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Arboricultural Impact Assessment

RIBA Stage 4

Aldi, Watling Street, Hinckley

Report Number: RT-MME-160472-01 Rev A
Date: June 2023

Middlemarch Environmental Ltd, Triumph House, Birmingham Road, Allesley, Coventry, CV5 9AZ
www.middlemarch.eco
Tel: 01676 525880

Report Verification

Report Version	Date	Completed by:	Checked & Approved by:
Final	19/06/2023	Stefan Harrison BSc (Hons) MArborA Arboricultural Consultant	Duncan Smith BSc (Hons) MArborA Arboricultural Manager
Revision A	29/06/2023	Stefan Harrison BSc (Hons) MArborA Arboricultural Consultant	Duncan Smith BSc (Hons) MArborA Arboricultural Manager

Declaration of Compliance

This study has been undertaken in accordance with British Standard 5837:*2012 'Trees in Relation to Design, Demolition and Construction – Recommendations'.*

Disclaimer

The contents of this report are the responsibility of Middlemarch. It should be noted that, whilst every effort is made to meet the client's brief, no site investigation can ensure complete assessment or prediction of the natural environment.

Middlemarch accepts no responsibility or liability for any use that is made of this document other than by the client for the purposes for which it was originally commissioned and prepared.

Validity of Data

The findings of this study are valid for a period of 12 months from the date of survey. If works have not commenced by this date, an updated site visit should be carried out by a suitably qualified and experienced arboriculturist to assess any changes to the trees, groups, and hedgerows on site and to inform a review of the conclusions and recommendations made.

It should be noted that trees are dynamic living organisms that are subject to natural changes as they age or are influenced by changes in their environment. As such, following any significant meteorological event or changes in the growing environment of the trees they should be re-assessed by a suitably qualified and experienced arboriculturist.

This Arboricultural Impact Assessment has been produced following a review of a proposed development layout for the site based on data provided by the client. Should the development proposals change, this report will need to be updated to assess the impact of the amended development.

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1. Introduction

1.1 Project Background

This Arboricultural Impact Assessment was commissioned by Avison Young Ltd as part of a planning application for an extension to the existing ALDI store and car park at Watling Street, Hinckley. A survey of the trees on site and within influencing distance of the boundaries was undertaken on the 19th May 2023 as part of a Preliminary Arboricultural Assessment to aid design and avoid unnecessary tree removal.

This Arboricultural Impact Assessment has been carried out in accordance with British Standard 5837:2012 *'Trees in Relation to Design, Demolition and Construction - Recommendations'*[1] (hereafter referred to as BS5837).

The purpose of this report is to:

- Review the relationship between the proposed development and the existing trees and hedgerows identified during the Preliminary Arboricultural Assessment.
- Provide a Tree Retention Plan to determine trees and hedgerows to be retained and removed in the context of the proposed development.
- Identify mitigation to offset any tree or hedgerow loss as part of the development proposals.
- Identify all areas where specific working methods are required to ensure protection of retained trees and hedgerows as part of an Arboricultural Method Statement.

1.2 Site Description, Drawings and Appendices

Attribute	Description
National Grid Reference	SP 39654 93335
Topography	Flat.
Tree Cover	The trees recorded during the survey were predominantly of low quality and all trees bar one, which was within the centre of the car park, were situated adjacent to the boundaries of the site.
Drawings attached	Tree Survey Plan – C160472-01-01 Tree Retention Plan – C160472-02-01
Appendices	Appendix A – Tree Schedule

Table 1.1: Summary of Site and Surroundings

[1] British Standards Institution. (2012). *British Standard 5837:2012, Trees in relation to design, demolition, and construction – Recommendations.* British Standards Institution, London.

1.3 Development Proposals

The proposed development of the site includes an extension to the existing ALDI store and car park.

1.4 Documentation Provided

This assessment is based upon the information provided by the client in addition to information collected by Middlemarch during the Preliminary Arboricultural Assessment, as detailed below.

Author	Document	Drawing Number	Date
STOAS Architects	Proposed Site Plan	K22A01-P003 A	26.01.22
Middlemarch Environmental	Detailed Soft Landscaping	MEL-564-001 P2	29.06.23

Table 1.2: Documentation Provided

2. Survey Methodology

2.1 Survey Scope

To determine the status of the trees within the site, a full arboricultural survey has been undertaken, assessing the species and status of all trees present. This survey has been carried out in accordance with BS5837.

