



## Arboricultural assessment & method statement

Land adjoining Hulbert Road, Waterloooville

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16030-AA-PB

## Site location and report purpose

### Site location



This aerial image is supplied courtesy of Google. The yellow areas indicate the approximate sections of Hulbert Road in question and are purely for locational and illustrative purposes only.

### Report purpose

This arboricultural assessment report provides sufficient information for the Local Planning Authority (LPA) to consider the effect of the proposed development on local character from a tree perspective. It is fully compliant with the BS 5837 advice relating to the planning application stage of the process and it meets national standard planning application validation requirements.

More specifically, the development proposal is to establish a new highway footpath to the western side of the existing carriageway of Hulbert Road, Waterloooville.

This report includes:

- A **Tree protection plan** illustrating tree locations, categories, the location of the proposed development, and the proposed tree protection measures.
- An **Arboricultural assessment** (section 1 of the report) providing an analysis of the tree issues to assist the LPA in assessing the impact on local character.
- An **Arboricultural method statement** (section 2 of the report) describing how retained trees will be protected and managed during the development activity.
- **Appendices** (**Appendix 1** – Background administrative information and data collection; **Appendix 2** – Tree schedule and explanatory notes; and, **Appendix 3** – QR Codes for SGNs).
- A companion document to supplement the main report titled ***Manual for managing trees on development sites (Version 3.0)***, which provides explanations of how retained trees will be managed on site in the form of Site Guidance Notes (SGNs) covering the relevant issues.

## 1: Arboricultural assessment

### 1.1 Table 1: Summary of trees affected and protected by the proposal

From our review of the constraints and the proposed layout, our assessment of the impact on trees, both during and after development, and those that need protection using special precautions, is summarised in Table 1:

|                                                                         | British Standard 5837 Category |                      |                      |
|-------------------------------------------------------------------------|--------------------------------|----------------------|----------------------|
|                                                                         | A (High quality)               | B (Moderate quality) | C (Low quality)      |
| <b>Remove</b>                                                           | T5                             | None                 | T3, T4, G6, T12, G17 |
| <b>Prune</b>                                                            | None                           | None                 | None                 |
| <b>Protect using special precautions</b> <small>See Notes below</small> | None                           | G1, T2, T14, G19     | G15, G16, G20, G21   |
| <b>Post footpath construction considerations</b>                        | None                           | None                 | None                 |

T = Tree; G = Group

**Note on types of protection:** All retained trees will be protected during development by using robust temporary barriers and only those requiring special precautions to limit the impact of encroachment are listed in Table 1.

**Note on category U trees:** Trees categorised as U (**G8 (part)**, **G13** and **T18**) are in such poor condition that they have been assessed as needing removal for management reasons irrespective of any proposals relating to footpath construction. Removal of category U trees is a management decision and not caused by this proposal, so should not be considered a direct impact.

### 1.2 The impact of tree removals on local character

#### Tree T5

The design constraints of the proposed footpath and onsite limitations (in terms of width capacity) dictate that the proposed route cannot be significantly altered. As such there is a direct conflict with the route of the footpath and the trunk location of tree T5. Although a high-quality tree that is visible in the context of the public realm, tree T5 is set within the context of a densely treed wooded backdrop to the west, as well as there being a substantially treed area to the east (beyond the existing Hulbert Road carriageway). It is my opinion that the presence of these other trees will substantially offset the loss of this tree and restrict any detrimental change on visual amenity or landscape character to the short term only.

#### Trees **T3**, **T4**, **T12** and groups **G6** and **G17**

Located immediately adjacent to the existing carriageway these low-quality trees are set to the east of areas of densely treed features. I have assessed these trees as being of low quality either due to their small size, poor structural form or limited scope for sustainable retention beyond the short term. The significant number of retained trees to the west of these trees will buffer any impact arising from their removal to the extent that there will be no material impact on local character or visual amenity.

## 1: Arboricultural assessment

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### 1.3 The impact of tree pruning on local character

No trees will be pruned because of this development and so there will be no impact on local character for that reason.

