



Landscape  
Architecture



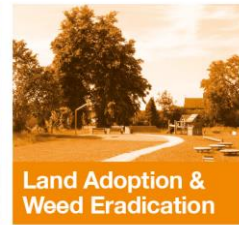
Landscape  
Planning



Arboriculture  
& Tree Works



Ecology & Habitat  
Management



Land Adoption &  
Weed Eradication



Urban  
Design

# JAMES BLAKE

# A S S O C I A T E S

## Arboricultural Impact Assessment

Anglia Business Park, Wattisham Road, Ringshall,  
Ipswich IP14 2HX

on behalf of

**Wilkinson Planning (Ipswich)**

6 December 2021

JBA 21/299 AR01

Over 30 Years of Service, Value and Innovation

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<b>Project</b>	Anglia Business Park, Wattisham Road, Ringshall, Ipswich IP14 2HX
<b>Report</b>	Arboricultural Impact Assessment
<b>Date</b>	6 December 2021
<b>Author</b>	Peter Brais <i>BSc TechArborA</i>
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## 1 SUMMARY

- 1.1 This Arboricultural Impact Assessment has been commissioned by Wilkinson Planning (Ipswich) to accompany their planning submission for the construction of 44 units, with associated infrastructure and car parking including EV charging points.
- 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 The recommendation is that the proposal is approved subject to a successful tree protection methodology and a scheme of new tree planting.

## 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 Anglia Business Park, Wattisham Road, Ringshall, Ipswich 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 Details of all surveyed vegetation can be found within the Tree Survey Schedule in **Appendix 1**. 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 AS1523-01-02 by Alpha Surveys; and
  - Proposed site layout reference 5442-0102-P02- Site Plan as Proposed

### 3 OBSERVATIONS

#### Site visit

- 3.1 The site was visited by Peter Brais, Principal Arboriculturist, on 14 October 2021 to identify, measure and locate trees and significant vegetation within and directly adjoining the site.

#### Site and context

- 3.2 The roughly square site is an existing business park approximately 7Km southwest of Needham Market, Suffolk. The site is surrounded by trees and hedgerows with fields to the west, north and east. Wattisham Road runs parallel with the southern boundary, with Wattisham Airfield beyond.
- 3.3 A large area of hard surfacing occupies the entrance to the site in the southeast corner. Two internal access roads extend across the site to the northwest and north, with the remainder of the site covered in grass.
- 3.4 Continuous hedges and groups of trees run along all boundaries, with deciduous woodland extending along the western side of the site. The eastern boundary consists of larger semi mature trees, separating the site from neighbouring fields.
- 3.5 Throughout the site there are a range of specimen trees and groups that contribute significantly to the wider landscape. However, the overall quality varies considerably, and many are of low value as individuals due to structural defects or poor historical management.



**Fig 1.** Approximate site boundary in relation to its surroundings



## 4 VIEWS OF TREES



**Photograph 1** (above). G1, mixed species, located immediately to the west of the main entrance. Viewed looking towards the west from the southern boundary.



**Photograph 2**. G1, mixed species, located further to the west of the main entrance. Viewed looking towards the south-west from the southern boundary.





**Photograph 3** (left). T2, cherry, located centrally to the north of the southern boundary. Viewed looking towards the northwest.

**Photograph 4** (below). G3, mainly goat willow. Viewed looking towards the north from the south-west corner of the site.







**Photograph 5** (above). G4, mixed species, and T5, giant sequoia (centre) located off-site along the western boundary. Viewed looking towards the north from the western site boundary.

