

# The Landings, Ford Airfield

Phase RM1(North)

Arboricultural Impact  
Appraisal and Method  
Statement  
RM1\_09.B  
December 2024



## Vistry Group





# Arboricultural impact appraisal and method statement

Reserved Matters, Phase 1 North, Ford Airfield, Yapton, West Sussex

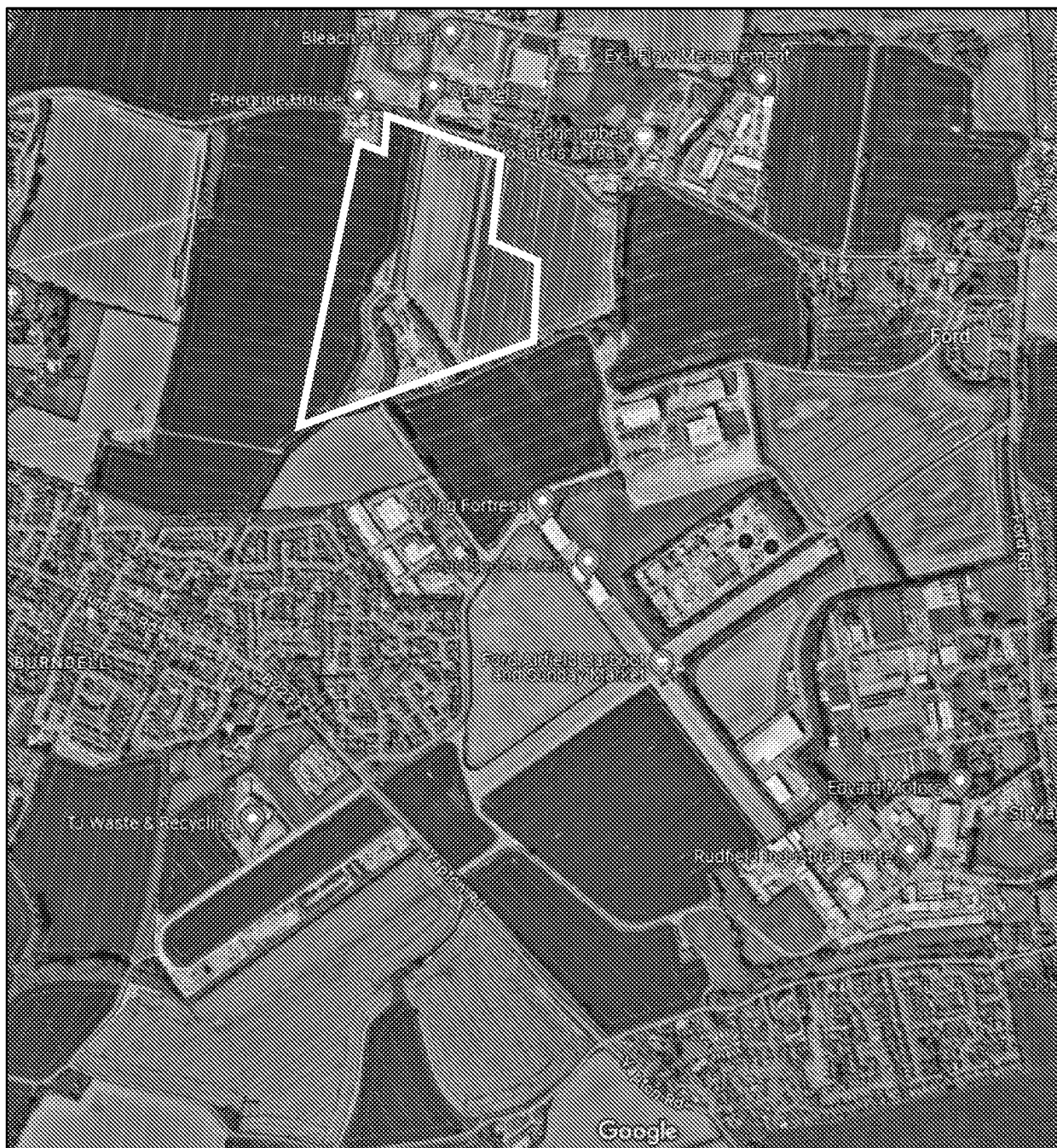
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20<sup>th</sup> December 2024  
24053-AIA5-RM1 North-CA

## Site location and report purpose

### Site location



This aerial image is supplied courtesy of Google. The yellow line shows the approximate Phase 1 North site boundary and is illustrative only.

