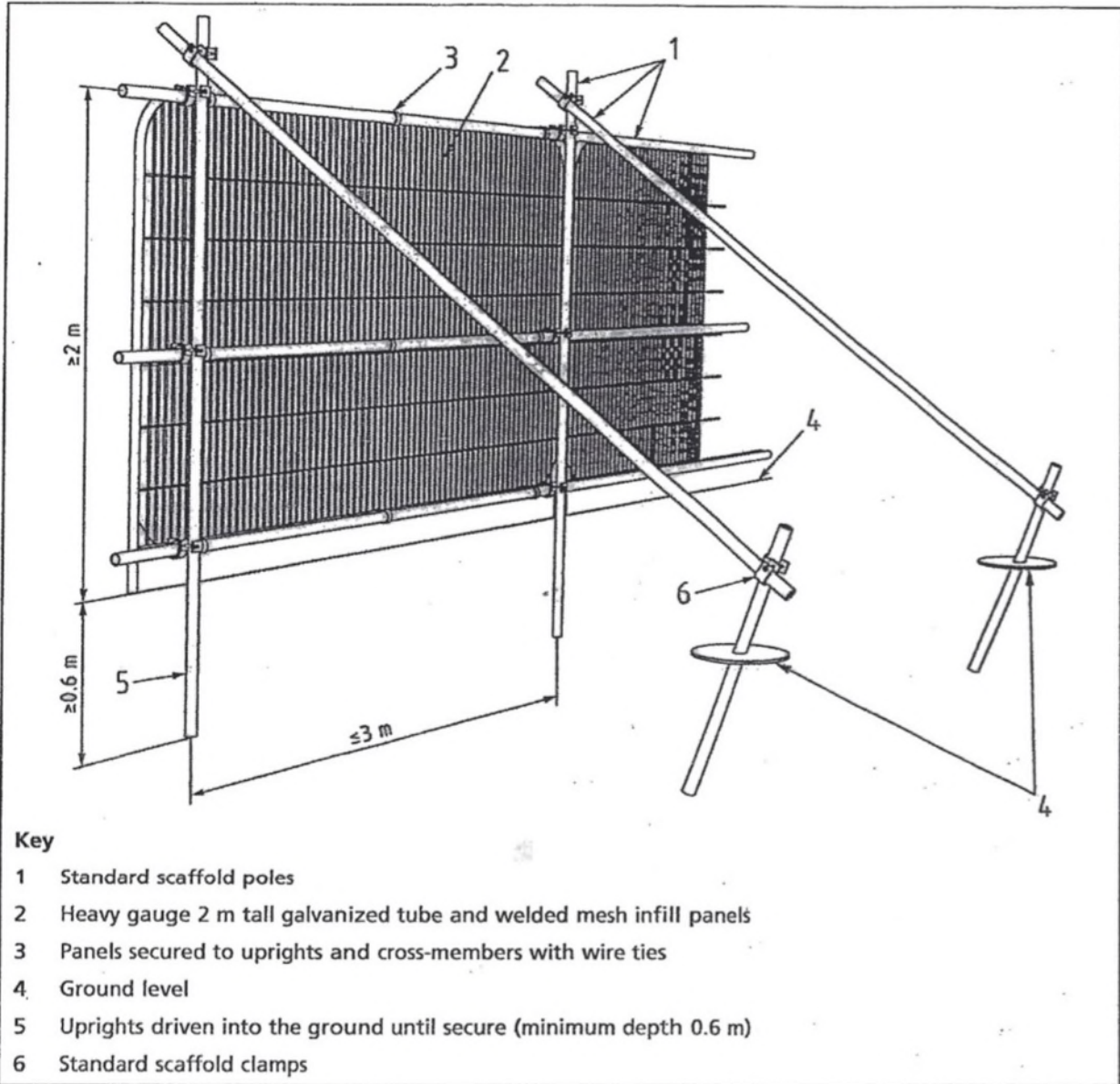
National Joint Utilities Group Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees. Volume 4: Issue 2

<https://treeterms.co.uk>

## **Appendix 1: Terms used in Table B Tree and root protection area schedules**

|                                   |                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tree no.                          | - tree tag / plan numbers                                                                                                                                                                           |
| Tree name                         | - Common English name                                                                                                                                                                               |
| Height                            | - Height in metres                                                                                                                                                                                  |
| Stem diameter<br>climbing plants, | - Stem diameters measured as per BS5837:2012 recommendations. If due to climbing plants, dense vegetation or restricted access a direct measurement is not possible the diameter will be estimated. |
| Age class                         | - SM - Semi mature EM - Early mature M - Mature LM - Late mature                                                                                                                                    |
| Crown spread                      |                                                                                                                                                                                                     |
| Low branches                      | - Crown radius in metres to North, South, East and West<br>- Distance to the lowest branch from ground level.<br>- N/A - not applicable due to tree form.                                           |
| RPA 1                             | - Recommended root protection area in square metres.                                                                                                                                                |
| RPA 2                             | - Recommended root protection area radius measured from the base of the tree.                                                                                                                       |
| BS category                       | - refer Table 1 for classification and further information.                                                                                                                                         |

## Appendix 2



**Table 1 Cascade chart for tree quality assessment**

| Category and definition                                                                                                                                                   | Criteria (Including subcategories where appropriate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                 |                                                                                                                                       | Identification on plan |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Trees unsuitable for retention (see Note)                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| <b>Category U</b><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years | <ul style="list-style-type: none"><li>• Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li><li>• Trees that are dead or showing signs of significant, immediate, and irreversible overall decline</li><li>• Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality</li></ul> |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve;                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| <b>1 Mainly arboricultural qualities</b>                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| <b>2 Mainly landscape qualities</b>                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| <b>3 Mainly cultural views including conservation</b>                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| Trees to be considered for retention                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| <b>Category A</b><br>Trees of high quality with an estimated remaining life expectancy of at least 40 years                                                               | Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)                                                                                                                                                                                                                                                                                                                                                                                             | Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features                                                                                                                                                          | Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture) |                        |
| <b>Category B</b>                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| Trees of moderate quality with an estimated remaining life expectancy of at least 20 years                                                                                | Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation                                                                                                                                                                                                                                                                                      | Trees present in numbers, usually growing as groups or woodlands, such that they attract higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality | Trees with material conservation or other cultural value                                                                              |                        |
| <b>Category C</b>                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                 |                                                                                                                                       |                        |
| Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm                                   | Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits                                                            | Trees with no material conservation or other cultural value                                                                           |                        |

### **Site and tree location plan**

Refer to comments in 1.4 of this report.