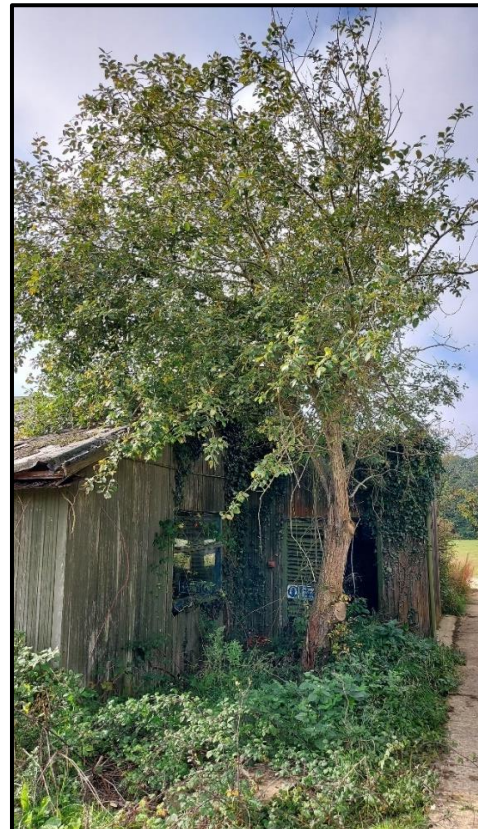


**Photograph 6.** G4, mixed species, located off-site to the north of the western boundary. Viewed looking towards the south-west from the northern site boundary.





**Photograph 7** (above). G6, blackthorn, elm, hazel and field maple, located along the northern boundary. Viewed looking towards the north-west from the centre of the northern boundary.



**Photograph 8** (right). T7, goat willow, located centrally to the south of the northern boundary. Viewed looking towards the south-west.





**Photograph 9** (above). G8, aspen, blackthorn and hawthorn, located along the eastern boundary. Viewed looking towards the south-east.



**Photograph 10**. G9, elm and dogwood, located centrally to the west of the eastern boundary. Viewed looking towards the north-west from the eastern boundary.





**Photograph 11** (above). G1, mixed species, located to the east of the site entrance. Viewed looking towards the south-west from the eastern boundary.



**Photograph 12** (left). T10, hawthorn. Viewed looking towards the west.





**Photograph 13** (above). T11, bullace, located centrally. Viewed looking towards the south-west.



**Photograph 14.** T13, silver birch, T14, bullace, T15 Swedish whitebeam and G16, English oak, located next to existing buildings to the south of the site. Viewed looking towards the south-west.





**Photograph 15.** G17, English oak and field maple, located to the north of the southern internal road. Viewed looking towards the north-west.



## 5 TECHNICAL INFORMATION

### Statutory protection

- 5.1 According to Babergh and Mid Suffolk District Council Interactive Mapping Service <http://maps.midsuffolk.gov.uk/> (accessed 7 December 2021) the site was 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 London Clay Formation - Clay, Silt and Sand. Superficial deposits are shown as Lowestoft Formation - Diamicton.

### 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 within or adjacent to the site.

## 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 21-299 Tree Constraints Plan-TCP01 in **Appendix 2**.
- 6.2 Of the 17 survey entries, one was young, 14 were assessed as being semi-mature, one was early mature and one was mature.
- 6.3 The survey assessed the tree population as consisting predominantly of low and moderate-quality trees. Of the 17 survey entries one was category U, four were of low quality and value (category C), 11 were assessed as being moderate quality and value (category B) and the remaining tree was high quality (category A).

### Identified impacts

- 6.4 Drawing JBA 21 299 TRP01 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
  - Tree protection requirements
  - Replacement planting

### Tree removals

- 6.6 To implement the proposed development, it will be necessary to undertake the tree work specified in the table below:

Tree Number	Species	Work Requirements	Reason(s) for works
G1	English oak Goat willow Blackthorn Field maple Hazel Elm	Remove most southeast corner.	To facilitate access road construction.
T2	Cherry	Remove tree and stump.	To facilitate parking space and building construction.

Tree Number	Species	Work Requirements	Reason(s) for works
G3	Goat willow Hawthorn Beech Silver birch Common walnut	Remove sections to the north and east.	To facilitate building and internal road construction respectively.
G6	Blackthorn Elm Hazel Field maple	Remove southern section in the centre of the northern boundary.	To facilitate building construction.
G8	Aspen Blackthorn Hawthorn	Remove western section in the centre of the eastern boundary.	To facilitate building construction.
T10	Hawthorn	Remove tree and stump.	To facilitate building construction.
T11	Bullace	Remove tree and stump.	To facilitate parking space construction.
T12	Bullace	Remove	Reduced safe useful life expectancy of less than 10 years.
T13	Silver birch	Remove tree and stump.	To facilitate building construction.
T14	Bullace	Remove tree and stump.	To facilitate building construction.
T15	Swedish whitebeam	Remove tree and stump.	To facilitate building construction.
G16	English oak	Remove tree and stump.	To facilitate parking space construction.
G17	English oak Field maple	Remove tree and stump.	To facilitate internal road construction.