All individual trees with a stem diameter greater than 75 mm are shown on the Tree Survey Plan and have been assigned a unique reference number. Trees were visually assessed and a schedule prepared listing:

- Tree number
- Species
- Tree height
- Minimum crown clearance
- Stem diameter
- Crown spread
- Age class
- Vigour
- Structural condition

Measurements for tree height, minimum crown clearance and crown spread were taken to an accuracy of 0.5 m. Stem diameter measurements were recorded to the nearest 10 mm. Any specific observations were also noted. All observations and measurements are included in Appendix A Tree Schedule.

Trees were assessed and assigned one of the following categories:

Category U:
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.
Category A:
Trees of high quality with an estimated remaining life expectancy of at least 40 years.
Category B:
Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.
Category C:
Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm.

Categories A, B and C have further sub-categories with regards to the reasons for tree retention:

- Mainly arboricultural qualities.
- Mainly landscape qualities.
- Mainly cultural values, including conservation.

N.B. Certain trees considered unsuitable to retain in their current context (Retention Category U) may possess existing or potential conservation value which make them desirable to preserve in the context of wildlife habitat (e.g. areas with limited public access).

2.2 Root Protection Area (RPA)

To avoid damage to the roots or rooting environment of retained trees, the RPA has been calculated for each of the Category A, B and C trees in accordance with section 4.6 of BS5837. BS5837 recommends this as the minimum area around a tree that contains sufficient roots and rooting volume to maintain viable tree vigour and structure. Where groups of trees have been assessed, the Root Protection Area has been shown based on the maximum sized tree stem in each group and so may exceed the Root Protection Area required for some of the individual specimens within the group. Further detailed inspection of the individual trees forming a group may be required where development impacts upon individual trees forming the combined group.

Protection of the roots and soil structure within the RPA should be treated as a priority. These figures have been calculated utilising the formulas within Section 4.6 and Annex D of BS5837.

2.3 Tree Schedule

Appendix A details the individual trees, groups, hedgerows, and woodlands (where present) and includes the relevant information for each at the time of inspection. General observations of any structural and physiological condition and the presence of any decay or physical defects have also been included.

2.4 Assessment Limitations

This survey has been undertaken in accordance with BS5837 and trees with a stem diameter of less than 75mm and the specific location of species within a hedgerow have not been identified in accordance with the guidance. It may therefore be necessary during detailed design to undertake further assessment and accurate positioning of juvenile trees or woody species within hedgerows and tree groups to assist structural calculations for foundation design of structures in accordance with current building regulations and NHBC Chapter 4.2 *Building near Trees*[2].

This survey is not a full or thorough assessment of the health and safety of the trees on or adjacent to the site; and therefore, it is recommended that detailed tree inspections are undertaken on a regular basis with the express purpose of complying with the landowner's duty of care to satisfy health and safety requirements.

For the purposes of this assessment, a hedgerow is described as a line of trees or shrubs with canopies less than 5m wide which is regularly managed through pruning. Where trees are present within a hedgerow that are significantly different in character from the remainder, these have been identified and recorded separately. A tree survey in accordance with BS5837 does

[2] National House Building Council. (2022). *NHBC Standards 2022: Chapter 4.2 - Building Near Trees*. NHBC, Milton Keynes.

not assess hedgerows against the Hedgerow Regulations 1997[3] or from an ecological perspective.

The exact position of individual trees or species included as part of a tree group, hedgerow or woodland should be checked and verified on site prior to any decisions for foundation design, tree operations or construction activity being undertaken.

2.5 Conditions of Tree Survey

The survey was completed by a suitably qualified and experienced Arboriculturist from ground level and from within the boundary of the site. Aerial tree inspections or the internal condition of the stem/s or branches was not undertaken at this stage. Evaluation of tree condition given within this assessment applies to the date of survey and cannot be assumed to remain unchanged. It may be necessary to review these within 12 months, in accordance with sound arboricultural practice.

All survey data is based on a topographical survey where possible, supplied by the client. Where topographical information has not identified tree positions or Ordnance Survey mapping has been utilised, trees and hedgerows have been positioned using GPS and aerial photography to provide approximate locations in relation to existing surrounding features. Further confirmation of tree and hedgerow locations through a topographical survey of the site is recommended to ensure future design accuracy.

2.6 Tree Survey Plan

The Tree Survey Plan identifies the existing trees including above and below ground constraints which should be considered during the design process.

