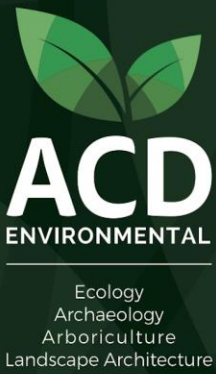


# 161-165 HIGH STREET HAMPTON HILL

## ARBORICULTURAL IMPACT ASSESSMENT



|             |                 |
|-------------|-----------------|
| Written by: | A Bigg          |
| Checked by: | T Grayshaw      |
| Date:       | 15/07/19        |
| Revision:   |                 |
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## 1. Executive summary

- 1.1. An extant planning application has been submitted for the site at Taylor Close, Hampton Hill and in response London Borough of Richmond upon Thames have requested arboricultural input. The content within this arboricultural report has been compiled to address this request.
- 1.2. The design proposals encompass a new residential build within the footprint of an existing parking arrangement. There are two individual trees within the vicinity of the proposed residential unit. A single Lawson Cypress found to the north of the existing Sub-Station and a Robinia found to the south-west of the existing sub-station. Following a request from a local resident the Robinia was made the subject of Tree Preservation Order, reference T1007 dated 18/11/18, the Lawson Cypress was not. A copy of this order can be found at Appendix One.
- 1.3. Following the recommendations within BS5837:2012, survey data for the tree has been collected and has informed a visual representation of the constraints afforded to the tree. These are detailed on the appended planning drawings.
- 1.4. The proposed residential unit is in line with recommendations of BS5837:2012 Trees in relation to design, demolition and construction. There are no incursions into the RPA of this individual from the construction footprint of the new build. A parking bay is proposed on the western flank of the property, this is within the RPA of the tree, however this area is currently hard standing.
- 1.5. Adequate tree protection can be provided to ensure that the Robinia can be suitably retained throughout the development phase.
- 1.6. The relationship between the buildings and retained trees is sustainable and does not result in any situations that may result in unreasonable pressure to prune requests from future occupants.
- 1.7. Any fencing and other tree protection measures should be erected after tree surgery but before any demolition or construction contractor enter the site, and before any soil stripping takes place.

## 2. Introduction

- 2.1. Aquinna Homes instructed ACD Environmental in June 2019 to prepare the following arboricultural report which contains requested arboricultural impact assessment elements.
- 2.2. Following the recommendations of the British Standard<sup>1</sup>, this report includes the necessary information to support a planning application. It demonstrates that the impact, both direct and indirect, of the proposed development within the site, has been assessed and where appropriate, mitigation and tree protection proposed.
- 2.3. The implementation of any protection methods and special construction details recommended within this report are critical for ensuring the retained trees are successfully protected through the construction process and must be implemented prior to any work on site.
- 2.4. This assessment is based upon the supplied layout drawing and tree reference plan, drawing number AQU22574-01.
- 2.5. The controlling authority is London Borough of Richmond upon Thames, who can be contacted at:  
  
Phoenix House, Planning Division, First Floor, 10 Wandsworth Road, London, SW8 2LL. (020) 7926 1180
- 2.6. This assessment considers the impact of the development on the constraints posed by the retained trees (both beneath ground: the root protection area (RPA), and above ground: the canopy).
- 2.7. Direct impact from development comes in six main forms: 1) Surface installation within RPAs, 2) Root loss from excavation for foundations, drainage and other utilities within RPAs, 3) Soil stripping, removal and level changes within RPAs, 4) Excessive access facilitation pruning to retained trees, 5) Soil compaction from storage and vehicle movements within RPAs, 6) Soil contamination.

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<sup>1</sup> BS5837:2012 *Trees in relation to design, demolition and construction- Recommendations*, London: British Standards Institute

### 3. Arboricultural Impact Assessment

#### 3.1. Tree survey data

3.1.1. The following survey data was recorded for the Robinia;

| No. | Name  | Ht<br>(crown) | Dia<br>(stems) | Crown spread<br>(NESW) | Life<br>stage | ERC | BS<br>Cat |
|-----|---|---------------|----------------|------------------------|---------------|-----|-----------|
| T1  | Robinia<br>( <i>Robinia<br/>pseudoacacia frisia</i> ) | 13(3)         | 300(1)         | 5.5, 4.25, 4.0, 3.25   | SM            | 20+ | B2        |

#### 3.2. Overview of proposed development

3.2.1. The existing site is to be redeveloped through the construction of a residential unit, associated parking bay and open space.

#### 3.3. Planning context

3.3.1. **Tree Preservation Orders/Conservation Area:** The Robinia recorded as tree no. T1 is the subject of a London Borough of Richmond Tree Preservation Order, reference T1007 dated November 2018. The site borders Conservation Area 38 as noted within the formal TPO notice.

#### 3.4. Trees proposed for removal & surgery

3.4.1. The design proposals do not necessitate the removal of any trees in the immediate vicinity.

#### 3.5. Demolition, site clearance & archaeology

3.5.1. To ensure damage does not occur to trees highlighted for retention, tree protection fencing must be erected before ANY plant/vehicles entering site whatsoever. This should be subject to a pre-commencement site meeting between the developer, their project arboriculturist and a representative from the Local Authority.

3.5.2. No special demolition procedures need be observed on this site, other than respecting the tree protection fencing.

#### 3.6. Protection fencing

3.6.1. Figure 2 of the British Standard recommends a standard fencing design for tree protection. This is a weld mesh panel design, mounted upon a well-braced scaffold framework. This is perfectly adequate for this site and all the retained trees can be suitably protected by its erection before any works start on site whatsoever.

### **3.7. Construction footprint and permanent hard surfaces within RPAs**

3.7.1. The construction footprint of proposed buildings/units are sited outside the RPAs of trees identified for retention. The radius of the Robinia is calculated at 3.6m the construction footprint corner is sited at 4.2m from trunk centre.

3.7.2. In section 7.4 of the British Standard, permanent hard surfacing within the RPAs of retained trees is addressed, and recommendations made.

3.7.3. The footprint of the proposed hard surfacing falls within the existing hard surfacing. Should the surface need replacing, the existing sub-base will be retained and utilised in the makeup of the new hard surface.

### **3.8. Access and working room within RPAs**

3.8.1. Space is required for scaffold erection and working room within the RPA of T1. Following the recommendations of 6.2.3 of the British Standard, ground protection will be employed to retain the underlying soil structure and avoid detriment to roots.

3.8.2. However, given the existing hard surfacing in situ it is reasoned this will be suitable to ensure the continued protection of the underlying rooting environment.

### **3.9. Shade and future pressure to prune**

3.9.1. The site layout has been assessed in terms of shading and future pressure to prune. In terms of the orientation of the site, and the relationship between the proposed buildings and the retained trees, the juxtaposition is viable for long-term tree retention and not dissimilar to many other relationships between trees and buildings in the surrounding area. The orientation of the proposals will ensure that shade from the Robinia is cast away from the residential unit.

3.9.2. The tree is the subject of a Tree Preservation Order so future pruning requests can be adequately controlled and resolved by Royal Borough of Richmond upon Thames.

### **3.10. Services**

3.10.1. Full details of the service and utility provisions for the site remain to be finalised. However, there is adequate space for utility trenches to access the site whilst avoiding RPAs and exclusion zones.

Andrew Bigg CertArb (RFS)  
Arboriculturist  
15<sup>th</sup> July 2019

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**Appendix 1: Tree Preservation Order**



## **Appendix 2: Submitted Planning drawings**

AQU22574-03



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