

## **Arboricultural Impact Assessment & Method Statement**

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### **Land at Pentlands, The Green Rossett, LL12 0DS**

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Prepared for:

**N CHATAKONDU**

Our Ref: 21/AIA/WXM/278

May 2021

**Tree Solutions Ltd**

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**Contents:**

|      |                                                         |
|------|---------------------------------------------------------|
| 1.0  | Instruction                                             |
| 2.0  | Statutory Controls & Planning Policy                    |
| 3.0  | The Site                                                |
| 4.0  | Development Proposal                                    |
| 5.0  | General Constraints Data – Construction Exclusion Zones |
| 6.0  | Survey Methodology                                      |
| 7.0  | Juxtaposition of Trees & Structures                     |
| 8.0  | Demolition/Development Impact to Trees                  |
| 9.0  | Proposed Revisions                                      |
| 10.0 | Conclusions                                             |
| 11.0 | Limiting Conditions                                     |

|            |                                           |
|------------|-------------------------------------------|
| Appendix 1 | Tree Survey Schedule                      |
| Appendix 2 | Preliminary Tree Constraints Plan         |
| Appendix 3 | Arboricultural Impact Plan                |
| Appendix 4 | Tree Protection Plan                      |
| Appendix 5 | Tree Protection Measures/Method Statement |

## 1.0 INSTRUCTION

- 1.1 We have been instructed by N Chatakundu to carry out an Arboricultural Impact Assessment (AIA) in order to assess the development proposal in relation to trees in accordance with the principles of British Standard 5837 'Trees in Relation to Design, Demolition & Construction - Recommendations' 2012.
- 1.2 We are instructed to prepare a report in order to provide information to assist all parties involved in the planning process to make balanced judgements regarding arboricultural features in relation to the proposed dwelling on land at Pentlands, The green, Rossett, LL12 0DS. As such, all significant trees within influencing distance to the development proposal both on and adjoining the site have been surveyed and are listed within a Tree Survey Schedule (**Appendix 1**) and plotted on all accompanying plans.
- 1.3 The stage 1 tree survey was carried out on 10/05/2021 by Alistair Henderson, Principal Consultant to Tree Solutions Ltd. Our appraisal of the mechanical integrity of trees on the site is enough to inform the current project. The assessment of trees is carried out from ground level without invasive investigation and the disclosure of hidden defects cannot therefore be expected. Whilst the survey is not specifically commissioned to report on matters of tree safety, we report obvious defects that are significant in relation to the existing and proposed land use. We do not carry out detailed safety inspections unless specifically instructed to do so in writing and have not carried out such inspections of trees on the proposal site.
- 1.4 Five individual trees (T1-T5) were surveyed and mapped on a Preliminary Tree Constraints Plan and Impact Assessment Plan Ref: 21/AIA/WXM/278 Drawing No. 1&2 at **Appendix 2/3**. All arboricultural information recorded during the survey is presented within a schedule at **Appendix 1**.
- 1.5 The Arboricultural Impact Assessment is based on site layout plan Ref: PR/PD/02 provided by HDS Architectural Services.

## 2.0 STATUTORY CONTROLS

- 2.1 We have been unable to ascertain if the tree is subject to a Tree Preservation Order or if the land falls within a designated Conservation Area. This can be confirmed via Wrexham Planning Department if necessary.

### 2.2 Protected Species

- 2.2.1 Mature trees often contain cavities, crevices and hollows that offer potential habitat for species such as bats and barn owls. Both are afforded protection under the Schedule 5 of the Wildlife and Countryside Act 1981 (as amended). Bats are also protected under The Conservation of Habitats and Species Regulations 2010 (as amended).

### 2.3 Wildlife Habitats

- 2.3.1 Trees and hedgerows of most species provide valuable nesting sites for a wide range of birds and it is likely that nesting birds will be present on the site during the period March to September.

## 3.0 THE SITE

- 3.1 The site is currently utilised as garden space to Pentlands. It contains a well-maintained lawn with boundary Leyland cypress hedgerow to the north & west. There are 3 small trees along the southern boundary and a large Sycamore beyond the northern boundary within the Coop car park. A public right of way runs to the north and west.

## 4.0 DEVELOPMENT PROPOSAL

- 4.1 1 No detached residential dwelling.

## 5.0 GENERAL CONSTRAINTS DATA - CONSTRUCTION EXCLUSION ZONES (CEZ's)

### 5.1 GENERAL

5.1.1 The three phases of an AIA were outlined in Section 1. In addition, during the development process for retention trees, there may be three and even four constraints to consider: Construction Exclusion Zone (CEZ's):

- CEZ 1: Root Protection Area (see 5.2)
- CEZ 2: Tree Crown Protection (see 5.3)
- CEZ 3: Tree Dominance (see 5.4)
- CEZ 4: New Tree Planting Zone (see 5.5)

CEZ's are explained below:

### 5.2 CEZ 1: ROOT PROTECTION AREA (RPA)

5.2.1 The RPA, calculated in m<sup>2</sup>, should be protected before and during any demolition/construction works. This ensures the effective retention of trees by safeguarding a reliable quantum of functioning tree roots. The RPA is based on a radial measure from the centre of the tree stem, which is calculated by multiplying the stem diameter by a factor of twelve or by the (mean stem diameter<sup>2</sup>) x number of stems for multi-stemmed trees. With the AIA 1, the RPA is only shown indicatively on the preliminary TCP, as its shape may be subject to amendment as the design progresses.