2.7 Tree Retention Plan

The Tree Retention Plan identifies which trees and hedgerows are to be retained and incorporated as part of the site development and which are to be removed.

[3] Department of the Environment, Transport, and the Regions: London. (1997). *The Hedgerows Regulations 1997: A Guide to the Law and Good Practice.*

3. Statutory Protection

3.1 Tree Preservation Order and Conservation Area Protection

A desk-based study was undertaken to identify if any of the trees present within or near the site are affected by statutory constraints as detailed below.

Statutory Constraint	Present ✓ ✗	Source	Details
TPO	✗	Hinckley and Bosworth Borough Council website	Not present
Conservation Area	✗	Hinckley and Bosworth Borough Council website	Not present
Ancient Woodland	✗	Multi Agency Geographical Information for the Countryside (MAGIC)	Not present

Table 3.1: Summary of Statutory Constraints that Affect the Site

Where a tree preservation order, conservation area or ancient woodland applies to trees within the assessment area, statutory constraints will apply to the development in respect of trees.

No works must be undertaken on the protected trees without prior permission from the Local Authority unless authorised as part of an approved planning application. Works include pruning, topping, lopping, uprooting or wilful damage or wilful destruction of these trees. Any proposed pruning works not currently approved will need to be fully specified and agreed within a future planning application.

3.2 Protected Species

Bats

Mature trees often contain cavities, hollows, peeling bark or woodpecker holes which provide potential roosting locations for bats. Bats and the places they use for shelter or protection (i.e. roosts) receive European protection under The Conservation of Habitats and Species Regulations 2017 (Habitats Regulations 2017)[4]. They receive further legal protection under the Wildlife and Countryside Act (WCA) 1981[5], as amended. Consequently, causing damage to a bat roost constitutes an offence.

Generally, should the presence of a bat roost be suspected whilst completing works on any trees on site then an appropriately licensed bat worker should be consulted for advice.

Birds

Trees offer potential habitat for nesting birds which are protected under the Wildlife and Countryside Act WCA 1981 (as amended). Some species (listed in Schedule 1 of the WCA) are

[4] HM Government – The National Archives (2017) [online] *The Conservation of Habitats and Species Regulations 2017*. Available at: https://www.legislation.gov.uk/uksi/2017/1012/contents/made

[5] HM Government – The National Archives 2017. *Wildlife and Countryside Act 1981*. [online] Available at: http://www.legislation.gov.uk/ukpga/1981/69/contents

protected by special penalties. This legislation makes it an offence to intentionally or recklessly damage or destroy an active bird nest or part thereof.

As the trees on, and adjacent, to the site provide potential habitat for nesting birds all tree work should ideally be completed outside the nesting bird season (Generally March to September).

If this is not possible then the vegetation should be subject to a nesting bird inspection by a suitably experienced ecologist prior to commencement of works. If any active nests are identified then the vegetation, and a defined buffer zone, will need to remain in place until the young have naturally fledged.

4. Results Summary

4.1 Preliminary Arboricultural Assessment

The assessment identified four individual trees and four groups of trees as detailed below and in Appendix A Tree Schedule.

BS5837:2012 Category	Tree/ Group Reference
U	T4.
A	-
B	T2, G3, G4.
C	T1, T3, G1, G2

Table 4.1: Summary of Trees and Groups in BS5837:2012 Categories

The assessment area comprised the land of the existing Aldi store situated on Watling Street in Hinckley as well as an area of adjacent grassland. The trees recorded during the survey were predominantly of low quality and all trees bar one, which was within the centre of the car park, were situated adjacent to the boundaries of the site.

One tree (T4) identified during the survey was considered unsuitable for retention due to its poor condition, which resulted in its remining life expectancy to be less than ten years. T4 was a young cherry tree which had severe apical dieback in its crown and presented less than a 50% live crown ratio. Due to the tree's young state, it is considered unlikely that it will be able to recover from such high levels of dieback and therefore its removal is recommended regardless of any future proposed development on the site.

One hornbeam tree (T2) and two groups of hornbeam trees (G3 & G4) which were identified during the survey were considered to be of moderate retention value (Retention Category B). The trees were all semi mature and exhibited healthy crown vigour, however, areas of included bark and other defects were observed in the crowns of the trees which prevented them from being considered higher value (refer to Appendix A – Tree Schedule).