### 1.4 The impact of works in precautionary areas

My assessment of the impact of encroachment into RPAs that will be managed by special precautions, is as follows:

#### **Trees T2, T14, and groups G1, G15, G16, G19, G20 and G21**

There will be encroachment into the radially expressed RPAs of these trees in the form of new no-dig surfacing. I have carefully reviewed the ground levels and existing conditions within these sections (broadly disturbed and compacted, with some presence of informal hard standing at places as well as a section of drainage ditch (as denoted on the topographic survey)). Based on my assessment it is my opinion that it would be feasible to install custom designed no-dig footpath that aligns to the formally adopted specification of Hampshire County Council Highway Authority (reference **HCC10/C/160** – dated July 2015), without causing any significant disturbance to the RPAs of the retained trees. From my previous experience at installing such surfacing ([www.barrelltreecare.co.uk/case-studies/SurfacingNearTrees.pdf](http://www.barrelltreecare.co.uk/case-studies/SurfacingNearTrees.pdf)), I am confident that this can be successfully implemented, with the final working level detail (to account for elements such as drainage provisioning) to be to be agreed as part of a reasonably worded planning condition. All works relating to the preparation and establishment of this surface will be subject to robust arboricultural supervision and undertaken in accordance with the detail set out in SGN7 *Excavating in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn07](http://www.barrelltreecare.co.uk/technical-guidance/sgn07)) and SGN9 *Installing/upgrading surfacing in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn09](http://www.barrelltreecare.co.uk/technical-guidance/sgn09)). This potential solution to surfacing within tree RPA aligns to the approach and recommendations set out in BS 5837 (8.6) and would be appropriate in this situation.

### 1.5 Post development considerations

My assessment is that there will be no adverse impacts on the retained trees once the proposed footpath is completed and accessible to the general public.

### 1.6 Unanticipated upgrading of existing services or installation of new services

All retained trees may be affected by the installation of new services or upgrading of existing services if not undertaken with careful planning and implementation guidance. However, it is often difficult to know the detail of services until the construction is in progress, and so this advice is precautionary at this stage. Where possible, it is proposed to use the existing services into the site and keep all new services outside RPAs. Where existing services within RPAs require upgrading, or new services must be installed in RPAs, great care must be taken to minimise any disturbance. Trenchless installation will be the preferred option, but if that is not feasible, any excavation must be carried out by hand according to the guidelines in SGN 11 *Installing services in RPAs*.



## 1: Arboricultural assessment

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### 1.7 Summary of impact on local character

The majority of the trees to be removed because of this proposal are low category because of their poor condition, small size or limited scope for sustainable retention. A single high category tree will also need to be removed, but this tree is located immediately to the east of a substantive treed area and the presence of these trees will limit the visual impact of this loss to the very short term and will not alter landscape character. The matter of potential adverse impacts on retained trees following the construction of the footpath to fell or prune has been considered and I concluded that none of the retained trees will be affected. The installation works associated with the construction of the footpath may affect retained trees if appropriate protective measures are not taken. However, if adequate precautions to protect these retained trees are specified and implemented through the arboricultural method statement included in this report and indicated on the tree protection plan, then development proposal will have no detrimental impact on tree health or the contribution of trees to character in the wider setting.

For these reasons, we conclude that the proposed development would not cause an unacceptable or adverse impact on the long-term vitality of the retained trees, and therefore the character and appearance of the area. Furthermore, it fully aligns with the broad guidance set out in the National Planning Policy Framework.

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### 2.1 Site Guidance Notes (SGNs)

This section of the report identifies which trees on this site will be protected and managed, and by what means. This site-specific summary is supplemented by more detailed explanations and descriptions of specific operations set out in the accompanying *Manual for managing trees on development sites*. That document is a compilation of 12 individual SGNs addressing the following tree protection and management issues that regularly arise in the construction phase of development:

- SGN1 *Monitoring tree protection* ([www.barrelltreecare.co.uk/technical-guidance/sgn01](http://www.barrelltreecare.co.uk/technical-guidance/sgn01))
- SGN2 *Fencing protected trees* ([www.barrelltreecare.co.uk/technical-guidance/sgn02](http://www.barrelltreecare.co.uk/technical-guidance/sgn02))
- SGN3 *Ground protection* ([www.barrelltreecare.co.uk/resources/technical-guidance/sgn03](http://www.barrelltreecare.co.uk/resources/technical-guidance/sgn03))
- SGN4 *Pollution control* ([www.barrelltreecare.co.uk/resources/technical-guidance/sgn04](http://www.barrelltreecare.co.uk/resources/technical-guidance/sgn04))
- SGN5 *Site cranes & piling rigs* ([www.barrelltreecare.co.uk/technical-guidance/sgn05](http://www.barrelltreecare.co.uk/technical-guidance/sgn05))
- SGN6 *Height restrictions* ([www.barrelltreecare.co.uk/resources/technical-guidance/sgn06](http://www.barrelltreecare.co.uk/resources/technical-guidance/sgn06))
- SGN7 *Excavating in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn07](http://www.barrelltreecare.co.uk/technical-guidance/sgn07))
- SGN8 *Removing surfacing and structures in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn08](http://www.barrelltreecare.co.uk/technical-guidance/sgn08))
- SGN9 *Installing/upgrading surfacing in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn09](http://www.barrelltreecare.co.uk/technical-guidance/sgn09))
- SGN10 *Installing structures in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn10](http://www.barrelltreecare.co.uk/technical-guidance/sgn10))
- SGN11 *Installing services in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn11](http://www.barrelltreecare.co.uk/technical-guidance/sgn11))
- SGN12 *Landscaping in RPAs* ([www.barrelltreecare.co.uk/technical-guidance/sgn12](http://www.barrelltreecare.co.uk/technical-guidance/sgn12))

**NOTE:** Each individual SGN can be downloaded by using the links above and the QR Code links in Appendix 3.

### 2.2 Identification of areas to be protected

The tree protection plan shows the areas where protective measures are necessary. The barrier locations are shown by the heavy black dashed lines, with the construction exclusion zone behind as the lighter black diagonal hatch. The precautionary areas relating to the formation of the footpath in areas of radially expressed RPA are shown by a yellow fill.

### 2.3 Arboricultural supervision

An arboricultural consultant will be appointed to advise on the tree management for the site and to attend:

- a pre-commencement meeting before any work starts;
- regular supervision visits to oversee the agreed tree protection, as agreed at the pre-commencement meeting; and
- further supervision visits, as necessary, to oversee any unexpected works that could affect trees.

The detail of how the arboricultural supervision will be carried out is explained in SGN 1 *Monitoring tree protection* in the accompanying Manual.

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### 2.4 Table 2: Summary of the site operations requiring arboricultural input

For this site, arboricultural input will be needed for the following operations:

| Brief operation summary                                                                                                                                                                                                          | Trees affected                                           | Location of detailed explanations                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------|
| <b>Pre-commencement meeting:</b> Meeting on site with all parties to agree protective measures, as described in SGN 1. <u>Will be carried out before any significant site works begin.</u>                                       | All trees                                                | SGN 1 <i>Monitoring tree protection</i>                    |
| <b>Tree felling and pruning:</b> Contractor will carry out agreed works as described in Appendix 2. <u>Will be completed before any significant site works begin.</u>                                                            | Fell trees T3, T4, T5, G6, G8 (part), T12, G13, G17, T18 | Appendix 2                                                 |
| <b>Installing fencing:</b> Agreed tree protection measures will be installed and checked, as described in SGN 2. <u>Will be completed before any significant site works begin.</u>                                               | All trees                                                | Tree protection plan, SGN 2 <i>Fencing protected trees</i> |
| <b>Pollution control near retained trees:</b> Any pollution control measures identified during risk assessment will be installed as described in SGN 4. <u>Will be completed before any potential pollutants arrive on site.</u> | All trees                                                | SGN 4 <i>Pollution control</i>                             |
| <b>Regular arboricultural supervision:</b> Provision will be made to carry out and record agreed arboricultural supervision, as described in SGN 1.                                                                              | All trees                                                | SGN 1 <i>Monitoring tree protection</i>                    |
| <b>Excavating in RPAs:</b> These operations will be carried out as described in SGN 7.                                                                                                                                           | G1, T2, T14, G15, G16, G19, G20 and G21                  | SGN 7 <i>Excavating in RPAs</i>                            |
| <b>Installing/upgrading surfacing in RPAs:</b> These operations will be carried out as described in the SGN 9.                                                                                                                   | G1, T2, T14, G15, G16, G19, G20 and G21                  | SGN 9 <i>Installing/upgrading surfacing in RPAs</i>        |
| <b>Installing services in RPAs:</b> These operations will be carried out with care, as described in SGN 11.                                                                                                                      | All trees                                                | SGN 11 <i>Installing services in RPAs</i>                  |
| <b>Landscaping in RPAs:</b> These operations will be carried out with care, as described in SGN 12.                                                                                                                              | All trees                                                | SGN 12 <i>Landscaping in RPAs</i>                          |
| <b>Removing tree protection:</b> <u>Protection can only be removed when there is no risk of damage to retained trees, as described in SGN 1.</u>                                                                                 | All trees                                                | SGN 1 <i>Monitoring tree protection</i>                    |