5.2.2 During the AIA 2, the derived radial measure is converted by the arboriculturalist into the actual area to be protected, having due regard to prevailing site conditions and how these may have affected the tree(s), particularly in relation to factors affecting their likely rooting disposition. The RPA for each tree should initially be plotted as a circle centred on the base of the stem. Where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area should be produced. Modifications to the shape of the RPA should reflect a soundly based arboricultural assessment of likely root distribution.

5.2.3 The means of protecting the RPA will include the installation of tree protective fencing prior to the start of any demolition or construction work on site. The prohibition of various activities within the RPA must be adhered to (e.g. mechanical excavation, soil stripping, fire lighting, material storage, lowering levels and creating excessive sealed surfacing) and may include the use of temporary ground protection and/or special engineering solutions where construction is proposed near to retention trees or within the RPA.

### 5.3 CEZ 2: TREE CROWN PROTECTION ZONE

5.3.1 This is the area above ground occupied by the crown (branches) of the tree, along with allowances for working space (safe working area) and if appropriate, for future growth. The extent of CEZ 2 is determined by considering the existing and future crown spread of the tree(s), bearing in mind the possibility of this being modified by an acceptable quantum of pruning.

### 5.4 CEZ 3: TREE DOMINANCE ZONE

5.4.1 The trees within the site are located along the southern boundary. They are small ≤12m and at a sufficient distance from the rear elevation and garden such that they will not cause any significant shading. The largest trees is located beyond the northern boundary and offers an attractive borrowed landscape feature from front facing rooms.

### 5.5 CEZ 4: NEW PLANTING ZONE

5.5.1 No new tree planting is proposed.

## 6.0 SURVEY METHODOLOGY

6.1 The method used in the preparation of this report is based on the principles of BS 5837: 2012.

1. Tree heights were surveyed to the nearest 1m.
2. Trunk diameters were measured by use of forestry girth tape
3. The category assessment (Table 1) on which the trees is based include current and long-term arboricultural, landscape, cultural and conservation values (BS5837: 2012). This table can be found at **Appendix 1**
4. For clarity, the grading system is summarised from **Table 2** of the BS as follows:

**U grade** – trees for removal, effective for less than 10 years

**A grade** – trees of high quality and value, effective for more than 40 years

**B grade** – trees of moderate quality and value, effective for more than 20 years

**C grade** – trees of low quality and value, effective for 10 years

*Note: We have indicated colour coding on the drawing and therefore a monochrome copy should not be relied on.*

## 6.2 SOIL ASSESSMENT

6.2.1 A soil assessment should be undertaken by a competent person to inform decisions relating to:

- the root protection area (RPA)
- tree protection
- new planting design; and
- foundation design to take account of retained, removed and new trees (potential soil subsidence/heave)

Tree Solutions do not undertake soil assessments and the client is advised to seek specialist advice in this respect.

## 7.0 JUXTAPOSITION OF TREES AND STRUCTURES

### 7.1 Below ground constraints

- 7.1.1 The below ground constraints are generally summarised as the root protection area (RPA). The shape of the RPA and its exact location will depend upon arboricultural considerations including likely tolerance of the tree to root disturbance; morphology and disposition of the roots when known influenced by past or existing site conditions; soil type and structure; and topography and drainage.
- 7.1.2 The purpose of the RPA is to prevent physical damage to tree roots and to prevent damage to the soil structure. Tree roots are damaged by soil compaction, changes in soil levels or soil contamination which could reduce tree health and/or stability.
- 7.1.3 Root patterns are affected by topography and characteristics of the soil or substrate. Where trees are located within proximity to existing hard standing or underground physical barriers, they are unlikely to have an even distribution of lateral roots due to restrictions in root growth created by compacted sub-grades beneath. The RPA of tree number 1 has been modified to run 1.5m within the road to its west and extend further within the site where a more favourable rooting environment exists.

### 7.2 Underground Services

- 7.2.1 All new underground services will link into the existing and are routed outside the RPA of all trees.

## 8.0 DEVELOPMENT IMPACT TO TREES

- 8.1 The proposed dwelling is located outside the designated RPA of all trees and at a sufficient distance to ensure good cohesion between the plot and trees so they can be retained as mature landscape features to future residents without raising concerns over light or over-dominance. There are no anticipated adverse impacts during construction as the trees will be adequately fenced off in accordance with recommendations contained in BS5837: 2012.