- 6.7 Tree work recommendations, based on good arboricultural practice but irrespective of development, are listed in the Tree Management Recommendations column in the Tree Survey Schedule in **Appendix 1**.
- 6.8 Relatively little vegetation requires removal and is all located internally. Consequently, its loss to public amenity is considered to be negligible due to its overall condition, lack of visual presence and the ability to replace with high quality planting.
- 6.9 Most of the vegetation growing around the boundaries of the site is to be retained and can be adequately protected throughout the development process.



## Tree Protection

- 6.10 Drawing JBA 21 299 TPP01 in **Appendix 2** shows the position and extent of tree protection that will be required during construction.
- 6.11 No specialised construction methods are required, and all works are outside precautionary RPAs of retained trees.
- 6.12 Tree protection will therefore consist of robust fencing secured to a solid framework as recommended within BS5837:2012.

## Replacement planting

- 6.13 The development proposals include a comprehensive landscape strategy which includes significant tree, shrub and hedgerow planting.
- 6.14 As part of the proposals new trees will be planted at key locations throughout the development.
- 6.15 These new trees offer the opportunity to replace the low quality, tree population that currently occupies the site and ensures the continuation of visual and green amenity for future generations.

## 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 All trees to be removed are located internally to the site thereby minimising the impact of development on the local landscape.
- 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 methodology is clearly understood and correctly implemented.
- 7.5 It is recommended that the proposal is approved subject to scheme of new tree planting and successful tree protection methodology.