The remaining two individual trees and two groups of trees (T1, T3, G1 & G2) recorded as part of the assessment were all considered to be of low retention value (Retention Category C). These specimens were in fair condition, however, they were prevented from being considered higher value because they either did not meet the required life expectancy of more than twenty years or they had stem diameters below the required 150mm. Overall, the trees within this categorisation should not be considered as a constraint to the site due to their limited amenity value which could be sufficiently replaced and enhanced through an effective replanting scheme.

5. Arboricultural Impact Assessment

5.1 Introduction

This section of the report details the potential impacts that the proposed development may have upon the site's tree stock. The assessment has been based upon the documents detailed in Table 1.1 with reference to the results of the Preliminary Arboricultural Assessment.

5.2 Tree Retention and Removal

The trees to be removed are detailed below and are identified on the Tree Retention Plan. All trees, groups and hedgerows not featured within the table below, are to be retained within the proposed development.

Tree/Group Reference	Species	Retention Category	Reason for Removal
T1	Ash	C	Proximity to proposed parking.
T3	Cherry	C	Within footprint of proposed store extension.
T4	Cherry	U	To be removed irrespective of any proposed development due to poor condition.
G1	Mixed	C	Proximity to proposed extension. Unsuitable for retention in areas due to conflict with proposed landscaping.
G2	Mixed	C	Proximity to proposed parking.
G4	Hornbeam	B	Proximity to proposed parking, footpath and drainage tank.

Table 5.1: Tree Removal

The proposed development will require the removal of two individual trees and three groups of trees.

An individual tree (T4) identified for removal was considered to be unsuitable for retention (Retention Category U) during the Preliminary Arboricultural Assessment and therefore the removal of the tree would be required, irrespective of the proposed development, due to its poor condition.

One group of hornbeam trees identified for removal (G4) was considered to be of moderate retention value (Retention Category B) and suitable new tree planting will therefore be required to offer an adequate level of mitigation for this loss.

The remaining trees and groups (T1, T3, G1 & G2) that are to be removed were considered to be of low retention value (Retention Category C) during the Preliminary Arboricultural Assessment. The proposed removal of these trees should be considered acceptable as new tree planting of higher quality trees more suited to the new development will make a lasting contribution to the visual amenity value and canopy coverage of the site.

5.3 Works within Root Protection Areas (RPA)

It is understood that the existing hard surfaces within the RPAs of the retained trees on site are to be retained and as such, no intrusive works are proposed within the RPAs of retained trees.

All works within the RPAs or beneath the canopies of retained trees should be detailed as part of an Arboricultural Method Statement to ensure the method of construction is suitably considered.

5.4 Trees and Foundations

Any structures built on the site should comply with current building regulations and NHBC Chapter 4.2 - *Building near Trees* (2022)[6]. Foundation depths for buildings near or adjacent to trees should consider the potential size of the trees at maturity and their subsequent water demand. The soil types throughout the site should be fully investigated and appropriate measures taken. If trees are removed across the site, the potential for soil heave should be assessed and foundations designed accordingly.

This survey has been undertaken in accordance with BS5837 and further assessment in accordance with current building regulations will be required to inform foundation design.

5.5 Tree Pruning

Pruning of mature trees should only be undertaken where essential, to prevent open wounds that allow the ingress of decay and provide opportunity for fungal spores to infect the tree. Pruning works should ideally be undertaken during the winter months when the tree is dormant or during the summer months when the tree is fully active. Autumn pruning (when fungal spores are abundant in the surrounding atmosphere) should be avoided if possible. Juvenile trees should be formatively pruned in their early years to reduce the presence of potential defects into maturity that would reduce their lifespan.

5.6 New Tree Planting

As part of the development proposals, an adequate quantity of tree planting has been demonstrated on the Detailed Soft Landscaping Plan (Drawing Reference: MEL-564-001 P2). It is understood that a total of thirteen extra-heavy standard trees will be planted as part of the proposed landscaping. This includes three field maple trees (*Acer campestre*), two hornbeam trees (*Carpinus betulus*), a wild cherry tree (*Prunus avium*), an ornamental whitebeam tree (*Sorbus aria* 'Majestica'), five rowan trees (*Sorbus aucuparia*) and one small leaved lime tree (*Tilia cordata*). Additionally, the proposed planting will include 184m of mixed native species hedgerow. The purpose and function of the new tree planting should be carefully considered so that key objectives from a wildlife habitat and landscape perspective can also be achieved.