**P1 – T1-T3 located beyond the southern site boundary**



**P2 – T4 (Sycamore) located beyond the northern boundary within Coop car park**



P3 – T3 viewed from Coop car park

## 9.0 PROPOSED REVISIONS TO THE SCHEME

- 9.1 We advise that all proposed revisions having implications for trees should be referred to us for review.

## 10.0 CONCLUSIONS

- 10.1 BS 5837: 2012 contains clear and current recommendations for a best practice approach to the assessment, retention, and protection of trees on development sites. The proposed development has followed this guidance by:

- Seeking arboricultural advice and undertaking a phase 1 preliminary tree survey in order to inform the layout and design of the proposed development
- Respecting the constraints posed to development of the site by high or moderate quality trees
- Acting upon arboricultural advice throughout the design process in order to obtain the best development proposal whilst considering the current and future tree requirements
- This layout fully accords with the provisions of BS5837: 2012 and we can see no valid arboricultural grounds for refusal.

- 10.2 The protection of retained trees will be in accordance with recommendation contained within the BS and as detailed on the Tree Protection Plan at **Appendix 4**.

## 11.0 LIMITING CONDITIONS

Unless stated otherwise:

Information contained in this report covers only those trees that were examined and reflects the condition of those trees at the time of the inspection.

The inspection is limited to visual examination of the subject trees from ground level only and without dissection, excavation, probing or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the subject trees may not arise in the future.

This report has been prepared for the sole use and benefit of the client. Any liability of Tree Solutions shall not be extended to any third party.

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## **Appendix One**

### **Tree Survey Schedule**

# TREE SURVEY SCHEDULE (BS5837: 2012)

Tree Solutions

Arboricultural Consultants

|                |                                                          |
|----------------|----------------------------------------------------------|
| <b>SITE:</b>   | LAND AT PENTLANDS, THE GREEN, ROSSETT, WREXHAM, LL12 0DS |
| <b>CLIENT:</b> | N CHATAKONDU                                             |
| <b>BRIEF:</b>  | ARBORICULTURAL IMPACT ASSESSMENT & METHOD STATEMENT      |

|                            |                |
|----------------------------|----------------|
| <b>SURVEYOR:</b>           | A. HENDERSON   |
| <b>ASSESSMENT DATE:</b>    | 10/05/2021     |
| <b>VIEWING CONDITIONS:</b> | CLEAR          |
| <b>JOB REFERENCE:</b>      | 21/AIA/WXM/278 |

PAGE 1 OF 1

| TREE NO.<br><small>T - Tree<br/>G - Group<br/>H - Hedge</small> | SPECIES<br>(COMMON NAME) | AGE | HEIGHT (m) +<br>CROWN CLEARANCE/<br>DIRECTION OF GROWTH<br>(N.S.E.W) | RADIAL CROWN SPREAD (m) |     |     |     | STEM/<br>MULTI-STEM*<br>DIA. (mm) | VITALITY | COMMENTS                                                                                                                                                                                                                                     | MANAGEMENT                                                                             | CATEGORY & SUB-CATEGORY GRADING BS 5837 | BS 5837 RADIUS (m)<br><br>RPA (m²) |
|-----------------------------------------------------------------|--------------------------|-----|----------------------------------------------------------------------|-------------------------|-----|-----|-----|-----------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|
|                                                                 |                          |     |                                                                      | N                       | S   | E   | W   |                                   |          |                                                                                                                                                                                                                                              |                                                                                        |                                         |                                    |
| T1                                                              | Beech                    | SM  | 12                                                                   | 3.5                     | 2   | 3   | 2   | 300                               | M        | <ul style="list-style-type: none"> <li>Forms part of linear group along southern boundary</li> <li>Recent limb failure</li> <li>Insufficient space to develop to maturity due to proximity to adjacent dwelling</li> <li>E.R.C.10</li> </ul> | <ul style="list-style-type: none"> <li>No works at present</li> </ul>                  | C2                                      | 3.6<br><br>41m²                    |
| T2                                                              | Willow                   | SM  | 5                                                                    | 2                       | 2   | 2   | 1.5 | 210                               | G        | <ul style="list-style-type: none"> <li>Tree of no particular merit/value</li> <li>E.R.C.10</li> </ul>                                                                                                                                        | <ul style="list-style-type: none"> <li>No works at present</li> </ul>                  | C3                                      | 2.5<br><br>20m²                    |
| T3                                                              | Apple                    | M   | 5                                                                    | 1.5                     | 1.5 | 2   | 1   | 260                               | M        | <ul style="list-style-type: none"> <li>Ivy clad tree</li> <li>Top missing</li> <li>E.R.C.10</li> <li>.</li> </ul>                                                                                                                            | <ul style="list-style-type: none"> <li>No works</li> </ul>                             | C2                                      | 3<br><br>31m²                      |
| T4                                                              | Sycamore                 | EM  | 13<br><br>3S                                                         | 4.5                     | 4.5 | 4.5 | 4.5 | 520                               | G        | <ul style="list-style-type: none"> <li>Located off-site within car park of adjacent Coop store</li> <li>Appear in good health &amp; vigour</li> <li>E.R.C.20</li> </ul>                                                                      | <ul style="list-style-type: none"> <li>3<sup>rd</sup> party tree – no works</li> </ul> | B2                                      | 6.2<br><br>122m²                   |
| T5                                                              | Leyland Cypress          | EM  | 5<br><br>0                                                           | 2.5                     | 2   | 1.5 | 1.5 | 200                               | P        | <ul style="list-style-type: none"> <li>Low grade tree that has been topped out at 4m</li> <li>No value</li> <li>E.R.C.0</li> </ul>                                                                                                           | <ul style="list-style-type: none"> <li>Remove if required</li> </ul>                   | C3                                      | 2.4<br><br>18m²                    |

