



# **Arboricultural Constraints Appraisal**

in Relation to Proposed Construction of Development at



**Leigh Lane, Bury,  
Greater Manchester,  
BL8 2RH**

Prepared by:

**Bowland**   
Tree Consultancy Ltd

August 2023

# ARBORICULTURAL CONSTRAINTS APPRAISAL LEIGH LANE, BURY

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## **CONTENTS**

1. TREE SURVEY SCHEDULE & BS5837: 2012 TABLE 1
2. TEMPORARY PROTECTIVE FENCING SPECIFICATION
3. TREE CONSTRAINTS PLAN



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# ARBORICULTURAL CONSTRAINTS APPRAISAL LEIGH LANE, BURY

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## **PROJECT DETAILS**

**Project No.:** BTC2771

**Site:** Leigh Lane, Bury, Greater Manchester, BL8 2RH

**Agent for Client:** 3D Eco

**Council:** Bury Metropolitan Borough Council

**Survey Date:** 31 July & 4 August 2023

**Surveyed by:** Ryan Gledhill FdSc MArborA

**Prepared by:** Ryan Gledhill FdSc MArborA

**Checked by:** Joseph Lambert BSc(Hons) FdSc MArborA MICFor

**Date of Issue:** 17 August 2023

**Version No:** 1

## **DISCLAIMER**

**Survey Limitations:** Unless otherwise stated all trees are surveyed from ground level using non-invasive techniques. The disclosure of hidden crown and stem defects, in particular where they may be above a reachable height or where trees are ivy clad or in areas of ground vegetation, cannot therefore be expected. All obvious defects, however, are reported. Detailed tree safety appraisals are only carried out under specific written instructions. Comments upon evident tree safety relate to the condition of said tree at the time of the survey only.

Unless otherwise stated all trees should be re-inspected annually in order to appraise their on-going mechanical integrity and physiological condition. It should, however, be recognised that tree condition is subject to change, for example due to the effects of disease, decay, high winds, development works, etc. Changes in land use or site conditions (e.g. development that increases access frequency) and the occurrence of severe weather incidents are also significant considerations with regards tree structural integrity and trees should therefore be re-assessed in the context of such changes and/or incidents and inspected at intervals relative to identified and varying site conditions and associated risks.

Where trees are located wholly or partially on neighbouring private third-party land then said land is not accessed and our inspection is therefore restricted to what can reasonably be seen from within the site. Stem diameters of trees located on such land are estimated. Any subsequent comments and judgments made in respect of such trees are based on these restrictions and are our preliminary opinion only. Recommendations for works to neighbouring third-party trees are only made where a potentially unacceptable risk to persons and/or property has been identified during our survey. Where significant structural defects of third-party trees are identified and associated management works are considered essential to negate any risk of harm and/or damage then we will first attempt to inform the site occupier of the issues and, if not possible, then inform the relevant Council. Where a more detailed assessment is considered necessary then appropriate recommendations are set out in the Tree Survey Schedule.

Where tree stem locations are not included on the plan(s) provided then they are plotted at the time of the survey using, where appropriate and/or practicable, a combination of measurement triangulation and GPS co-ordination. Where this is not possible then locations are estimated. Restrictions in these respects are detailed in the report.

The tree survey and any report information provided is intended as a guide to identify key tree related constraints to site development only. As such, the potential influence of trees upon existing or proposed buildings or other structures resulting from the effects of their roots abstracting water from shrinkable load-bearing soils is not considered herein. The tree survey information in its current form should not therefore be considered sufficient to determine appropriate foundation depths for new buildings. Accordingly, an updated survey, with reference to the current NHBC Standards Chapter 4.2 - Building Near Trees, must therefore be prepared for the specific purpose of informing suitable foundation depths subsequent to planning approval being granted. The advice of a structural engineer must also be sought with regard to appropriate foundation depths for new buildings.

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**Statutory Tree Protection:** It is the client's responsibility to check for the presence of any statutory tree protection measures, such as the site's location within a Conservation Area and/or the presence of any Tree Preservation Orders, directly with the applicable Council's planning department prior to scheduling or carrying out any tree works. In turn, it is also the client's responsibility to check for the need for a felling licence with the Forestry Commission prior to scheduling or carrying out any tree works. Bowland Tree Consultancy Ltd cannot be held responsible for any decisions made by the client to prune or remove trees where any such statutory protection exists.

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**Validity:** The findings and recommendations contained within this report are, providing its recommendations are observed and the site conditions are retained as per the date(s) of the survey, valid for a period of twelve months from the last survey date. This period of validity may be reduced should there be any changes in factors affecting both the surrounding environment and/or built structures in relative proximity to the trees. The condition of trees should be re-appraised directly, through a site survey, following major weather events such as storms, changes undertaken to the site's conditions, inclusive of demolition and/or ground works, or the removal of existing site vegetation, including trees.

| TREE SURVEY SCHEDULE FOR ARBORICULTURAL CONSTRAINTS APPRAISAL |  |                                               |  |  |  |  |  |
|---------------------------------------------------------------|--|-----------------------------------------------|--|--|--|--|--|
| Site:                                                         |  | Leigh Lane, Bury, Greater Manchester, BL8 2RH |  |  |  |  |  |
| Agent:                                                        |  | 3D Eco                                        |  |  |  |  |  |

|                |                            |
|----------------|----------------------------|
| Surveyor:      | Ryan Gledhill FdSc MArborA |
| Survey Date:   | 31 July & 4 August 2023    |
| Job Reference: | BTC2771                    |

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| Page: 1 of 6 |
|--------------|

