

Arboricultural assessment & method statement Howson Terrace, Richmond Hill. Richmond



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Site location and report purpose

Site location



This aerial image is provided courtesy of Google. The yellow line indicates the approximate site boundary and is illustrative 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 demolish several existing buildings and replace them with new ones at Howson Terrace, Richmond Hill, Richmond.

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.

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Site location and report purpose

- 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 2.1), 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 my review of the constraints and the proposed layout, my 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						
Remove	None	None	None				
Prune	None	None	None				
Protect using special precautions See Notes below	None	T12, T16	T11				
Post development considerations	None	None	None				

T = Tree

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.

Note on RPA adjustment: Special precautions are only necessary where encroachment into RPAs occurs. If the extent of RPAs can be adjusted within the guidance set out in BS 5837, this is explained in more detail in 1.2 below.

Note on category U trees: Trees categorised as U (T5 – off site tree) are in such poor condition that they have been assessed as needing removal for management reasons irrespective of any development proposals. 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 Discussion of specific tree issues

RPA adjustment for T12, T15, and T16

BS 5837 (4.6.2 & 4.6.3) makes provision for adjusting the initial circular RPA if justified by preexisting site conditions or other factors. On this site, I have assessed that this can be reasonably applied to these trees due to the presence of the existing substantial buildings which will have limited root growth within their footprint, and appropriate adjustments are illustrated on the tree protection plan.

1.3 The impact of tree removals on local character

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

1.4 The impact of <u>tree pruning</u> on local character

Although trees T8, T16 and T17 require pruning this is normal maintenance and would be required irrespective of the proposed development. T8 is in a declining condition and requires attention to attend to increasing levels of risk. T16 overhangs the existing building and has been pruned in the past, the proposed work to reduce the overhang by 3m is normal maintenance and will not detract from the amenity the tree offers. T17 is showing signs of decline with some deadwood and dieback



1: Arboricultural assessment

present. Removal of deadwood and a light reduction all round will provide an improve appearance and regenerate new growth.

1.5 The impact of works in precautionary areas

Trees T11 and T12

There will be encroachment into the RPAs of these trees in the form of new no-dig surfacing. I have carefully reviewed the levels in these areas, and it would be feasible to install custom designed nodig specification surfacing without causing any significant disturbance to the RPA. From our experience at installing such surfacing (www.barrelltreecare.co.uk/caseprevious studies/SurfacingNearTrees.pdf), I am confident that this can be implemented without any long term detrimental impact on tree health, with the detail to be agreed as part of a planning condition. This surfacing solution is within the advice set out in BS 5837 (8.6) and would be appropriate in this situation. In summary, if the guidance set out in SGN 7 Excavating in RPAs and SGN 9 Installing/upgrading surfacing in RPAs is observed, I believe that the proposed works can be implemented without any long term detrimental impact on tree health, and therefore local character. All new surfacing must be installed before any construction access to prevent damage to the RPA from the construction activity.

Trees T12 and T16

For these trees, there is minor encroachment into their initial circular RPAs, but the removal of the existing building improves the separation distance to the trees. BS 5837 (5.3.1) does allow for encroachment, if it can be demonstrated that any lost area can be compensated for elsewhere. In this situation, the encroachment is on the outer extent of the RPAs and relatively small compared to the area that will be left undisturbed, and provision has been made to compensate for this elsewhere near the trees. In my experience, healthy trees can tolerate such minor incursions into their RPAs without any significant adverse impacts on health, and my opinion, is that this will be the case in this situation. Additionally, it is also widely accepted that these species are particularly robust at coping with disturbance. In summary, if the guidance set out in SGN 7 *Excavating in RPAs*, SGN 9 *Installing/upgrading surfacing in RPAs*, and SGN 10 *Installing structures in RPAs*, is observed, I believe that the proposed works can be implemented without any significant adverse impact on the trees, and therefore local character.