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[6] National House Building Council. (2022). *NHBC Standards 2022: Chapter 4.2 - Building Near Trees*. NHBC, Milton Keynes.

6. Conclusion

6.1 Summary of Impacts

The proposed development of the site is unlikely to significantly impact the visual amenity of the local area as a result of the proposed tree removal as the proposed tree planting will provide adequate mitigation for the proposed tree removal with time. No intrusive works are proposed within the RPAs of retained trees and as such, the proposed works are unlikely to significantly impact the retained trees.

7. Arboricultural Method Statement

7.1 Introduction

Whilst there are no works proposed within the RPAs of retained, an Arboricultural Method Statement will be required for the site as protection measures and any access facilitation pruning works will need to be specified. The purpose of an Arboricultural Method Statement is to ensure that all site operations occur with minimal risk of adverse impact upon trees that are to be retained.

In relation to this development the Arboricultural Method Statement should address the following:

Action	Required
Tree Surgery	✓
Site set up and logistics	✓
Working space to construct new buildings within RPAs	✗
Site access, material storage contractor's parking and site compound location	✓
Protective barrier and ground protection location and specification	✓
Pre-commencement site meeting	✓
Arboricultural Clerk of Works supervision	✓
Audit timetable	✓

Legend

- Tree location and stem diameter
- Category B
- Category C
- Category U
- Root Protection Area
- Current canopy extent
- Indicative tree shadow
- Survey extent

NOTES
All dimensions to be verified on site. Do not scale this drawing, use figured dimensions only. All discrepancies to be clarified with Project Arboriculturist. Drawing to be read in conjunction with Preliminary Arboricultural Assessment and Tree Schedule.
The positions of trees and their current crown spread, root protection area and shade pattern (where appropriate) havenbeen shown on the Tree Survey Plan.
All survey data is based on a topographical survey where possible, supplied by the client.
Where topographical information has not identified tree positions or Ordnance Survey mapping has been utilised, trees have been positioned using GPS and aerial photography to provide approximate locations in relation to existing surrounding features. Further confirmation of tree and hedgerow locations through a topographical survey of the site is recommended to ensure future design accuracy.
The original of this drawing was produced in colour - a monochrome copy should not be relied upon.
The exact position of individual trees or species included as part of a tree group, woodland or hedgerow should be checked and verified on site prior to any decisions for foundation design, tree operations or construction activity being undertaken.
Further survey work would be required for calculating foundation depths in accordance with current Building Regulations requirements.
Trees are living organisms that change over time, the condition of all trees illustrated herein, are to be checked by the Project Arboriculturist should works commence 12 months after the date of this survey.
TREES INCLUDED DURING THE ASSESSMENT MAY BE SUBJECT TO STATUTORY CONSTRAINTS. IT IS THEREFORE ADVISED THAT NO WORKS SHOULD BE UNDERTAKEN TO ANY TREES ILLUSTRATED HEREIN WITHOUT FIRST OBTAINING THE RELEVANT AUTHORISATION TO DO SO UNLESS AGREED AS PER THE APPROVED PLANS THROUGH PLANNING CONSENT.
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Project	Aldi, Watling Street, Hinckley
Drawing	Tree Survey Plan
Client	Avison Young Ltd
Drawing Number: C160472-01-01	Revision: 00
Scale @ A3: 1:500	Date: May 2023
Approved By: SH	Drawn By: JR

MIDDLEMARCH
Triumph House, Birmingham Road, Allesley, Coventry CV5 9AZ
T:01676 525880
E:admin@middlemarch-environmental.com