| No. | Species     | Height | Stem Diam. | Branch Spread                   | Branch & Canopy Clearances | Life Stage | PC | General Observations and Comments                                                                                                                                                                                                                                                                                                                                                                                                                                             | Management Recommendations | ERC | Cat. Grade | RPA (m²) | RPA Radius (m) |
|-----|-------------|--------|------------|---------------------------------|----------------------------|------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|------------|----------|----------------|
| T1  | Common Oak  | 13     | 550        | N 5.5<br>E 3<br>S 5.5<br>W 5.50 | 1-N<br>4                   | EM         | G  | <ul style="list-style-type: none"> <li>Previous crown lift pruning to a height of 4m to facilitate clearance over vehicle track.</li> <li>Minor deadwood to 100mm diameter.</li> <li>Exposed structural root northwest, arching above ground to height of 150mm.</li> <li>Previous crown reduction pruning east by utility arborists.</li> </ul>                                                                                                                              |                            | 20+ | B1/2       | 137      | 6.6            |
| T2  | Goat Willow | 14     | 520        | N 5.5<br>E 4<br>S 2.5<br>W 5    | 5-W<br>1                   | EM         | G  | <ul style="list-style-type: none"> <li>Previous crown lift pruning to a height of 8m by utility arborist, to facilitate clearance over telephone wires and associated pole.</li> <li>Heavily suppressed south.</li> </ul>                                                                                                                                                                                                                                                     |                            | 10+ | C1         | 122      | 6.24           |
| T3  | Goat Willow | 14     | 590        | N 7<br>E 6.5<br>S 3<br>W 4.5    | 2.5-N<br>3                 | EM         | G  | <ul style="list-style-type: none"> <li>Previous crown reduction pruning by utility arborists to facilitate clearance from overhead telephone wires.</li> <li>Heavily suppressed south.</li> </ul>                                                                                                                                                                                                                                                                             |                            | 10+ | C1         | 157      | 7.08           |
| T4  | Common Oak  | 15     | 650        | N 10<br>E 9<br>S 5.5<br>W 3.5   | 1-N<br>5                   | EM         | G  | <ul style="list-style-type: none"> <li>Previous crown lift pruning to a height of 5m to facilitate clearance over vehicle track.</li> <li>Minor deadwood to 100mm diameter.</li> <li>Instances of historic secondary branch fractures, with remaining branch pegs to 170mm diameter at heights of 4m and 5m.</li> <li>Previous crown thinning pruning by utility arborists to facilitate clearance from overhead telephone cable running through centre of canopy.</li> </ul> |                            | 20+ | B1/2       | 191      | 7.8            |
| T5  | Common Oak  | 14     | 500        | N 2<br>E 2<br>S 5.5<br>W 2.5    | 6-E<br>5                   | EM         | G  | <ul style="list-style-type: none"> <li>Heavily reduced north by utility arborists to facilitate clearance from overhead telephone cable.</li> <li>Canopy significantly biased south.</li> <li>Heavily suppressed by neighbouring tree T4.</li> </ul>                                                                                                                                                                                                                          |                            | 10+ | C1         | 113      | 6              |

#### Headings and Abbreviations:

|                                    |                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No.                                | Allocated sequential reference number - Tree ('T'), Group ('G'), Woodland ('W') or Hedge ('H') reference number - refer to plan and to numbered tags where applicable                                                                                                                                               |
| Species:                           | Common name                                                                                                                                                                                                                                                                                                         |
| Height:                            | In metres, to half nearest metre – where possible approximately 80% are measured using an electronic clinometer and the remainder estimated against the measured trees. In the case of Groups and Woodlands the measurement listed is that of the highest tree                                                      |
| Stem Diam.:                        | Stem diameter in millimetres, to nearest 10mm - measured and calculated as per Annex C of BS5837:2012. MS = multi-stemmed, TS = twin-stemmed                                                                                                                                                                        |
| Branch Spread:                     | Crown radius measured (or estimated where considered appropriate) from the four cardinal points (north, east, south and west) to give an accurate visual representation of the crown                                                                                                                                |
| Branch & Canopy Clearances:        | Existing height above ground level, in metres, of first significant branch and direction of growth (e.g. 2.5-N) and of canopy at lowest point – to inform on crown to height ratio, potential for shading, etc.                                                                                                     |
| Life Stage:                        | Estimated age class - Y = young, SM = semi-mature, EM = early-mature, M = mature, PM = post-mature                                                                                                                                                                                                                  |
| PC:                                | Physiological Condition - a measure of the tree(s)' overall vitality, i.e. D = Dead, MD = Moribund, P = Poor, M = Moderate, G = Good                                                                                                                                                                                |
| General Observations and Comments: | Comments relating to the tree(s)' overall condition and any other pertinent factors including structural defects, current and potential direct structural damage, physiological decline, poor form, etc.                                                                                                            |
| Management Recommendations:        | Either Preliminary or In Consideration of the Proposal - In the case of Arboricultural Constraints Surveys the recommended management works only take existing site and tree circumstances and conditions into account and not proposed developments. Arboricultural Impact Assessment and Method Statement related |
| ERC:                               | Surveys take the proposed development into consideration with recommendations made accordingly. More than one option may be given if considered appropriate                                                                                                                                                         |
| Cat. Grade:                        | Estimated Remaining Contribution - in years as per BS5837:2012 (i.e. <10, 10+, 20+, 40+)                                                                                                                                                                                                                            |
| RPA m²:                            | Category Grading - tree retention value listed as U, A, B or C - in accordance with BS5837:2012 Table 1                                                                                                                                                                                                             |
| RPA Radius (m):                    | Root Protection Area in m² - calculated area around the tree that must be appropriately protected throughout the development process in order avoid root damage                                                                                                                                                     |
| # (Estimated Dimensions):          | Root Protection Area Radius - in metres measured from the centre of the stem to the line of tree protection                                                                                                                                                                                                         |
|                                    | Where trees are located off-site, or are inaccessible for any other reason, and accurate measurements or other information cannot be taken then the information provided is estimated and is duly suffixed with a “#” symbol                                                                                        |

| TREE SURVEY SCHEDULE FOR ARBORICULTURAL CONSTRAINTS APPRAISAL |  |                                               |  |  |  |  |  |
|---------------------------------------------------------------|--|-----------------------------------------------|--|--|--|--|--|
| Site:                                                         |  | Leigh Lane, Bury, Greater Manchester, BL8 2RH |  |  |  |  |  |
| Agent:                                                        |  | 3D Eco                                        |  |  |  |  |  |

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| Page: 2 of 6 |
|--------------|

