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## ENVIRONMENT

Barwell Capitol  
Barwell East

Hinckley Road, Barwell

Arboricultural Method Statement and  
Tree Protection Plan

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Barwell East

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### Arboricultural Method Statement and Tree Protection Plan

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Appendix 2: Tree Protection Plan  
Appendix 3: Tree Survey Schedule  
Appendix 4: Classification Descriptions

## 1. INTRODUCTION

### Introduction and Background

- 1.1 This report contains an Arboricultural Method Statement and Tree Protection Plan in support of a planning application for development on land at Crab Tree Farm, Hinckley Road, Barwell, Leicestershire (hereafter referred to as 'the Site').
- 1.2 This report has been produced to support an application for the residential development of the site which will include the erection of upto 51 dwellings, access, provision of open space within the eastern parcel of land.
- 1.3 The proposed development plan is shown in the Tree Protection Plan (TPP) at **Appendix 2**.
- 1.4 A tree survey of the site in accordance with BS5837:2012 was carried out on 16<sup>th</sup> September 2020 with the results outlined in Tree Constraints Plan (TCP) at **Appendix 1** and the Tree Survey Schedule at **Appendix 3**.

### Objectives

- 1.5 The objectives of the report are to provide guidance and information required to protect the retained trees on site. The method statement has been produced in accordance with BS 5837:2012.
- 1.6 A copy of this method statement must be made available to all contractors on site during the development stage to ensure all parties comply with protection measures outlined within.
- 1.7 This method statement has been produced specifically for this site and therefore cannot be used for any other site.

### Trees Within the Site

- 1.8 Trees included within this survey comprised of 26 individual trees and 29 tree groups, details of which can be found within the Tree Survey Schedule at **Appendix 3** and the Tree Constraints Plan (TCP) at **Appendix 1**.
  - Two individual trees were classified as BS5837:2012 Category A,
  - Ten individual trees were classified as BS5837:2012 Category B,
  - Nine tree groups were classified as BS5837:2012 Category B,
  - 12 individual trees were classified as BS5837:2012 Category C,
  - 19 tree groups were classified as BS5837:2012 Category C,
  - Two individual trees and one tree group were classified as BS5837:2012 Category U.

## 2. ARBORICULTURAL METHOD STATEMENT

### Introduction

- 2.1 The following Method Statement will outline the procedures and requirements needed to protect the retained trees on site and complete the development without detrimental effect on retained trees.

### Sequence of Events

- 2.2 For the purposes of protection for the retained trees, the development works on site should be completed in line with the following sequence of events;

- Pre-Commencement site meeting
- Pre-commencement tree works
- Installation of tree protection
- Construction phase
- Landscaping phase
- Removal of tree protection

### Pre Commencement Site Meeting

- 2.3 A pre-commencement site meeting should take place prior to any works being started to finalise plans for the layout of tree protection.
- 2.4 The developers and the project arboriculturist should be in attendance. It may be a requirement for the LPA tree officer to attend and therefore notice of the meeting should be provided to the LPA.

### Pre Commencement Tree Works

- 2.5 Prior to any construction activities, proposed tree works will require completion.
- 2.6 The following trees and tree groups will require removal to facilitate the development (see also **TPP at Appendix 2**);
- 2.7 G3 and a small section of the eastern end of G29 will require removal to facilitate construction of the access road and entrance junction.
- 2.8 T1 and G1 will require removal to facilitate construction of the shared driveway to plots 1-4.
- 2.9 Trees within G2 along with T2 will require full removal to facilitate construction of plots 3, 4 and 5.
- 2.10 Part removal of G28 will be required to facilitate construction of plot 7.

- 2.11 Part removal of G15 will be required to facilitate construction of plot 8.
- 2.12 Part removal of G16 will require removal to facilitate construction of plot 14.
- 2.13 Trees within G4 will require full removal to facilitate construction of plot 51.
- 2.14 Trees within G14 and T17 and T18 will require full removal to facilitate construction of plots 23, 26, 34, 35, 39, 40, 41 and 42 and the public open space area.
- 2.15 T13 and T14 will require removal to facilitate the construction of the shared driveway for plots 23, 24 and 25.
- 2.16 T9 and sections of G5 and G6 will require removal to facilitate construction of the access road to plots 44 to 46.
- 2.17 Lateral reductions of the eastern crowns of trees and vegetation within G16 will be required to create a managed boundary along the rear of garden areas for plots 15 to 17.
- 2.18 Lateral reductions of the western crowns of trees and vegetation within G5 and G6 will be required to create a managed boundary along the edge of parking areas and the garden area of plot 36.
- 2.19 T12, T16 and trees within G8 are all in poor condition and are Category U trees. All will require removal prior to construction works.
- 2.20 Removal of stumps in close proximity to retained trees must be removed through grinding operations only. Mechanical excavation of these stumps must not occur to prevent damage to roots of retained trees which share the same soil volume.
- 2.21 Should additional tree works be identified as being required during construction activities, the project arboriculturist and LPA must be notified in writing and this method statement must be amended to cover any additional works.
- 2.22 **Under no circumstances must construction workers carry out pruning to retained trees.**
- 2.23 All tree works must be completed in accordance with BS3998:2010 Tree Work Recommendations and be completed by appropriately qualified, experienced and insured arboricultural contractors.

### **Root Protection Areas (RPA)**

- 2.24 Based on the tree survey data (**Appendix 3**), root protection areas (RPAs) have been determined for trees on site.

- 2.25 A topographical survey was undertaken to detail the location of trees within the site. The location of individual trees is shown in **Appendix 1 & 2**; it should be noted however that topographical surveys are not always comprehensive and it is recommended that the root protection zones and therefore the location of the Protective Fencing is measured on site during installation (using collected data for RPAs and canopy spreads). Any deviation from the location of the proposed Protective Fencing should be confirmed with the project arboriculturist and tree officer at the Local Planning Authority.
- 2.26 The RPA is designed to protect, at least, a functional minimum of tree root mass in order to ensure that the trees survive the construction process.
- 2.27 It is the responsibility of everyone engaged in the construction process to respect the tree protection measures and observe the necessary precautions within and adjacent to them.