The operations summarised in this table, and supplemented by the more detailed explanations set out in the SGNs and the rest of this document, form the arboricultural method statement for this site. The Site Manager will ensure that its details and any agreed amendments are known and understood by all site personnel. Copies of the agreed documents will be available on site. All personnel who could have an impact on trees will be briefed on the specific tree protection requirements as part of the site induction procedures. This requirement will be written into the site management documentation.

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More specifically, we clarify the following:

1. **Installation of new footpath within the RPA of trees T2, T14 and groups G1, G15, G16, G19, G20 and G21:** All new surfacing will be tree-friendly and aligned to the adopted specification of Hampshire County Council Highway Authority and carried out following the guidance in SGNS 7 and 9.
2. **Adjusted boundary fencing:** If new boundary fencing is required along the western perimeter of the footpath the all works will be carried out following the guidance in SGN 10 *Installing structures in RPAs*.
3. **Services:** Any below ground service works would be undertaken out in accordance with the guidance in SGN 11 *Installing services in RPAs*.

If unanticipated issues arise on site not referenced in the above explanations, further guidance on how to manage them can be found in the accompanying Manual.

### 2.5 Construction method statement (heads of terms summary)

A construction method statement is a description of how operations that may affect trees will be carried out to minimise any adverse impact on them. The details of how the site will be managed are construction and contractual matters that can only be finalised once the post-consent detailed planning begins. For that reason, at this stage in the planning process, as explained in clause 5.5.6 of BS 5837, it is normally sufficient to list a heads of terms summary of the issues requiring more detailed consideration once consent is issued. On this site, those issues are likely to include:

1. Preparation of a written site management protocol for dealing with tree issues, to be incorporated into formal site management procedures, and to specifically include induction training for all operatives related to tree protection.
2. The order of work on site, including site preparation, the installation of protective measures, the phasing of successive work locations, the installation of new surfacing, the removal of tree protection, and any necessary reinstatement.
3. Erection and maintenance of tree protection measures.
4. Who will be responsible for protecting the trees on site/proposals for inspecting and supervising the tree protection.
5. How accidents and emergencies involving trees will be managed, including accidental damage to roots and their treatment.
6. Details of facilitation pruning and access into site. What size vehicles will be used under canopies and will large machinery be lifted over trees.
7. The parking arrangements for workers and visitors.
8. A schedule of emergency contact numbers relating to trees.
9. Areas for loading and unloading of materials and storage of materials and plant.
10. Where site facilities will be located and when will they be installed.
11. Pollution control to specifically consider chemical storage and wheel washing facilities in relation to trees.
12. Recycling and storage of waste in relation to trees.
13. Details of earthworks, grading and mounding and removal of spoil, including any planned lowering or raising of ground levels.
14. Precise services locations, including the method of excavation when near trees.
15. Details of upgrading/removing/replacing existing surfacing and areas where this will happen, including detailed and precise cross-sections where no-dig surfacing is to be installed.