### Report purpose

This arboricultural impact appraisal 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.



## Site location and report purpose

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More specifically, the development proposal is for the approval of reserved matters (layout, scale, appearance and landscaping) following outline consent F/4/20/OUT for phase RM1 (North), for the erection of 340 no. residential dwellings plus associated roads, infrastructure, parking, landscaping, open space & play areas, and associated works.

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 impact appraisal** (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 Site Guidance Notes (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 SGNs covering the relevant issues.

## 1 Arboricultural impact assessment

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

From our review of the constraints and the proposed Reserved Matters Phase 1 North (RM1) 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>Trees to be removed specifically for the RM1 layout</b>	None	G1002 (part), G1006, G1041	H1003, G1004, G1005
<b>Prune</b>	None	None	None
<b>Protect using special precautions</b> <small>See Notes below</small>	None	None	None
<b>Post development pressure to fell</b>	None	None	None

T = Tree; H = Hedge; G = Group

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

### 1.2 The impact of tree removals within the RM1 red line boundary on local character

#### **Trees G1002 (part), H1103, G1004, G1005, G1006 and G1041**

Most of the significant boundary tree cover is being retained, and none of the lost trees are prominent in the wider setting. Their loss will be noticeable in the immediate vicinity but the comprehensive new landscaping proposals will rapidly mitigate those losses and limit the impact on local character to the short term. There will be no adverse impact to local character in the wider setting in the long term.

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

Other than pruning for normal maintenance, 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

All the RPAs of retained trees will be protected and there will be no encroachment during the development activity.

### 1.5 Post development considerations

Our assessment is that there will be no adverse impacts through future pressure to fell or severely prune retained trees once the development is completed and occupied.

### 1.6 New tree planting to enhance local character

To supplement retained trees and enhance local character, the project landscape architect has specified a comprehensive new tree planting scheme. We understand that the final selection of species, size and location are flexible and open to amendment, as appropriate. All new trees will



## 1 Arboricultural impact assessment

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be specified and planted in accordance with the recommendations in BS 8545 (2014) *Trees: from nursery to independence in the landscape –Recommendations*. These new trees would have the potential to reach a significant height without excessive inconvenience and be sustainable into the long term, significantly improving the potential of the site to contribute to local character.

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

Retained trees may be adversely affected by the installation of new services and / or the upgrading of existing services if that work encroaches into their RPAs. However, it is often difficult to know the detail of service locations until the construction is in progress, and sometimes encroachment into RPAs is unavoidable. Where possible, the default approach must be to use any existing service runs 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*.

### 1.8 Summary of impact on local character

Most of the significant boundary tree cover is being retained, and none of the lost trees are prominent as skyline features in the wider setting. There is space for tree planting and a landscaping scheme will be feasible in response to an appropriate condition. The construction activity has the potential to adversely affect retained trees if proper protective measures are not taken. However, if adequate precautions to protect the retained trees are specified and implemented through the arboricultural method statement included in this report, the development proposal will have no detrimental impact on the contribution of trees to local character.

For these reasons, we conclude that the proposed development would not cause an unacceptable or adverse impact on the character and appearance of the area from a tree perspective.