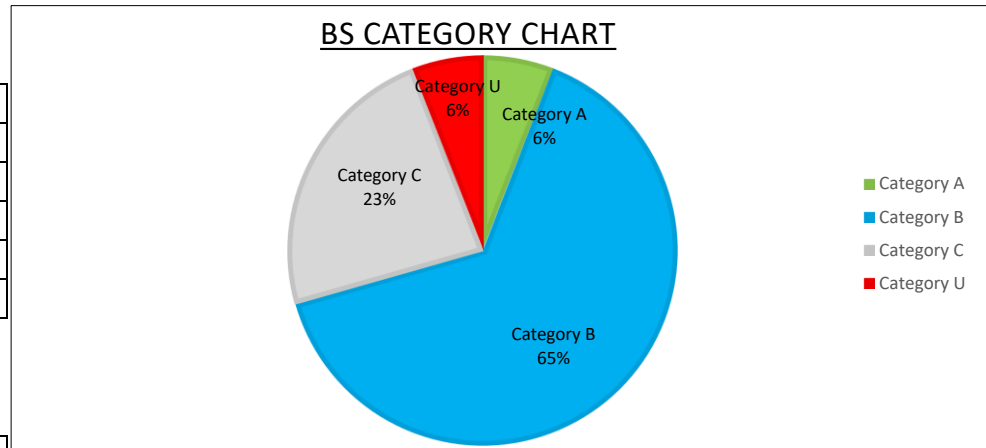
## APPENDIX 1: TREE SURVEY SCHEDULE



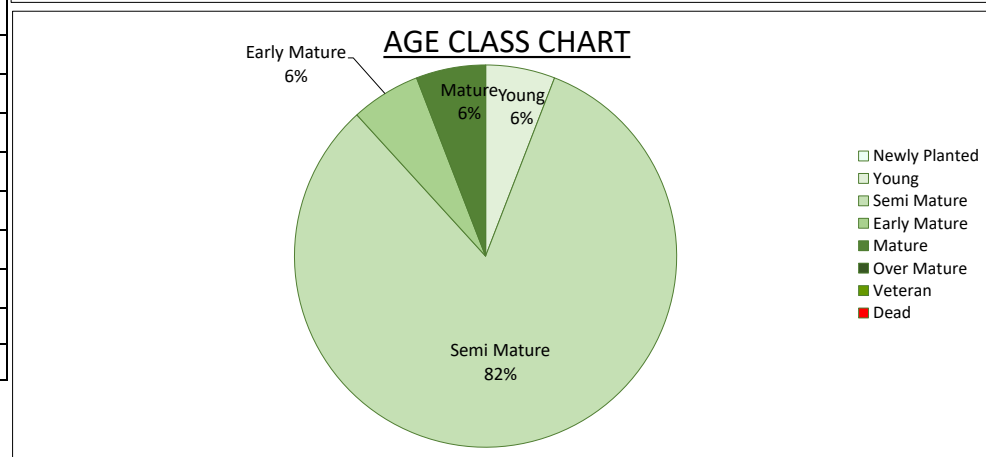
## Tree Survey Schedule - Key

Life Stage	Description	Key	Description	BS Category	Description
NP	Newly planted	<b>Stem Ø (mm) at 1.5m</b>	Diameter of stem(s) in millimetres measured at 1.5m above ground level in accordance with BS 5837:2012.	A	Tree(s) of high quality with an estimated remaining life expectancy of at least 40 years.
Y: Young	An establishing tree that could be easily transplanted.	<b>Stems</b>	Trees are single-stemmed unless noted otherwise in schedule.	B	Tree(s) of moderate quality with an estimated remaining life expectancy of at least 20 years.
SM: Semi Mature	An established tree still to reach its ultimate height and spread and with considerable growth potential.	<b>Height of (FSB)</b>	Height of first significant branch above ground level.	C	Tree(s) of low quality and value with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm.
EM: Early Mature	A tree reaching its ultimate height and whose growth is slowing however it will still increase in stem diameter and crown spread.	<b>Crown Spread</b>	Crown spread at the four cardinal points, North, South, East and West.	U	Unsuitable for retention. Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.
M: Mature	A tree with limited potential for further significant increase in size although is likely to have a long safe useful life expectancy.	<b>Condition</b>	Assessment of the physiological and structural condition of the tree observed at the time of surveying.		<b>RPA radius (m)</b>  Radius of Root Protection Area (RPA) in metres based on relevant calculation in BS5837:2012 section 4.6.
OM: Over Mature	A senescent or moribund tree with a limited useful life expectancy.	<b>ERC (Years)</b>	Estimated Remaining Contribution in Years (<10, 10+, 20+, 40+)		<b>RPA Area (m2)</b>  A layout design tool indicating the minimum area surrounding the tree that contains sufficient rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority. Size and shape based on calculations and constraints noted in BS5837:2012 section 4.6.
V: Veteran	A tree older than typical for its species and of significant ecological, cultural or aesthetic value.				

BS Category	Total
Category A	1
Category B	11
Category C	4
Category U	1
	17



Age Class	Total
Newly Planted	0
Young	1
Semi Mature	14
Early Mature	1
Mature	1
Over Mature	0
Veteran	0
Dead	0
	17





## Tree Survey Schedule

Site name: Anglia Business Park, Wattisham  
 Client: Wilkinson Planning  
 Job Number: 21 / 299

Survey Date: 14 October 2021  
 Surveyor: Peter Brais

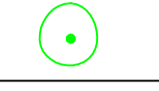
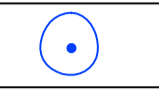
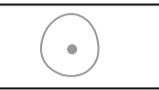