## Appendix 1: Background administrative information and data collection

### A1.1 Table 3: Background administrative information

|                                       | Background administrative information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report date &amp; reference</b>    | 27 <sup>th</sup> May 2021; 16030-AA-PB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tree protection plan reference</b> | 16030 -4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Instructing client</b>             | The Trustees of The GHM Jackson 1972 Children's Settlement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Instructions</b>                   | Visit the site, assess the relevant trees, prepare a schedule of their details, describe the impact of the proposal on those trees and identify the tree protection issues in an arboricultural method statement with a tree protection plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Provided documents</b>             | <ul style="list-style-type: none"> <li>• Topographical survey, drawing number 'WYG001-007 Rev A', received by email on 3rd November 2021</li> <li>• Layout drawing number 'A096474-SK02 Rev C, received by email on 17th May 2021</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Report author and credentials</b>  | Phil Brophy is a Chartered Forester ( <a href="http://www.charteredforesters.org">www.charteredforesters.org</a> ), and a Registered Consultant of the Arboricultural Association ( <a href="http://www.trees.org.uk">www.trees.org.uk</a> ), and is fully qualified to undertake the assessments in this report ( <a href="https://www.barrelltreecare.co.uk/who-we-are/">https://www.barrelltreecare.co.uk/who-we-are/</a> ).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Report limitations</b>             | <ul style="list-style-type: none"> <li>• We have not checked if there is any statutory protection on the trees because this can delay the production of the report. If any tree works are proposed before a planning consent is given, then the possible existence of any statutory protection must be checked with the LPA.</li> <li>• This report does not consider ecological or archaeological issues, or any other matter beyond the assessment of the trees.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Technical references</b>           | <p>In preparing the analysis in this report, we considered the guidance and advice in the following technical references:</p> <ul style="list-style-type: none"> <li>• Climate Change Act (2008) <a href="http://www.legislation.gov.uk/ukpga/2008/27/contents">www.legislation.gov.uk/ukpga/2008/27/contents</a></li> <li>• Town and Country Planning Act 1990 <a href="http://www.legislation.gov.uk/ukpga/1990/8/contents">www.legislation.gov.uk/ukpga/1990/8/contents</a></li> <li>• National Planning Policy Framework, published by the MHCLG <a href="http://www.gov.uk/government/publications/national-planning-policy-framework--2">www.gov.uk/government/publications/national-planning-policy-framework--2</a></li> <li>• BS 5837 (2012) <i>Trees in relation to design, demolition and construction – Recommendations</i>, BSI <a href="http://www.shop.bsigroup.com/">www.shop.bsigroup.com/</a></li> <li>• BS 8545 (2014) <i>Trees: from nursery to independence in the landscape – Recommendations</i>, <a href="http://www.shop.bsigroup.com/">www.shop.bsigroup.com/</a></li> <li>• BS 3998 (2010) <i>Tree work – Recommendations</i>, BSI <a href="http://www.shop.bsigroup.com/">www.shop.bsigroup.com/</a></li> <li>• <i>Trees in the Townscape: A Guide for Decision Makers</i>, published by the Trees &amp; Design Action Group <a href="http://www.tdag.org.uk/">http://www.tdag.org.uk/</a></li> <li>• <i>Trees in Hard Landscapes: A Guide for Delivery</i>, published by the Trees &amp; Design Action Group <a href="http://www.tdag.org.uk/">www.tdag.org.uk/</a></li> <li>• National Joint Utilities Group (2007) Volume 4, Issue 2: <i>Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees</i> <a href="http://www.njug.org.uk/publications/">www.njug.org.uk/publications/</a></li> </ul> |