TREE NO.  
SPECIES:  
AGE RANGE/LIFE STAGE:  
HEIGHT:  
CROWN SPREAD:  
CROWN CLEARANCE & DIRECTION OF GROWTH:  
STEM DIA/MULTI-STEM DIA:  
VITALITY:  
E.R.C. = ESTIMATED REMAINING CONTRIBUTION:  
BS 5837 CATEGORY & SUB-CATEGORY GRADING:  
BS 5837 RADIUS & BS 5837 RPA:

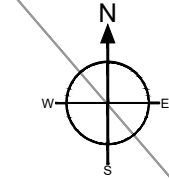
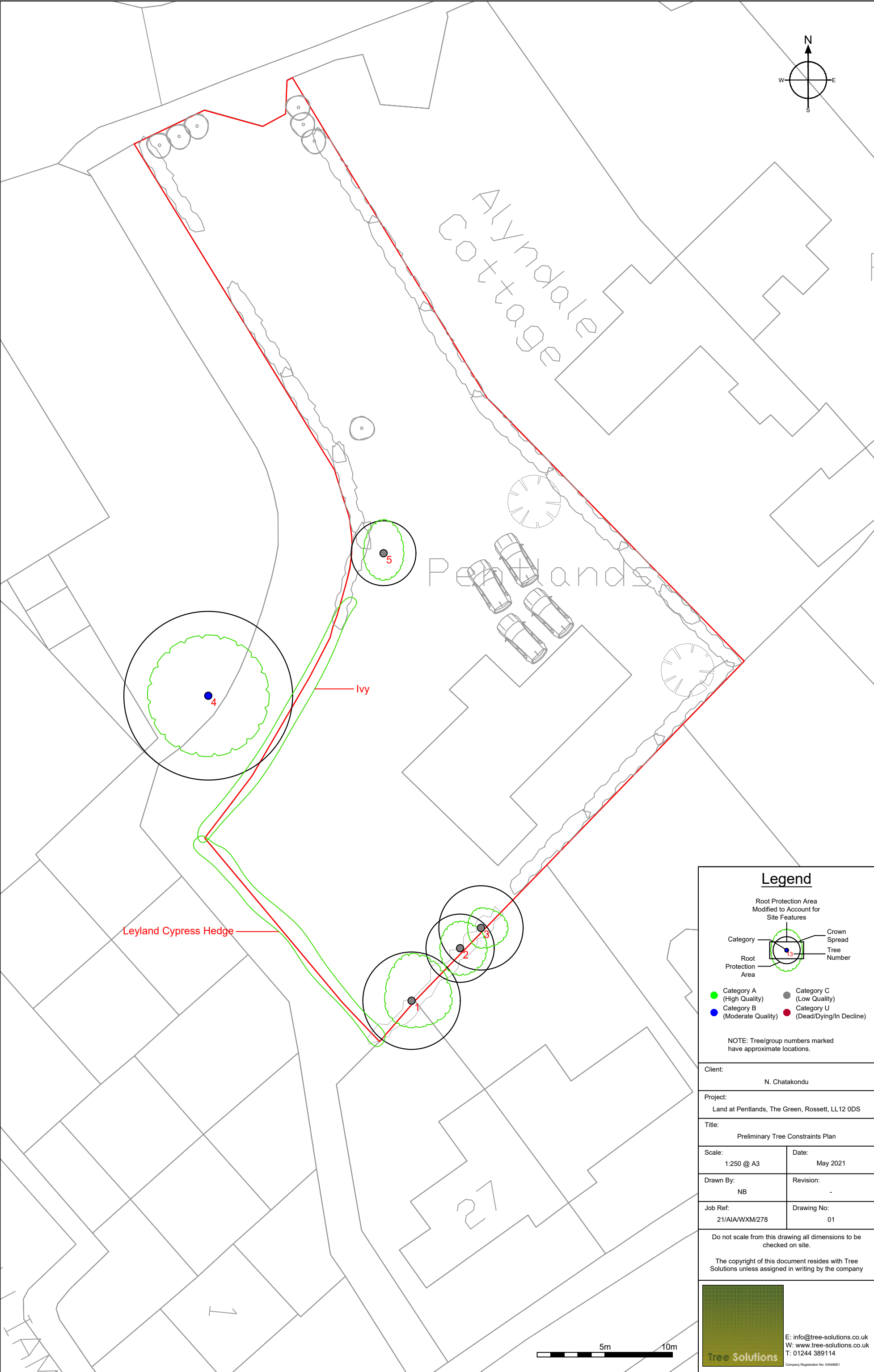
REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE (T = TREE, G = GROUP, H = HEDGE)  
COMMON NAME (LATIN NAMES AVAILABLE ON REQUEST)  
Y = YOUNG, SM = SEMI MATURE, EM = EARLY MATURE, M = MATURE, PM = POST MATURE  
ESTIMATED AND RECORDED IN METRES. APPROXIMATELY 1 IN 10 TREES ARE MEASURED USING A CLINOMETER AND THE REMAINDER ESTIMATED AGAINST THE MEASURED TREES  
MAXIMUM CROWN RADIUS MEASURED TO THE FOUR CARDINAL COMPASS POINTS FOR SINGLE SPECIMENS ONLY (MEASUREMENT FOR TREE GROUPS - MAXIMUM RADIUS OF THE GROUP)  
HEIGHT IN METERS OF CROWN CLEARANCE ABOVE ADJACENT GROUND LEVEL (TO INFORM ON GROUND CLEARANCE, CROWN/STEM RATIO AND SHADING)  
STEM DIAMETER - MEASURED AT APPROXIMATELY 1.5 METRES ABOVE GROUND LEVEL OR A COMBINATION OF STEMS FOR MULTI-STEMMED TREES  
A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD  
RELATIVE USEFUL LIFE EXPECTANCY (YEARS)  
A = HIGH QUALITY AND VALUE, B = MODERATE QUALITY AND VALUE, C = LOW QUALITY AND VALUE, U = UNSUITABLE FOR RETENTION (SUB-CATEGORY REFERS TO ARBORICULTURAL, LANDSCAPE AND CULTURAL/CONSERVATION VALUES)  
PROTECTIVE DISTANCE - RADIUS FROM THE CENTRE OF THE STEM TO THE LINE OF TREE PROTECTION (CONSTRUCTION EXCLUSION ZONE - CEZ) AND PROTECTIVE BARRIER ROOT PROTECTION AREA - BS 5837 (2012) ANNEX D (THE RECOMMENDATIONS STATE THAT THE RPA SHOULD BE CAPPED AT 707 M²) NOTE – ALL CALCULATIONS ROUNDED TO NEAREST DECIMAL