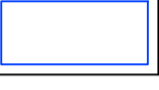



Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	ERC (Years)	BS Cat	RPA Radius (m)	RPA area (m <sup>2</sup> )
						N	E	S	W							
G1	English oak (Quercus robur) Goat willow (Salix caprea) Dogwood (Cornus sp.) Blackthorn (Prunus spinosa) Field maple (Acer campestre) Hazel (Corylus avellana) Elm (Ulmus sp.)	SM	260	10 (0)	-	5.5	5.5	5.5	5.5	Fair	Boundary group. Accurate location not defined on topo. Larger oak located on roadside boundary, unable to access.	No work recommended.	20+	B2, 3	3.1	31
T2	Cherry (Prunus sp.)	SM	260	8 (2)	2 S	6	6	6	6	Good	Dominant tree, next to dilapidated building. Not on topographical survey.	No work recommended.	20+	B1	3.1	31
G3	Goat willow Hawthorn (Crataegus monogyna) Beech (Fagus sylvatica) Silver birch (Betula pendula) Common walnut (Juglans regia)	SM	400 350 300	14 (0)	-	7	7	7	7	Good	Dense group with mutual crown formation. Dense understorey.	No work recommended.	20+	B2, 3	7.3	168
G4	Elder (Sambucus nigra) English oak Elm Hazel Hawthorn Ash (Fraxinus excelsior) Blackthorn Downy birch (Betula pubescens)	SM	100	6 (0)	-	4	4	4	4	Fair	Boundary group around west of site. Contains dead elm. Larger trees to west are in neighbouring gardens.	No work recommended.	10+	C2, 3	1.2	5
T5	Giant sequoia (Sequoiadendron giganteum)	EM	900	16	-	7	7	7	7	Good	Unable to access. Estimated diameter and dimensions.	No work recommended.	40+	A1	10.8	366
G6	Blackthorn Elm Hazel Field maple	SM	100	6 (0)	-	3	3	3	3	Good	Boundary group along northern path of the site. Contains dead elm. Very dense structure. Larger trees to north outside influencing distance of the development.	No work recommended.	20+	B2, 3	1.2	5

Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	ERC (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T7	Goat willow	SM	260	7 (2)	2 W	4	4	4	4	Fair	Intermediate tree. Significant dead branches and dieback. Large pruning wounds 210 and 130mm diameter at 0.8 and 1.8m to the north respectively.	No work recommended.	10+	C1	3.1	31
G8	Aspen (Populus tremula) Blackthorn Hawthorn	SM	250	9 (0)	-	5	5	5	5	Good	Boundary group with mutual crown formation. Contains dead elm.	No work recommended.	20+	B2, 3	3.0	28
G9	Elm Dogwood	SM	200	8 (0)	-	4	4	4	4	Fair	Group comprising mainly elm. Unable to Assess for detailed assessment. Estimated diameter. Contains some dead trees. Aerodynamically optimised form.	No work recommended.	20+	B2,3	2.4	18
T10	Hawthorn	SM	60 x 10	4.5 (0.5)	1 S	3	3	3	3	Good	Intermediate tree. Good form and condition. Multi-stemmed form.	No work recommended.	20+	B1	2.3	17
T11	Bullace (Prunus domestica subsp. Insititia)	SM	80 x 8	5 (2)	-	4	4	4	4	Fair	Intermediate tree. Multi-stemmed form. Some deadwood.	No work recommended.	10+	C1	2.8	24
T12	Bullace (Prunus domestica subsp. Insititia)	M	300 400	6 (2)	-	4	4	4	4	Poor	Intermediate tree. Large unoccluded topping wounds, 150mm diameter. Multi-stemmed at ground level. Dense ivy cover. Dead wood in crown	Remove for health and safety reasons.	<10	U	6.0	113
T13	Silver birch	SM	300	9 (3.5)	-	5	5	5	5	Good	Estimated diameter. Unable to access. Not shown on topo.	No work recommended.	20+	B1	3.6	41
T14	Bullace (Prunus domestica subsp. Insititia)	SM	120 200 170	8 (0.5)	-	2	2	2	2	Good	Forms three stems at 0.5m with V-shaped union and bark inclusion. Not shown on topo.	No work recommended.	20+	B1	3.5	38
T15	Swedish whitebeam (Sorbus intermedia)	Y	80 60	4.5 (0.5)	-	2	2	2	2	Good	Intermediate tree. Forms co-dominant stems at 1.2m. Not shown on topo.	No work recommended.	20+	C1	1.2	5
G16	English oak	SM	190	7 (1.5)	-	5	5	5	5	Good	Co-dominant pair of trees. Good form and extension growth. Not shown on topo.	No work recommended.	20+	B2	2.3	16
G17	English oak Field maple	SM	130 120	4 (0)	-	3	3	3	3	Good	Pair of trees with mutual crown. Not shown on topo.	No work recommended.	20+	B2	2.2	15