## 2 Arboricultural method statement

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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:

- SGN 1 *Monitoring tree protection* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-1-Monitoring-V3.pdf>)
- SGN 2 *Fencing protected trees* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-2-Fencing-V3.pdf>)
- SGN 3 *Ground protection* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-3-Ground-Protection-V3.pdf>)
- SGN 4 *Pollution control* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-4-Pollution-V3.pdf>)
- SGN 5 *Site cranes & piling rigs* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-5-Cranes-Rigs-V3.pdf>)
- SGN 6 *Height restrictions* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-6-Height-V3.pdf>)
- SGN 7 *Excavating in RPAs* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-7-Excavation-in-RPAs-V3.pdf>)
- SGN 8 *Removing surfacing and structures in RPAs* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-8-Removing-Surfaces-V3.pdf>)
- SGN 9 *Installing/upgrading surfacing in RPAs* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-9-Installing-Surfacing-V3.pdf>)
- SGN 10 *Installing structures in RPAs* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-10-Structures-V3.pdf>)
- SGN 11 *Installing services in RPAs* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-11-Services-V3.pdf>)
- SGN 12 *Landscaping in RPAs* (<https://www.barrelltreecare.co.uk/assets/Uploads/SGN-12-Landscaping-V3.pdf>)

**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 fencing location is shown by the heavy black dashed lines, with the construction exclusion zone behind as the lighter black diagonal hatch. Precautionary areas 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

## 2 Arboricultural method statement

- 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.

### 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 retained 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: G1002 (part), H1003, G1004, G1005, G1006 and G1041	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 retained 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 retained 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 retained trees	SGN 1 <i>Monitoring tree protection</i>
<b>Installing services in RPAs:</b> These operations will be carried out as described in SGN 11.	All retained trees	SGN 11 <i>Installing services in RPAs</i>
<b>Landscaping in RPAs:</b> These operations will be carried out as described in SGN 12.	All retained 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 retained 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.

If unanticipated issues arise on site requiring work approved by the LPA, but not referenced in the above explanations, for example the unexpected need to install services in RPAs, or landscaping in RPAs, further guidance on how to manage them can be found in the accompanying Manual.



## 2 Arboricultural method statement

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### 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 demolition, site clearance, the installation of protective measures, the phasing of successive work locations, 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.
5. Detailed proposals for inspecting and supervising the tree protection.
6. How accidents and emergencies involving trees will be managed, including accidental damage to roots and their treatment.
7. Details of facilitation pruning and access into site. What size vehicles will be used under canopies and will large machinery be lifted over trees.
8. The parking arrangements for workers and visitors.
9. A schedule of emergency contact numbers relating to trees.
10. Areas for loading and unloading of materials and storage of materials and plant.
11. Where site facilities will be located and when will they be installed.
12. How machinery and equipment (such as excavators, cranes and their loads, concrete pumps and piling rigs) will enter, move on, work on, and leave the site.
13. Pollution control to specifically consider chemical storage and wheel washing facilities in relation to trees.
14. Recycling and storage of waste in relation to trees.
15. Details of earthworks, grading and mounding and removal of spoil, including any planned lowering or raising of ground levels.
16. Precise services locations, including the method of excavation when near trees.
17. How post-construction impacts through compaction to soil near trees will be ameliorated.