1.6 <u>Post development</u> considerations

If trees are retained or planted too close to occupied buildings and/or garden amenity space, it is sometimes claimed that they can cause excessive shade or anxiety, which interferes with the normal use of the property. In extreme cases, this can result in pressure from future owners to fell or severely prune, thus reducing the long-term contribution of the trees to local character. However, in our experience, these problems are extremely rare and there is very little evidence that such pressures ever result in any significant harm to the wider setting. Indeed, there is an increasing body of evidence that the benefits from trees close to occupied areas significantly outweigh any disadvantages caused by shade or anxiety. Furthermore, important trees can be protected using tree preservation orders, which come with an overarching presumption to retain protected trees unless the normal use of the property is harmed to a significant extent. To our knowledge, there is no published evidence to support that trees are being lost to the detriment of local character for these reasons. I have considered these concerns in my analysis for this site and in this case, none of the retained tree are is locations where they are likely to cause excessive shade, or interfere with their normal use.



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1.7 New tree planting to enhance local character

New tree planting is feasible as a means of supplementing retained trees and enhancing local character, which could include heavy-standard or semi-mature specimens. The final selection of species, size, and location would be matters to be agreed with the LPA through a planning condition. All new trees will be specified and planted in accordance with the recommendations in BS 8545 (2014) *Trees: from nursery to independence in the landscape –Recommendations*. My preliminary assessment is that there is sufficient space for new trees to be planted in locations where they will 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.

1.8 Summary of impact on local character

No trees will be lost because of this proposal. The matter of adverse impacts on retained trees due to post-development pressures to fell or prune has been considered and I concluded that no further trees will be affected. There is plenty of space for tree planting and a new tree planting scheme using significant stock is feasible. The construction activity and proposed changes may affect further trees if appropriate 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 long term detrimental impact on tree health or the contribution of trees to character in the wider.

For these reasons, I 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:

- SGN 1 *Monitoring tree protection* (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn01?stage=Stage</u>)
- SGN 2 Fencing protected trees (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn02?stage=Stage</u>)
- SGN 3 Ground protection (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn03?stage=Stage</u>)
- SGN 4 Pollution control (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn04?stage=Stage</u>)
- SGN 5 Site cranes & piling rigs (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn05?stage=Stage</u>)
- SGN 6 Height restrictions (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn06?stage=Stage</u>)
- SGN 7 Excavating in RPAs (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn07?stage=Stage</u>)
- SGN 8 Removing surfacing and structures in RPAs (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn08?stage=Stage</u>)
- SGN 9 Installing/upgrading surfacing in RPAs (https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn09?stage=Stage)
- SGN 10 Installing structures in RPAs (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn10?stage=Stage</u>)
- SGN 11 Installing services in RPAs (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn11?stage=Stage</u>)
- SGN 12 Landscaping in RPAs (<u>https://www.barrelltreecare.co.uk/resources/technical-guidance/sgn12?stage=Stage</u>)

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 precommencement meeting; and



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• 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
Pre-commencement meeting: 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 Monitoring tree protection
Tree pruning: Contractor will carry out agreed works as described in Appendix 2. <u>Will be completed before any significant site works begin.</u>	Prune: T8, T16 and T17	Appendix 2
Installing fencing: Agreed tree protection measures will be installed and checked, as described in SGN 2. Will be completed before any significant site works begin.	All trees	Tree protection plan, SGN 2 Fencing protected trees
Pollution control near retained trees: 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 Pollution control
Operation of site cranes and piling rigs: Provision will be made to prevent site cranes and piling rigs damaging trees, as described in SGN 5.	All trees	SGN 5 Site cranes & piling rigs
Regular arboricultural supervision: Provision will be made to carry out and record agreed arboricultural supervision, as described in SGN 1.	All trees	SGN 1 Monitoring tree protection
Installing/upgrading surfacing in RPAs: These operations will be carried out as described in the SGN 9.	T11, T12	SGN 9 Installing/upgrading surfacing in RPAs
Installing services in RPAs: These operations will be carried out with care, as described in SGN 11.	All trees	SGN 11 Installing services in RPAs
Landscaping in RPAs: These operations will be carried out with care, as described in SGN 12.	All trees	SGN 12 Landscaping in RPAs
Removing tree protection: <u>Protection can only be</u> <u>removed when there is no risk of damage to</u> <u>retained trees, as described in SGN 1.</u>	All trees	SGN 1 Monitoring tree protection

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



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requirements as part of the site induction procedures. This requirement will be written into the site management documentation.