## APPENDIX 2: JBA DRAWINGS

# KEY

-  Green - Category A tree of high quality and value.
-  Blue - Category B tree of moderate quality and value.
-  Grey - Category C tree of low quality and value.
-  Red - Category U tree in irreversible decline or dead.
-  Green - Cat A Groups/hedges of high quality and value.
-  Blue - Cat B Groups/hedges of moderate quality and value.
-  Grey - Cat C Groups/hedges of low quality and value.
-  Red - Cat U Groups/hedges that are dead or showing signs of irreversible decline.
-  Root Protection Area as calculated in accordance with BS 5837:2012



REV.	DATE	DETAILS	DWG. TITLE
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ORG BY:	CHECKED:	AUTHD:	SCALE:
DCS	JBA	JBA	1:500@A1
DATE:	DWG. NO.:	REV.:	
17.11.2021	JBA 21026-TCPS1		

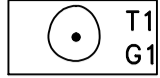
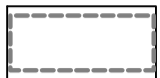
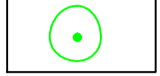
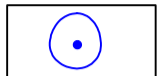
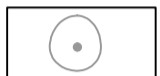




**GENERAL NOTES**  
 -ALL DIMENSIONS IN MILLIMETRES  
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 -ALL DIMENSIONS TO BE CHECKED ON SITE

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 LANDSCAPE ARCHITECTURE o ARBORICULTURE o ECOLOGY

Daniel Gibson - 17/11/2021 - 1704mg2.dwg



# KEY

-  T1  
G1 Existing Tree or Group colour referenced in accordance with BS 5837:2012 as shown below
-  Existing hedge or group colour coded as above in accordance with BS 5837.
-  Green - Category A tree of high quality and value.
-  Blue - Category B tree of moderate quality and value.
-  Grey - Category C tree of low quality and value.
-  Red - Category U tree of poor quality and value.
-  Blue - Cat B Groups/hedges of moderate quality and value.
-  Grey - Cat C Groups/hedges of low quality and value.
-  Tree or group to be removed.



GENERAL NOTES  
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 (C)JAMES BLAKE ASSOCIATES LTD 2020

REV	DATE	BY	CHKD	APP'D
CLIENT Wilson Planning				DWG. TITLE The Phoenix Plan
SITE High Business Park, Witham Road, Ryeleigh, Suffolk				
PURPOSE OF ISSUE				
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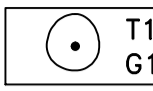
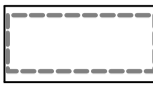

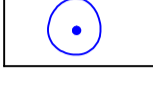
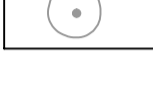
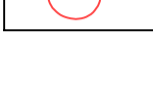
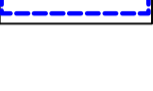

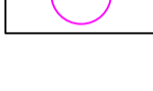
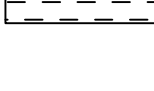
**JAMES BLAKE ASSOCIATES**

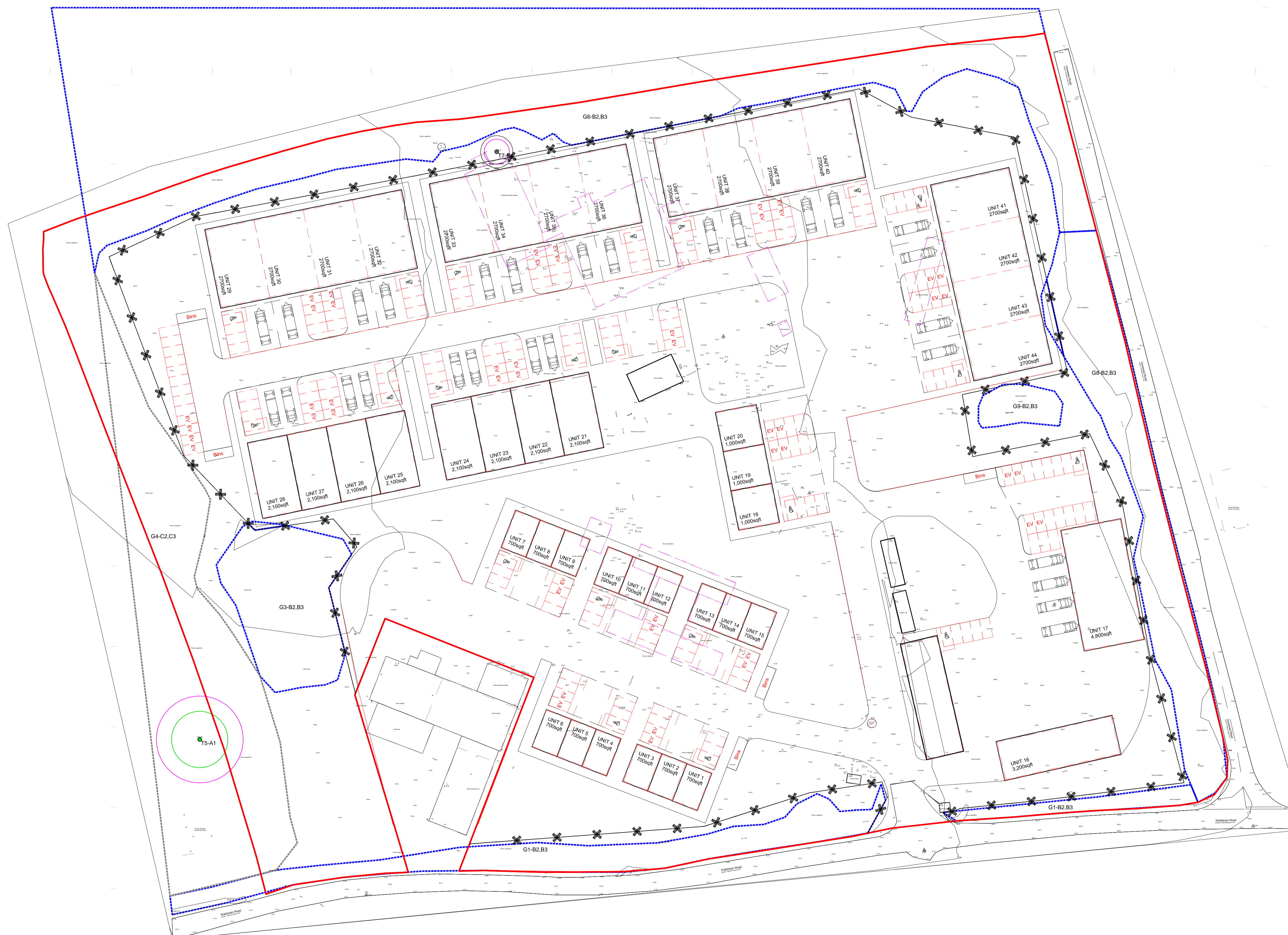
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 jamesblake@jba-landscapes.com www.jba-landscapes.com  
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Project: Gibbon - 17/11/2021 - \\JB\FILES\20\NewStructures\JBAClient\Projects\Wilson\Running\21\_259\_R01\_Anglo\_Business\_Park\_Westham\_Road\_Ryeleigh\_Suffolk\Drawings\JBAClient\259\_IP33\_IP33\_1991.dwg



# KEY

-  T1  
G1 Existing Tree or Group colour referenced in accordance with BS 5837:2012 as shown below
-  Existing hedge or group colour coded as above in accordance with BS 5837.
-  Green - Category A tree of high quality and value.
-  Blue - Category B tree of moderate quality and value.
-  Grey - Category C tree of low quality and value.
-  Red - Category U tree of poor quality and value.
-  Blue - Cat B Groups/hedges of moderate quality and value.
-  Grey - Cat C Groups/hedges of low quality and value.
-  Root Protection Area as calculated in accordance with BS 5837:2012
-  Arbicultural supervision of road and footway works within Root Protection Areas



DATE	2021	ISSUE	01/01
CLIENT	Wilson Planning	DWG. TITLE	Tree Protection Plan
SITE	Angla Business Park, Westham Road, Ringham, Suffolk		
PURPOSE OF ISSUE	As shown		
DRG BY	CHEKED	AUTHD	SCALE
DCJ	JBA	JBA	1:200@A1
DATE	12.11.2021	DWG NO.	JBA/208-1991
REV.	-	-	-

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**GENERAL NOTES**

- ALL DIMENSIONS IN MILLIMETRES  
 - DO NOT SCALE OFF THIS DRAWING  
 - ALL DIMENSIONS TO BE CHECKED ON SITE

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 Date: 17/11/2021