## Appendix 1: Background administrative information and data collection

A1.1 Table 3: Background administrative information

	Background administrative information
<b>Report date &amp; reference</b>	20 <sup>th</sup> December 2024; 24053-AIA5-RM1 North-CA
<b>Tree protection plan reference</b>	24053-15-RM1 North
<b>Instructing client</b>	Vistry Homes Ltd
<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 reference 32809-R1, received by email on 1<sup>st</sup> May 2024</li> <li>Layout drawing reference 180641_TOR-RM1-MP-P004 Rev A, received by email on 13<sup>th</sup> December 2024</li> </ul>
<b>Report author and credentials</b>	Chris Allder is a Chartered Forester ( <a href="http://www.charteredforesters.org">www.charteredforesters.org</a> ), and a Fellow and 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>	This report does not consider ecological or archaeological issues, or any other matter beyond the assessment of the trees.
<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>, <a href="https://shop.bsigroup.com/ProductDetail?pid=000000000030213642">https://shop.bsigroup.com/ProductDetail?pid=000000000030213642</a></li> <li>BS 8545 (2014) <i>Trees: from nursery to independence in the landscape – Recommendations</i>, <a href="https://shop.bsigroup.com/ProductDetail?pid=000000000030219672">https://shop.bsigroup.com/ProductDetail?pid=000000000030219672</a></li> <li>BS 3998 (2010) <i>Tree work – Recommendations</i>, BSI <a href="https://shop.bsigroup.com/ProductDetail?pid=000000000030089960">https://shop.bsigroup.com/ProductDetail?pid=000000000030089960</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://streetworks.org.uk/wp-content/uploads/2016/09/V4-Trees-Issue-2-16-11-2007.pdf">http://streetworks.org.uk/wp-content/uploads/2016/09/V4-Trees-Issue-2-16-11-2007.pdf</a></li> </ul>
<b>BS 5837 compliance</b>	<p>This report is BS 5837 compliant.</p> <p><i>BS 5837 (2012) Trees in relation to design, demolition and construction – Recommendations</i> is 10 years old. Since its publication, there have been significant advancements in technology and thinking, informed by a decade of practical experience of putting principles into practice. In the document</p>

## Appendix 1: Background administrative information and data collection

Background administrative information
<p>Foreword, it states: “Any user claiming compliance with this British Standard is expected to be able to justify any course of action that deviates from its recommendations”. This statement provides the opportunity for practitioners to claim compliance while moving best practice forward in the context of emerging technology, ideas, and experience. Although much of the BS 5837 content remains relevant and useful for managing trees in a planning context, there are now several aspects that are dated, and it is no longer appropriate to rigidly apply them to current planning submissions.</p> <p>Barrell Tree Consultancy (BTC) specialises in managing trees on development sites and retains a complete paper archive of every project it has carried out since starting business in 1980, with a digital data base listing those from 2004. In the decade since BS 5837 was published (April 2012), interrogation of the BTC archive confirms that we have been involved in a total of 3,884 projects, of which we estimate that about 3,845 were development related, and it is that depth of experience that informs the following statements on BS 5837 compliance. All BTC reports are prepared to be BS 5837 compliant and, although explanations are not explicitly required to claim compliance, the justifications for any deviations from its recommendations are set out below, referenced by the BS clause number:</p> <ol style="list-style-type: none"> <li><b>4.3 – soil assessment:</b> All BTC consultants have basic training relating to soil assessment and regularly deal with soil issues during their daily work, but none are soil specialists and BTC has no specialist investigation equipment for carrying out the type of soil assessment listed in this BS clause. In a modern development context, it is not for arboricultural consultants to demand or carry out professional soil investigations, and BTC does not do that. However, we will review soil information provided from appropriate specialists, if available, and incorporate that into our assessments.</li> <li><b>4.4.2.1 – tagging trees:</b> In some instances, it is not appropriate to tag trees, e.g., sensitive species, trees that are easily identified without a tag, inadequate access, project confidentiality, client instructions to the contrary, etc, and so although there will be a presumption to tag trees where feasible and appropriate, that may not be possible or necessary in every instance.</li> <li><b>4.4.2.5 e) – branch spread:</b> BTC only work from provided topographical surveys and where the branch spreads are shown correctly on those surveys, there is not normally any practical need to regurgitate that information in a schedule. Additionally, in closely spaced groups or in treacherous terrain, it is sometimes not safe or realistically possible to collect this data for every tree. For these reasons, BTC normally only collects crown spread data to the four cardinal points where the provided topographical survey is assessed as unreliable, or where a full canopy cover assessment is requested, and it is both safe and practically feasible to do so.</li> <li><b>4.4.2.5 f) – branch and canopy height:</b> In the absence of any definition of ‘canopy’ or ‘significant’ relating to branches in the <i>Terms and definitions</i> clause, and the lack of any practical guidance for reliably assessing these characteristics, BTC has adopted the following default</li> </ol>