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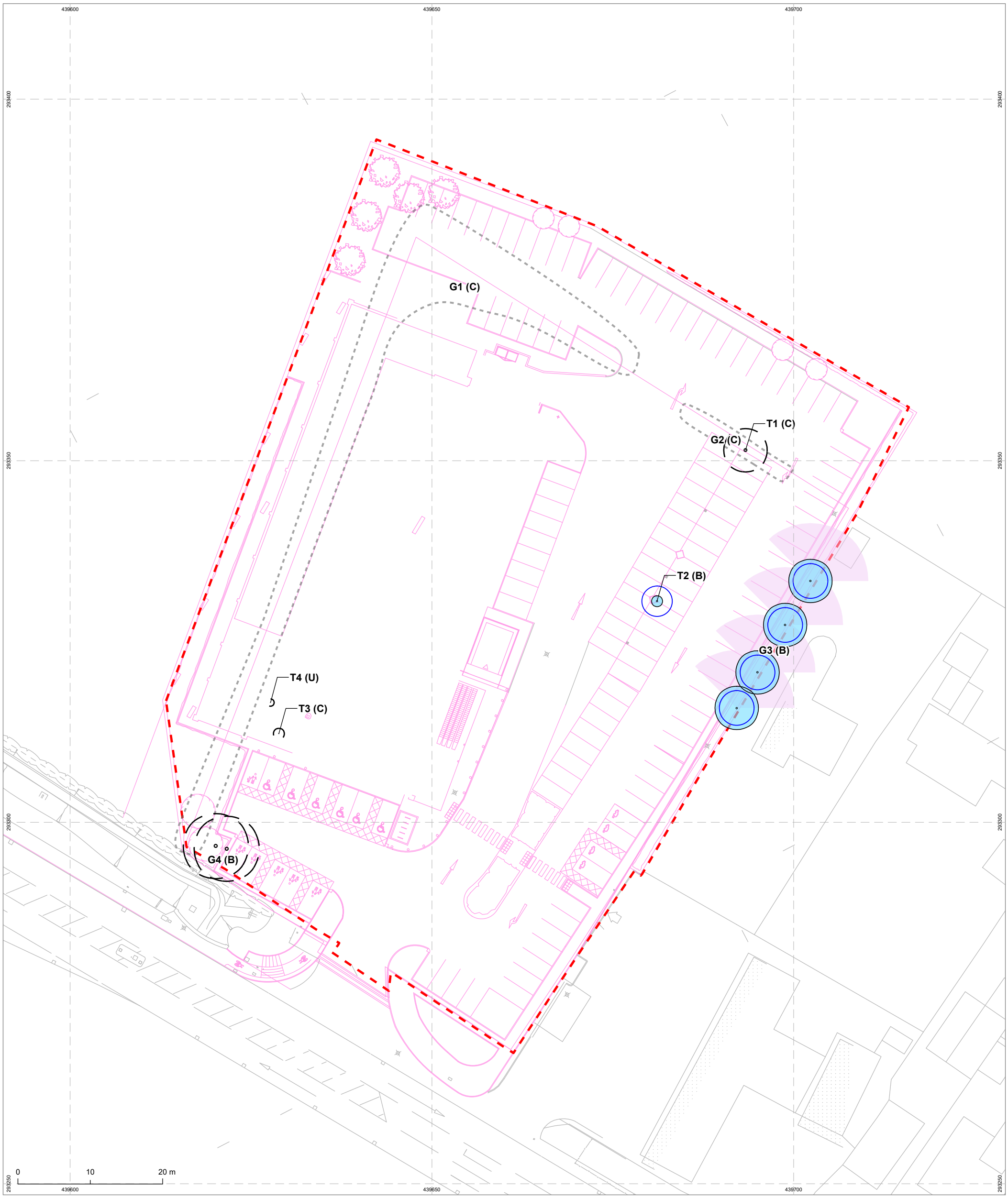

Legend

- Tree location and stem diameter
- Category B
- Category C group removed
- Root Protection Area
- Current canopy - tree to be removed
- Current canopy - tree to be retained
- Indicative tree shadow
- Survey extent
- Proposed site layout

NOTES
All dimensions to be verified on site. Do not scale this drawing, use figured dimensions only. All discrepancies to be clarified with Project Arboriculturist. Drawing to be read in conjunction with Preliminary Arboricultural Assessment and Tree Schedule.
The positions of trees and their current crown spread, root protection area and shade pattern (where appropriate) havenbeen shown on the Tree Survey Plan.
All survey data is based on a topographical survey where possible, supplied by the client.
Where topographical information has not identified tree positions or Ordnance Survey mapping has been utilised, trees have been positioned using GPS and aerial photography to provide approximate locations in relation to existing surrounding features. Further confirmation of tree and hedgerow locations through a topographical survey of the site is recommended to ensure future design accuracy.
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Further survey work would be required for calculating foundation depths in accordance with current Building Regulations requirements.
Trees are living organisms that change over time, the condition of all trees illustrated herein, are to be checked by the Project Arboriculturist should works commence 12 months after the date of this survey.
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Project	Aldi, Watling Street, Hinckley
Drawing	Tree Retention Plan
Client	Avison Young Ltd
Drawing Number: C160472-02-01	Revision: 00
Scale @ A3: 1:500	Date: June 2023
Approved By: SH	Drawn By: AW

MIDDLEMARCH
Triumph House, Birmingham Road, Allesley, Coventry CV5 9AZ
T:01676 525880
E:admin@middlemarch-environmental.com

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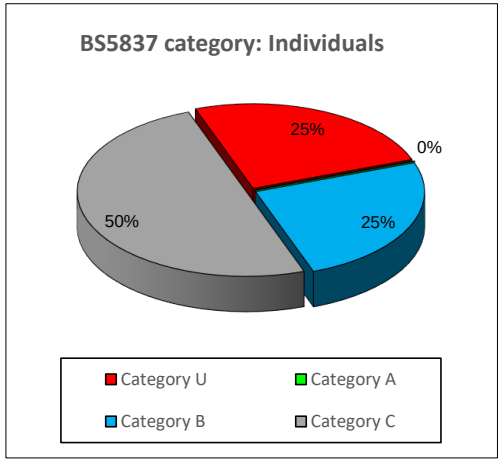
C160472-02-01

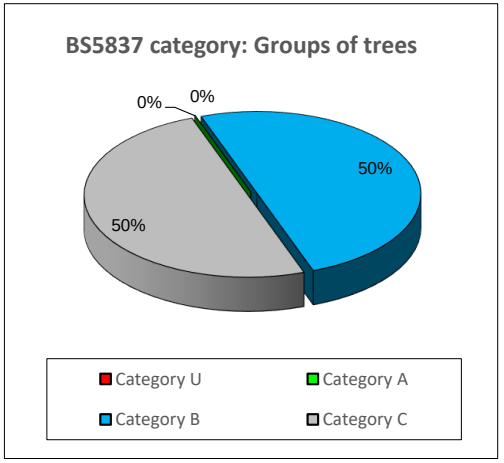
Appendix A - Tree Schedule

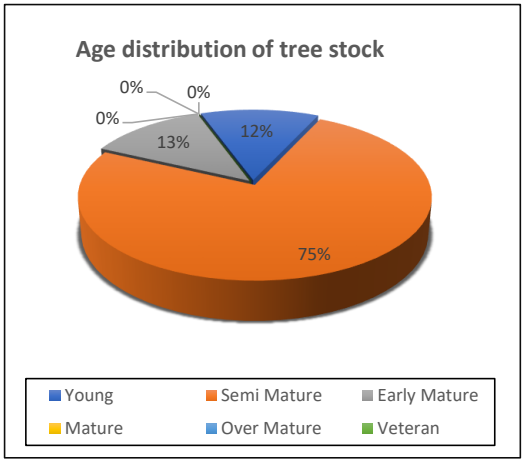
<table>
<tr><th>Measurements</th><th>Age Class</th><th>Overall Condition</th><th>Root Protection Area (RPA)</th></tr>
<tr><td>Height - measured from ground level at base of stem/s (m).</td><td>YNG: Juvenile trees that have been recently planted.</td><td>G - Good: Trees with only a few minor defects and in good overall health needing little, if any attention.</td><td rowspan="4">• The RPA column gives the required area (m²).
• The RPA Radius column gives the radius (m) of an equivalent circle.
• The RPA is calculated using the formulae described in paragraph 4.6.1 of British Standard 5837: 2012 and is indicative of the required rooting area in order for a tree to be retained.</td></tr>
<tr><td>Stem Dia. - Diameter measured (mm) in accordance with Annex C of the BS5837.</td><td>SM: Semi-mature, trees upto 1/3 life expectancy.</td><td>F - Fair: Trees with minor, but rectifiable, defects or in the early stages of stress from which it may recover.</td></tr>
<tr><td>Crown - crown spread estimated radially from the main stem (m).</td><td>EM: Early mature, trees 1/3 – 2/3 life expectancy.</td><td>P - Poor: Trees with major structural and/or physiological defects such that it is unlikely the tree will recover in the long term.</td></tr>
<tr><td rowspan="3">Abbreviations
Est - Estimated stem diameter
Avg - Average stem diameter
Max - Maximum stem diameter</td><td>M: Mature trees, upto 2/3 life expectancy.</td><td>D - Dead: Trees no longer alive. This could also apply to trees that are dying and unlikely to recover.</td></tr>
<tr><td>OM: Over mature, declining or moribund trees of low vigour.</td><td colspan="2" rowspan="2">In the assessment, of the BS category, particular consideration has been given to the following
• The health, vigour and condition of each tree
• The presence of any structural defects in each tree and its future life expectancy
• The size and form of each tree and its suitability within the context of a proposed development
• The location of each tree relative to existing site features e.g. its screening value or landscape features
• Age class
• Life expectancy</td></tr>
<tr><td></td><td>V: Veteran, tree possessing certain attributes relating to veteran trees.</td></tr>
</table>