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 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> <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p> |                                                                                                                                                                                                                                                                   |                                                                                                                                       | See Table 2            |
|                                                                                                                                                                           | 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><b>Trees of high quality</b> 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) | See Table 2            |
| <b>Category B</b><br><b>Trees of moderate quality</b> 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 though remediable 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 a 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                                                                              | See Table 2            |
| <b>Category C</b><br><b>Trees of low quality</b> 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                                                                           | See Table 2            |

## **Appendix Two**

### **Preliminary Tree Constraints Plan**



### Legend

Root Protection Area  
Modified to Account for  
Site Features

Category

Root Protection Area

Crown Spread

Tree Number

Category A  
(High Quality)

Category B  
(Moderate Quality)

Category C  
(Low Quality)

Category U  
(Dead/Dying/In Decline)

NOTE: Tree/group numbers marked  
have approximate locations.

|                                                             |                   |
|-------------------------------------------------------------|-------------------|
| Client:<br>N. Chatakondur                                   |                   |
| Project:<br>Land at Pentlands, The Green, Rossett, LL12 0DS |                   |
| Title:<br>Preliminary Tree Constraints Plan                 |                   |
| Scale:<br>1:250 @ A3                                        | Date:<br>May 2021 |
| Drawn By:<br>NB                                             | Revision:<br>-    |
| Job Ref:<br>21/AIA/WXM/278                                  | Drawing No:<br>01 |

Do not scale from this drawing all dimensions to be checked on site.

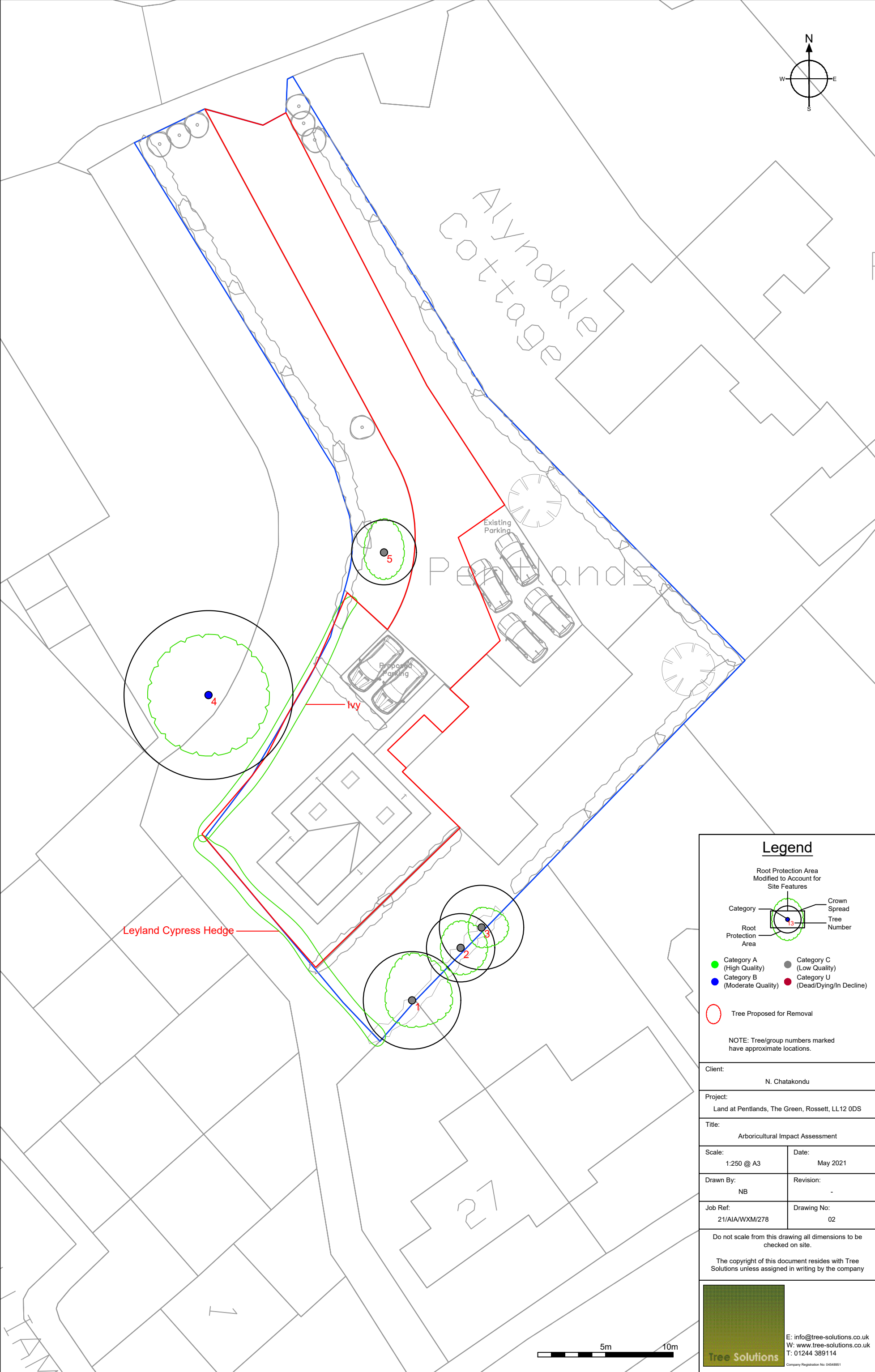
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## **Appendix Three**

### **Impact Assessment Plan**



**Legend**

Root Protection Area  
Modified to Account for  
Site Features

Category

Crown Spread

Tree Number

Root Protection Area

Category A  
(High Quality)

Category B  
(Moderate Quality)

Category C  
(Low Quality)

Category U  
(Dead/Dying/In Decline)

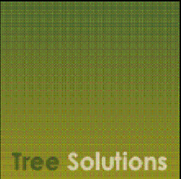
Tree Proposed for Removal

NOTE: Tree/group numbers marked  
have approximate locations.

|                                                             |                   |
|-------------------------------------------------------------|-------------------|
| Client:<br>N. Chatakondur                                   |                   |
| Project:<br>Land at Pentlands, The Green, Rossett, LL12 0DS |                   |
| Title:<br>Arboricultural Impact Assessment                  |                   |
| Scale:<br>1:250 @ A3                                        | Date:<br>May 2021 |
| Drawn By:<br>NB                                             | Revision:<br>-    |
| Job Ref:<br>21/AIA/WXM/278                                  | Drawing No:<br>02 |

Do not scale from this drawing all dimensions to be checked on site.