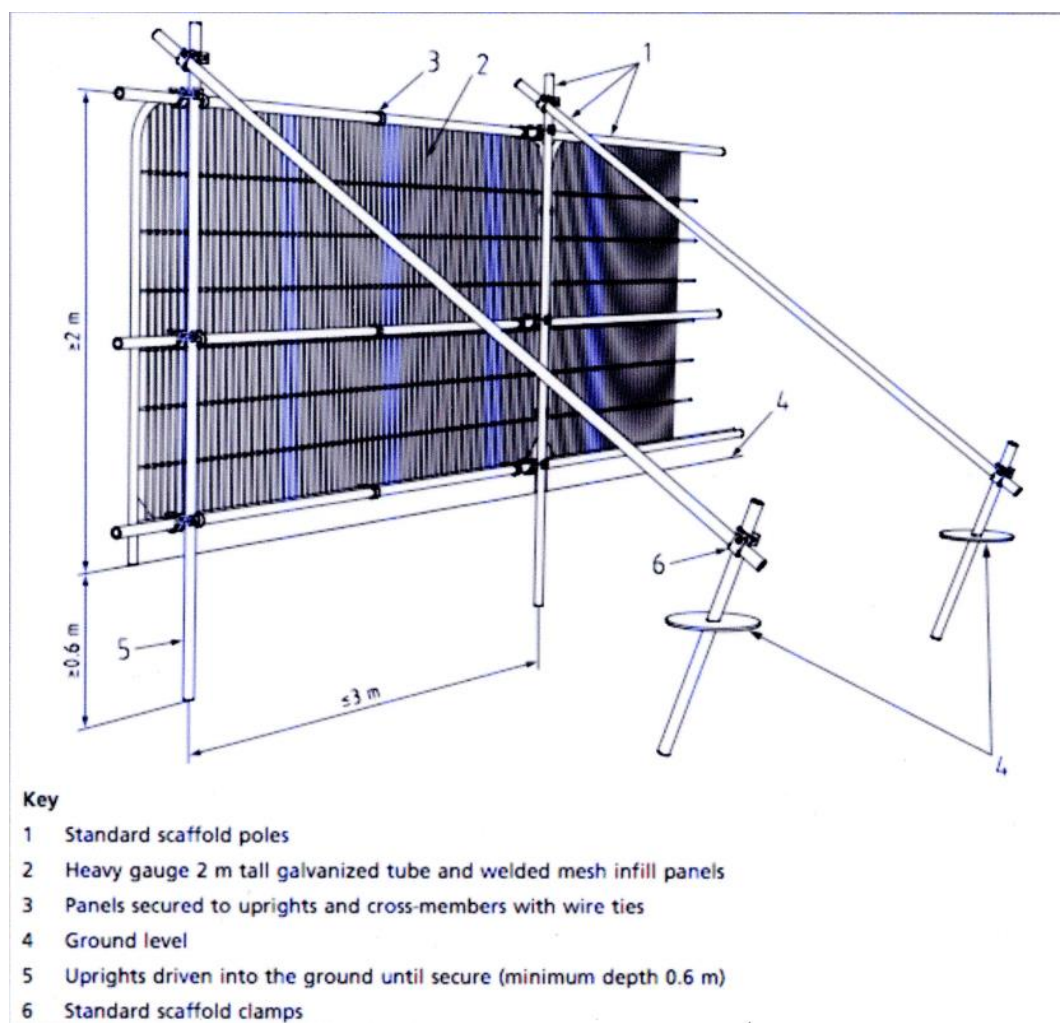
### **Tree Protection Fencing**

#### Standard Fencing

- 2.28 The Tree Protection Plan (TPP), shown in **Appendix 2**, details the position of the Tree Protection Fencing (TPF). This fencing will comprise of the type detailed below in **Figures 1 and 2**. TPF must be erected before any materials or machinery are brought onto site and before any development or stripping of soil commences.
- 2.29 Once erected, TPF will be regarded as sacrosanct, and will not be removed or altered without prior agreement of an arboriculturist and approval of the local planning authority.
- 2.30 Barriers should be fit for the purpose of excluding constructive activity, and appropriate to the degree and proximity of work taking place around the retained trees. Special attention should be paid to ensuring that barriers remain rigid and complete. Once the barrier fencing has been installed, construction work can commence. All-weather notices should be erected on the barrier with words such as: "Construction Exclusion Zone – Keep Out".
- 2.31 The default TPF specification (**Figure 1**) is a vertical and horizontal scaffold framework, braced to resist impacts. The vertical poles are driven securely into the ground with horizontal poles connected securely to the vertical sections. Bracing bars must then be securely attached to prevent movement of the structure if struck by machinery. Welded mesh panels are then securely attached to the scaffold framework. During installation it is important to consider the position of below ground services and structural roots, which must not be damaged. Where these constraints prevent the use of this specification, an alternative specification is provided in **Figure 2**.
- 2.32 Refer to **Figure 1** for the specification of the default Tree Protection Fencing.
- 2.33 It is the responsibility of everyone engaged in the construction process to respect the tree protection measures and observe the necessary precautions within and adjacent

to them. In the event of any panel or support becoming damaged, this must be immediately reinforced by adding panels with the designs below as appropriate.

- 2.34 Before any works take place within the site, full BS5837 fencing will be used to ensure the safeguard of the tree RPAs, until there is no risk from damage from the construction activity. To be effective the fencing must be robust and clearly signed.
- 2.35 **Figure 1.** Default Specification for Protective Barrier (Tree Protection Fencing – TPF) (Taken from Figure 2 of Section 6 BS5837:2012)

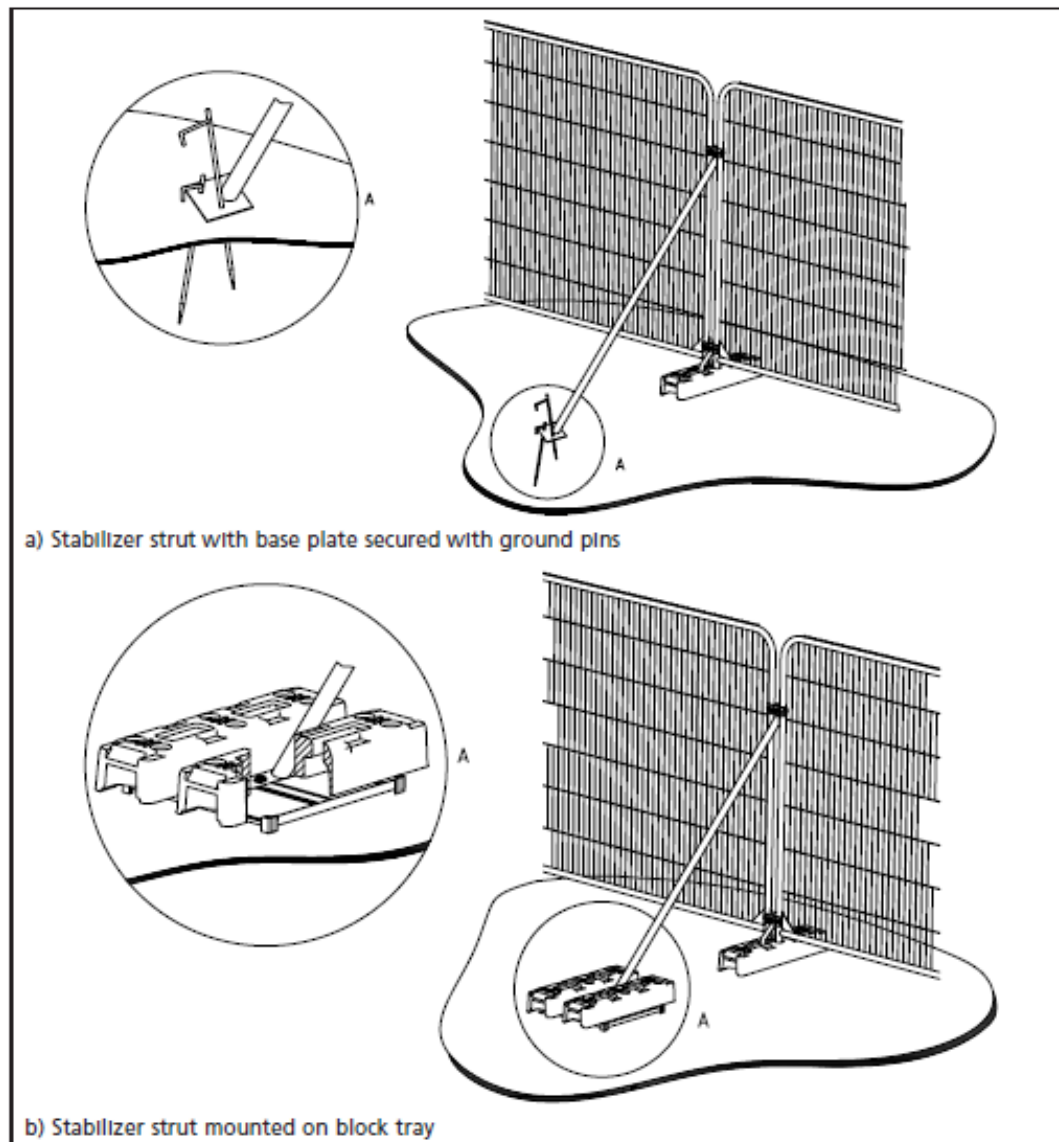


#### Alternative Fencing

- 2.36 An alternative Tree Protection Fencing (TPF) design is shown on **Figure 2.**
- 2.37 2 metre tall welded mesh panels standing in rubber or concrete feet joined using a minimum of two anti-tamper couplers installed so they can only be removed from inside the protected area. The fence couplers should be at spaced least 1 metre apart, but uniformly across the whole barrier. These panels must be supported within the protected area with struts attached to a base plate secured by ground pins as per Figure 2.

- 2.38 Where the fencing is installed above retained hard surfacing and / or it is otherwise not feasible to use ground pins (e.g. due to underlying services or structural roots), the struts can be mounted on a block tray as per Figure 2.

2.39 **Figure 2.** Above Ground Stabilising Systems



**Restrictions within Tree Protection Areas**

- 2.40 Inside the exclusion area of the Tree Protective Fencing (TPF), the following shall apply:
- 2.41 No mechanical excavation and no excavation by any other means without prior agreement and stipulation on ground protection requirements from the LPA.