| No. | Species         | Height | Stem Diam.                      | Branch Spread                    | Branch & Canopy Clearances | Life Stage | PC | General Observations and Comments                                                                                                                                                                                                                                                                                                              | Management Recommendations | ERC | Cat. Grade | RPA (m²) | RPA Radius (m) |
|-----|-----------------|--------|---------------------------------|----------------------------------|----------------------------|------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|------------|----------|----------------|
| T6  | Common Hornbeam | 17     | 1x760<br>1x520<br>1x400<br>(ms) | N 7<br>E 7.5<br>S 6<br>W 4       | 3-E<br>5                   | M          | G  | <ul style="list-style-type: none"> <li>Trifurcates at 1m height.</li> <li>Crown lift pruning to a height of 7m, to facilitate clearance over overhead telephone cable and vehicle access track.</li> <li>Frequent instances of acute primary and secondary unions and attenuated canopy form subsequent of surrounding suppression.</li> </ul> |                            | 20+ | B1         | 456      | 12.05          |
| T7  | Common Beech    | 18     | 1020                            | N 3<br>E 7.5<br>S 9<br>W 8       | 2.5-S<br>4.5               | M          | G  | <ul style="list-style-type: none"> <li>Previous crown lift pruning to a height of 6m to facilitate clearance over soft surface compacted vehicle track within site.</li> <li>Heavily biased south subsequent of neighbouring suppression.</li> <li>Bifurcates at 2m height into acute included bark union.</li> </ul>                          |                            | 20+ | B1         | 471      | 12.24          |
| T8  | Common Beech    | 17     | 330                             | N 2<br>E 2<br>S 5<br>W 3         | 5-SW<br>5                  | SM         | G  | <ul style="list-style-type: none"> <li>Heavily suppressed crown with frequent instances of canopy conflicts with adjacent mature trees.</li> </ul>                                                                                                                                                                                             |                            | 10+ | C1         | 49       | 3.96           |
| T9  | Sycamore        | 14     | 240                             | N 5<br>E 5<br>S 4<br>W 5         | 5-N<br>5                   | SM         | P  | <ul style="list-style-type: none"> <li>Extensive dieback throughout upper crown and signs of a late stage of progressive decline.</li> </ul>                                                                                                                                                                                                   |                            | <10 | U          | N/A      | N/A            |
| T10 | Sycamore        |        | 510                             | N 4.5<br>E 4<br>S 3.5<br>W 4     | N/A<br>6                   | EM         | G  | <ul style="list-style-type: none"> <li>Slight stem lean south correcting at 3m height.</li> <li>120mm wide longitudinal bark fracture north from a height of 0.5m to 2m, exposing decayed internal heart wood.</li> <li>Numerous instances of longitudinal incremental strips adjacent to lower stem defect.</li> </ul>                        |                            | 10+ | C1         | 118      | 6.12           |
| T11 | Common Oak      | 17     | 480                             | N 5<br>E 5<br>S 2.5<br>W 5       | 7-S<br>7                   | EM         | G  | <ul style="list-style-type: none"> <li>Minor deadwood to a diameter of approximately 120mm lower canopy.</li> <li>Moderate canopy suppression south.</li> </ul>                                                                                                                                                                                |                            | 40+ | A1         | 104      | 5.76           |
| T12 | Common Oak      | 17     | 400                             | N 3.5<br>E 5.5<br>S 2.5<br>W 2.5 | 5-E<br>6                   | EM         | G  | <ul style="list-style-type: none"> <li>Minor deadwood to a diameter of approximately 100mm.</li> <li>Moderate canopy suppression west.</li> </ul>                                                                                                                                                                                              |                            | 40+ | A1         | 72       | 4.8            |
| T13 | Common Oak      | 18     | 440                             | N 3.5<br>E 3<br>S 2.5<br>W 5     | 6-W<br>6                   | EM         | G  | <ul style="list-style-type: none"> <li>Significant canopy suppression south east.</li> </ul>                                                                                                                                                                                                                                                   |                            | 40+ | A1         | 88       | 5.28           |

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| Page: 3 of 6 |
|--------------|

| No. | Species      | Height | Stem Diam.                      | Branch Spread                            | Branch & Canopy Clearances | Life Stage | PC | General Observations and Comments                                                                                                                                                                                      | Management Recommendations | ERC | Cat. Grade | RPA (m²) | RPA Radius (m) |
|-----|--------------|--------|---------------------------------|------------------------------------------|----------------------------|------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|------------|----------|----------------|
| T14 | Common Oak   | 18     | 430                             | N<br>E<br>S<br>W<br>3<br>5<br>4<br>2     | 5-S<br>6                   | EM         | G  | ▪ Significant canopy suppression north west.                                                                                                                                                                           |                            | 40+ | A1         | 84       | 5.16           |
| T15 | Sycamore     | 17     | 1x330<br>1x300<br>(ts)          | N<br>E<br>S<br>W<br>3<br>4<br>1.5<br>5   | 3.5-E<br>4                 | SM         | M  | ▪ Bifurcates at base into acute primary union.<br>▪ Southern leader has succumbed to upper stem failure at a height of 7m with arisings on site.<br>▪ Canopy heavily suppressed south.                                 |                            | 10+ | C1         | 90       | 5.35           |
| T16 | Sycamore     | 18     | 1x430<br>2x420<br>(ms)          | N<br>E<br>S<br>W<br>1.5<br>6<br>4.5<br>6 | 4-W<br>2.5                 | M          | M  | ▪ Trifurcates at base into acute included primary unions.<br>▪ Several instances of bark necrosis throughout stem base.<br>▪ Moderate deadwood within northern canopy to 100mm diameter.<br>▪ Heavy suppression north. |                            | 10+ | C1         | 243      | 8.8            |
| T17 | Sycamore     | 17     | 1x470<br>1x440<br>(ts)          | N<br>E<br>S<br>W<br>3<br>5<br>5<br>5     | 2-E<br>4                   | M          | G  | ▪ Bifurcates at ground level.<br>▪ Helical stem primary union at base.<br>▪ Significant canopy suppression north.<br>▪ Acute included secondary union at a height of 2m south.                                         |                            | 20+ | B1         | 188      | 7.73           |
| T18 | Common Holly | 9      | 150                             | N<br>E<br>S<br>W<br>2<br>2<br>2<br>1     | 3<br>2                     | Y          | M  | ▪ Significant bark necrosis throughout lower stem.<br>▪ Heavily suppressed west.                                                                                                                                       |                            | 10+ | C1         | 10       | 1.8            |
| T19 | Sycamore     | 7      | 120                             | N<br>E<br>S<br>W<br>2<br>2<br>2<br>2     | 2.5<br>2                   | Y          | M  | ▪ Heavily suppressed.                                                                                                                                                                                                  |                            | 10+ | C1         | 7        | 1.44           |
| T20 | Common Holly | 5      | 90                              | N<br>E<br>S<br>W<br>2<br>2<br>2<br>2     | 0.5<br>0.5                 | Y          | G  | ▪ Moderate canopy suppression east.                                                                                                                                                                                    |                            | 20+ | C1         | 4        | 1.08           |
| T21 | Sycamore     | 14     | 1x270<br>1x250<br>1x220<br>(ms) | N<br>E<br>S<br>W<br>3<br>6<br>3<br>6     | 3-E<br>3.5                 | SM         | G  | ▪ Trifurcates at base.<br>▪ Significant basal arch and union from ground level, indicative of historic coppicing.                                                                                                      |                            | 20+ | B1         | 83       | 5.14           |

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| Page: 4 of 6 |
|--------------|