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 demolition, site clearance, the installation of protective measures, the phasing of successive work locations, the removal of existing structures/surfacing, the installation of new structures/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.
- 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. Crane location and zones of movement.
- 18. 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.
- 19. Finished excavation lines for basement works and the method of installing retention, e.g. sheet piling.
- 20. How post-construction impacts through compaction to soil near trees will be ameliorated.

A1.1 Table 3: Background administrative information

	Background administrative information					
Report date & reference	1 st December 2020; 16303-AA-CA.docx					
Tree protection plan reference	втз					
Instructing client	Housing & Care 21					
Instructions	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, if appropriate.					
Provided documents	Topographical survey, drawing number 22926, received by email on 22 nd September 2016, and layout drawing numbers M8764 ASK 007 Rev C and M8764 ASK 006 Rev D, received by email on 14 th October 2020.					
Report author and credentials	Chris Allder has taken and passed the LANTRA Professional Tree Inspection course (<u>https://www.lantra.co.uk/awards/product/professional-tree-</u> <u>inspection</u>), is a Chartered Forester (<u>www.charteredforesters.org</u>), and a Fellow of the Arboricultural Association (<u>www.trees.org.uk</u>), and is fully qualified to undertake the assessments in this report (<u>https://www.barrelltreecare.co.uk/who-we-are/</u>).					
Report limitations	 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. This report does not consider ecological or archaeological issues, or any other matter beyond the assessment of the trees. 					
Technical references	 In preparing the analysis in this report, we considered the guidance and advice in the following technical references: Climate Change Act (2008) www.legislation.gov.uk/ukpga/2008/27/contents Town and Country Planning Act 1990 www.legislation.gov.uk/ukpga/1990/8/contents National Planning Policy Framework, published by the MHCLG www.gov.uk/government/publications/national-planning-policy-framework2 BS 5837 (2012) Trees in relation to design, demolition and construction – Recommendations, BSI www.shop.bsigroup.com/ BS 8545 (2014) Trees: from nursery to independence in the landscape – Recommendations, www.shop.bsigroup.com/ BS 3998 (2010) Tree work – Recommendations, BSI www.shop.bsigroup.com/ Trees in the Townscape: A Guide for Decision Makers, published by the Trees & Design Action Group http://www.tdag.org.uk/ National Joint Utilities Group (2007) Volume 4, Issue 2: Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees www.njug.org.uk/publications/ 					



Appendix 1: Background administrative information and data collection

A1.2 Table 4: Data collection

	Data collection			
Date of site visit	4 th March 2020			
People present during site visit	Chris Allder			
Weather & visibility	Clear and dry, with good visibility			
Limitations to observations	 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. 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. Observations of trees outside the site boundaries are confined to what was visible from within the site. All dimensions were estimated unless otherwise indicated. 			
Tree Preservation Orders (TPOs), Conservation Areas, and tree categorisation	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. The same rationale will be applied to Conservation Areas.			
Tree location and numbering	Each tree, and group, was inspected, and the numbering scheme is indicated on the tree protection plan.			
Recording of tree data	For each identified tree and group, the information collected was recorded on the tree schedule in Appendix 2 and the tree protection plan.			
Compliance of data collection with BS 5837	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.			
Calculation of RPAs	Following the recommendations in Table D1 of BS 5837, the diameter of each tree was rounded up to the next 2.5cm 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.			