## Appendix 1: Background administrative information and data collection

A1.2 Table 4: Data collection

|                                                                                     | Data collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date of site visit</b>                                                           | 17 <sup>th</sup> November 2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>People present during site visit</b>                                             | Phillip Brophy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Weather &amp; visibility</b>                                                     | Dull and damp, with average visibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Limitations to observations</b>                                                  | <ul style="list-style-type: none"> <li>The inspection of the trees for the purposes of assessing their condition and work requirements was made on the basis that they will be annually inspected in the future to identify any changes in condition and review the original recommendations. For these reasons, the tree assessment advice only remains valid for one year from the date that the trees were last inspected.</li> <li>All observations were of a preliminary nature and did not involve any climbing or detailed investigation beyond what was visible from accessible points at ground level.</li> <li>Observations of trees outside the site boundaries are confined to what was visible from within the site.</li> <li>All dimensions were estimated unless otherwise indicated.</li> </ul>                                                                                                                                                                                                                                                                      |
| <b>Tree Preservation Orders (TPOs), Conservation Areas, and tree categorisation</b> | TPOs cannot always be reliably interpreted from the documentation to identify which trees are protected, especially as time passes and site conditions change from when they were originally made. It is common for TPO plans to be inaccurate and schedules often become out of date as trees die or are removed. Frequently, trees deteriorate and, although they may be technically protected by the TPO, are in such poor condition or causing such unreasonable inconvenience that their suitability for retention becomes questionable. In a planning context, if poor trees are assessed as unsuitable for retention, then it would be inappropriate to show them as a material constraint in development planning. For these reasons, although TPOs do need to be considered, they do not form the primary basis for tree categorisation. Poor quality trees assessed as not worthy of retention will be shown as such, irrespective of whether they are protected or not. Similarly, good quality trees that are not protected will still be shown as material constraints. |
| <b>Tree location and numbering</b>                                                  | Each tree and group was inspected, and the numbering scheme is shown on the tree protection plan. Where pertinent trees were found on site that were not included on the provided plan, their approximate positions are denoted on the tree protection plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Recording of tree data</b>                                                       | For each identified tree, hedge, and group, the information collected was recorded on the tree schedule in Appendix 2 and the tree protection plan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Compliance of data collection with BS 5837</b>                                   | The data collection is fully compliant with the advice in subsection 4.4.2 of BS 5837. When collecting this information, specific consideration was given to any low branches that may influence future use, age class, physiological condition, structural condition, and remaining contribution. Where appropriate, crown spreads were also noted where they differed from those shown on the provided land survey.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Calculation of RPAs</b>                                                          | Following the recommendations in Table D1 of BS 5837, the diameter of each tree was rounded up to the next 2.5 cm increment, with the radius of a nominal circle and the resultant RPA taken directly from that table. This information is listed for each tree in the tree schedule in Appendix 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



## Appendix 2: Tree schedule and explanatory notes

**NOTE:** Colour annotation is A & B trees with green background; C & U trees with blue background; trees to be removed in red text.

| Tree No            | Species                             | Height (m) | Diameter (cm) @ 1.5m | Maturity | Low Branches | Category | Notes                                                                    | Tree Works                                                      | RPA radius (m) | RPA area (m2) |
|--------------------|-------------------------------------|------------|----------------------|----------|--------------|----------|--------------------------------------------------------------------------|-----------------------------------------------------------------|----------------|---------------|
| All retained trees |                                     |            |                      |          |              |          |                                                                          | Carry out safety check and lift over site to 3-4m as necessary. |                |               |
| G1                 | Oak                                 | 17         | 47.5                 | Maturing | -            | B        | Combined canopy form                                                     | -                                                               | 5.7            | 102           |
| T2                 | Oak                                 | 15         | 40                   | Maturing | -            | B        | -                                                                        | -                                                               | 4.8            | 72            |
| T3                 | Ash                                 | 18         | 42.5                 | Maturing | -            | C        | Poor vitality, twin stem nature                                          | Fell                                                            | 5.1            | 82            |
| T4                 | Ash                                 | 18         | 42.5                 | Mature   | -            | C        | Poor vitality, tag number 5675                                           | Fell                                                            | 5.1            | 82            |
| T5                 | Oak                                 | 17         | 77.5                 | Maturing | -            | A        | Ivy clad                                                                 | Fell                                                            | 9.3            | 272           |
| G6                 | Ash                                 | 14         | 30                   | Maturing | -            | C        | Poor quality, low vitality                                               | Fell                                                            | 3.6            | 41            |
| G7                 | Ash                                 | 17         | 55                   | Mature   | -            | U        | Poor form and vitality                                                   | -                                                               | 6.6            | 137           |
| G8                 | Ash                                 | 11         | 40                   | Maturing | -            | U        | Appears to be regeneration grown from stumps and some self-sown saplings | Fell selected parts                                             | 4.8            | 72            |
| G9                 | Blackthorn, hazel                   | 5          | 30                   | Maturing | -            | C        | -                                                                        | -                                                               | 3.6            | 41            |
| T10                | Alder                               | 7          | 27.5                 | Maturing | -            | C        | -                                                                        | -                                                               | 3.3            | 34            |
| G11                | Goat willow, birch, oak, apple, ash | 10         | 35                   | Maturing | -            | C        | Screen value                                                             | -                                                               | 4.2            | 55            |
| T12                | Plum                                | 9          | 40                   | Mature   | -            | C        | -                                                                        | Fell                                                            | 4.8            | 72            |
| G13                | Ash                                 | 17         | 40                   | Maturing | -            | U        | Declining condition                                                      | Fell                                                            | 4.8            | 72            |
| T14                | Oak                                 | 18         | 52.5                 | Maturing | -            | B        | -                                                                        | -                                                               | 6.3            | 125           |
| G15                | Ash, larch                          | 18         | 37.5                 | Maturing | -            | C        | Some dead individuals within group                                       | -                                                               | 4.5            | 64            |
| G16                | Ash, hazel                          | 16         | 37.5                 | Maturing | -            | C        | Hazel understorey, screen value                                          | -                                                               | 4.5            | 64            |
| G17                | Ash                                 | 18         | 40                   | Maturing | -            | C        | Very drawn up canopy form                                                | Fell                                                            | 4.8            | 72            |
| T18                | Ash                                 | 14         | 20                   | Young    | -            | U        | Leans towards carriageway                                                | Fell                                                            | 2.4            | 18            |
| G19                | Oak                                 | 20         | 50                   | Maturing | -            | B        | -                                                                        | -                                                               | 6.0            | 113           |