| No. | Species       | Height | Stem Diam.                               | Branch Spread    |                        | Branch & Canopy Clearances | Life Stage | PC | General Observations and Comments                                                                                                                                                                                                                  | Management Recommendations | ERC | Cat. Grade | RPA (m²) | RPA Radius (m) |
|-----|---------------|--------|------------------------------------------|------------------|------------------------|----------------------------|------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|------------|----------|----------------|
| T22 | Sycamore      | 17     | 600                                      | N<br>E<br>S<br>W | 3<br>6<br>3<br>6.      | 3-S<br>3.5                 | M          | MD | <ul style="list-style-type: none"><li>Extensive bark necrosis throughout stem and primary branch architecture.</li><li>Significant reduction in vitality and late stage of progressive decline.</li><li>Short remaining life expectancy.</li></ul> |                            | <10 | U          | N/A      | N/A            |
| T23 | Common Oak    | 18     | 620                                      | N<br>E<br>S<br>W | 5.5<br>7.5<br>5<br>6.5 | 2-W<br>3.5                 | M          | G  | <ul style="list-style-type: none"><li>Slight stem lean east.</li><li>Minor deadwood to a diameter of 100mm.</li></ul>                                                                                                                              |                            | 40+ | A1         | 174      | 7.44           |
| T24 | Silver Birch  | 15     | 510                                      | N<br>E<br>S<br>W | 4<br>3<br>4<br>4       | 3<br>5                     | EM         | G  | <ul style="list-style-type: none"><li>Bifurcates at 3.5m.</li><li>Lower stem arching west, correcting at a height of 2.5m.</li><li>Slight suppression west.</li></ul>                                                                              |                            | 20+ | B1         | 118      | 6.12           |
| T25 | Cherry Laurel | 5.5    | 160                                      | N<br>E<br>S<br>W | 3<br>4<br>2<br>1.5     | 2<br>1                     | SM         | G  | <ul style="list-style-type: none"><li>Heavily biased canopy east.</li></ul>                                                                                                                                                                        |                            | 10+ | C1         | 12       | 1.92           |
| T26 | Sycamore      | 17     | 1x340<br>1x300<br>1x290<br>2x180<br>(ms) | N<br>E<br>S<br>W | 4.<br>7<br>3<br>4.5    | 1<br>4                     | SM         | G  | <ul style="list-style-type: none"><li>Multi stemmed from base.</li><li>Coppice origin.</li><li>Heavily biased east.</li></ul>                                                                                                                      |                            | 10+ | C1         | 160      | 7.14           |
| T27 | Scots Pine    | 14     | 220                                      | N<br>E<br>S<br>W | 1.5<br>1.5<br>1.5<br>1 | 10<br>10                   | SM         | D  | <ul style="list-style-type: none"><li>Dead tree.</li></ul>                                                                                                                                                                                         |                            | <10 | U          | N/A      | N/A            |
| T28 | Scots Pine    | 24     | 670                                      | N<br>E<br>S<br>W | 5<br>5<br>5<br>5       | 7-N<br>10                  | M          | G  | <ul style="list-style-type: none"><li>Slight stem lean east.</li><li>Numerous instances of previous secondary branch fractions, with hanging limbs to a diameter of approximately 180mm in canopy.</li></ul>                                       |                            | 20+ | B1         | 203      | 8.04           |
| T29 | Silver Birch  | 16     | 440                                      | N<br>E<br>S<br>W | 5<br>2.5<br>5<br>5.5   | 2-W<br>5                   | EM         | G  | <ul style="list-style-type: none"><li>Canopy suppressed east.</li></ul>                                                                                                                                                                            |                            | 40+ | A1         | 88       | 5.28           |

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| No. | Species        | Height | Stem Diam.             | Branch Spread    |                      | Branch & Canopy Clearances | Life Stage | PC | General Observations and Comments                                                                                                      | Management Recommendations | ERC | Cat. Grade | RPA (m²) | RPA Radius (m) |
|-----|----------------|--------|------------------------|------------------|----------------------|----------------------------|------------|----|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|------------|----------|----------------|
| T30 | European Larch | 21     | 630                    | N<br>E<br>S<br>W | 5<br>5<br>5<br>5     | 7-S<br>7                   | M          | G  | ▪ Moderate instances of deadwood to 60mm diameter within lower canopy.                                                                 | ▪                          | 40+ | A1         | 180      | 7.56           |
| T31 | European Larch | 18     | 330                    | N<br>E<br>S<br>W | 3<br>5<br>5<br>6     | 7-S<br>7                   | SM         | G  | ▪ Moderate instances of deadwood to 100mm diameter within lower canopy.                                                                | ▪                          | 40+ | A1         | 49       | 3.96           |
| T32 | European Larch | 21     | 600                    | N<br>E<br>S<br>W | 5<br>5<br>5<br>6.5   | 7-S<br>7                   | M          | G  | ▪ Moderate instances of deadwood to 60mm diameter within lower canopy.                                                                 | ▪                          | 40+ | A1         | 163      | 7.2            |
| T33 | Common Oak     | 17     | 580                    | N<br>E<br>S<br>W | 4<br>5<br>5.5<br>5   | 4.5-S<br>8                 | M          | G  | ▪ Slight stem lean west.                                                                                                               | ▪                          | 40+ | A1         | 152      | 6.96           |
| T34 | Common Oak     | 17     | 400                    | N<br>E<br>S<br>W | 3.<br>5<br>5<br>3    | 4.5-S<br>8                 | SM         | G  | ▪ Dead branch at a height of 9m, to 70mm diameter and 3m long.                                                                         | ▪                          | 40+ | A1         | 72       | 4.8            |
| T35 | Sycamore       | 18     | 760                    | N<br>E<br>S<br>W | 6<br>4<br>6<br>6     | 2.5-SW<br>6                | M          | G  | ▪ Slight stem lean south.<br>▪ Bifurcates at 5m.<br>▪ Minor deadwood and several hanging branches to a diameter of approximately 70mm. | ▪                          | 40+ | A1         | 261      | 9.12           |
| T36 | Common Beech   | 21     | 1x790<br>1x750<br>(ts) | N<br>E<br>S<br>W | 7<br>7<br>6<br>4.5   | 4-E<br>4                   | M          | G  | ▪ Bifurcates at ground level.<br>▪ Moderate canopy suppression west.                                                                   | ▪                          | 40+ | A1         | 537      | 13.07          |
| T37 | Common Oak     | 14     | 410                    | N<br>E<br>S<br>W | 4<br>2<br>4<br>5     | 5-W<br>5                   | SM         | G  | ▪ Slight stem lean west.<br>▪ Moderate canopy bias west subsequent of neighbouring suppression.                                        | ▪                          | 20+ | B1         | 76       | 4.92           |
| T38 | Sycamore       | 15     | 500                    | N<br>E<br>S<br>W | 5<br>4<br>2.5<br>3.5 | 4.5-N<br>3                 | EM         | G  | ▪ Previous crown lift reduction pruning by utility arborists south to facilitate clearance from overhead telephone cable.              | ▪                          | 20+ | B1         | 113      | 6              |

| TREE SURVEY SCHEDULE FOR ARBORICULTURAL CONSTRAINTS APPRAISAL |  |                                               |  |  |  |  |  |
|---------------------------------------------------------------|--|-----------------------------------------------|--|--|--|--|--|
| Site:                                                         |  | Leigh Lane, Bury, Greater Manchester, BL8 2RH |  |  |  |  |  |
| Agent:                                                        |  | 3D Eco                                        |  |  |  |  |  |

|                |                            |
|----------------|----------------------------|
| Surveyor:      | Ryan Gledhill FdSc MArborA |
| Survey Date:   | 31 July & 4 August 2023    |
| Job Reference: | BTC2771                    |