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 & hedges								Carry out safety check and lift over site to 3-4m as necessary.		
T1	Birch	6	20*	Maturing	-	С	Off site, fork at 3m	-	2.4	18
G2	Sycamore	18	52.5*	Mature	-	В	Off site, previously reduced	-	6.3	125
T3	Sycamore	11	30	Maturing	-	В	Off site	-	3.6	41
T4	Sycamore	14	40	Maturing	-	В	Off site, multi-stemmed at 2m, tight forks	-	4.8	72
Τ5	Sycamore	18	60	Mature	-	U	Off site, ivy clad, twin- stemmed at 1m, significant dieback	Advise owners of tree's condition	7.2	163
T6	Yew	12	45	Maturing	-	В	Off site, multi-stemmed at 2m	-	5.4	92
T7	Hornbeam	10	40	Maturing	-	C	Off site, bark damage to stems	-	4.8	72
T8	Holm oak	20	90	Mature	-	С	Off site, growing through railings, large wound on stem, decay fungi present, leaning over access road	Reduce crown by 8m	10.8	366
Т9	Norway maple	8	30*	Maturing	-	C	Off site, multi-stemmed at base, overhanging sub- station	-	3.6	41
T11	Swamp cypress	12	35*	Maturing	-	С	Off site tree, poor, one-sided shape, lost top	-	4.2	55
T12	Lombardy poplar	25	80*	Mature	-	В	Off site tree, ivy clad, twin- stemmed at base	-	9.6	290

Tree No	Species	Height (m)	Diameter (cm) @ 1.5m	Maturity	Low Branches	Category	Notes	Tree Works	RPA radius (m)	RPA area (m2)
T13	Lombardy poplar	20	90*	Mature	-	В	Off site tree, twin-stemmed at base	-	10.8	366
T14	Bay	5	45*	Mature	-	C	Off site, multi-stemmed clumps	-	5.4	92
T15	Norway maple	16	52.5	Mature	-	В	Off site tree	-	6.3	125
T16	Poplar	25	117.5*	Mature	-	В	Off site, twin-stemmed at 4m, previously reduced	Prune lateral branches over existing building to reduce length by 3m	14.1	625
T17	Willow	10	45	Maturing	-	C	Off site, one-sided, leaning, ivy clad, dieback	Remove deadwood, reduce all round by 2m to improve shape	5.4	92
T18	Elm	10	40	Mature	-	В	Off site, ivy clad, small	-	4.8	72
T19	Sycamore	15	50	Maturing	-	C	Off site. ivy clad, twin- stemmed at base, minor dieback	-	6.0	113
G20	Variegated bay	3	15	Maturing	-	С	Small ornamental	-	1.8	10
T21	Cherry	4	45	Mature	-	С	Multi-stemmed at 1m, poor, canker and decay	-	5.4	92
T22	Horse chestnut	14	80*	Mature	-	В	Multi-stemmed at 2m, recently pruned	-	9.6	290
T23	Horse chestnut	12	62.5*	Mature	-	C	Bleeding canker, recently pruned	-	7.5	177
T24	Birch	14	50*	Mature	-	В	Twin-stemmed at 2m, minor decay, recently pruned, staining at base	-	6.0	113



Explanatory Notes

- Abbreviations:
 - G: Group
 - T: Tree

Botanical tree names:

Вау	:	Laurus nobilis
Birch	:	Betula pendula
Cherry	:	Prunus sp
Elm	:	Ulmus sp
Holm oak	:	Quercus ilex
Hornbeam	:	Carpinus betulus
Horse chestnut	:	Aesculus hippocastanum
Lombardy poplar	:	Populus nigra 'Italica'
Norway maple	:	Acer platanoides
Poplar	:	Populus sp
Swamp cypress	:	Taxodium distichum
Sycamore	:	Acer pseudoplatanus
Variegated bay	:	Laurus nobilis cv
Willow	:	Salix sp
Yew	:	Taxus baccata

- 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:** Crown spread dimensions are not listed in the tree schedule because they are illustrated on the land survey base to all the plans in this document. Where crown spreads of significant trees on site are found to deviate from those shown on the provided land survey, we have noted it in the text of the report and annotated it on our plans.
- 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, and recorded in 2.5cm 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.
- **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.

- 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.
- 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 <u>must</u> be reviewed annually from the date of that visit.



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

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



Field HouseFordingbridgeBusinessParkFordingbridgeHampshireSP6 1BD☎01425 651470☑info@barrelltreecare.co.uk७७www.barrelltreecare.co.uk