## Appendix 2: Tree schedule and explanatory notes

| Tree No | Species    | Height (m) | Diameter (cm) @ 1.5m | Maturity | Low Branches | Category | Notes               | Tree Works | RPA radius (m) | RPA area (m2) |
|---------|------------|------------|----------------------|----------|--------------|----------|---------------------|------------|----------------|---------------|
| G20     | Ash        | 20         | 40                   | Maturing | -            | C        | Declining condition | -          | 4.8            | 72            |
| G21     | Ash, larch | 20         | 40                   | Maturing | -            | C        | Ivy clad            | -          | 4.8            | 72            |

## Appendix 2: Tree schedule and explanatory notes

### Explanatory Notes

- **Abbreviations:**

G: Group  
T: Tree

- **Botanical tree names:**

|             |                             |
|-------------|-----------------------------|
| Alder       | : <i>Alnus glutinosa</i>    |
| Apple       | : <i>Malus</i> sp           |
| Ash         | : <i>Fraxinus excelsior</i> |
| Birch       | : <i>Betula pendula</i>     |
| Blackthorn  | : <i>Prunus spinosa</i>     |
| Goat willow | : <i>Salix caprea</i>       |
| Hazel       | : <i>Corylus avellana</i>   |
| Larch       | : <i>Larix</i> sp           |
| Oak         | : <i>Quercus robur</i>      |
| Plum        | : <i>Prunus</i> sp          |

- **BS 5837 (2012) compliance:** All data has been collected based on the recommendations set out in subsection 4.4 of BS 5837.
- **Tree inspections and site limitations:** Each tree was subjected to a quick visual check level of inspection. Where there is restricted access to the base of a tree, its attributes are assessed from the nearest point of access. Climbing inspections are not carried out during this level of inspection and, if heavy ivy is present, tree condition is assessed from what can be seen from the ground. A separate note is recorded if further investigation may be required to clarify its status.
- **Crown spreads:** Where crown spread dimensions on the land survey are checked on site and found to be reliable, they are used as shown on the original survey plan. Where they are found to be unreliable, they are estimated to the four compass points, listed in the schedule, and shown on our plan. All crown spreads are estimated to the viable branch extent, i.e., the spread that would be sustainable if the tree was under a normal garden management pruning regime.
- **Dimensions:** All dimensions are estimated unless otherwise indicated with an asterisk (\*) after the figure.
- **Species:** Species identification is based on visual observations. Where there is some doubt over tree identity, sp is noted after the genus name to indicate that the species cannot be reliably identified at the time of the survey. Where there is more than one species in a group, only the most frequent are noted and not all the species present may be listed.
- **Height:** Height is estimated to provide a broad indication of the size of the tree.
- **Trunk diameter:** Trunk diameter is estimated or measured (with a diameter tape), at the discretion of the consultant, and is normally rounded up and recorded in 2.5 cm increments as advised in BS 5837 Table D1. Estimates may be made where access is restricted, direct measurement is prevented because of ivy on the trunk, or the tree is assessed as low quality. The point of measurement and the adjustments for stem variations are as advised in Figure C1 of BS 5837. Individual diameters for multiple stems are recorded in the notes, with the calculated cumulative diameter recorded in the diameter column.
- **Maturity:** In planning context, maturity provides a simplistic indication of a tree's ability to cope with change and its potential for further growth. For the purposes of this report, young indicates a potential to significantly increase in size and a high ability to cope with change, maturing indicates some potential to increase in size and a medium ability to cope with change, and mature indicates little potential to increase in size and limited ability to cope with change.
- **Low branches:** Any low branches that would not be feasible for removal during normal management and should be considered as a design constraint are noted here and explained in the notes.
- **Category:** Our assessment automatically considered tree physiological/structural condition (BS 5837, 4.4.2.5h), and so these are not listed separately in the schedule. Additionally, the category accounts for the remaining contribution (BS 5837, 4.4.2.5i) as greater than 40 years for A trees, greater than 20 years for B trees, at least 10 years for C trees and less than 10 years for U trees, so this is also not listed separately in the schedule. Category A, B and C trees are automatically listed as sub-category 1 unless otherwise stated.