## Appendix 1: Background administrative information and data collection

	Background administrative information
	<p>position. We will only identify the height and orientation of branches where they have the potential to be damaged by vehicular access, i.e., below a height of 6 m, or where their removal would be beyond what the tree could tolerate during normal maintenance management, i.e., the branch removal would significantly adversely affect the health of the tree and potentially compromise its current safe useful life expectancy.</p> <ol style="list-style-type: none"> <li>5. <b>4.4.2.5 g) – life stage:</b> BS 5387 offers examples, but no definitions of what those examples mean. In the absence of a specific BS 5837 recommendation, BTC has reviewed the concept of maturity in a planning context, taking maturity to be a simplistic indication of a tree's ability to cope with change and its potential for further growth. For the purposes of development site advice, BTC conceptualises useful life-stage descriptions as; <b>young</b> indicating a potential to significantly increase in size and a high ability to cope with change; <b>maturing</b> indicating some potential to increase in size and a medium ability to cope with change; and, <b>mature</b> indicating little potential to increase in size and low ability to cope with change.</li> <li>6. <b>4.4.2.5 i) – estimated remaining contribution:</b> BTC accepts the category recommendations in Table 1 on the remaining contribution in the context of category, i.e., 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, and so this is also not listed separately in the schedule.</li> <li>7. <b>4.5.4 – subcategories:</b> BTC adopts a presumption that all trees are subcategory 1 (Mainly arboricultural qualities) unless noted to the contrary, and so for conciseness and to avoid complication, the subcategory is not listed in the schedule unless it is 2 or 3.</li> <li>8. <b>Table 2 and 4.4.2 – colour coding:</b> The colours included in this table take no account of the inability of some people to distinguish between red and green, which is not helpful to people suffering with this form of colour blindness. To address this discriminatory failing with the BS approach, BTC has adopted a more intuitively obvious regime of green and blue colours, which can be easily distinguished by colour-blind people, with the best category A and B trees (High and moderate quality) being green, and the lower category C and U trees (Low quality and unsuitable for retention) as blue. The differentiation between the two categories in each colour is provided by symbols rather than using different colours. This is clearly shown on the plan key, so there can be no doubt about what category a tree is, which is an intuitive approach to avoiding discrimination of colour-blind people. In any event, the tree category is now included next to each number, so there can be no question about the category and BS 5837 compliance.</li> <li>9. <b>5.2.1 – RPAs:</b> This clause recommends that the RPAs for category A, B, and C trees are shown as the existing constraints on the plans used in the "<i>concept and design</i>", i.e., the tree constraints plan. However, the BS does not explicitly recommend that all those constraints are shown on the tree protection plan, which is logical because only category A (High</li> </ol>



## Appendix 1: Background administrative information and data collection

Background administrative information	
	<p>quality), and category B (Moderate quality) trees can realistically be material constraints, with category C (Low quality) and category U (Unsuitable for retention) trees obviously unsuitable to be determinative of the final design. Although it is not a BS recommendation to include the RPAs of category C trees on the tree protection plan because they cannot be material constraints, it is sometimes helpful as an informative to be able to see them if category C are planned for retention to assess if that is feasible. For that reason, BTC tree protection plans show the RPAs of category C trees as a thin grey line rather than the thicker grey line denoting category A and B RPAs.</p> <p>10. <b>5.2.2 Notes 1 and 2 – shading:</b> These notes offer general information on how shading can be assessed, which is presented in italics. The implications of the convention of using italics within the BS is set out in the Foreword as: <i>“Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.”</i> Our interpretation of that statement is that the application of Notes 1 and 2 is not part of the BS recommendations, and is not necessary for BS 5837 compliance. In our experience, the assessment of daylight issues is a specialist discipline and way beyond our expertise as arboriculturists, and so we would defer to an appropriate specialist, where any detailed guidance is required.</p>