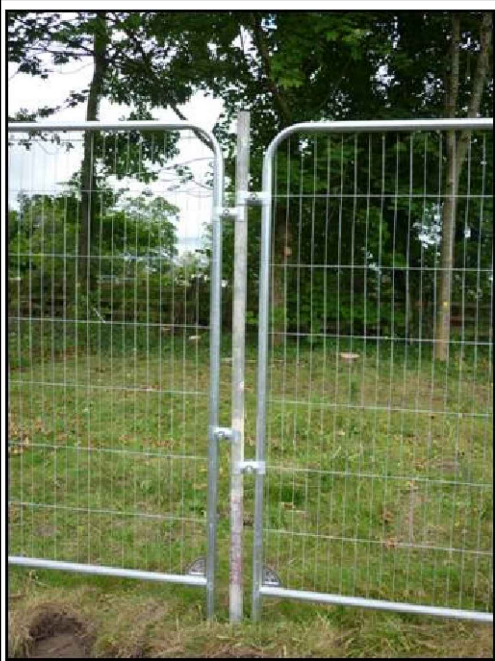
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## **Appendix Four**

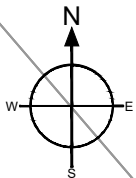
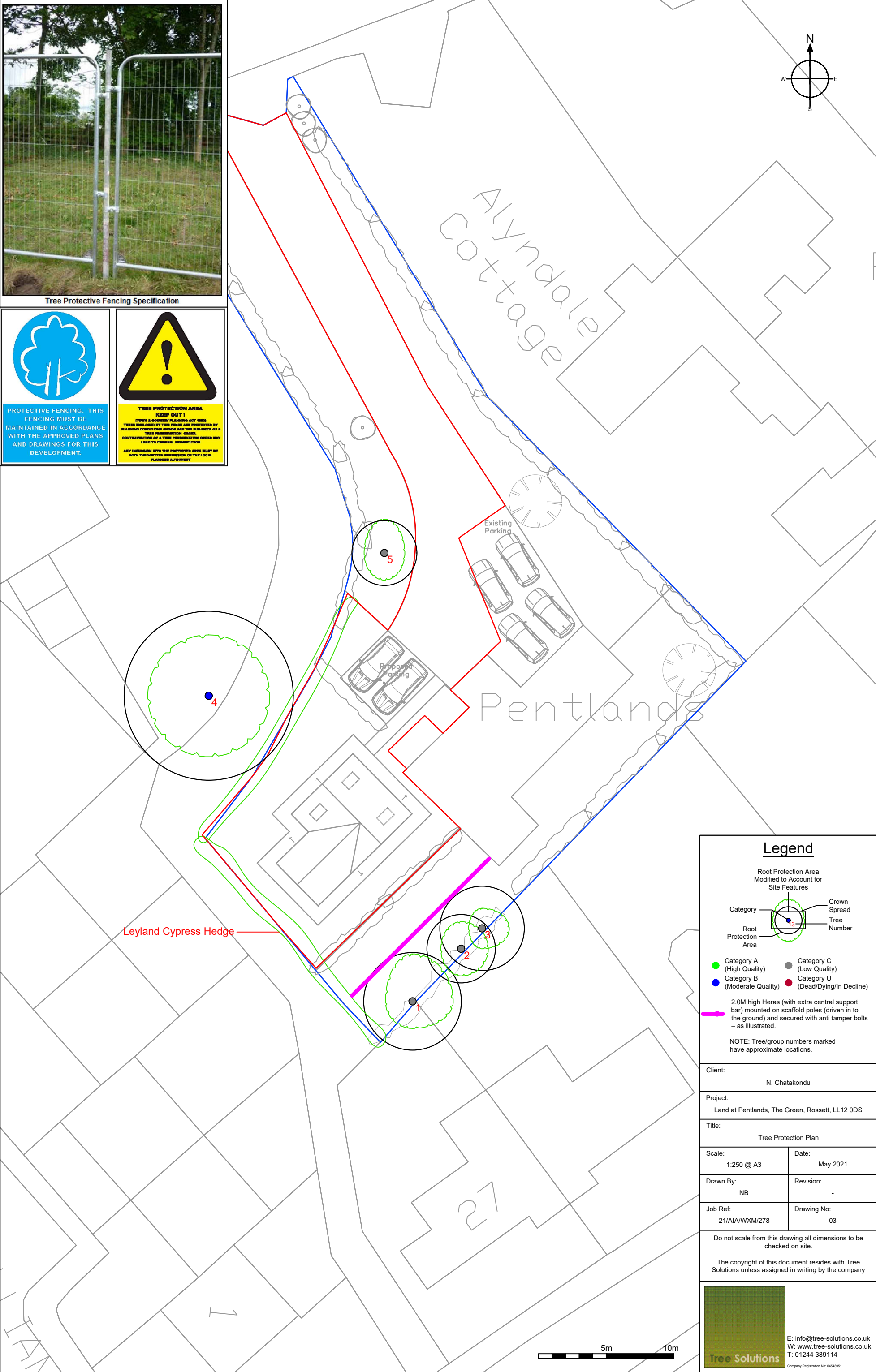
### **Tree Protection Plan**



Tree Protective Fencing Specification

PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.