## Appendix 2: Tree schedule and explanatory notes

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- **Notes:** Only relevant features relating to physiological or structural condition and low branches that may help clarify the categorisation are recorded. If there are no notes, then the presumption should be that no relevant features were observed.
- **Tree works:** The recommended tree works are based on the quick visual check level of inspection and only intended to address significant hazards identified during that inspection. The following points should also be considered before carrying out any works:
  1. **Reporting during work operations:** In the context of the preliminary nature of the tree inspection, any defects that may affect tree safety discovered by the contractor when carrying out the work recommendations should be reported to the supervising officer. Modification to the schedule of works may be required because of these reports. The contractor should be specifically instructed on this point.
  2. **Implementation of works:** All tree works should be carried out to BS 3998 *Recommendations for Tree Work* as modified by more recent research. It is advisable to select a contractor from the local authority list and preferably one approved by the Arboricultural Association. Their Register of Contractors is available free from The Malthouse, Stroud Green, Standish, Stonehouse, Gloucestershire GL10 3DL; phone 01242 522152; website [www.trees.org.uk](http://www.trees.org.uk).
  3. **Statutory wildlife obligations:** The Wildlife and Countryside Act 1981 as amended by the Countryside and Rights of Way Act 2000 provides statutory protection to birds, bats and other species that inhabit trees. All tree work operations are covered by these provisions and advice from an ecologist must be obtained before undertaking any works that might constitute an offence.
  4. **Stumps:** Stumps to be removed within the RPAs of retained trees should be ground out with a stump grinder to minimise any disturbance unless otherwise authorised by the supervising officer.
- **Future tree safety inspections:** Due to the time that may elapse between the original survey and the start of development, all trees should be re-inspected as part of the standard risk management process before any works start on site. Our assessment of the trees was carried out on the basis that a re-inspection would be carried out within a year of the assessment visit and our advice on tree condition must be reviewed annually from the date of that visit.

### Appendix 3: QR Codes for SGNs (Scan with reader to download)

|                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|    |    |    |
| <i>SGN 1 Monitoring tree protection</i>                                             | <i>SGN 2 Fencing protected trees</i>                                                | <i>SGN 3 Ground protection</i>                                                        |
|    |    |    |
| <i>SGN 4 Pollution control</i>                                                      | <i>SGN 5 Site cranes &amp; piling rigs</i>                                          | <i>SGN 6 Height restrictions</i>                                                      |
|  |  |  |
| <i>SGN 7 Excavating in RPAs</i>                                                     | <i>SGN 8 Removing surfacing and structures in RPAs</i>                              | <i>SGN 9 Installing/upgrading surfacing in RPAs</i>                                   |
|  |  |  |
| <i>SGN 10 Installing structures in RPAs</i>                                         | <i>SGN 11 Installing services in RPAs</i>                                           | <i>SGN 12 Landscaping in RPAs</i>                                                     |



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