- 2.42 No ground level changes whatsoever, no storage of plant or materials and no vehicular access. No storage or handling of any chemicals. Any facilities for the storage of oils, fuels or chemicals shall be sited on impervious bases and surrounded by impervious bund walls. The volume of the bund compound shall be at least equivalent to the capacity of the tank plus 10%. If there is a multiple tankage, the compound shall be at least equivalent to the capacity of the largest tank, or the combined capacity of interconnected tanks, plus 10%. All filling points, vents, gauges and sight glasses shall be located within the bund. The drainage system of the bund shall be sealed with no discharge to any watercourse, land or underground strata. Associated pipework shall be located above ground and protected from accidental damage. All filling points and tank overflow pipe outlets shall be detailed to discharge downwards into the bund. All material storage facilities and work areas must consider the effects of sloping ground on the movement of potentially harmful liquid spillages towards or into protected areas. Prior to and during all construction works on site, no spoil or construction materials will be stored within the RPA of any tree on, or adjacent to the site, even if the proposed development is to be within the RPA. This is to reduce to a minimum the compaction of the roots of the trees. Any encroachment within this protected area will only be with the prior agreement of the Local Planning Authority.

### **Fencing Installation within the RPA**

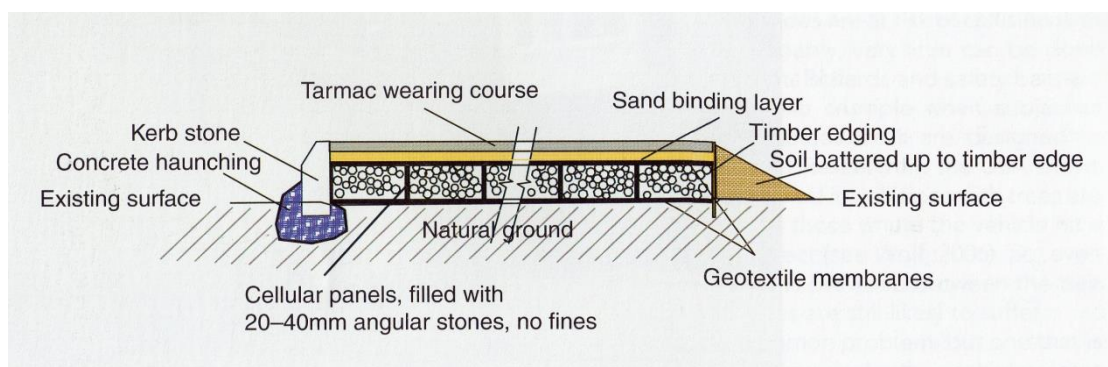
- 2.43 Ideally excavation for fence posts should not occur within the RPA of retained trees. However, where this is necessary special construction measures should be adopted.
- 2.44 Boundary fencing between plots will be required in and adjacent to the RPA of various retained trees (see TPP at **Appendix 2**).
- 2.45 Where there is a requirement for excavation for fence posts within the RPA, this should be carried out by hand or handheld mechanical auger. This will limit the damage caused to existing roots.
- 2.46 No fence post should be positioned within a 1m radius of the main stem.
- 2.47 Where post are to be concreted in place, post holes within the RPA should be lined with an impermeable material to avoid leaching of chemicals into the surrounding soil volume.

### **Permanent Hard Surface Installation**

- 2.48 Permanent hard surface installation will occur within the RPA of T10 and G10 for the construction of shared and private driveways. The construction of a public footpath will also be required within the RPA of T3, which is a 3<sup>rd</sup> party tree.
- 2.49 A no dig method for constructing the hard surfaces within RPAs will be required to prevent the need for excavation in the process of creating a sub base. Three dimensional cellular confinement systems as shown in **Figure 3** are the preferred method. 3D geoweb cells act as a load spreader and provide a stable subbase, negating the need for excavation. The geo web cells prevent compaction of the soils below.

- 2.50 Ground vegetation should be killed using a translocated herbicide. All dead vegetation should then be scraped off up to a depth of 50mm.
- 2.51 All major protrusions such as rock and any tree/shrub stumps should be removed and any hollows filled in with a coarse sandy soil which must not be mechanically compacted down.
- 2.52 The geoweb cells should be laid down onto the soil. Where permeable surfaces are to be used a geotextile membrane should first be installed to prevent leaching of chemicals into the soil.
- 2.53 Edging for the hard surface should be with wooden boards held in place with pegs. Edging may also be the use of old railway sleepers or other ground contact edging methods which do not require excavation for installation.
- 2.54 The geogrid should be filled with a minimum of 100mm of no fines angular stone and then compacted down to ensure binding with the geoweb. As the stone is pressed into the cells, this prevents movement down into the soil, preventing compaction of the existing soil volume, whilst providing a solid and stable subbase for surfacing materials.
- 2.55 Construction of the sub base should occur from outside the RPA and working in with machinery moving over already installed sub base to prevent contact with exposed ground.
- 2.56 The final surface may then be either permeable tarmac, block paviors with an appropriate binding layer such as sand or loose material such as gravel or bark chip to allow continual movement of air and water through the surface to the soil volume below.

**Figure 3.** Example Cellular Confinement System (Cox 2011)



### Avoiding Crown and Stem Damage

- 2.57 Great care must be exercised when working close to retained trees. Plant and machinery with booms, jibs and counterweights and the passage of tall or wide loads should be controlled by a banksman to maintain adequate clearance.
- 2.58 **Under no circumstance shall construction personnel undertake any tree pruning operations.**

## **Installation of Underground Services**

- 2.59 Every effort should be made to ensure the routeing of services does not encroach into RPA for the retained trees, if for whatever reason installation within RPA is required, the developers arboriculturist and local authority must be notified prior to any tree protection barrier removal and the following details adhered to.
- 2.60 Trenching for the installation of underground services severs any roots present and may change the local soil hydrology in a way that adversely affects the health of the tree. For this reason, particular care will be taken in the routeing and methods of excavation used. At all times where services are to pass within the Root Protection Area, detailed plans showing the proposed routeing will be drawn up in conjunction with an arboriculturist. Such plans will also show the levels and access space needed for installing the services.
- 2.61 The preferable method for trenching within RPAs to avoid damage is via excavation using 'air- spade' or similar. This tool utilises compressed air to remove soil from around tree roots causing minimal damage. This approach should be utilised whenever possible.

Reference can be made to National Joint Utilities Group Volume 4, Issue 2 for guidance, but any approach must be approved by the developers arboriculturist and brought to the attention of the local authority.

## **Location of Site Buildings/Compounds**

- 2.62 No information on the location of site building and compounds have been provided.
- 2.63 Under no circumstances must any material or debris be stored within the RPA of retained trees and stems must remain clear of any material.
- 2.64 Covering of tree stems with materials or debris can block lenticels and prevent gaseous exchanges, killing the living cambium beneath the bark and leading to the eventual death of trees.

## **Landscaping**

- 2.65 The creation of private gardens is planned within the RPA of retained trees.
- 2.66 Generally ground level changes within the RPA of retained trees should not occur. However, the raising of the ground level may occur minimally as long as the following guidelines are followed.
- 2.67 Good quality top soil with a course texture and high sand content should only be used within the RPA. This maintains good aeration and water movement.
- 2.68 No more than a maximum of 150mm of soil should be added within the RPA. This must not be mechanically compacted down as aeration and water movement must be maintained to encourage roots to grow up into the added soil layer.

- 2.69 Tree protection fencing must remain in place until the construction phase is complete. Tree protection fencing may only be removed for the purpose of landscaping activities under the guidance of an arboriculturist or the LPA tree officer.

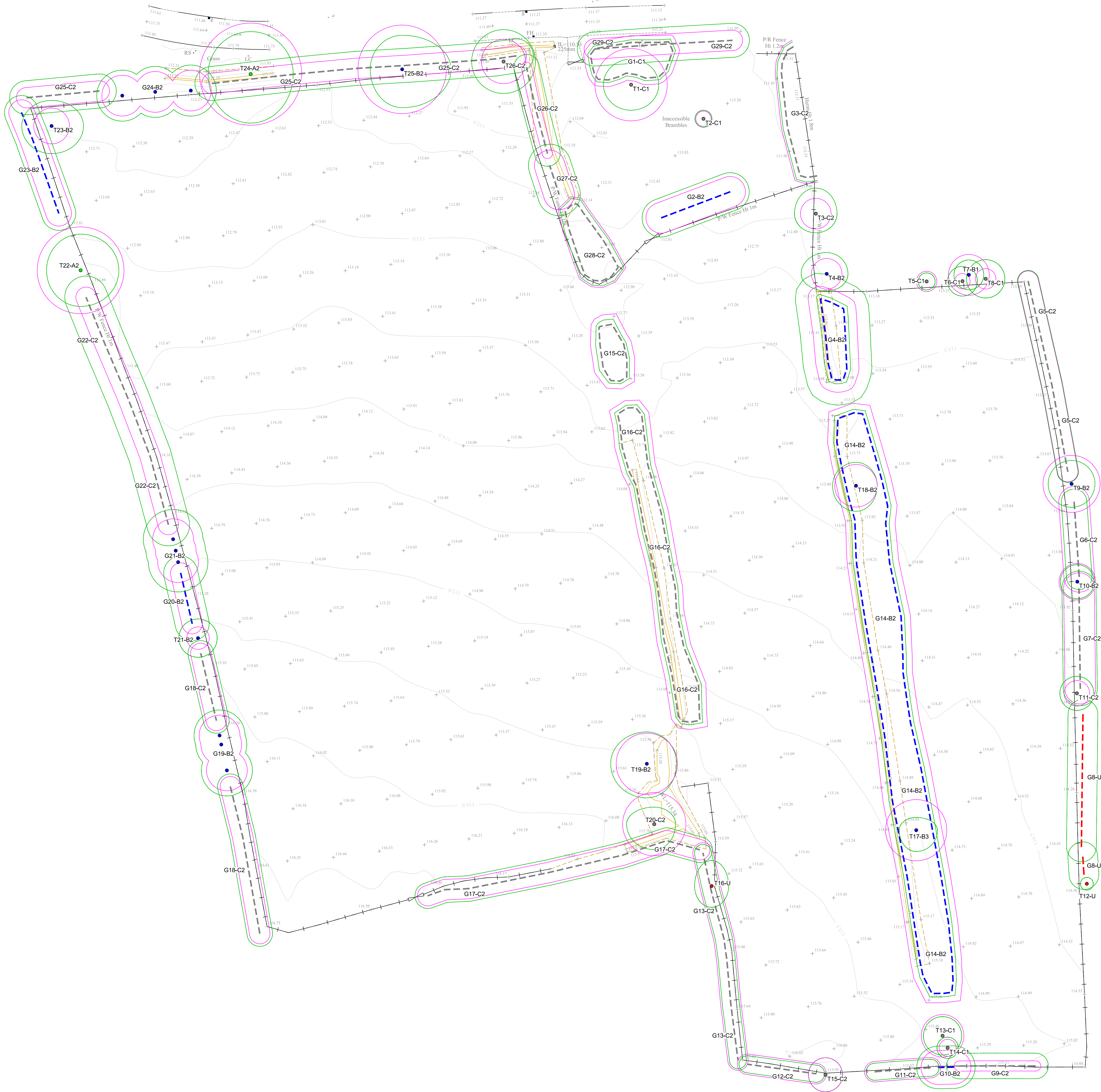
### **New Tree Planting**

- 2.70 All trees are to be procured, planted and receive aftercare in accordance with British Standards BS 8545:2014 'Trees: from nursery to independence in the landscape – Recommendations'.
- 2.71 Great care must be taken to prevent any damage to trees during handling and transportation. The contractor(s) charged with supplying the trees shall ensure that the trees are handled in accordance with the Plant Handling Code, from selection at the nursery to planting on site. The trees will be well packed and secured onto the vehicle during transit, so as to avoid any damage.
- 2.72 The contractor shall replace any trees that are damaged on site or during transportation from the nursery to the site.
- 2.73 The planting pits shall be twice the diameter and depth of the tree roots. Care will be taken to ensure the tree is planted at an appropriate depth so that the root collar is just below ground level. The soil removed from the planting pit shall be well broken before backfilling, and an appropriate slow release fertiliser will be mixed into the backfill soil in accordance with the manufacturer's instructions. The trees will be well firmed with the ball of the foot.
- 2.74 It is advisable that any tree planting takes place during the early winter months of November and December. This will allow for the development of sufficient fibrous roots ready for the subsequent growing season.
- 2.75 Should winter planting not be achievable, it is recommended that root balled trees are planted and are watered sufficiently at the time of planting. Subsequent watering regimes will be required throughout the remaining growing season to ensure successful establishment.
- 2.76 If within a period of five years from the date of planting of any tree, that tree, or any tree planted in replacement for it, is removed, uprooted, destroyed or dies, (or becomes in the opinion of the LPA seriously damaged or defective), another tree of the same species and size originally planted shall be planted at the same place within 12 months, unless otherwise agreed in writing with the LPA.

## ***APPENDICES***

## **Appendix 1: Tree Constraints Plan**

Notes  
Do not scale off drawing - refer to the tree data schedule for accurate crown spread measurements.  
Depictions of tree canopies are based on measurements taken to four cardinal compass points.  
No liability of any kind is accepted for any omissions or inaccuracies in respect of this plan.  
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# Tree Constraints Plan showing tree categories and root protection zones.

BS5837:2012 Tree Categories

- Category A**  
Trees of high quality with an estimated remaining life expectancy of at least 40 years. Groups shown as hatched shapes.
- Category B**  
Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Groups shown as hatched shapes.
- Category C**  
Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm. Groups shown as hatched shapes.
- Category U**  
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. Groups shown as hatched shapes.
- Tree groups**  
Shown as dashed centre line. Colour represents category (see above).
- BS 5837:2012 Root Protection Area**

Tree/Group/Hedge numbering: T1-T26, G1-G29.

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Client

Project  
Crab Tree Farm,  
Hinckley Road, Barwell.

Drawing Title  
Tree Constraints Plan

Scale  
1:400 AD  
Date  
Sep 2020  
DB  
CS  
CB  
JS  
Drawing Number  
Rev  
1

## **Appendix 2: Tree Protection Plan**

Tree Protection Plan  
showing proposed  
layout with trees and  
arboricultural controls.

 Tree  
Showing tree location, category  
colour, canopy and tag number.

Tree groups.  
Shown as dashed centre line.  
Colour represents category (see above).

 **Tree Root Protection Area**

#### Trees & Groups For Removal



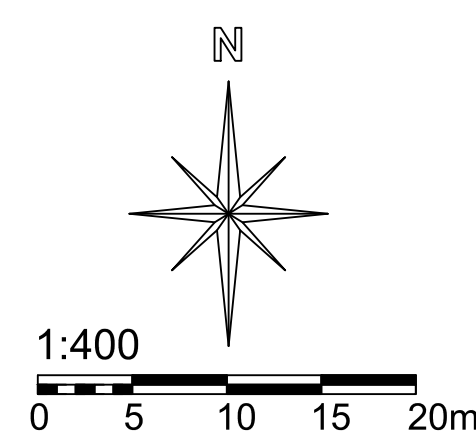
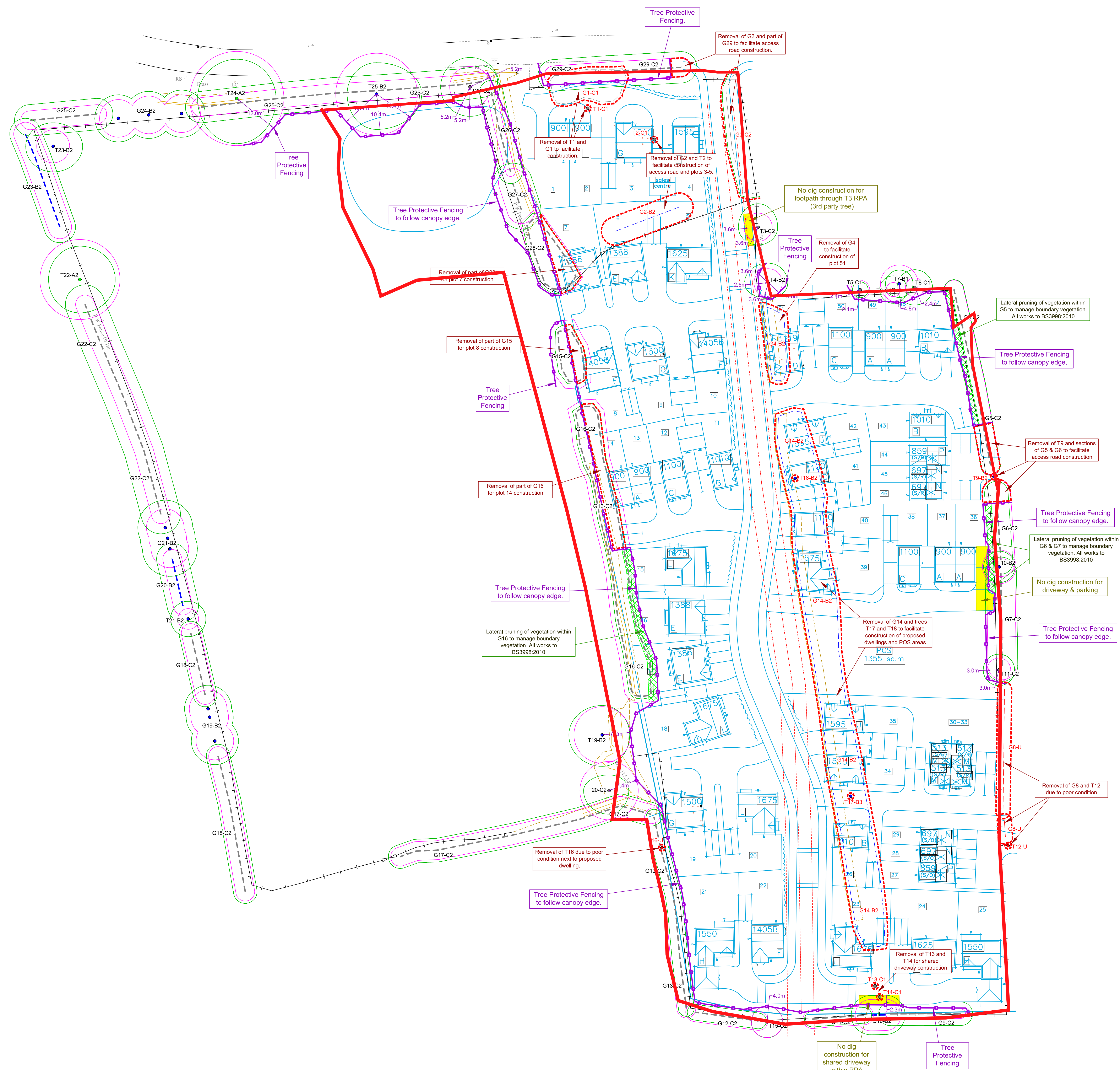
Tree Root Protective Fencing  
BS5837 specification (braced and  
staked).

☐ No dig construction

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 **Tree Pruning**

Tree/Group/Hedge numbering: T1-T26, G1-G29.



### **Appendix 3: Tree Survey Schedule**

| No.              | Species<br>(Common Name) | Age Class | Height (m) | Crown Spread (m) |   |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                                                                             | Recommendations                  | Retention Category (Sub Category) | RPA (m) |
|------------------|--------------------------|-----------|------------|------------------|---|-----|-----|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|---------|
|                  |                          |           |            | W                | S | N   | E   |                     |                    |                         |                      |                                          |                                                                                                                                                                      |                                  |                                   |         |
| INDIVIDUAL TREES |                          |           |            |                  |   |     |     |                     |                    |                         |                      |                                          |                                                                                                                                                                      |                                  |                                   |         |
| T1               | Goat willow              | M         | 10         | 6.5              | 6 | 6   | 6.5 | 0                   | basal 850          | F                       | F                    | 10+                                      | Self sown multi stemmed willow in scrub area of site. Deadwood throughout lower crown, heavy ivy colonisation. No obvious defects or signs of ill health identified. | Remove to facilitate development | C1                                | 8.5     |
| T2               | Elder                    | M         | 3.5        | 2                | 2 | 2   | 2   | 0.5                 | 150                | F                       | F                    | 10+                                      | Small self sown elder in centre of cleared scrub area.                                                                                                               | Remove                           | C1                                | 1.8     |
| T3               | Ash                      | EM        | 11         | 5                | 6 | 4.5 | 5   | 3                   | 300*               | F                       | F                    | 10+                                      | Ash tree located on boundary fence line. Sparse crown with ash dieback indicators. Heavy ivy colonisation making inspection difficult.                               | Retain                           | C2                                | 3.6     |
| T4               | Ash                      | EM        | 12.5       | 6                | 5 | 4   | 5   | 3                   | 300*               | F                       | F                    | 20+                                      | Ash located on boundary. No obvious indicators of ash dieback and healthier fuller canopy exhibited. Heavy ivy on stem.                                              | Retain                           | B2                                | 3.6     |

| No. | Species<br>(Common Name) | Age Class | Height (m) | Crown Spread (m) |     |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                                      | Recommendations                  | Retention Category (Sub Category) | RPA (m) |
|-----|--------------------------|-----------|------------|------------------|-----|-----|-----|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|---------|
|     |                          |           |            | W                | S   | N   | E   |                     |                    |                         |                      |                                          |                                                                                                                               |                                  |                                   |         |
| T5  | Hawthorn                 | M         | 7          | 2                | 2   | 2   | 2   | 0                   | 200                | F                       | F                    | 20+                                      | Hawthorn located on boundary in adjacent private property, dense growth                                                       | Retain                           | C1                                | 2.4     |
| T6  | Cherry                   | Y         | 6          | 3.5              | 3.5 | 3.5 | 3.5 | 2                   | 150                | G                       | G                    | 20+                                      | Small cherry located on boundary between wire and solid adjacent fence. No obvious defects or signs of ill health identified. | Retain                           | C1                                | 1.8     |
| T7  | Cherry                   | EM        | 9          | 3.5              | 3.5 | 3.5 | 3.5 | 3                   | 400*               | G                       | G                    | 20+                                      | Cherry located on adjacent private property on boundary. 3 stems from approx 1m.                                              | Retain                           | B1                                | 4.8     |
| T8  | Cherry                   | SM        | 8.5        | 4.5              | 4.5 | 4.5 | 4.5 | 2                   | 200*               | G                       | G                    | 20+                                      | Young cherry on boundary between wire and solid fence no obvious defects or signs of ill health identified.                   | Retain                           | C1                                | 2.4     |
| T9  | Field maple              | M         | 12         | 5.5              | 5.5 | 5.5 | 5.5 | 2                   | 5 stem 300*        | F                       | F                    | 30+                                      | Large mature field maple, multi stemmed from base. Provides large crown area and is a significant size for species. Heavy ivy | Remove to facilitate development | B2                                | 6.7     |

| No. | Species<br>(Common Name) | Age Class | Height (m) | Crown Spread<br>(m) |     |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological<br>Condition | Structural Condition | Estimated Remaining<br>Contribution (Years) | Comments                                                                                                                          | Recommendations                  | Retention Category<br>(Sub Category) | RPA<br>(m) |
|-----|--------------------------|-----------|------------|---------------------|-----|-----|-----|---------------------|--------------------|----------------------------|----------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|------------|
|     |                          |           |            | W                   | S   | N   | E   |                     |                    |                            |                      |                                             |                                                                                                                                   |                                  |                                      |            |
|     |                          |           |            |                     |     |     |     |                     |                    |                            |                      |                                             | colonisation making inspection of stems difficult.                                                                                |                                  |                                      |            |
| T10 | Ash                      | EM        | 10         | 4                   | 4   | 4   | 4   | 1.5                 | 3 stems<br>250*    | F                          | F                    | 20+                                         | Multi stemmed ash on boundary, no indicators of ssh dieback identified, no other obvious defects identified. Good crown coverage. | Retain                           | B2                                   | 4.3        |
| T11 | Elm                      | EM        | 9.5        | 4                   | 4   | 4   | 4   | 0                   | 250*               | F                          | F                    | 10+                                         | Multi stemmed tree in hedgerow, no obvious defects or signs of ill health identified. Self sown unmanaged tree.                   | Retain                           | C2                                   | 3          |
| T12 | Oak                      | M         | 11.5       | 1.5                 | 1.5 | 1.5 | 1.5 | 2                   | 700                | P                          | P                    | <10                                         | Standing oak stem which has had crown removed in past, Large decay area at base of stem and all limbs beginning to decay.         | Remove                           | U                                    | 8.4        |
| T13 | Field maple              | M         | 9          | 4.5                 | 4.5 | 4.5 | 4.5 | 1.5                 | basal<br>500       | F                          | F                    | 20+                                         | Multi stemmed maple with dense crown, tight unions leading to multiple inclusions                                                 | Remove to facilitate development | C1                                   | 5          |

| No. | Species<br>(Common Name) | Age Class | Height (m) | Crown Spread (m) |     |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                                                                                                                                     | Recommendations                  | Retention Category (Sub Category) | RPA (m) |
|-----|--------------------------|-----------|------------|------------------|-----|-----|-----|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|---------|
|     |                          |           |            | W                | S   | N   | E   |                     |                    |                         |                      |                                          |                                                                                                                                                                                                                              |                                  |                                   |         |
| T14 | Hawthorn                 | EM        | 5          | 2.5              | 2.5 | 2.5 | 2.5 | 0                   | basal 200          | F                       | F                    | 10+                                      | Dense multi stemmed tree adjacent to T13, suppressed by all surrounding trees.                                                                                                                                               | Remove to facilitate development | C1                                | 2       |
| T15 | Field maple              | EM        | 9          | 4                | 4   | 4   | 4   | 0                   | basal 400*         | F                       | F                    | 20+                                      | Multi stemmed maple tree on boundary, multiple suckers                                                                                                                                                                       | Retain                           | C2                                | 4       |
| T16 | Ash                      | M         | 10         | 4                | 6   | 5   | 4   | 1.5                 | 300*               | P                       | P                    | <10                                      | Ash tree with multiple areas of damage on stem and main limbs.                                                                                                                                                               | Remove                           | U                                 | 3.6     |
| T17 | Ash                      | M         | 10         | 4                | 3   | 5   | 5   | 3.5                 | 600                | F                       | F                    | 10+                                      | Mature ash which has previously lost its crown. New smaller crown has formed through regenerative growth. Potential for decay with stem and weak attachment of new growth, but provides good habitat for a range of species. | Remove to facilitate development | B3                                | 7.2     |
| T18 | Goat willow              | M         | 10         | 5.5              | 5.5 | 6   | 5   | 1.5                 | basal 500*         | F                       | F                    | 10+                                      | Large mature goat willow forming part of central boundary vegetation, large                                                                                                                                                  | Remove to facilitate development | B2                                | 5       |

| No. | Species<br>(Common Name) | Age Class | Height (m) | Crown Spread<br>(m) |     |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological<br>Condition | Structural Condition | Estimated Remaining<br>Contribution (Years) | Comments                                                                                                                                                                                                                    | Recommendations | Retention Category<br>(Sub Category) | RPA<br>(m) |
|-----|--------------------------|-----------|------------|---------------------|-----|-----|-----|---------------------|--------------------|----------------------------|----------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|------------|
|     |                          |           |            | W                   | S   | N   | E   |                     |                    |                            |                      |                                             |                                                                                                                                                                                                                             |                 |                                      |            |
|     |                          |           |            |                     |     |     |     |                     |                    |                            |                      |                                             | crown dominating this section of G14.                                                                                                                                                                                       |                 |                                      |            |
| T19 | English oak              | EM        | 15         | 8.5                 | 7.5 | 8   | 7   | 3                   | 600                | G                          | F                    | 30+                                         | Stand alone oak, multiple dead and snapped limbs in crown, Longitudinal wound on stem. Roots exposed with ground eroding to the east. Large wide crown and with management can be retained as impressive future large tree. | Retain          | B2                                   | 7.2        |
| T20 | Ash                      | M         | 17         | 6.5                 | 4   | 6   | 5   | 1.5                 | 620                | F                          | P                    | 10+                                         | Large mature tree, with multiple limb failures and die back in upper canopy. Decay and cavities identified in main north stem.                                                                                              | Retain          | C2                                   | 7.44       |
| T21 | Field maple              | EM        | 11         | 4.5                 | 4.5 | 4.5 | 4.5 | 1.5                 | 220                | G                          | G                    | 20+                                         | Early mature tree located on boundary providing taller canopy along mid boundary area. No obvious defects or signs of ill health identified.                                                                                | Retain          | B2                                   | 2.64       |

| No. | Species<br>(Common Name) | Age Class | Height (m) | Crown Spread (m) |     |      |      | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                                                                             | Recommendations                                     | Retention Category (Sub Category) | RPA (m) |
|-----|--------------------------|-----------|------------|------------------|-----|------|------|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------|---------|
|     |                          |           |            | W                | S   | N    | E    |                     |                    |                         |                      |                                          |                                                                                                                                                                      |                                                     |                                   |         |
| T22 | Ash                      | M         | 21         | 8                | 8.5 | 8.5  | 9    | 2                   | 850*               | G                       | G                    | 30+                                      | Large mature ash, no signs of ash die back and generally exhibits good health and condition. Tallest and most significant tree on site, high value landscape feature | Retain                                              | A2                                | 10.2    |
| T23 | Crack willow             | M         | 17         | 7                | 6   | 6.5  | 7.5  | 2                   | 350*               | F                       | F                    | 20+                                      | Tall mature willow, with multiple snapped and hung up limbs. Management of canopy will improve quality.                                                              | Retain                                              | B2                                | 4.2     |
| T24 | English oak              | M         | 16.5       | 10               | 10  | 11.5 | 10   | 1.5                 | 1000*              | F                       | F                    | 30+                                      | Very large mature oak with dominating crown. Large canopy area and high value landscape feature. No obvious defects or signs of ill health identified.               | Remove to facilitate development in western parcel. | A2                                | 12      |
| T25 | Crack willow             | M         | 22         | 7.5              | 8   | 9    | 11.5 | 1.5                 | 3 stems 600*       | F                       | F                    | 20+                                      | Large mature willow with multiple stems from base. failed and hung up limbs through out crown.                                                                       | Retain                                              | B2                                | 10.4    |

| No.             | Species<br>(Common Name)        | Age Class | Height (m) | Crown Spread<br>(m) |     |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                                               | Recommendations                  | Retention Category<br>(Sub Category) | RPA<br>(m) |
|-----------------|---------------------------------|-----------|------------|---------------------|-----|-----|-----|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------|------------|
|                 |                                 |           |            | W                   | S   | N   | E   |                     |                    |                         |                      |                                          |                                                                                                                                        |                                  |                                      |            |
| T26             | Ash                             | M         | 17         | 7.5                 | 7.5 | 7.5 | 7.5 | 3                   | 5 stems<br>300*    | F                       | F                    | 10+                                      | Multi stemmed ash in corner of site. Deadwood through out and minor dieback in outer crown, potentially due to ash dieback.            | Retain                           | C2                                   | 5.2        |
| GROUPS OF TREES |                                 |           |            |                     |     |     |     |                     |                    |                         |                      |                                          |                                                                                                                                        |                                  |                                      |            |
| G1              | Hawthorn                        | M         | 6          | 4                   | 4   | 4   | 4   | 0                   | 200                | F                       | F                    | 20+                                      | Group of self sown hawthorn in scrub area. Deadwood throughout crowns. Unmanaged area.                                                 | Remove to facilitate development | C1                                   | 2.4        |
| G2              | Hawthorn                        | M         | 8          | 4.5                 | 4.5 | 4.5 | 4.5 | 0                   | 300                | F                       | F                    | 20+                                      | Line of mature hawthorn along fence line. Wide canopies with good habitat value. No obvious defects or signs of ill health identified. | Remove to facilitate development | B2                                   | 3.6        |
| G3              | Hawthorn, elder                 | M         | 6          | 4                   | 4   | 4   | 4   | 0                   | 200-300*           | F                       | F                    | 10+                                      | Self sown unmanaged vegetation along boundary with heavy ivy colonisation.                                                             | Remove to facilitate development | C2                                   | 3.6        |
| G4              | Ash, field maple, elm, hawthorn | M         | 10         | 5                   | 5   | 5   | 5   | 0                   | 200-300            | F                       | F                    | 20+                                      | Group of trees located along fence line. Generally exhibit fair condition and                                                          | Remove to facilitate development | B2                                   | 3.6        |

| No. | Species<br>(Common Name)         | Age Class | Height (m) | Crown Spread (m) |     |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                     | Recommendations                                                                                               | Retention Category (Sub Category) | RPA (m) |
|-----|----------------------------------|-----------|------------|------------------|-----|-----|-----|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------|---------|
|     |                                  |           |            | W                | S   | N   | E   |                     |                    |                         |                      |                                          |                                                                                                              |                                                                                                               |                                   |         |
|     |                                  |           |            |                  |     |     |     |                     |                    |                         |                      |                                          | provide dense area of maturing canopy. Low height and small group.                                           |                                                                                                               |                                   |         |
| G5  | Hawthorn, elm                    | SM-M      | 8          | 2.5              | 2.5 | 2.5 | 2.5 | 0                   | 200                | F                       | F                    | 10+                                      | over grown boundary vegetation which has not been managed. Sparse canopies throughout. Poor form throughout. | Part removal required to facilitate development, lateral reduction of eastern crown to create garden boundary | C2                                | 2.4     |
| G6  | Hawthorn                         | M         | 6          | 3                | 3   | 3   | 3   | 0                   | 100-300            | F                       | F                    | 20+                                      | Unmanaged boundary hedge single species                                                                      | Part removal required to facilitate development, lateral reduction of eastern crown to create garden boundary | C2                                | 3.6     |
| G7  | Hawthorn                         | M         | 6          | 4                | 4   | 4   | 4   | 0                   | 200-300*           | F                       | F                    | 20+                                      | Unmanaged boundary vegetation with gaps single species.                                                      | Retain                                                                                                        | C2                                | 3.6     |
| G8  | Elder, hawthorn, blackthorn, elm | Y-SM      | 7          | 3.5              | 3.5 | 3.5 | 3.5 | 0                   | 100-300            | P                       | P                    | <10                                      | Small group of dead and dying trees.                                                                         | Remove                                                                                                        | U                                 | 3.6     |

| No. | Species<br>(Common Name)      | Age Class | Height (m) | Crown Spread (m) |   |   |   | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                                           | Recommendations                          | Retention Category (Sub Category) | RPA (m) |
|-----|-------------------------------|-----------|------------|------------------|---|---|---|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------|---------|
|     |                               |           |            | W                | S | N | E |                     |                    |                         |                      |                                          |                                                                                                                                    |                                          |                                   |         |
| G9  | Hawthorn ash                  | Y         | 6-9        | 3                | 3 | 3 | 3 | 0                   | 100                | F                       | F                    | 20+                                      | Unmanaged self sown boundary vegetation.                                                                                           | Retain                                   | C2                                | 1.2     |
| G10 | Field maple                   | M         | 10         | 5                | 5 | 5 | 5 | 1.5                 | basal 400          | F                       | F                    | 20+                                      | Group of mature maple on site boundary, multi stemmed from base with damage throughout stems. Most significant canopy on boundary. | Retain                                   | B2                                | 4       |
| G11 | Hawthorn                      | EM        | 6          | 2                | 2 | 2 | 2 | 0                   | 200*               | F                       | F                    | 20+                                      | Small group of hawthorn on boundary, unmanaged vegetation.                                                                         | Retain                                   | C2                                | 2.4     |
| G12 | Hawthorn                      | EM        | 6          | 2                | 2 | 2 | 2 | 0                   | 200*               | F                       | F                    | 20+                                      | Small group of hawthorn on boundary, unmanaged vegetation.                                                                         | Retain                                   | C2                                | 2.4     |
| G13 | Hawthorn                      | M         | 6          | 2                | 2 | 2 | 2 | 0                   | 100-200*           | F                       | F                    | 10+                                      | Unmanaged boundary vegetation, overgrown and with sections of dead and dying stems,                                                | Retain                                   | C2                                | 2.4     |
| G14 | Ash, blackthorn, field maple, | EM - M    | max 10     | 5                | 5 | 5 | 5 | 0                   | max 300            | F                       | F                    | 20+                                      | Boundary vegetation providing continuous canopy. Mostly exhibiting                                                                 | Remove in full to facilitate development | B2                                | 3.6     |

| No. | Species<br>(Common Name)                 | Age Class | Height (m) | Crown Spread<br>(m) |     |     |     | Crown Clearance (m) | Stem Diameter (mm) | Physiological<br>Condition | Structural Condition | Estimated Remaining<br>Contribution (Years) | Comments                                                                                                                                                   | Recommendations                                                                                                           | Retention Category<br>(Sub Category) | RPA<br>(m) |
|-----|------------------------------------------|-----------|------------|---------------------|-----|-----|-----|---------------------|--------------------|----------------------------|----------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------|
|     |                                          |           |            | W                   | S   | N   | E   |                     |                    |                            |                      |                                             |                                                                                                                                                            |                                                                                                                           |                                      |            |
|     | goat willow,<br>elm, apple,<br>hawthorn, |           |            |                     |     |     |     |                     |                    |                            |                      |                                             | self sown multi stemmed<br>form and has not been<br>managed, but provides<br>avenue of maturing canopy                                                     |                                                                                                                           |                                      |            |
| G15 | Ash, hawthorn                            | SM        | 10.5       | 3.5                 | 3.5 | 3.5 | 3.5 | 1.5                 | 350                | F                          | F                    | 10+                                         | Small group of trees with ash<br>dominating, generally<br>young no signs of ash<br>dieback identified. Small<br>understorey hawthorns<br>completing group. | Part removal required to<br>facilitate development                                                                        | C2                                   | 4.2        |
| G16 | Ash,<br>hawthorn,<br>blackthorn,<br>oak, | SM        | 8          | 4                   | 4   | 4   | 4   | 0                   | 200                | F                          | F                    | 20+                                         | Line of boundary<br>vegetation, very Sporadic<br>with gaps. Some dead and<br>dying stems. 1x oak which<br>forms most significant part of<br>group.         | Part removal required to<br>facilitate development,<br>lateral reduction of<br>eastern crown to create<br>garden boundary | C2                                   | 2.4        |
| G17 | Hawthorn,<br>ash, field<br>maple         | SM        | 6-8        | 3                   | 3   | 3   | 3   | 0                   | 100-<br>200        | F                          | F                    | 10+                                         | Boundary vegetation,<br>unmanaged with some<br>dead and dying stems<br>within.                                                                             | Retain                                                                                                                    | C2                                   | 2.4        |

| No. | Species<br>(Common Name)          | Age Class | Height (m) | Crown Spread (m) |   |   |   | Crown Clearance (m) | Stem Diameter (mm) | Physiological Condition | Structural Condition | Estimated Remaining Contribution (Years) | Comments                                                                                                                                                                     | Recommendations | Retention Category (Sub Category) | RPA (m) |
|-----|-----------------------------------|-----------|------------|------------------|---|---|---|---------------------|--------------------|-------------------------|----------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------|---------|
|     |                                   |           |            | W                | S | N | E |                     |                    |                         |                      |                                          |                                                                                                                                                                              |                 |                                   |         |
| G18 | Hawthorn, ash, field maple        | SM        | 6-8        | 3                | 3 | 3 | 3 | 0                   | 100-200            | F                       | F                    | 10+                                      | Boundary vegetation, unmanaged with some dead and dying stems within.                                                                                                        | Retain          | C2                                | 2.4     |
| G19 | Ash, field maple                  | M         | 10-14      | 6                | 6 | 6 | 6 | 1.5                 | 200-400            | F                       | F                    | 20+                                      | Mature tree located on boundary of site. Tall canopy. No obvious defects or signs of ill health identified.                                                                  | Retain          | B2                                | 4.8     |
| G20 | Hawthorn, blackthorn, field maple | M         | 8          | 4                | 4 | 4 | 4 | 0                   | 200*               | G                       | G                    | 20+                                      | Dense and tall mature boundary vegetation, all exhibiting good condition and dominating along boundary between larger trees                                                  | Retain          | B2                                | 2.4     |
| G21 | Field maple, ash                  | M         | 13         | 7                | 7 | 7 | 7 | 1.5                 | 200-400            | G                       | G                    | 30+                                      | Dense group of mature trees predominantly field maple. Multi stemmed in places. Generally exhibits good condition. Dominated boundary in this section with tall dense canopy | Retain          | B2                                | 4.8     |