|              |
|--------------|
| Page: 6 of 6 |
|--------------|

| No. | Species                                                                                | Height | Stem Diam. | Branch Spread |       | Branch & Canopy Clearances | Life Stage | PC  | General Observations and Comments                                                                                                                                                                                                                                                                                                 | Management Recommendations | ERC | Cat. Grade | RPA (m²) | RPA Radius (m) |
|-----|----------------------------------------------------------------------------------------|--------|------------|---------------|-------|----------------------------|------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----|------------|----------|----------------|
| T39 | Goat Willow                                                                            | 14     | 570        | N             | 5     | 5-W<br>3                   | EM         | M   | <ul style="list-style-type: none"><li>Pruned south by utility arborists to facilitate clearance from overhead telephone cable.</li><li>Heavily biased north.</li><li>Numerous instances of secondary branch fractures within canopy.</li></ul>                                                                                    |                            | 10+ | C1         | 147      | 6.84           |
|     |                                                                                        |        | E          | 2             |       |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | S             | 1     |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | W             | 5     |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
| G1  | 4no. Beech,<br>1no. Hornbeam                                                           | ≤ 20   | ≤ 740      | N             | ≤ 6   | 2-E<br>≥ 6                 | M          | G   | <ul style="list-style-type: none"><li>Close to moderate spaced linear group.</li><li>Part of wider tree line west.</li><li>Evidently frequently crown lifted to a height of 8-10m by utility arborists to facilitate clearance over overhead telephone cable.</li><li>Rubble piled over RPA south.</li></ul>                      |                            | 20+ | B2         | ≤ 248    | ≤ 8.88         |
|     |                                                                                        |        |            | E             | ≤ 5.5 |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | S             | ≤ 8   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | W             | ≤ 5   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
| G2  | Beech,<br>Sycamore                                                                     | ≤ 20   | ≤ 990      | N             | ≤ 6   | 2-W<br>≥ 6                 | SM-M       | G   | <ul style="list-style-type: none"><li>Close spaced group growing adjacent to rubble vehicle track running south through site.</li><li>Previous crown lift pruning to a height of 6m to facilitate clearance from vehicle track.</li><li>Minor to moderately instances of deadwood to a diameter of approximately 100mm.</li></ul> |                            | 20+ | B2         | ≤ 443    | ≤ 11.88        |
|     |                                                                                        |        |            | E             | ≤ 7   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | S             | ≤ 5   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | W             | ≤ 6   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
| G3  | 2no. Beech,<br>1no. Sycamore,<br>1no. Hornbeam                                         | ≤ 20   | ≤ 560      | N             | ≤ 6   | 5-N<br>≥ 5                 | EM         | G   | <ul style="list-style-type: none"><li>Close to moderate spaced group adjacent to public footpath boundary.</li><li>Central Beech tree bifurcates at base.</li></ul>                                                                                                                                                               |                            | 40+ | A2         | ≤ 142    | ≤ 6.72         |
|     |                                                                                        |        |            | E             | ≤ 6   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | S             | ≤ 6   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | W             | ≤ 6   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
| G4  | Holly,<br>Sycamore,<br>Beech, Ash                                                      | ≤ 12   | ≤ 270      | N             | ≤ 3   | 2<br>≥ 1                   | Y-SM       | M-G | <ul style="list-style-type: none"><li>Close spaced group of younger trees within understory of established trees.</li><li>Previous crown reduction pruning to facilitate clearance from soft surface vehicle track within site.</li></ul>                                                                                         |                            | 10+ | C2         | ≤ 33     | ≤ 3.24         |
|     |                                                                                        |        |            | E             | ≤ 3   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | S             | ≤ 3   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | W             | ≤ 3   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
| G5  | Sycamore, Holly                                                                        | ≤ 8    | ≤ 200      | N             | ≤ 3   | 1<br>≥ 1                   | Y-SM       | M-G | <ul style="list-style-type: none"><li>Close spaced group adjacent to vehicle track.</li><li>Previous crown reduction pruning by utility arborists to facilitate clearance from overhead telephone cable.</li></ul>                                                                                                                |                            | 10+ | C2         | ≤ 18     | ≤ 2.4          |
|     |                                                                                        |        |            | E             | ≤ 3   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | S             | ≤ 1.5 |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | W             | ≤ 2   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
| W1  | Beech, Oak,<br>Sycamore,<br>Holly, Cherry<br>Laurel, Grey<br>Poplar, Sweet<br>Chestnut | ≤ 20   | ≤ 1100     | N             | ≤ 7   | 2<br>≥ 2                   | SM-M       | M-G | <ul style="list-style-type: none"><li>Close spaced woodland group.</li><li>Linear row of mature Beech trees within southern extents.</li><li>Minor to moderate instances of deadwood.</li><li>Arisings within understory retained for ecological benefits.</li><li>Heavy mutual suppression.</li></ul>                            |                            | 40+ | A2         | ≤ 547    | ≤ 13.2         |
|     |                                                                                        |        |            | E             | ≤ 7   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | S             | ≤ 7   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |
|     |                                                                                        |        |            | W             | ≤ 7   |                            |            |     |                                                                                                                                                                                                                                                                                                                                   |                            |     |            |          |                |

**BS5837:2012 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><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 are 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> <i>Note: Category U trees can have existing or potential conservation value which it might be desirable to preserve; see BS5837:2012 paragraph 4.5.7.</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                       | Red                    |
|                                                                                                                                                                                                                                          | 1. Mainly arboricultural qualities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2. Mainly landscape qualities                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3. Mainly cultural values, including conservation                                                                                     |                        |
| Trees to be considered for retention                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                       |                        |
| <b>Category A</b><br><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) | Green                  |
| <b>Category B</b><br><br>Those of moderate quality and value: those in such a condition as to make a significant contribution. A minimum of 20 years is suggested.                                                                       | Trees that might be included in the high category, but are downgraded because of impaired condition. Examples include the presence of remediable defects including unsympathetic past management and minor storm damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Trees present in numbers, usually as groups or woodlands, so they form distinct landscape features which attract a higher collective rating than they might as individuals. But which are not, individually, essential components of formal or semi-formal arboricultural features. For example, trees of moderate quality within an avenue that includes better, A category specimens. Or trees which are internal to the site, therefore individually having little visual impact on the wider locality | Trees with clearly identifiable conservation or other cultural benefits                                                               | Blue                   |
| <b>Category C</b><br><br>Those trees of low quality and value: currently in adequate condition to remain until new planting could be established - a minimum of 10 years is suggested - or young trees with a stem diameter below 150 mm | Trees not qualifying in higher categories                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit                                                                                                                                                                                                                                                                                                                            | Trees with very limited conservation or other cultural benefits                                                                       | Grey                   |
|                                                                                                                                                                                                                                          | Note – Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150mm should be considered for relocation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                       |                        |