A1.2 Table 4: Data collection

Data collection	
<b>Date of site visit</b>	7 <sup>th</sup> and 10 <sup>th</sup> May 2024
<b>People present during site visit</b>	Chris Alder accompanied by Clare Rutherford
<b>Weather &amp; visibility</b>	Clear, still and dry with good 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>Statutory protection through Tree Preservation Orders and Conservation Areas</b>	We have checked the Arun District Council online mapping system, and there are no TPOs within the site boundary. None of the trees are within a Conservation Area, and there are no ancient woodlands designated on the site.
<b>Tree location and numbering</b>	Each tree, hedge, woodland, and group was inspected, and the numbering scheme is shown on the tree protection plan. All trees were tagged with a metal numbered tag stapled to their trunks. Where significant trees were found on



## Appendix 1: Background administrative information and data collection

	Data collection
	site that were not included on the provided land survey, their approximate positions are illustrated as a brown dot on the tree protection plan.
<b>Crown spreads</b>	Crown radial spreads were estimated to the nearest metre and represent our assessment of the viable crown dimensions that would be retainable after normal management. For clarification, the viable crown spread is the size of the main body of the crown, and not necessarily the furthest extent of odd branches that extend out beyond this core of the crown.
<b>Recording of tree data</b>	For each identified tree, hedge, woodland, and group the information collected was recorded on the tree schedule in Appendix 2 and the tree protection plan.
<b>Calculation of RPAs</b>	The RPAs were calculated as recommended in BS 5837, and the nominal RPA radius for each tree is listed in the tree schedule in Appendix 2. Where appropriate, RPAs for trees on the site were adjusted as recommended in BS 5837 and illustrated on the plan.

## 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) @ 1.5 m	Maturity	Low Branches	Category	Notes	Tree Works	RPA Radius (m)
All retained trees & hedges								Carry out safety check and lift over site to 3-4 m as necessary.	
H 1001	Cherry, hawthorn, field maple, hazel	2	10	Maturing		C	Clipped agricultural hedge		1.2
G 1002	Lime, sweet chestnut, ash, cherry, goat willow, field maple, oak, beech	12	25*	Maturing		B	Not shown on original topo, location approximate. Amenity belt planting, ash in decline, lifted over road.	Fell Part	3
H 1003	Hawthorn, field maple	4	15	Mature		C	Not shown on original topo, location approximate. Clipped agricultural hedge.	Fell	1.8
G 1004	Cherry, sweet chestnut, oak, ash, field maple	14	32.5*	Maturing		C	Not shown on original topo, location approximate. Small group, in decline, poor form, pressured by adjacent building.	Fell	3.84
G 1005	Cherry, field maple, oak, ash, sweet chestnut	14	35*	Maturing		C	Not shown on original topo, location approximate. Poor quality trees, in decline due to activity.	Fell	4.2
G 1006	Cherry, ash, field maple, goat willow, elder, lime, oak, sweet chestnut	14	30*	Maturing		B	Not shown on original topo, location approximate. Amenity planting, dense.	Fell	3.36
G 1007	Leyland cypress	16	35	Maturing		C	Not shown on original topo, location approximate. Overgrown linear group, multiple branch failures.		4.2

## Appendix 2: Tree schedule and explanatory notes

Tree No	Species	Height (m)	Diameter (cm) @ 1.5 m	Maturity	Low Branches	Category	Notes	Tree Works	RPA Radius (m)
G 1014	Leyland cypress	15	45	Maturing		C	Not shown on original topo, location approximate. Overgrown linear group, multiple failures.	Fell	5.4
T 1015	Horse chestnut	10	27.5*	Maturing		C	Twin stem at 1 m, included bark union, suppressed		3.3
T 1016	Ash	14	45*	Mature		C	Ash dieback, poor		5.4
T 1017	Ash	10	20*	Maturing		C	Not shown on original topo, location approximate. Small and suppressed.		2.4
T 1018	Sweet chestnut	12	42.5*	Maturing		B	Slightly suppressed		5.1
T 1019	Sweet chestnut	9	30*	Maturing		C	Not shown on original topo, location approximate. Small tree.		3.6
T 1020	Norway spruce	10	20*	Maturing		C	Not shown on original topo, location approximate. Small tree.		2.4
T 1021	Horse chestnut	6	27.5*	Maturing		C	Not shown on original topo, location approximate. Multiple stems bleeding canker.		3.3
T 1022	Beech	17	72.5	Mature		B	Multiple stems from base, dense crown, bund within RPA		8.7
T 1023	Beech	17	42.5*	Mature		B	Dense crown, multiple stems, bund within RPA		5.1
T 1024	Beech	16	55*	Mature		B	Dense crown, multiple stems from base, bund within RPA		6.6
T 1025	Beech	16	72.5*	Mature		B	Multiple stems, ivy clad, bund within RPA	Fell	8.7
T 1026	Beech	18	70*	Mature		B	Twin stem, ascending crown, bund within RPA	Fell	8.4
T 1027	Beech	17	57.5*	Mature		B	Multiple stems, tight forks	Fell	6.9
T 1028	Beech	19	62.5*	Mature		B	Multiple stems, ivy clad, hard surface to north	Fell	7.5