| No. | Species<br>(Common Name)                          | Age Class | Height (m) | Crown Spread<br>(m) |   |   |   | Crown Clearance (m) | Stem Diameter (mm) | Physiological<br>Condition | Structural Condition | Estimated Remaining<br>Contribution (Years) | Comments                                                                                                                                            | Recommendations                                                          | Retention Category<br>(Sub Category) | RPA<br>(m) |
|-----|---------------------------------------------------|-----------|------------|---------------------|---|---|---|---------------------|--------------------|----------------------------|----------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------|------------|
|     |                                                   |           |            | W                   | S | N | E |                     |                    |                            |                      |                                             |                                                                                                                                                     |                                                                          |                                      |            |
| G22 | Hawthorn,<br>blackthorn,<br>apple, field<br>maple | M         | 8          | 5                   | 5 | 5 | 5 | 0                   | max<br>200         | F                          | F                    | 20+                                         | Boundary vegetation, mixed<br>species with sections of<br>dead and dying stems.<br>Gaps in places. Unmanaged<br>and poor form in places.            | Retain                                                                   | C2                                   | 2.4        |
| G23 | Hawthorn                                          | M         | 10         | 4                   | 4 | 4 | 4 | 0.5                 | 250*               | G                          | G                    | 30+                                         | Group of hawthorn on<br>boundary, provides dense<br>area of canopy exhibiting<br>good condition. Good form<br>for self sown boundary<br>vegetation. | Retain                                                                   | B2                                   | 3          |
| G24 | Crack willow,<br>goat willow,<br>ash              | M         | 11.5       | 6                   | 6 | 6 | 6 | 1                   | 200-<br>400*       | F                          | F                    | 20+                                         | Group of tall willow<br>predominantly, mostly tall<br>narrow stems, with goat<br>willow understorey.                                                | Retain                                                                   | B2                                   | 4.8        |
| G25 | mixed                                             | M         | 5-10       | 4                   | 4 | 4 | 4 | 0                   | max<br>200         | F                          | F                    | 20+                                         | Mixed boundary vegetation,<br>all self sown, overgrown and<br>unmanaged.                                                                            | Part removal required to<br>facilitate development of<br>western parcel. | C2                                   | 2.4        |
| G26 | Blackthorn                                        | M         | 4          | 3                   | 3 | 3 | 3 | 0                   | 100                | F                          | F                    | 10+                                         | Dense group of blackthorn<br>in boundary                                                                                                            | Retain                                                                   | C2                                   | 1.2        |

| No. | Species<br>(Common Name) | Age Class | Height (m) | Crown Spread<br>(m) |   |   |   | Crown Clearance (m) | Stem Diameter (mm) | Physiological<br>Condition | Structural Condition | Estimated Remaining<br>Contribution (Years) | Comments                                                                                                         | Recommendations                                                              | Retention Category<br>(Sub Category) | RPA<br>(m) |
|-----|--------------------------|-----------|------------|---------------------|---|---|---|---------------------|--------------------|----------------------------|----------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------|------------|
|     |                          |           |            | W                   | S | N | E |                     |                    |                            |                      |                                             |                                                                                                                  |                                                                              |                                      |            |
| G27 | Crack willow             | M         | 12         | 5                   | 5 | 5 | 5 | 0                   | 300                | F                          | F                    | 10+                                         | Group of multi stemmed willow trees, all self sown. Young slender stems in general.                              | Retain                                                                       | C2                                   | 3.6        |
| G28 | Hawthorn ,<br>elm        | SM-<br>M  | 6          | 4                   | 4 | 4 | 4 | 0                   | 100-<br>300        | F                          | F                    | 10+                                         | Group of predominantly hawthorn with elm stems situated within. Most elms are dead with the remaining dying off. | Part removal required to facilitate construction                             | C2                                   | 3.6        |
| G29 | Hawthorn,<br>elm, willow | M         | 8          | 4                   | 4 | 4 | 4 | 0                   | 200                | F                          | F                    | 10+                                         | Boundary road side vegetation of predominantly hawthorn. elm to western end have died. Unmanaged and overgrown.  | Part removal required to facilitate construction of access road and junction | C2                                   | 2.4        |

## Key

- No. – Tree/group reference number, to be recorded on tree survey plan where necessary.
- Species – Common Names.
- Age Class – Young (Y), Young Mature (YM), Middle Mature (MM), Mature (M), Over Mature (OM).
- Height – Overall height of tree in metres.
- Crown Spread – In meters taken at the four cardinal points to derive an accurate representation of the crown (to be recorded on the tree survey plan where necessary).
- Crown Clearance – in meters above adjacent ground level to inform on ground clearance, crown stem ratio and shading.
- Stem Diameter – In millimetres at 1.5m above adjacent ground level (on sloping ground to be taken on the upslope of the tree base) or immediately above the roof flare for multi-stemmed trees.
- Physiological Condition – e.g. Good (G), Fair (F), Poor (P) and Dead (D).
- Structural Condition – e.g. collapsing, the presence of decay and any physical defect.
- Estimated remaining contribution – in years e.g. less than 10, 10-20, 20-40, more than 40.
- Recommendations – Including further investigations of suspected defects that require more detailed assessment and potential wildlife habitat. All tree work is based on current tree condition and the existing land use and will include work such as hazard abatement, encroachment pruning, thinning of groups/woods and good arboricultural practice.
- Retention Category (Sub Category) – U or A to C, to be recorded in plan on the tree survey plan where possible.
- RPA – Root Protection Area calculated from BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations, in sqm. Where indicated, dimensions of radius of circle or sides of square based around centre point of trunk calculated for design purposes.

## **Appendix 4: Classification Descriptions**

| Cascade Chart for the Quality Assessment (Taken from BS5837:2012 Table 1, Page 9)                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         |                                                                                                                                           |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Category and Definition                                                                                                                                            | Criteria (Including Subcategories Where Appropriate)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                         |                                                                                                                                           | Identification on Plan |
|                                                                                                                                                                    | 1 Mainly Arboricultural Qualities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2 Mainly Landscape Qualities                                                                            | 3 Mainly Cultural Values, Including Conservation                                                                                          |                        |
| TREES UNSUITABLE FOR RETENTION                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         |                                                                                                                                           |                        |
| Category U<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 | Trees that have 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).<br>Trees that are dead or are showing signs of significant, immediate or irreversible overall decline.<br>Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low-quality trees supressing adjacent trees of better quality.<br><br><i>Note: Category U trees can have existing or potential conservation value which it might be desirable to preserve.</i> |                                                                                                         |                                                                                                                                           | See Appendix 3         |
| TREES TO BE CONSIDERED FOR RETENTION                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                         |                                                                                                                                           |                        |
| Category A<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 or trees or wood pasture). | See Appendix 3         |

**Cascade Chart for the Quality Assessment (Taken from BS5837:2012 Table 1, Page 9)**

| Category and Definition                                                                                                                            | Criteria (Including Subcategories Where Appropriate)                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                         |                                                              | Identification on Plan |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------------------------|
|                                                                                                                                                    | 1 Mainly Arboricultural Qualities                                                                                                                                                                                                                                                                                                                                                   | 2 Mainly Landscape Qualities                                                                                                                                                                                                                                            | 3 Mainly Cultural Values, Including Conservation             |                        |
| Category B<br>Trees of moderate quality with an estimated remaining life expectancy of at least 20 years                                           | Trees that might be included in Category A, but were 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 groups or woodlands, such that they attract a higher collective rating than they might attract 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 Appendix 3         |
| Category C<br>Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter of <150mm | 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 Appendix 3         |



BETTER SOLUTIONS, INTELLIGENTLY ENGINEERED