## **- TEMPORARY PROTECTIVE FENCING & GROUND PROTECTION SPECIFICATION -**

**Construction Exclusion Zones (CEZs)**, shall be enclosed by **Temporary Protective Fencing** and/or, where necessary, **Temporary Ground Protection Measures**. The fencing/ground protection Type(s), locations, and extents shall be agreed, in writing, with the Local Planning Authority (LPA). In turn, the **Temporary Protective Fencing** and/or **Temporary Ground Protection Measures** shall:

1. be constructed as in accordance with the Type 1, Type 2 or Type 3 'Temporary Protective Fencing Construction' sections and, where applicable the 'Temporary Ground Protection Measures' section, as detailed herein and agreed, in advance with the LPA;
2. be retained in place throughout the development process until completion of the project, and only removed following receipt of written permission from the LPA;
3. be sited in the area(s) defined by the Root Protection Areas on the associated Tree Impact Plan, or as the CEZs on the Tree Protection Plan;
4. be erected prior to any construction, demolition or excavation works and remain in place for the duration of the project;
5. preclude any delivery of site accommodation and/or materials and/or plant machinery;
6. preclude all construction related activity, with the sole exception of specified arboricultural works and any other works to be carried out under supervision that have been agreed by all parties;
7. preclude the storage of all development related materials and substances including fuels, oils, additives, cement and/or any other deleterious substance; and
8. be affixed with a 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1, below), at every 10.0 metre length of protective fencing.
9. Important: Any incursion into CEZs must be by prior arrangement, following consultation with the LPA.

Figure 1: CEZ Warning Sign

**- TREE PROTECTION AREA –  
KEEP OUT!**

**(TOWN & COUNTRY PLANNING ACT 1990)**

**THE TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING  
CONDITIONS AND/OR SUBJECTS OF A 'TREE PRESERVATION ORDER',  
THE CONTRAVENTION OF WHICH MAY LEAD TO CRIMINAL  
PROSECUTION**

THE FOLLOWING MUST BE OBSERVED BY ALL PERSONNEL:

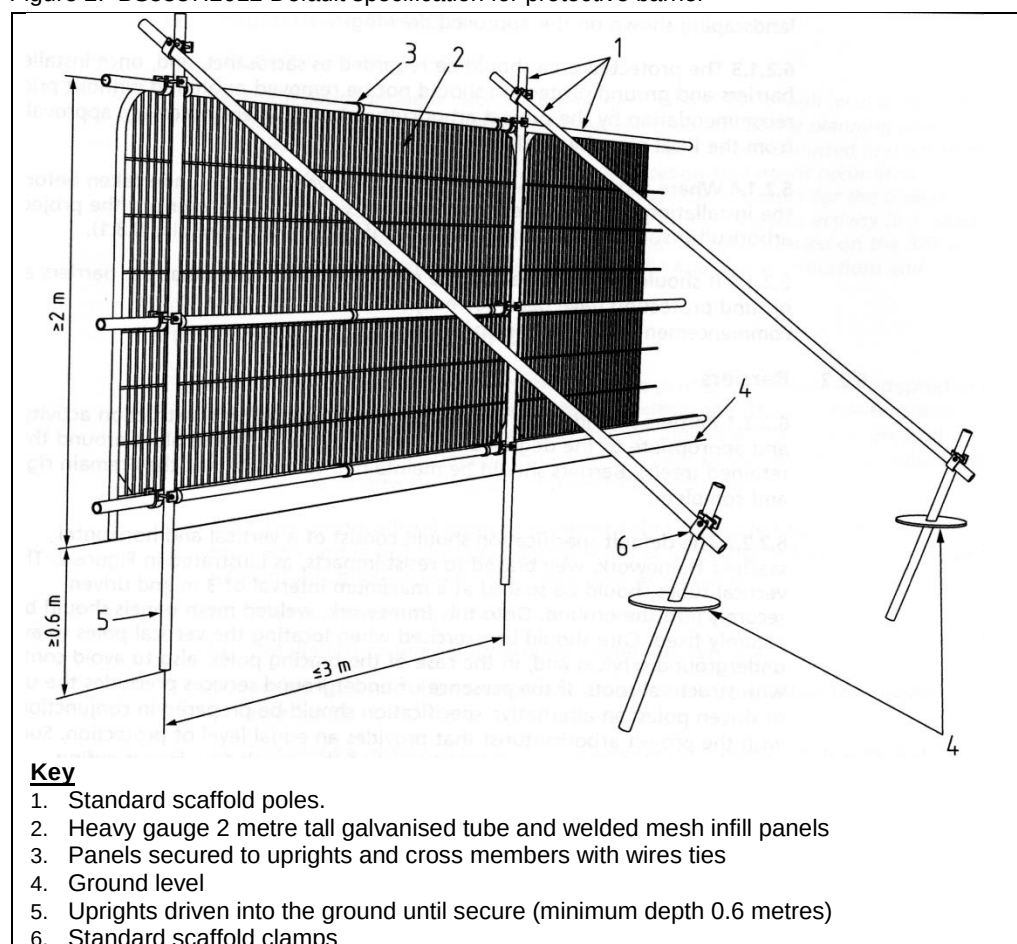
- THE PROTECTIVE FENCING MUST NOT BE MOVED
- NO PERSON SHALL ENTER THE CONSTRUCTION EXCLUSION ZONE
- NO MACHINE, PLANT OR VEHICLES SHALL ENTER THE EXCLUSION ZONE
- NO MATERIALS SHALL BE STORED IN THE EXCLUSION ZONE
- NO SPOIL SHALL BE DEPOSITED IN THE EXCLUSION ZONE
- NO EXCAVATION SHALL OCCUR IN THE EXCLUSION ZONE
- NO FIRES SHALL BE LIT IN THE EXCLUSION ZONE

**ANY INCURSION INTO THE EXCLUSION ZONE MUST BE WITH THE  
WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY**

**Type 1 (i.e. 'Default') Temporary Protective Fencing Construction** (see Figure 2, below)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall butt together and be securely fixed to a scaffold framework, as per points 3 to 5 of Figure 2, overleaf.
3. The scaffold framework shall comprise of upright poles of at least 3.0 metres in length driven no less than 0.6 metres into the ground at maximum 3.0 metre centres with horizontal and diagonal poles fixed to the uprights, as per points 4 to 5.
4. The two horizontal rail poles shall be attached to the uprights at heights of 0.6 and 1.8 metres with 3 no. clamps to each joint.
5. The diagonal scaffold pole struts be clamped to the top rail of the scaffold framework at a 45° angle and extend back into the CEZ and clamped to a 0.7 metre length of scaffold tube that shall be driven no less than 0.5m into the ground.
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