**TREE PROTECTION AREA**  
**KEEP OUT !**  
(TOWN & COUNTRY PLANNING ACT 1990)  
TREES INCLUDED BY THIS NOTICE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A TREE PRESERVATION ORDER.  
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION.  
ANY BREACHES OF THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.



### Legend

Root Protection Area Modified to Account for Site Features

Category A (High Quality)

Category B (Moderate Quality)

Category C (Low Quality)

Category U (Dead/Dying/In Decline)

Crown Spread

Tree Number

Root Protection Area

2.0M high Heras (with extra central support bar) mounted on scaffold poles (driven in to the ground) and secured with anti tamper bolts – as illustrated.

NOTE: Tree/group numbers marked have approximate locations.

Client:

N. Chatakundu

Project:

Land at Pentlands, The Green, Rossett, LL12 0DS

Title:

Tree Protection Plan

Scale:

1:250 @ A3

Date:

May 2021

Drawn By:

NB

Revision:

-

Job Ref:

21/AIA/WXM/278

Drawing No:

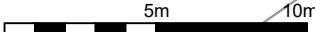
03

Do not scale from this drawing all dimensions to be checked on site.

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Company Registration No: 04548951



**Appendix Five**

**Tree Protective Measures/Method Statement**

## SEQUENCE OF OPERATIONS

From commencement of the above development, the following methodology shall be implemented in the manner and sequence described:

1. Erect temporary protective fencing
2. Main construction phase
3. Removal of temporary fencing
4. Landscaping within RPA's

### 1. Erect Temporary Tree Protective Fencing

1. Prior to commencement of any construction, preparation, excavation, or material deliveries the main contractor shall erect the temporary protective fencing as detailed in the 'Tree Protection Specification' and in the location indicated on the Tree Protection Plan.

### 2. Main Construction Phase

1. There shall be no storage of construction material, site parking, site accommodation or equipment in any area designated as the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing
2. No materials that are likely to have an adverse effect on tree health such as oil, bitumen or cement will be stored or discharged within 10 metres of the trunk of a tree that is to be retained. No fires will be lit
3. The site agent shall supervise deliveries by self-loading crane, with vehicles positioned in such a manner that retained trees are not at risk of damage

#### Cement Mixing

- The cement mixer will be laid on top of plywood boards in a position outside the RPA of any trees. The mixer will be kept in this position throughout all development work.

#### Avoiding Damage to Stems and Branches

- Care shall be taken when planning site operations in proximity to trees to ensure that wide or tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact can result in serious injury resulting in safe retention impossible

#### On Site Storage of Spoil and Building Materials

- Prior to and during all site construction works no spoil will be stored and no cement mixing will take place within the Root Protection Area of any tree on or adjacent to the site even if proposed site work is to be within the crown spread. Any encroachment within this protected area will only be with the prior agreement of the LPA Arboricultural Officer

### 3. Remove all Temporary Tree Protective Fencing

1. Tree Protective fencing will only be removed upon completion of all construction work and once all machinery associated with the works has left site.

### 4. Landscaping within RPA of Trees

1. There shall be **no rotovating** of ground within any area designated as a Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing.
2. No hard-landscaping works or excavation for cables or any other service should be installed within the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) without the written consent of the LPA
2. Any proposed work within any designated RPA will be overseen by contract Arboricultural Consultant with photographic records taken and signed inspection report emailed direct to the LPA for approval

## TREE PROTECTIVE FENCING

- 1 Before the commencement of any demolition and subsequent construction works on site (other than those set out in the schedule of tree works contained in this document), protective fencing will be erected as detailed on the Tree Protection Plan and as specified below. The LPA Tree Officer will be given 5 days' notice upon completion of the fencing in order to inspect and approve prior to the commencement of any site works.
- 2 The fencing will consist of a scaffold framework in accordance with Figure 2 of BS 5837 – 2012 (illustration below) comprising a metal framework, both vertical and horizontal, well braced to resist impacts. Vertical tubes will be spaced at a maximum interval of 3m. Onto this, weldmesh panels shall be securely fixed with wire or scaffold clamps. Weldmesh panels on rubber or concrete feet are not considered resistant to impact and for this reason will not be used. The site manager or other suitably qualified appointed person will be responsible for inspecting the protective fencing daily; any damage to the fencing or breaches of the fenced area will be rectified immediately.
- 3 Clearly legible weatherproof signage, stating "Protected Trees – Exclusion Zone" shall be attached to the fencing 1.5m from the ground, facing out of the Tree Protection Zone located at regular intervals along the fence line
- 4 The fencing will remain in place until completion of all site works and then only removed when all site traffic is removed from site
- 5 Other than works detailed within this method statement or approved in writing by the Local Planning Authority (LPA), no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.

### Protective Fencing Detail

#### 1. **Magenta**

2.0M high heavy-duty Heras panels (with extra central support bar) mounted on scaffold poles (driven into the ground) and secured with anti-tamper bolts – as illustrated below.



**Tree Protective Fencing Specification**

### Useful Contacts

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