## Appendix 2: Tree schedule and explanatory notes

Tree No	Species	Height (m)	Diameter (cm) @ 1.5 m	Maturity	Low Branches	Category	Notes	Tree Works	RPA Radius (m)
T 1029	Beech	19	62.5*	Mature		B	Dense, ascending multiple stems, ivy clad and dense undergrowth at base, hard surface to north	Fell	7.5
T 1030	Beech	19	85*	Mature		B	Multiple stems from base, tight forks, hard surface to north		10.2
T 1031	Beech	19	47.5*	Mature		B	Dense upright crown, twin stem from base		5.7
T 1032	Ash	15	45*	Mature		C	Ash dieback		5.4
T 1033	Birch	8	30*	Maturing		C	Not shown on original topo, location approximate. Suppressed twin stem, poor.		3.6
T 1034	Ash	18	57.5*	Mature		C	Twin stem, ivy clad, ash dieback		6.9
T 1035	Horse chestnut	5	20*	Maturing		C	Not shown on original topo, location approximate. Small, suppressed.		2.4
T 1036	Sycamore	13	42.5*	Maturing		C	Twin stem, suppressed		5.1
T 1037	Black poplar	25	85*	Mature		B	Ivy clad, crown break at 5 m		10.2
T 1038	Ash	15	60*	Mature		C	Ash dieback present		7.2
T 1039	Beech	16	32.5*	Mature		C	Upright, suppressed		3.9
T 1040	Sycamore	16	67.5*	Mature		B	Multiple stems, one sided crown		8.1
G 1041	Cherry, ash, field maple, sycamore	12	25*	Maturing		B	Not shown on original topo, location approximate. Amenity belt, ash dieback, dense.	Fell	3
T 1042	Ash	15	45*	Mature		C	Ivy clad, ash dieback		5.4
T 1043	Beech	18	70*	Mature		B	Slight lean to east, dense upright crown		8.4
T 1044	Beech	14	42.5*	Maturing		C	Suppressed		5.1
T 1045	Sycamore	16	42.5*	Maturing		C	One sided crown, ivy clad		5.1



## Appendix 2: Tree schedule and explanatory notes

Tree No	Species	Height (m)	Diameter (cm) @ 1.5 m	Maturity	Low Branches	Category	Notes	Tree Works	RPA Radius (m)
T 1046	Beech	17	80*	Mature		A			9.6
T 1047	Beech	19	85*	Mature		B	Fork at 1.5 m, dense crown		10.2
T 1048	Ash	16	65*	Mature		C	Ash dieback		7.8
T 1049	Beech	18	57.5*	Mature		B	Lean to east, dense upright crown		6.9
T 1050	Beech	18	62.5*	Mature		B	Dense crown from 2 m, ivy clad		7.5
T 1051	Sycamore	12	55*	Mature		C	Poor, ivy choked, in decline		6.6
T 1052	Beech	16	75*	Mature		B	Upright form, dense crown		9
T 1053	Ash	14	55*	Mature		C	Ash dieback		6.6
T 1054	Beech	17	67.5*	Mature		B	Dense crown and stems from base		8.1
T 1055	Beech	18	70*	Mature		B	Multiple stems, dense crown	Fell	8.4