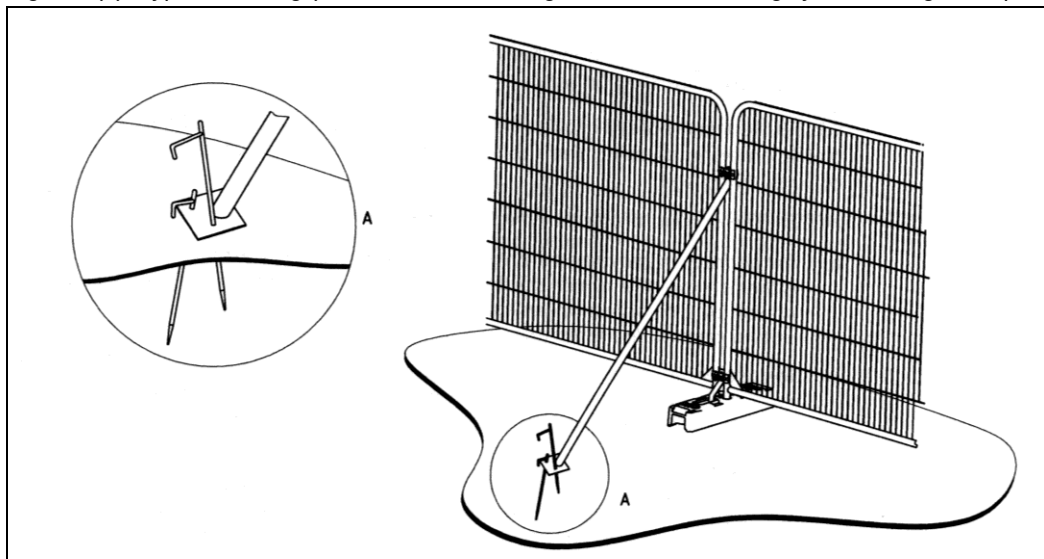
Figure 2: BS5837:2012 Default specification for protective barrier



### **Type 2 Temporary Protective Fencing Construction** (see Figure 3(a), below)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall stand on rubber or concrete feet.
3. The panels shall butt together, and be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence.
4. The distance between the fence couplers shall be at least 1.0 metre, and shall be uniform throughout the fence.
5. The panels shall be supported on the inner side by stabiliser struts, which shall be clamped to the scaffold framework at a 45° angle and extend back into the CEZ and shall be attached to a base plate, which shall be secured to the ground with pins (Figure 3a).
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

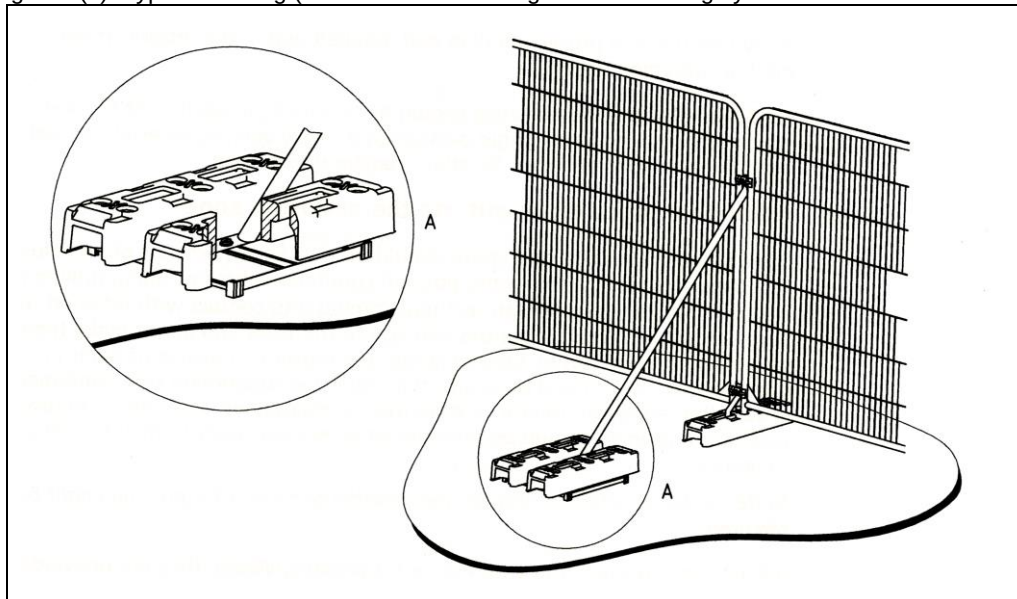
Figure 3(a): Type 2 Fencing (BS5837:2012 above-ground strut stabilising system with ground pins)



### **Type 3 Temporary Protective Fencing Construction** (see Figure 3(b), overleaf)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall stand on rubber or concrete feet.
3. The panels shall butt together, and be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence.
4. The distance between the fence couplers shall be at least 1.0 metre, and shall be uniform throughout the fence.
5. The panels shall be supported on the inner side by stabiliser struts, which shall be clamped to the scaffold framework at a 45° angle and extend back into the CEZ and shall be attached to a block tray base (Figure 3b).
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

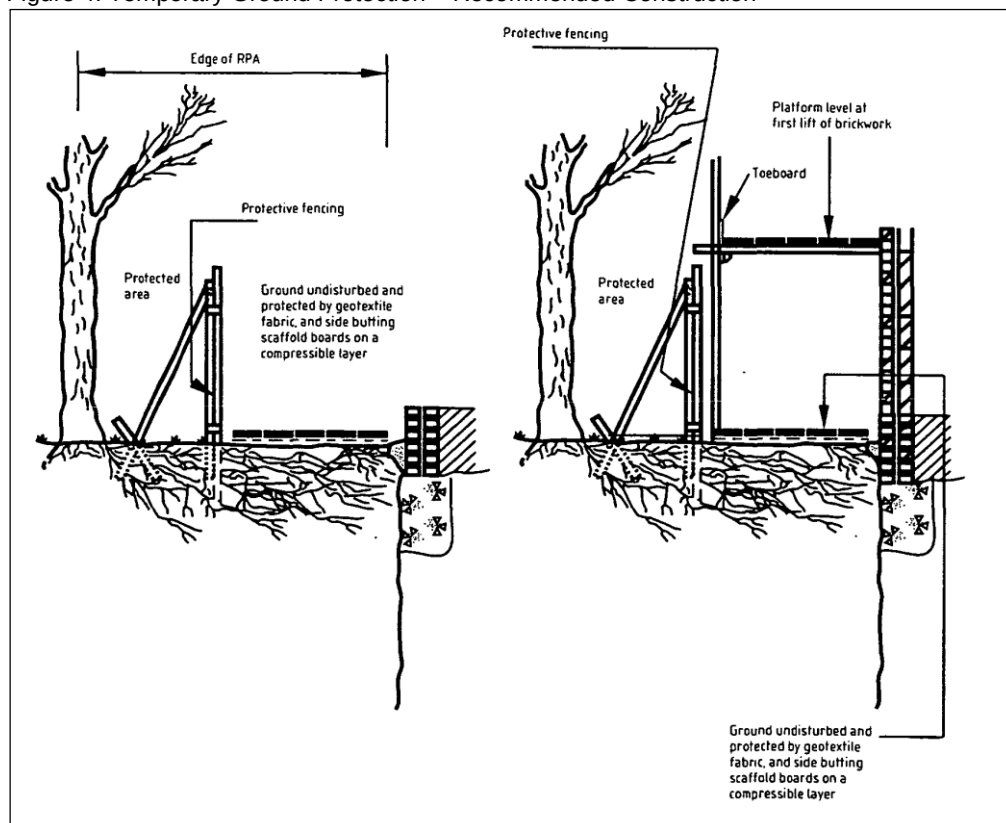
Figure 3(b): Type 3 Fencing (BS5837:2012 above-ground stabilising system with strut on block tray)