Structural Condition
The following has been considered when inspecting structural condition: • The presence of fungal fruiting bodies around the base of the tree or on the stem, as they could possibly indicate the presence of possible internal decay. • Soil cracks and any heaving of the soil around the base. • Any abrupt bends in branches and limbs resulting from past pruning. • Tight or weak 'V' shaped forks and co-dominant stems. • Hazard beam formations and other such biomechanical related defects (as described by Claus Mattheck, Body Language of Trees HMSO Research for Amenity Trees No. 4 1994). • Cavities as a result of limb losses or past pruning. • Broken branches or storm damage. • Canker formations. • Loose or flaking bark. • Damage to roots. • Basal, stem or branch / limb cavities. • Crown die-back or abnormal foliage size and colour. • Any changes to the timing of normal leaf flush and leaf fall patterns.

Quality Assessment of Retention Category
Category U - 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.
Category A - Trees of high quality with an estimated remaining life expectancy of at least 40 years.
Category B - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.
Category C - Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm.
Sub-categories: (i) - Mainly arboricultural value (ii) - Mainly landscape value (iii) - Mainly cultural or conservation value







MIDDLEMARCH

Appendix A - Summary

	Individual Trees	Totals	Tree Groups	Totals
Category U	T4	1		0
Category A		0		0
Category B	T2	1	G3, G4	2
Category C	T1, T3	2	G1, G2	2
	Total	4	Total	4

	Hedgerows	Totals	Woodlands	Totals
Category U		0		0
Category A		0		0
Category B		0		0
Category C		0		0
	Total	0	Total	0

Tree No	Species	Height (m)	Crown Clearance (m)	No. of Stems	Stem Dia. (mm)	Crown Radius				Age Class	Structure	Vigour	RPA (m)	RPA Radius (m)	Cat	Comments
						N	E	S	W							
T1	Ash	9.0	2.0	3	270 160 150	3.0	3.0	3.0	3.0	SM	F	F	55	4.2	C 1	Branch stubs observed Minor deadwood in the crown Typical crown form Limited inspection due to dense vegetation Included unions observed
T2	Hornbeam	5.5	2.5	1	170	0.8	0.8	0.8	0.8	SM	F	G	14	2.1	B 1	Typical crown form Hard surfaces within the rooting area
T3	Cherry	4.5	1.0	1	90	0.8	0.8	0.8	0.8	SM	F	F	5	1.2	C 1	Typical crown form Pruning wounds observed Minor deadwood in the crown Included unions observed
T4	Cherry	3.0	0.0	1	70	0.5	0.5	0.5	0.5	Y	F	P	3	0.9	U	Apical dieback Typical crown form Upper half of canopy is dead

Tree No	Species	Height (m)	Crown Clearance (m)	No. of Stems	Stem Dia. (mm)	Crown Radius				Age Class	Structure	Vigour	RPA (m)	RPA Radius (m)	Cat	Comments
						N	E	S	W							
G1	Hawthorn Cherry Norway maple Ash	9.0	0.0	-	170	2.5	2.5	2.5	2.5	SM	F	F	14	2.1	C 2	Conjoined canopy Branch stubs observed Hard surfaces within the rooting area Included unions observed Typical crown forms Self seeded trees present
G2	Italian alder Hawthorn	6.0	1.0	-	170	2.0	2.0	2.0	2.0	SM	F	F	14	2.1	C 2	Conjoined canopy Branch stubs observed Hard surfaces within the rooting area
G3	Hornbeam	8.0	2.0	-	200	3.0	3.0	3.0	3.0	SM	F	G	18	2.4	B 2	Hard surfaces within the rooting area Typical crown forms Pruning wounds observed Included unions observed
G4	Hornbeam	10.0	2.0	-	360	4.5	4.5	4.5	4.5	EM	F	G	64	4.5	B 2	Conjoined canopy Included unions observed Limited inspection due to dense vegetation Hard surfaces within the rooting area Typical crown forms