## Appendix 2: Tree schedule and explanatory notes

### Explanatory Notes

- **Abbreviations:**

G: Group  
H: Hedge  
T: Tree

- **Botanical tree names:**

Ash	: <i>Fraxinus excelsior</i>
Beech	: <i>Fagus sylvatica</i>
Black poplar	: <i>Populus nigra</i>
Cherry	: <i>Prunus</i> sp
Elder	: <i>Sambucus nigra</i>
Field maple	: <i>Acer campestre</i>
Goat willow	: <i>Salix caprea</i>
Hawthorn	: <i>Crataegus monogyna</i>
Hazel	: <i>Corylus avellana</i>
Holly	: <i>Ilex aquifolium</i>
Horse chestnut	: <i>Aesculus hippocastanum</i>
Leyland cypress	: <i>X Cuprocyparis leylandii</i>
Lime	: <i>Tilia</i> sp
Norway spruce	: <i>Picea abies</i>
Oak	: <i>Quercus robur</i>
Sweet chestnut	: <i>Castanea sativa</i>
Sycamore	: <i>Acer pseudoplatanus</i>
Whitebeam	: <i>Sorbus aria</i>

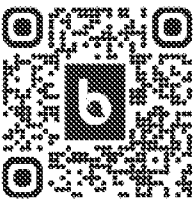
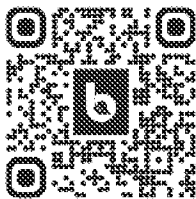
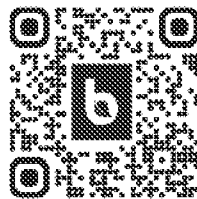
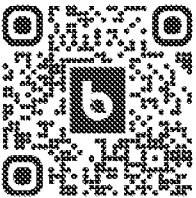
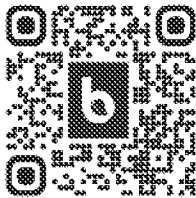
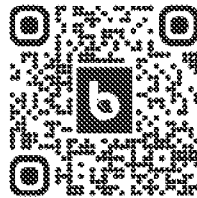
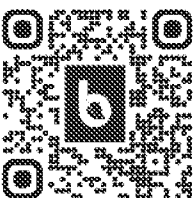
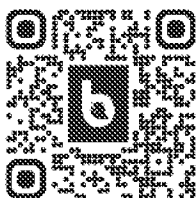
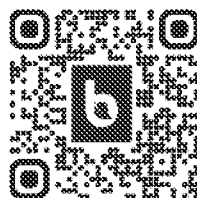
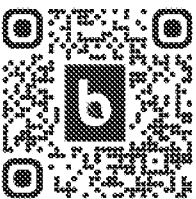
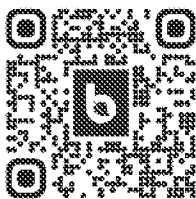
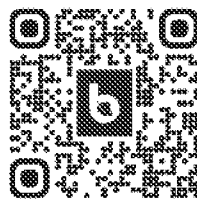
- **BS 5837 (2012) compliance:** All data has been collected based on the recommendations set out in subsection 4.4 of BS 5837.
- **Tree checks and site limitations:** Each tree was subjected to a quick visual check level of inspection. Where there is restricted access to the base of a tree, its attributes 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:** Crown radial spreads were estimated to the nearest metre and represent our assessment of the viable crown dimensions that would be retainable after normal management. For clarification, the viable crown spread is the size of the main body of the crown, and not necessarily the furthest extent of odd branches that extend out beyond this core of the crown.
- **Dimensions:** All dimensions are estimated unless otherwise indicated with an asterix (\*) 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. 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.

## Appendix 2: Tree schedule and explanatory notes

- **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.
- **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.
- **RPAs:** The RPAs were calculated as recommended in BS 5837, and the nominal RPA radius for each tree listed, irrespective of any modifying factors. Where appropriate, RPAs for trees on the site may have been adjusted as recommended in BS 5837 and illustrated on the plan.
- **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>