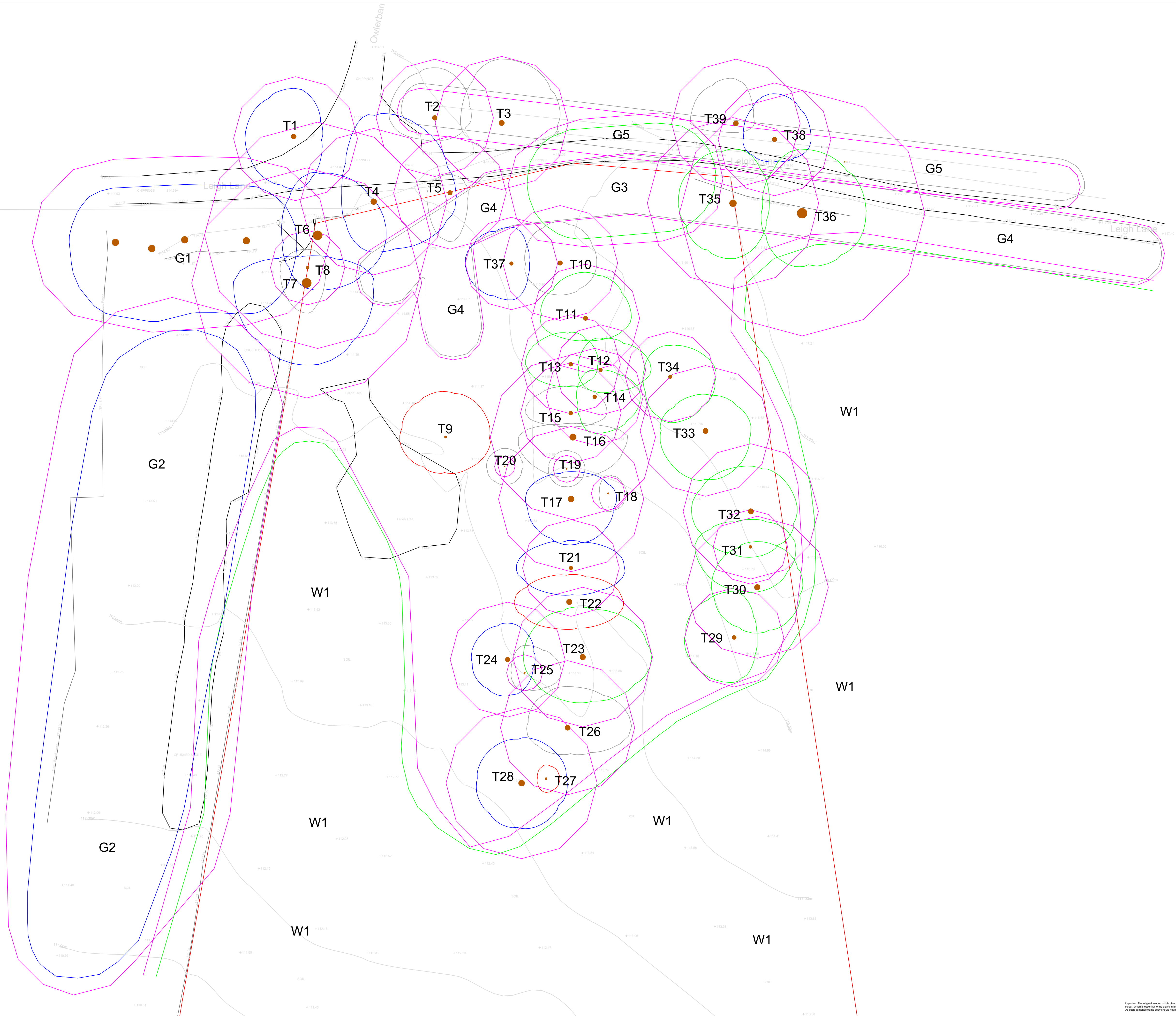
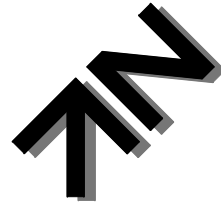


### Temporary Ground Protection

1. Any necessary Temporary Ground Protection areas shall conform to Figure 4, below, unless otherwise agreed with the LPA.
2. The Ground Protection Area shall be left undisturbed and covered by a semi-permeable geotextile membrane which shall, in turn, be covered by a compressible layer consisting of a material such as woodchip.
3. Side-butting scaffold boards shall then be fitted to cover the Ground Protection Area.
4. On completion of installation, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Ground Protection.
5. The Temporary Ground Protection shall remain in place until completion of the project and only removed following receipt of written permission from the LPA.

Figure 4: Temporary Ground Protection – Recommended Construction





**KEY**

T = Individual Tree

G = Group of Trees

W = Woodland

Those to be Considered for Retention:

Category X Tree/Group/Woodland

Those of a High Quality with an Estimated Remaining Life Expectancy of at Least 40 Years

Category W Tree/Group/Woodland

Those of a Moderate Quality with an Estimated Remaining Life Expectancy of at Least 20 Years

Category C Tree/Group/Woodland

Those of Low Quality with an Estimated Remaining Life Expectancy of at Least 10 Years, or Young Trees

Those Considered Unsuitable for Retention:

Category U Tree/Group/Woodland

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

Note:

The plan location of the surveyed trees T1, T6, T8, T9, T18-23, T25, T26, T37 and the full extents of groups G1-5 and woodland W1 were not plotted on the topographical survey based site plan provided, and their locations were subsequently plotted by the arboricultural surveyor using GPS data and estimation of the time of the survey. As such, the plotted location of the tree cannot be taken to be wholly accurate

Root Protection Areas (RPAs):

RPA:

Areas of Ground Around Trees that Should be Protected Throughout Development Works with Protective Fencing to form a Construction Exclusion Zone - see Appended Temporary Protective Fencing Specification

**Project:**  
LEIGH LANE  
BURY  
GREATER MANCHESTER  
BL8 2RH

**Agent for Client:**  
3D ECO

**Title:**  
TREE CONSTRAINTS PLAN  
In Relation to Proposed Construction of Development

**Scale:**  
1:200@A1

**Date:**  
August 2023

**Drawn by:**  
RG

**Checked by:**  
JL

**Bowland**  
Tree Consultancy Ltd

a middleton-roose company ltd  
1 87774 40740

Ref: BTC2771-TCP

Rev: