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# Arboricultural Impact Assessment 

Old Brickyard Farm, Great Horwood Road, Winslow on behalf of Bloor Homes South Midlands<br>10 October 2023

JBA 21/303 AR01 Issue D

A S S O C I A T E S

| Project | Old Brickyard Farm, Great Horwood Road, Winslow |
| :--- | :--- |
| Report | Arboricultural Impact Assessment |
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| by |  |

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## 1 SUMMARY

1.1 This Arboricultural Impact Assessment has been commissioned by Bloor Homes South Midlands to accompany their planning submission for the construction of a new 120 dwelling housing development with associated infrastructure, parking provision and open spaces.
1.2 This report has been prepared in accordance with British Standard 5837: Trees in relation to design, demolition and construction - Recommendations (2012). This document provides best practice advice, assessment and guidance with regards to the design, planning and implementation of new developments.
1.3 This report concludes that the proposal is acceptable subject to an extensive scheme of new tree planting and successful tree protection and the construction methodology.

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## 2 INSTRUCTIONS

2.1 James Blake Associates has been instructed to carry out a survey of trees and significant vegetation within and directly adjoining land at Old Brickyard Farm, Great Horwood Road, Winslow in relation to the application for redevelopment of the site.
2.2 Our assessment was carried out in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.
2.3 All trees were visually inspected from ground level only and no diagnostic equipment or detailed decay investigation was carried out.
2.4 Our report is prepared to provide supporting evidence and justification for redevelopment in relation to the existing trees and vegetation within and neighbouring the site.
2.5 The contents of this report are copyright of James Blake Associates and may not be copied without the author's permission. James Blake Associates' Terms and Conditions apply to this report and all associated works in conjunction with this project.

## Documents provided

2.6 This report has been prepared with reference to the following documentation;

- Topographical survey reference 30071_T_REV 1 by Greenhatch Group
- Proposed site layout reference SM5145-PL-001 AC 110.08.23 NMA (Stripped

Layout) by Bloor Homes

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## 3 OBSERVATIONS

## Site visit

3.1 The site was visited by Peter Brais, Principal Arboriculturist, 7 October 2021 to identify, measure and locate trees and significant vegetation within and directly adjoining the site.

## Site and context

3.2 The site is an existing property and its surrounding land located to the north of Winslow, Buckinghamshire.
3.3 The roughly rectangular-shaped site is surrounded by trees and hedgerows with fields located to the north and west.
3.4 The B4033 runs along the north western boundary, with a disused railway line abutting the south-eastern boundary, with more intensive residential development beyond.
3.5 A continuous hedge runs along the north-western boundary, with a wider area of deciduous woodland extending along the south and western side of the site. A larger area of more mature trees of trees occupies the centre of the site. Two internal across roads cross the site along the northern boundary
3.6 Throughout the site there are a range of specimen trees and groups that contribute significantly to the wider landscape.
3.7 However, the overall quality varies considerably, and some are of low value as individuals due to structural defects or poor historical management.

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Fig 1. Approximate site boundary in relation to its surroundings

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## 4 VIEWS OF TREES



Photograph 1 (above). H1, mixed species (centre), located to the north of the main site entrance. Viewed looking towards the north-east.


Photograph 2. G3, ash, located to the north of H2, elm, ash, hazel and blackthorn. Viewed looking towards the south-west.

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Photograph 3 (above). T4, ash, located to the south of H 2 . Viewed looking towards the north-west.

Photograph 4 (right). T6, ash, located in the southwest corner of the site. Viewed looking towards the west.


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Photograph 5 (above). Woodland W7, mixed species, located along the southern boundary, showing T8, ash, (centre). Viewed looking towards the east from the far south of the site.


Photograph 6. Overview of G10, mixed species. Viewed looking towards the north-east from the central part of the eastern site boundary.


Photograph 7 (above). G12, Leyland cypress, located to the north of the eastern boundary.
Viewed looking towards the northeast.


Photograph 8. T15, high quality apple (right) and northern section of G17 (left). Viewed looking towards the west.

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Photograph 9 (right). T22, ash. Viewed looking towards the northeast.

Photograph 10 (below). G26, ash. Viewed looking towards the northwest.


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Photograph 11. T37, ash. Viewed looking towards the south.


Photograph 12. T39, English oak. Viewed looking towards the southeast.

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Photograph 13. T56, white willow. Viewed looking towards the north from the centre of the northern boundary.


Photograph 14. T62, ash. Viewed looking towards the north.

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Photograph 15 (above). T69, English oak.
Viewed looking towards the northwest from the existing site entrance.

Photograph 16 (left). T70, silver birch.
Viewed looking towards the north from the north-west corner of the site.

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## 5 TECHNICAL INFORMATION

## Statutory protection

5.1 According to Aylesbury Vale District Council Protected Tree Search https://www.aylesburyvaledc.gov.uk/protected-tree-search (online) the site is not located within the Conservation Area, nor were any of the trees within or adjacent to the site the subject of a Tree Preservation Order.

## Soils and Geology

5.2 This information is obtained from The British Geological Survey (online) 'Geology of Britain Viewer' but is provided only as a guideline to assist with assessment of site conditions in relation to rooting habits of trees.
5.3 Soil conditions have the potential to affect tree growth, rooting depth and extent, species selection and foundation design and therefore a detailed soil assessment should be carried out by a competent person.
5.4 Bedrock geology is described as being Weymouth Member - Mudstone. Superficial deposits are shown as being Glaciofluvial Deposits, Mid Pleistocene - Sand and Gravel.

## Planning policy

5.5 The National Planning Policy Framework sets out the government's planning policies for England and how these should be applied. The document replaces all previous documents and came into action in July 2018, subsequently updated February 2019.
5.6 The NPPF supports and promotes sustainable development, which it defines as having three dimensions; social, economic and environmental. It goes on to state that these three dimensions are mutually dependent and to achieve sustainable development they must be sought simultaneously.
5.7 Specifically, the NPPF states that "development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland or ancient or veteran trees) should be refused, unless there are wholly exceptional reasons and a suitable compensation strategy exists".
5.8 No veteran or ancient trees were identified in the tree and vegetation survey.

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## 6 ARBORICULTURAL APPRAISAL

6.1 Dimensions, comments and information gathered for each survey entry are provided in the tree schedule in Appendix 1. The location, root protection area, crown spread and BS5837 categorisation is shown on the appended tree survey drawing JBA 21/303 TCP01 in Appendix 2.
6.2 Of the 70 survey entries, 40 were assessed as being semi-mature, ten were early mature and 20 were mature.
6.3 The survey assessed the tree population as consisting predominantly of moderate and high-quality trees. Of the 70 survey entries 15 were of low quality and value (category C), 49 were assessed as being moderate quality and value (category B) three were high quality (category A ) and the remaining three were category U .

## Identified impacts

6.4 Drawing JBA 21/303 TRP01 Rev D in Appendix 2 shows the proposed layout and tree removals necessary to implement the proposed development.
6.5 The arboricultural impacts have been assessed and are deemed to be acceptable. In respect of the proposal the following have been identified as being of most significance;

- Tree removals and reductions
- No dig construction
- Hard surface removal and construction under supervised excavation
- Tree protection requirements
- Replacement planting


## Tree removals and reductions

6.6 In order to implement the proposal, it will be necessary to remove a total of 44 trees, hedges or groups, as specified in the table below:

Three tree features T18, T19 and G35 are recommended for removal irrespective of development. Due to a life expectancy of below 10 years.

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| Tree Number | Species | Work Requirements | Reason(s) for works |
| :---: | :---: | :---: | :---: |
| H1 | Mixed species | Remove | Incompatibility with the proposed access road. |
| H2 | Elm <br> Hazel <br> Ash <br> Blackthorn | Remove one small section in the centre and a larger section to the south. | Incompatibility with the southern part of the proposed footpath and cycleway link. |
| T5 | Ash | Remove | Incompatibility with the proposed layout. |
| T6 | Ash | Remove | Incompatibility with the proposed layout. |
| T13 | Elder | Remove | Incompatibility with the proposed layout. |
| G14 | Ash | Remove | Incompatibility with the proposed layout and access road. |
| G17 | Ash | Remove southern half | Incompatibility with the proposed access road and parking spaces. |
| T18 | Pear | Remove | Reduced life expectancy irrespective of development. |
| T19 | Hawthorn | Remove | Reduced life expectancy irrespective of development. |
| T20 | Ash | Remove | Incompatibility with the proposed access road. |
| T21 | White willow | Remove | Incompatibility with the proposed access road. |
| G23 | Hawthorn <br> Elder <br> English oak <br> Lime \& Field maple | Remove northern third of the central section. | Incompatibility with the proposed access road and parking spaces. |
| G28 | Ash English oak Hawthorn | Remove southern half of group. | Incompatibility with the proposed parking spaces. |
| G29 | Ash <br> Hawthorn | Remove northern section north of group. | Incompatibility with the proposed access road. |
| T30 | Weeping willow | Remove | Incompatibility with the proposed wall construction for SUDS basin. |
| G31 | Ash <br> Apple | Remove | Incompatibility with the proposed layout. |

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| Tree Number | Species | Work Requirements | Reason(s) for works |
| :---: | :---: | :---: | :---: |
| G32 | Hawthorn Bullace | Remove | Incompatibility with the proposed layout. |
| G33 | Silver birch Ash Hawthorn | Remove | Incompatibility with the proposed layout. |
| G34 | Ash Hawthorn | Remove | Incompatibility with the proposed layout. |
| G35 | Apple | Remove | Reduced life expectancy irrespective of development. |
| H36 | Hawthorn <br> Elm \& Ash <br> Blackthorn <br> Lawson cypress <br> Cherry | Remove five sections. Three to the west, one in the centre and a larger section to the east. | Incompatibility with the proposed layout and access road. |
| T40 | Honey locust | Remove | Incompatibility with the proposed SUDS drainage basin. |
| T41 | Atlas cedar | Remove | Incompatibility with the proposed layout and access road. |
| G42 | Pear | Remove | Incompatibility with the proposed layout and access road. |
| G43 | Apple Norway maple | Remove | Incompatibility with the proposed layout and access road. |
| T44 | Sycamore | Remove | Incompatibility with the proposed layout. |
| G45 | Cherry Indian Bean tree Apple | Remove | Incompatibility with the proposed layout. |
| G46 | Cypress | Remove | Incompatibility with the proposed SUDS drainage basin. |
| T47 | Snake bark maple | Remove | Incompatibility with the proposed layout. |
| G48 | Cockspur thorn Japanese maple | Remove | Incompatibility with the proposed layout. |
| G49 | Jacquemont's birch Sycamore | Remove | Incompatibility with the proposed access road. |
| G50 | Lime <br> Leyland cypress | Remove | Incompatibility with the proposed layout. |
| G51 | Cherry | Remove | Incompatibility with the |

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| Tree <br> Number | Species | Work Requirements | Reason(s) for works |
| :---: | :--- | :--- | :--- |
| G52 | Corsican pine <br> Sycamore <br> Leyland cypress <br> Silver birch | Remove | proposed layout and <br> parking spaces. |
| G53 | Cedar of Lebanon <br> Sycamore <br> Cherry \& Oak | Remove | Incompatibility with the <br> proposed layout and <br> access road. |
| T54 | Silver birch | Remove | Incompatibility with the <br> proposed layout and <br> access road. |
| T55 | Common lime | Remove | Incompatibility with the <br> proposed access road. |
| T56 | White willow | Crown lift to 4m to the <br> south | To allow access to <br> parking spaces. |
| spaces. |  |  |  |
| T50 |  |  |  |

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6.7 Other recommended tree work, not required to implement the proposal, is specified in the tree schedule in Appendix 1.
6.8 Whilst the internal vegetation to be removed is numerous its loss to public amenity is reduced as it lacks visual presence and there is the ability for it to be replaced with high quality planting.
6.9 Highly visible hedges and trees along public roads and other vegetation are to be retained and can be adequately protected throughout the development process.

## No Dig Construction

6.10 Parking spaces and hard surfacing encroach into the precautionary root protection area (RPA) of T70, mature silver birch.
6.11 Parking spaces encroach into the RPA of T56, a mature white willow.
6.12 Due to the construction of hard surfacing running beneath the crown of the tree a cellular confinement system will be used to form a "tabletop" which will then be finished with permeable block pavers or other porous wear layer.
6.13 Edges will consist of staked railway sleepers to avoid any excavation for kerbs within the RPA.
6.14 A small area to the west of T62's RPA will be excavated to install hard surfacing and construct building foundations. The risk of root damage in such a small area is considered to be negligible provided the excavation and construction is carried out under supervision.

## Hard Surface Removal and Construction under

## Supervision

6.15 Existing hard surfacing will be removed from within the root protection area of the semi-mature English oak, T69, adjacent to the entrance to the site to create an open space, parking spaces and a new footpath alongside the access road.
6.16 As the area is already covered by hard, non-permeable, surfacing the likelihood of finding major roots in this area is expected to be low.
6.17 The removal of hard surfacing will be undertaken using hand tools, including pneumatic drills, removed in sections down to the sub-base and working backwards away from the trees. This will ensure the risk of root damage is minimised.
6.18 Excavations within RPAs of T8, T9, T37, T38, and T39 will be carried out under the direct supervision of the appointed arboricultural consultant, and the following measures will be undertaken to minimise the risk of root damage.
6.19 Excavations will be carried out manually using appropriate hand tools OR using an air lance to expose tree roots to minimise the potential for root damage.
6.20 Where roots below 25 mm diameter are encountered, pruning will only be carried out by the arboricultural consultant, using sharp, sterile tools suitable to the size of the root to be cut i.e., sharp hand saw or secateurs (if appropriate). Where possible roots will be pruned cleanly back to a side branch.
6.21 If roots exceeding 25 mm in diameter are encountered, no severance must take place without first consulting the project arboriculturist, to assess any potential impact of removal on tree health and stability.

## Tree Protection

6.22 Drawing JBA 21/303 TPP01 Rev D in Appendix 2 shows the position and extent of tree protection that will be required during construction, except for trees T37, T38, T39, T56 and T70. Here tree protection will initially be installed on the outer edge of the RPA or crown spread, whichever is the greater, and moved to the position shown on JBA 21/303 TPP01 Rev D immediately prior to works within their RPAs.
6.23 With the exception of the no dig areas and supervised hard surface removal and construction no other specialised methods are required and all other works are outside precautionary RPAs of retained trees.
6.24 Tree protection will therefore consist of robust fencing secured to a solid framework as recommended within BS5837:2012.

## Replacement planting

6.25 Due to the significant loss of canopy cover throughout the site, it is recommended that the development proposals include a comprehensive landscape strategy which includes significant tree, shrub and hedgerow planting.
6.26 As part of the proposals a significant number of new trees will be planted at key locations throughout the development.
6.27 These new trees offer the opportunity to compensate for tree removals and enhance the retained tree population, ensuring the continuation of visual and green amenity for future generations.

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## 7 CONCLUSIONS AND RECOMMENDATIONS

7.1 The constraints that existing trees and vegetation pose to development have been assessed in accordance with BS5837: 2012 and through ongoing liaison between the design team and James Blake Associates.
7.2 This continuing involvement has culminated in a proposal that seeks to improve and enhance the tree scape of the site and the wider area whilst offering a sustainable approach to development.
7.3 Minor encroachment into root protection zones has been designed to ensure the health and stability of affected trees is not compromised.
7.4 A pre-commencement meeting and arboricultural supervision for key stages in the development, that have a potentially detrimental impact on trees, is recommended to ensure that the tree protection, and other methodology, is clearly understood and correctly implemented.
7.5 It is recommended that the proposal is approved subject to a scheme of new tree planting and successful tree protection and construction methodology.

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## APPENDIX 1: TREE SURVEY SCHEDULE

## Tree Survey Schedule - Key


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| BS Category | Total |
| :---: | :---: |
| Category A | 3 |
| Category B | 49 |
| Category C | 15 |
| Category U | 3 |

BS CATEGORY CHART
tegory C 22\%

Cater

- Category C

■ Category U
$\square$ Newly Planted $\square$ Young
$\square$ Semi Mature $\square$ Early Mature - Mature ■ Over Mature - Veteran

■ Dead

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Tree Survey Schedule

Site name: Old Brickyard Farm, Great Horwood Road, Winslow
Client: Bloor Homes South Midlands
Job Number: 21 / 303

Survey Date: 8 October 202
Surveyor: Peter Brais

| Tree No. | Tree Species | $\begin{aligned} & \text { Life } \\ & \text { Stage } \end{aligned}$ | Stem $\varnothing$ ( mm ) at 1.5 m | Height (crown height) (m) | Height of (FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | RPA area (m2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |
| H1 | ```Beech (Fagus sylvatica) Hawthorn (Crataegus monogyna) Swedish whitebeam (Sorbus intermedia) (Ulmus sp.)``` | SM | 130 | 5(0) | - | 2.0 | 2.0 | 2.0 | 2.0 | Fair | Dense roadside hedge with ivy cover. Contains larger trees and dead elm. Face trimmed to west. | No work recommended | 20+ | C2, 3 | 1.6 | 8 |
| H2 | Elm $\quad$ Hazel (Corylus avellana) Ash (Fraxinus excelsior) Blackthorn (Prunus spinosa) | EM | 180 | 6 (0) | - | 2.5 | 2.5 | 2.5 | 2.5 | Fair | Dense roadside hedge mainly elm. | No work recommended | 20+ | B2, 3 | 2.2 | 15 |
| G3 | Ash | SM | 250 | 8 (2) | - | 5.0 | 5.0 | 5.0 | 5.0 | Fair | Estimated diameter unable to access. Die back in most northern tree. | No work recommended | 10+ | C2 | 3.0 | 28 |
| T4 | Ash | SM | 350 | 14 (2.5) | 4 | 7.0 | 7.0 | 7.0 | 7.0 | Good | Dominant hedgerow tree. | No work recommended | 40+ | B1 | 4.2 | 55 |
| T5 | Ash | EM | 450 | 9 (2) | - | 7.0 | 7.0 | 7.0 | 7.0 | Fair | Dominant hedgerow tree. Truncated form. Estimated diameter. | No work recommended | 20+ | B1 | 5.4 | 92 |
| T6 | Ash | SM | 320 | 8 (1.5) | 3 N | 5.0 | 5.0 | 5.0 | 5.0 | Fair | End of hedgerow tree. Sparse canopy. Excavation within RPA to the east. ADB symptoms. | No work recommended | 10+ | C1 | 3.8 | 46 |
| W7 | Elm Elder (Sambucus nigra) Hawthorn Ash Field maple (Acer campestre) | SM | 190 | 6 (1) | - | 4.0 | 4.0 | 4.0 | 4.0 | Fair | Boundary woodland on railway embankment. | No work recommended | 20+ | B2,3 | 2.3 | 16 |

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| Tree No. | Tree Species | Life Stage | Stem $\varnothing$ (mm) at 1.5 m | Height (crown height) (m) | Height of (FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | RPA <br> area <br> (m2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |
| T8 | Ash | SM | 310 | 12 (3) | 3.5 | 5.0 | 5.0 | 5.0 | 5.0 | Good | Dominant tree within woodland. Good form and condition. | No work recommended | 20+ | B1 | 3.7 | 43 |
| T9 | Ash | EM | $\begin{gathered} 400350 \\ 300 \end{gathered}$ | 16 (3.5) | 4 N | 6.5 | 6.5 | 6.5 | 6.5 | Good | Forms three stems at ground level. Dominant tree. | No work recommended | 40+ | B1 | 7.3 | 168 |
| G10 | Hawthorn (Prunus spinosa) Ash Blackthorn Lawson cypress (Chamaecyparis lawsoniana) | SM | 300 | 9 (0) | - | 4.0 | 4.0 | 4.0 | 4.0 | Good | Dense boundary group. Unable to access for detailed assessment. Edge of woodland. | No work recommended | 20+ | B2,3 | 3.6 | 41 |
| T11 | Hawthorn | M | $\left\|\begin{array}{cc} 200 & 150 \\ 300 \end{array}\right\|$ | 8 (2) | - | 5.5 | 5.5 | 5.5 | 5.5 | Good | Forms three stems at ground level. Typical minor deadwood in crown. | No work recommended | 20+ | B1 | 4.7 | 69 |
| G12 | Leyland cypress (Cupressus $\times$ leylandii) | M | 450 | 18 (2) | - | 4.0 | 4.0 | 4.0 | 4.0 | Good | Dominant group with mutual crown. | No work recommended | 20+ | B2 | 5.4 | 92 |
| T13 | Elder | M | $\int_{8}^{80}$ | 4.5 (0) | - | 2.0 | 2.0 | 2.0 | 2.0 | Poor | Multi-stemmed . Partially dead canopy. | No work recommended | 10+ | C1 | 2.8 | 24 |
| G14 | Ash | SM | $\left\|\begin{array}{ll} 180 & 150 \\ 270 & 120 \end{array}\right\|$ | 10 (2.5) | - | 4.5 | 4.5 | 4.5 | 4.5 | Good | Pair of intermediate trees. Fours stems at 1m. Unable to access. Estimated diameter. | No work recommended | 20+ | B1 | 4.6 | 65 |
| T15 | Apple (Malus domestica) | M | $\begin{aligned} & 550 \\ & 530 \end{aligned}$ | 14 (1.5) | 4 N | 10.0 | 7.0 | 10.0 | 7.0 | Fair | Notable tree. Forms two stems at ground level. Dense ivy cover, potentially supressing crown and increasing wind loading. | Cut ivy and resurvey | 40+ | A1 | 8.8 | 241 |
| G16 | Elder Hawthorn | EM | 150 | 6 (0) | - | 4.0 | 4.0 | 4.0 | 4.0 | Fair | Unremarkable hedgerow. | No work recommended | 10+ | C2, 3 | 8.8 | 241 |

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| Tree No. | Tree Species |  | Life Stage | Stem $\emptyset$ (mm) at 1.5 m | Height (crown height) (m) | Height of (FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | RPA area <br> (m2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | N |  |  |  | E | S | W |  |  |  |  |  |  |  |
| G17 | Ash | Hawthorn |  | SM | 510 | 12 (2) | 3 E | 8.0 | 8.0 | 8.0 | 8.0 | Good | Dominant group within hedgerow. Old layered hawthorn to south. | No work recommended | 20+ | B2, 3 | 6.1 | 118 |
| T18 | Pear |  | M | 350 | 4 (0.5) | - | 2.0 | 2.0 | 4.0 | 2.0 | Fair | Browsing damage to main stem by livestock. Significant deadwood. | No work recommended | <10 | U | 4.2 | 55 |
| T19 | Haw |  | M | 200 | 5 (0) | - | 3.0 | 3.0 | 3.0 | 3.0 | Dead | Dead hedge row tree. Estimated diameter and spread. | No work recommended | <10 | U | 2.4 | 18 |
| T20 | Ash |  | EM | 650 | 12 (2) | - | 8.0 | 8.0 | 8.0 | 8.0 | Poor | Intermediate tree. Major deadwood up $3 \mathrm{~m} \times 50 \mathrm{~mm}$ diameter. Unable to access for detailed assessment. | No work recommended | 10+ | C1 | 7.8 | 191 |
| T21 | Whit |  | SM | $\begin{aligned} & 400 \\ & 510 \\ & 500 \end{aligned}$ | 10 (2) | 4 S | 9.0 | 9.0 | 9.0 | 9.0 | Good | Group with mutual crown formation. | No work recommended | 20+ | B2,3 | 9.8 | 304 |
| T22 | Ash |  | M | 720 | 18 (0) | - | 10 | 12 | 10 | 10 | Good | Dominant tree. Forms two stems at 3 m with normally formed union. | No work recommended | 40+ | B1 | 8.6 | 234 |
| G23 | $\begin{array}{\|l\|} \hline \text { Hawt } \\ \text { Elder } \\ \text { oak (C } \\ \text { Lime } \\ \text { Limal } \\ \hline \end{array}$ | English <br> Field <br> e) | M | 360 | 6 (0) | - | 5.0 | 5.0 | 5.0 | 5.0 | Fair | Group with mutual crown formation. Maximum diameter recorded. | No work recommended | 20+ | C2, 3 | 4.3 | 59 |
| G24 | Ash | Hawthorn | M | 500 | 14 | - | 6.0 | 6.0 | 6.0 | 6.0 | Fair | Group with mutual crown. Estimated maximum diameter recorded. | No work recommended | 40+ | B2,3 | 6.0 | 113 |
| T25 | Ash |  | M | $\begin{aligned} & 490 \\ & 540 \end{aligned}$ | 16 (2) | 3 W | 10 | 10 | 10 | 10 | Good | Dominant tree. Forms two stems at ground level. Vshaped union and bulging. Good extension growth and crown density. | No work recommended | 40+ | A1 | 8.8 | 241 |

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A S S O C I A TE S

| Tree No. | Tree Species | Life <br> Stage | Stem $\varnothing$ (mm) at 1.5 m | Height (crown height) (m) | Height of (FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | RPA area <br> (m2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N | E | S | W |  |  |  |  |  |  |  |
| G26 | Ash | M | $\left\|\begin{array}{ll} 500 & 500 \\ 400 & 400 \end{array}\right\|$ | 18 (2) | 3 W | 11 | 11 | 11 | 11 | Fair | Dominant elevated group. Some trees contain elevated levels of deadwood up to $60 \mathrm{~mm} \times 4 \mathrm{~m}$. Cavities in trees to west 100mm diameter @ 5to8m to the south of stem. Branch tear off $300 \mathrm{~cm} \times 1.5 \mathrm{~m}$ @ 3 m to south | Cut ivy and resurvey | 20+ | B2,3 | 10.9 | 373 |
| G27 | Sycamore (Acer pseudoplatanus) <br> English oak <br> Silver birch (Betula pendula) | SM | 280 | 8 (1) | - | 4.0 | 4.0 | 4.0 | 4.0 | Fair | Unremarkable group. Die back on some trees. | No work recommended | 10+ | C2, 3 | 3.4 | 35 |
| G28 | Ash <br> English oak <br> Hawthorn | SM | 300 | 8 (2) | - | 5.0 | 5.0 | 5.0 | 5.0 | Good | Mutual crowns | No work recommended | 20+ | B2, 3 | 3.6 | 41 |
| G29 | Ash <br> Hawthorn | SM | $\begin{aligned} & 310 \\ & 440 \\ & 360 \end{aligned}$ | 12 (2) | - | 7.0 | 7.0 | 7.0 | 7.0 | Fair | Group contains stump. Mutual crowns. Emergent Ganoderma sp. fungal fruiting body at base of southernmost oak. | No work recommended | 20+ | B2,3 | 7.8 | 191 |
| T30 | Weeping willow (Salix babylonica) | M | 540 | 10 (0.5) | 2 N | 7.5 | 7.5 | 7.5 | 7.5 | Fair | Intermediate tree. Good form. Fallen stem regenerating to south. | No work recommended | 20+ | B1 | 6.5 | 132 |
| T31 | Ash Apple | M | 750 | 12 (2) | - | 9.0 | 9.0 | 9.0 | 9.0 | Good | Mature pair. Slightly sparse crown. Significant deadwood. Emerging veteran features on apple, cavities and branch tears. | No work recommended | 20+ | B2 | 9.0 | 254 |
| G32 | Hawthorn <br> Bullace (Prunus domestica subsp. <br> Insititia) | M | $\begin{aligned} & 300 \\ & 140 \\ & 100 \end{aligned}$ | 6 (0) | - | 4.0 | 4.0 | 4.0 | 4.0 | Good | Dense croup with mutual crown. Regeneration from fallen stems. | No work recommended | 20+ | B2, 3 | 4.6 | 65 |
| G33 | Silver birch Ash <br> Hawthorn | SM | 190 | 9 (0) | - | 3.0 | 3.0 | 3.0 | 3.0 | Good | Group of small trees. | No work recommended | 20+ | B2 | 2.3 | 16 |
| G34 | Ash <br> Hawthorn | M | 400300 | 12 (2) | 2 N | 6.0 | 6.0 | 6.0 | 6.0 | Fair | Mutual crown. Browsing damage $400 \times 600 \mathrm{~mm}$ @ 1m to west. | No work recommended | 20+ | B2 | 6.0 | 113 |

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JAMES BLAKE
A S S O C I A T E S

| Tree No. | Tree Species | $\begin{aligned} & \text { Life } \\ & \text { Stage } \end{aligned}$ | Stem $\varnothing$ (mm) at 1.5 m | Height <br> (crown height) <br> (m) | Height of(FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | $\begin{aligned} & \hline \text { RPA } \\ & \text { area } \\ & (\mathrm{m} 2) \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |
| G35 | Apple (Malus domestica) | SM | 150 | 6 (2) | - | 3.0 | 3.0 | 3.0 | 3.0 | Poor | Partly dead. | Remove | <10 | U | 1.8 | 10 |
| H36 | Hawthorn <br> Elm <br> Ash <br> Blackthorn <br> Lawson cypress <br> Cherry (Prunus sp.) | SM | 180 | 5 (0) | - | 2.0 | 2.0 | 2.0 | 2.0 | Fair | Contains dead elm. Dense ivy cover. Trimmed to 3m | Remove dead elm from hedgerow | 20+ | B2 | 1.8 | 10 |
| T37 | Ash | M | 740 | 16 (1.5) | - | 8.0 | 8.0 | 8.0 | 8.0 | Fair | Dominant tree. Sense ivy cover restricting detailed assessment and crown development. | Cut ivy and reinspect | 20+ | B1 | 8.9 | 248 |
| T38 | Ash | EM | 410 | 14 (2) | 4 N | 7.0 | 7.0 | 7.0 | 7.0 | Good | Estimated diameter. Ivy cover to 8m. | Cut ivy and reinspect | 20+ | B1 | 4.9 | 76 |
| T39 | English oak. | M | 900 | 16 (2) | 4 N | 8.0 | 8.0 | 8.0 | 8.0 | Good | Not shown on topo. Dominant notable tree. Dense ivy to 12 m . Unable to accurately assess stem | Cut ivy and reinspect | 40+ | A1 | 10.8 | 366 |
| T40 | Honey locust (Gleditsia triacanthos) | SM | 310 | 9 (2) | 2 W | 5.0 | 5.0 | 5.0 | 5.0 | Good | Dominant tree. | No work recommended | 40+ | B1 | 3.7 | 43 |
| T41 | Atlas cedar (Cedrus atlantica) | SM | 430 | 7 (2) | - | 3.0 | 3.0 | 3.0 | 3.0 | Good | Intermediate tree | No work recommended | 20+ | B1 | 5.2 | 84 |
| G42 | Pear (pyrus sp.) | SM | 180 | 7 (2) | - | 3.0 | 3.0 | 3.0 | 3.0 | Good | Intermediate tree | No work recommended | 20+ | B2 | 2.2 | 15 |
| G43 | Apple <br> Norway maple (Acer platanoides) | SM | $\begin{aligned} & 190 \\ & 250 \end{aligned}$ | 8 (2) | 1.5 S | 3.5 | 3.5 | 3.5 | 3.5 | Good | Apple to north forms two stems at 1.3m. | No work recommended | 20+ | B2 | 3.7 | 43 |

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| Tree No. | Tree Species | $\begin{aligned} & \text { Life } \\ & \text { Stage } \end{aligned}$ | Stem $\varnothing$$(\mathrm{mm})$ at1.5 m | Height (crown height) (m) | Height of (FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | RPA area (m2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |
| T44 | Sycamore | SM | 120 | 4.5 (2) | 2 | 2.5 | 2.5 | 2.5 | 2.5 | Good | Single stemmed tree. | No work recommended | 20+ | C1 | 1.4 | 7 |
| G45 | Cherry Indian <br> Bean tree (Catalpa bignonioides)  <br> Apple  | M | 390210 | 7 (2) | - | 5.0 | 5.0 | 5.0 | 5.0 | Good | Group within mutual crown. | No work recommended | 20+ | B2 | 5.3 | 88 |
| G46 | Cypress (Cupressus sp.) | SM | 150 | 5 (0) | - | 2.0 | 2.0 | 2.0 | 2.0 | Good | Pair with mutual crown | No work recommended | 20+ | C2 | 1.8 | 10 |
| T47 | Snake bark maple (Acer capillipes) | SM | 100 | 4.5 (2) | 1.5 E | 2.5 | 2.5 | 2.5 | 2.5 | Good | Small tree good condition. | No work recommended | 10+ | C1 | 1.2 | 5 |
| G48 | Cockspur thorn (Crataegus crusgalli) Japanese maple (Acer palmatum) | SM | 160 | 4 (2) | - | 0.5 | 2.0 | 0.5 | 2.0 | Good | Pleached avenue. | No work recommended | 20+ | B2 | 1.9 | 12 |
| G49 | Jacquemont's birch (Betula Utilis Jacquemontii) <br> Sycamore | SM | 330 | 1092) | - | 5.0 | 5.0 | 5.0 | 5.0 | Good | 3 birch and one sycamore. | No work recommended | 20+ | B2 | 4.0 | 49 |
| G50 | Lime Leyland cypress | SM | 420 | 11 (2) | 3 N | 5.0 | 5.0 | 5.0 | 5.0 | Good |  | No work recommended | 20+ | B2 | 5.0 | 80 |
| G51 | Cherry (x3) | SM | 220 | 8 (2) | - | 4.5 | 4.5 | 4.5 | 4.5 | Good |  | No work recommended | 20+ | B2 | 2.6 | 22 |
| G52 | Corsican pine (Pinus nigra) <br> Sycamore <br> Leyland cypress <br> Silver birch | EM | 510 | 10 (2) | - | 6.0 | 6.0 | 6.0 | 6.0 | Good | Dense canopy mutual crown. | No work recommended | 20+ | B2 | 6.1 | 118 |

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JAMES BLAKE

| Tree No. | Tree Species | Life Stage | Stem $\varnothing$ ( mm ) at 1.5 m | Height (crown height) (m) | Height of (FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | RPA area (m2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |
| G53 | Cedar of Lebanon (Cedrus libani) <br> Sycamore <br> CherryOak Apple | EM | 440 | 10 (2) | - | 6.5 | 6.5 | 6.5 | 6.5 | Good | Group to south of drive, Mutual crown. | No work recommended | 20+ | B2 | 5.3 | 88 |
| T54 | Silver birch | EM | $\begin{array}{\|c} 190200 \\ 260 \end{array}$ | 12 (2) | 4 W | 5.0 | 5.0 | 5.0 | 5.0 | Good | Forms 3 stems at ground level with V-shaped union and bark inclusion | No work recommended | 20+ | B1 | 4.7 | 69 |
| T55 | Common Line (Tilia $\times$ europaea) | SM | 480 | 9 (2) | - | 6.0 | 6.0 | 6.0 | 6.0 | Good | Intermediate tree | No work recommended | 40+ | B1 | 5.8 | 104 |
| T56 | White willow (Salix alba) | M | 1020 | 12 (1) | - | 9.0 | 9.0 | 9.0 | 9.0 | Good | Off-site tree not shown on topo. Damaging fence. Multistemmed form. Estimated diameter. | No work recommended | 20+ | B1 | 12.2 | 470 |
| T57 | Cypress (Cupressus sp.) | SM | 450 | 8.0 (0) | - | 3.5 | 3.5 | 3.5 | 3.5 | Good | Estimated diameter, unable to access. | No work recommended | 40+ | B1 | 5.4 | 92 |
| G58 | Swedish whitebeam | SM | 180 | 6.5 (2) | 2 N | 3.0 | 3.0 | 3.0 | 3.0 | Good | Pair of trees with mutual crown. | No work recommended | 20+ | C2 | 2.2 | 15 |
| G59 | Lime | SM | 360 | 10 (2) | - | 5.0 | 5.0 | 5.0 | 5.0 | Good |  | No work recommended | 40+ | B2 | 4.3 | 59 |
| G60 | Swedish whitebeam | SM | 160 | 6 (2) | - | 3.0 | 3.0 | 3.0 | 3.0 | Good |  | No work recommended | 20+ | C2 | 1.9 | 12 |
| G61 | Common lime Swedish whitebeam | SM | 380 | 8 (2) | - | 5.0 | 5.0 | 5.0 | 5.0 | Good | Group with mutual crown | No work recommended | 40+ | B2 | 4.6 | 65 |

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JAMES BLAKE
A S S O C I A T E S

| Tree No. | Tree Species | Life <br> Stage | Stem $\emptyset$ ( mm ) at 1.5 m | Height (crown height) (m) | Height of (FSB) | Crown Spread |  |  |  | Condition | Comments | Tree Management Recommendations | ERC (Years) | $\begin{aligned} & \text { BS } \\ & \text { Cat } \end{aligned}$ | RPA Radius (m) | RPA area <br> (m2) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | N | E | S | w |  |  |  |  |  |  |  |
| T62 | Ash | EM | 800 | 12 (3) | 5 S | 9.0 | 9.0 | 9.0 | 9.0 | Good | Off-site tree, not on topo. | No work recommended | 20+ | B1 | 9.6 | 289 |
| T63 | Swedish whitebeam | SM | 110 | 5 (2) | 2 sw | 2.0 | 2.0 | 2.0 | 2.0 | Fair | Cavity $0.4 \mathrm{~m} \times 0.1 \mathrm{~m}$ to south. | No work recommended | 10+ | C1 | 1.3 | 5 |
| G64 | Lime (x1) <br> Grey alder (Alnus incana) <br> Swedish whitebeam | SM | 290 | 8 (2) | - | 4.0 | 4.0 | 4.0 | 4.0 | Good | Group of three trees. | No work recommended | 20+ | B2 | 3.5 | 38 |
| G65 | Swedish whitebeam (x2) Silver birch (x2) | SM | 360 | 10 (2) | - | 5.5 | 5.5 | 5.5 | 5.5 | Good | Group of four trees. Maximum diameter recorded. | No work recommended | 20+ | B2 | 4.3 | 59 |
| G66 | Common lime (x2) <br> Swedish whitebeam (x4) | SM | 330 | 8 (2 | - | 5.0 | 5.0 | 5.0 | 5.0 | Good |  | No work recommended | 20+ | B2 | 4.0 | 49 |
| G67 | Lime (x1) <br> Swedish whitebeamn (x6) | SM | 380 | 9 (2) | - | 5.5 | 5.5 | 5.5 | 5.5 | Good |  | No work recommended | 40+ | B2 | 4.6 | 65 |
| H68 | Ash <br> Hazel (corylus avellana) <br> Beech <br> Field maple | SM | 100 | 5 (0) | - | 2.0 | 2.0 | 2.0 | 2.0 | Fair | Contains dead elm. Trimmed at 3m. | Remove dead elm from within hedgerow | 10+ | C2,3 | 1.2 | 5 |
| T69 | English oak | SM | 820 | 10 (2.5) | - | 8.0 | 8.0 | 8.0 | 8.0 | Good | Dominant tree. Unable to access. Estimated diameter. | No work recommended | 40+ | B1 | 9.8 | 304 |
| T70 | Silver birch | M | 720 | 13 (2) | 2 W | 8.0 | 8.0 | 8.0 | 8.0 | Good | Notable birch. Good extension growth and crown density. | No work recommended | 20+ | B1 | 8.6 | 234 |

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APPENDIX 2: JBA DRAWINGS

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    Chairman: James Blike BA HAnss) Dip LA AHons) CML
    Company Secretary: LLuise Blake BSC PGCE
    
    

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    Chairman: lames Blake BA Hons) Dip LA AHons) CML
    Company Secretary: Louise Blike BSCPGCE
    
    

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    Company Secretary: Louise Blike BCPGGCF
    
    

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    Chairman: lames Blake BA Hons) Dip LA AHons) CML
    Company Secretary: Louise Blike BSCPGCE
    

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    Chairman: lames Blake BA A Hons) Dip LA AHons) CML
    Company secretary: Louise Blake ESCP PGCE
    
    

