Land to the Rear of Meadow Way
Westergate

# Arboricultural Method Assessment

December 2024
12083_AMS.001 Rev B

ARUN DISTRICT COUNCIL AL/137/24/RES

| Project Details | |
|---|---|
| **Client:** | Redrow Homes Limited |
| **Project:** | Land to the rear of Meadow Way, Westergate |
| **Report Title:** | Arboricultural Method Statement |
| **Project Number:** | 12083 |
| **File Reference:** | 12083_AMS.001 Rev B |
| **Date:** | 06/12/2024 |

**Copyright**

The copyright of this document remains with Aspect Arboriculture Ltd. All rights reserved. The contents of this document therefore must not be copied or reproduced in whole or in part for any purpose without the written consent of Aspect Arboriculture Ltd.

**Limitations**

This assessment has been prepared in respect of the proposed development and should not be interpreted as a report on tree health and safety. Reasonable effort has been made to identify visible defects whilst undertaking the tree survey; trees are however, prone to natural failure without warning therefore no guarantee can be made as to the absolute safety of any of the trees surveyed. Aspect's opinion of tree condition and structural potential is therefore valid for a limited period of 12 months from the date of inspection. Validity is assumed in the absence of inclement weather and no change to the trees' existing context. Reliance should not be given to comments made in respect of other disciplines i.e. landscape, ecology or civil engineering without first consulting an appropriate expert.

**Liability**

This report has been prepared for the exclusive use of the commissioning client and unless otherwise agreed in writing by Aspect Arboriculture Ltd. no other party may use, or rely on the contents of the report. No liability is accepted by Aspect Arboriculture Ltd. for any use of this report, other than for the purposes for which it was originally prepared and provided. No warranty, express or implied, is made as to the advice in this report. The content of this report is partly based on information provided by third parties. Unless otherwise stated, information obtained from any third party has not been independently verified by Aspect Arboriculture Ltd.

**Contact Details**

**Aspect Arboriculture Ltd.**
Hardwick Business Park ⁞ Noral Way ⁞ Banbury ⁞ Oxfordshire ⁞ OX16 2AF
[redacted]



ARUN DISTRICT COUNCIL AL/137/24/RES

# Contents

## Text:



## Tables:



## Appendices:





ARUN DISTRICT COUNCIL AL/137/24/RES

# 1 Introduction

## 1.1 Background

1.1.1 Aspect Arboriculture are commissioned by Redrow Homes Limited to prepare an Arboricultural Method Statement and Tree Protection Plan (hereafter the AMS and TPP) to inform proposals for the development of land to the rear of Meadow Way, Westergate, approved under appeal decision ref. APP/C3810/W/23/3323858 (outline application AL/178/22/OUT). The purpose of the document is to clearly identify the extent of tree removal and retention put forward and to demonstrate how retained trees will be protected during construction, pursuant to part (i) of condition 4.

1.1.2 Condition 4 part (1) reads:

*'The landscaping and layout details to be submitted pursuant to condition 1 shall include the following:*

*(i) Details of all existing trees and hedgerows on the land indicating which are to be retained and which are to be removed. These required details are to include a 'Tree Survey Schedule', a 'Root Protection Area Schedule', a 'Tree Constraints Plan', and in the event that a root protection area of any tree which is proposed for retention overlaps the development, then an 'Arboricultural Method Statement' and a 'Tree Protection Plan'. Development shall be carried out in accordance with the approved details. No hedge or tree shall be felled, uprooted, or otherwise removed before, during or after the construction period except where removal is indicated on a plan approved by the local planning authority.'*

1.1.3 The AMS will be submitted to, and approved by, Arun district Council, prior to the commencement of any construction works occurring on site. Once approved, the safeguarding measures and works should be implemented as specified and maintained to the Council's satisfaction until completion of development works.

1.1.4 The confident protection of retained trees will be achieved through the use of the appended Tree Protection Plan (appendix A) and Works Auditing Schedule (appendix B), alongside other supporting documents included within appendices C and D.

## 1.2 Statutory Designations

1.2.1 Background checks have confirmed that the application area does not occur within a Conservation Area (Arun District Council, cited April 2024).

1.2.2 Checks of the Council's online database have also confirmed that there are a number of trees within influence of the site which are scheduled within TPO/AL/2/23 (Arun District Council, cited April 2024). Trees influenced by a Tree Preservation Order are clearly identified within appendix A.



ARUN DISTRICT COUNCIL AL/137/24/RES

## 1.3 Scope & Limitations

1.3.1 This work relates to arboriculture therefore reliance should not be given to comments made in respect of other disciplines i.e. civil engineering or construction phasing, without first referencing an appropriate expert.

1.3.2 The document has been prepared to inform safeguarding measures during development and should not be interpreted as a report on tree health and safety. Reasonable effort has been made to identify visible defects whilst carrying out the tree survey, however trees are prone to natural failure without warning; no guarantee can be made as to the absolute safety of any of the trees surveyed.

1.3.3 Aspect's opinion of tree condition and structural potential is valid for limited period from the date of survey. Validity is assumed in the absence of inclement weather and no change to the tree's existing context. A copy of the site's tree survey information is provided within appendix C.

## 1.4 Detailed Design

1.4.1 Detailed design is brought forward in accordance with parameters plan reference 1318.03, approved at appeal as part of outline planning permission AL/178/22/OUT. A copy of the approved parameters plan is provided within appendix E, which illustrates development directly abutting the western boundary (allowing C3 residential uses). Accordingly, the principal of dwellings backing onto the western boundary is established by the outline planning permission, including the relationship with third party trees.

1.4.2 It is known that a number of trees were protected during the appeal process under TPO/AL/2/23 (including T5, T11, T12, T13, T17 and T18), however this does not change the parameters which are established as part of the outline planning permission. Instead, the TPO is limited to ensuring that the Council maintain control over requests for future tree works.

1.4.3 With reference to pre-application consultation PAA/76/24/ (dated 8th November), it is noted that amendments to detailed design which increase separation from trees T11 and T12 are agreed to be acceptable, although there remains concern over the proximity of amenity spaces to third party trees G3 and T13. Nonetheless, detailed design is in accordance with approved parameters and relationships which have been established as part of the outline planning permission. There will be a requirement to maintain G3, however the collection comprises domestic hedging and trees which have been pruned to the boundary as part of the site's former agricultural management. It is reasonable for this management to continue within a residential setting, where works can seek to ensure G3 continues to serve as a defensible boundary feature. With respect of T13, the Council have full control over requests to prune the tree, meaning any inappropriate works can be resisted.



ARUN DISTRICT COUNCIL AL/137/24/RES

# 2 Essential Works

## 2.1 Tree Protection Plan

2.1.1 The Tree Protection Plan (TPP) provided in appendix A will be relied upon during construction of the development. It must be read in conjunction with the entirety of this document. To prevent avoidable damage occurring to retained trees or erroneous tree loss, a scaled A1 copy of the TPP, accompanied by a copy of this document will be provided to the Site Manager. This will ensure they are able to:

- Clearly identify all retained trees;
- Identify the correct locations for tree protection barriers;
- Identify features of the site that must be prepared/installed under an arboricultural watching brief;
- Request attendance of the Project Arboriculturist on site for site monitoring and to provide advice in case of any emerging issues;
- Demonstrate compliance with the Council's consent for the development by safeguarding trees which are to be retained and enable the Project Arboriculturist to evidence this by completing the Works Auditing Schedule (appendix B).

## 2.2 Tree Removals

2.2.1 To implement the proposed development, it will be necessary to remove trees detailed within Table 1 below.

2.2.2 Table 1: Tree Removals by BS5837:2012 Category.

| Category A | Category B | Category C |
|---|---|---|
| None | None | G6+Δ<br>G7 Beech<br>G10+Δ<br>H2+Δ |

+ Denotes assemblage of two or more species (refer to appendix c).
Δ Denotes partial removal of hedge and/or shrubs.

2.2.3 Trees to be removed will be spray marked with a red flash by the project arboriculturist. The presence of the appointed arboricultural contractor, Parks Manager and Arboricultural Officer are also recommended during this process to safeguard against erroneous felling.

2.2.4 Felling works should be timed to avoid the main nesting season for birds between 1st March and 31st August. If scheduled within this period an ecologist must be present to advise on any necessary protective measures, and to confirm that tree works are not likely to cause disturbance to nesting birds.



ARUN DISTRICT COUNCIL AL/137/24/RES

## 2.3 Pruning Works

2.3.1 Pruning works necessary to implement the proposed development are detailed at Table 2 below.

2.3.2 Table 2: Pruning Works.

| Tree | | Pruning Work |
|---|---|---|
| T1 | - | Crown lift radially to provide c.2.5m vertical ground clearance. |
| T2 | - | Crown lift radially to provide c.2.5m vertical ground clearance. |
| H2 | - | Selectively prune the hedgerow by c.1.5m to provide sufficient room for construction. |
| G3 | - | Selectively prune the collection's eastern crown spread by up to c.1.5m to enable the erection of boundary treatments. |
| G6 | - | Selectively prune the collection's western crown spread by up to c.1.5m to provide working room during the proposed outfall installation. |

2.3.3 Pruning work must be undertaken in accordance with section 7.6 (for crown lifting) and section 7.8 (for selective pruning) of BS3998:2010. A qualified and competent contractor should be employed to ensure that cuts are performed correctly and positioned so as to avoid future structural defects or physiological issues, facilitate growth and maintain aesthetic value.

2.3.4 Works should also be timed to avoid the main nesting season for birds between 1st March and 31st August. If scheduled within this period an ecologist must be present to advise on any necessary protective measures, and to confirm that tree works are not likely to cause disturbance to nesting birds.

## 2.4 Protective Barriers

2.4.1 Tree protection barriers are required to safeguard retained trees from damage during construction works. Protective barriers must be installed before works commence as illustrated on the Tree Protection Plan provided at appendix A. The location for protective barriers has been informed by retained trees' canopy extents and root protection areas (RPA) and are shown within appendix A with a dark blue or dashed light blue line.

2.4.2 It will be necessary to relocate protective fencing in certain areas to facilitate construction works within proximity to retained trees. Where it will be necessary to relocate barriers, secondary positions are illustrated within the Tree Protection Plan (appendix A) with a dotted pink line.

2.4.3 The Site Manager will be responsible for arranging attendance of the Project Arboriculturist, for the purpose of setting out barriers and for their monitoring at appropriate intervals for the duration of the development; issues will be resolved on site and reported to the Council's Arboricultural Officer by the Project Arboriculturist.



ARUN DISTRICT COUNCIL AL/137/24/RES

2.4.4 The Site Manager will be responsible for arranging attendance of the Project Arboriculturist, for the purpose of setting out barriers and ground boarding, and for their monitoring during the development; issues will be resolved on site and reported to the Council's Arboricultural Officer by the Project Arboriculturist.

## 2.5 Supervised Excavation

2.5.1 To implement the development works, it will be necessary to undertake localised excavation work within the RPAs of retained trees T1 and G6 to accommodate a foul drainage connection and outfall, respectively (illustrated within the TPP at appendix A with an orange wash).

2.5.2 To avoid detriment occurring to T1 and G6, excavation works within their RPAs must be carried out sensitively and under arboricultural supervision, adopting the principles within section 7.2 of BS5837:2012. Accordingly, during supervised excavation works within the RPAs of retained trees, the following procedure will be adopted:

I. The breaking up and clearance of the existing soils must be undertaken under arboricultural supervision, using a low impact method of excavation, utilising hand tools, an air-spade, or a vacuum excavator.

II. If necessary, roots that are less than 25mm diameter will be pruned back, preferably to a side branch, using sharp cutting tools in accordance with best practice i.e. using secateurs or pruning saw.

III. During the works the protective bark of larger roots is not to be damaged, until the project arboriculturist has judged whether they can be retained or not.

IV. No roots over 25mm will be pruned without approval of the appointed Project Arboriculturist as they may be integral to tree health and stability. If it becomes necessary to prune roots over 25mm diameter to accommodate site features, the Project Arboriculturist will provide the Developer and the Council's Arboricultural Officer with appropriate recommendations for remedial action/ management.

V. Any exposed roots which can be retained will be covered in hessian or clean topsoil to protect from dehydration and temperature flux. Hessian is to be removed prior to backfilling.

VI. Areas adjacent to roots that are to be filled with concrete will be lined with an impermeable membrane to prevent concrete leachate coming into contact with tree roots.

VII. Any use of an excavator to complete excavations will occur from outside the trees' RPA (which will be spray-marked on the ground in advance of the works taking place). A toothless bucket will be utilised at all times.

VIII. A record of exposed roots will be made and accompanied by a photographic log.



ARUN DISTRICT COUNCIL AL/137/24/RES

IX. Should any issues be raised during the works then the Project Arboriculturist will inform the Developer and the Council's Arboricultural Officer, indicating the nature of the problem and recommendations for remedial action (if required).

X. Upon request, written confirmation of the works being undertaken to a satisfactory standard can be provided to the Developer and the Council's Arboricultural Officer by the Project Arboriculturist.

## 2.6 New Hard Surfaces

2.6.1 As part of the scheme, it will also be necessary to introduce new areas of hard surfacing within the RPAs of retained tree group G3 to provide a rear garden access and T5 to provide a new pedestrian access. In these instances, the construction of new surfaces within retained trees' RPAs will be achieved by use of a no-dig construction detail and reliance on a Cellweb sub-base to prevent compaction, excavation and root severance. Areas where a CellWeb sub-base must be utilised illustrated within the TPP (appendix A) with a purple wash.

2.6.2 CellWeb must be installed manually under arboricultural supervision and adopt the following procedure:

a) The Project Arboriculturist will brief the installation team on the importance of preventing soil compaction, oxygen/moisture restriction and the need for any excavation work within RPAs which may incur unnecessary root severance.

b) Tree protection fencing and ground boarding must be installed prior to commencement.

c) Once installed, plant will only be permitted to enter the area once Cells have been laid and filled with angular stone.

d) To prevent migration of the infill material and future loss of structural integrity, the area receiving CellWeb must be covered with a porous geotextile underlay. This is to occur before installation of the cellular confinement system.

e) The cellular confinement system will be staked and expanded across the installation footprint area then cut to size. Up to 50mm of no fines bedding sand can be laid to create a level surface.

f) 4/20mm angular stone will be introduced by a lightweight dumper (1 tonne) tracking only over areas already filled with stone.

g) Edges are to be retained with non-invasive timber boards or galvanised steel metal edges, set within a concrete footing poured into the last cell row of CellWeb. The concrete must be prevented from leaching by an impermeable membrane placed beneath the edge row of CellWeb.

h) Final wearing course to be installed as per the submitted hard and soft landscape detail.



ARUN DISTRICT COUNCIL AL/137/24/RES

2.6.3 To ensure confidence in the trees' tolerances towards the proposed introduction of new surfaces and to overcome any existing compaction within RPAs, it is strongly recommended that their full RPAs are treated with a decompaction treatment, incorporating a mycorrhizal fungi and bio-stimulant injection. This work should be undertaken prior to the laying the CellWeb sub-base.

## 2.7 Existing Hard Surface Replacement

2.7.1 It will also be necessary to reconfigure existing hard surfacing within the RPAs of retained trees T1 and T2. In both cases, there will be no footprint increase in hard surface coverage and finished levels have been designed to avoid requirements for excavation.

2.7.2 Where wearing courses are to be replaced, they are illustrated with a red wash within the TPP (appendix A). In these areas, the existing surface must be lifted sensitively and broke out manually (where possible) or lifted carefully by a lightweight machine (less than 3 tonnes) operating outside of RPAs or from the footprint of existing hard surfaces. Existing sub-bases will be retained and used to lay replacement wearing courses.

## 2.8 Proposed Order of Works

2.8.1 The following order of works must be followed:

i. Pre-commencement site meeting between the Project Arboriculturist, Site Manager and the Council's Arboricultural Officer. Stages of arboricultural auditing/monitoring requirements will be identified/agreed.

ii. Necessary tree removals and pruning to be carried out prior to installation of tree protection barriers and commencement of works in the vicinity.

iii. Tree protection barriers and ground protection to be installed following removals and prior to works commencing in the vicinity. Upon request, barrier positions can be set-out by the Project Arboriculturist, as detailed within this document.

iv. The Council's Arboricultural Officer shall be informed of the proposed commencement date as soon as possible, to allow the inspection of protection measures.

v. The Site Manager will assume responsibility for arranging the attendance of the Project Arboriculturist to oversee, relocation of barriers and for the supervision of construction works within retained trees' RPAs, as detailed at within the Works Auditing Schedule (appendix C).

vi. The Site Manager will also assume responsibility for arranging attendance of the Project Arboriculturist for the monitoring of barriers at appropriate intervals for the duration of the development works. Erection of barriers and monitoring is included within the Works Auditing Schedule (appendix C).



ARUN DISTRICT COUNCIL AL/137/24/RES

## 2.9 Site Manager's Point of Contact for Arboricultural Input:

2.9.1 Patrick Haythornthwaite (Aspect Arboriculture)

Principal Arboricultural Consultant

Telephone: 01295 276066

Email: patrick.haythornthwaite@aspect-arbor.com

2.9.2 Justin Hodges (Aspect Arboriculture)

Arboricultural Consultant

Telephone: 01295 276066

Email: Justin.Hodges@aspect-arbor.com

# 3 Conclusions

3.1.1 This document has been prepared in response to part (i) of condition 4 associated with appeal decision ref. APP/C3810/W/23/3323858, concerning the development of land to the rear of Meadow Way, Westergate. The document has been informed by guidance provided in BS5837:2012 including details of the site's existing trees (updated in April 2024).

3.1.2 Pursuant to the instruction, this document and its supporting work (Appendices A - D) identifies all aspects of the proposals acro that must be managed to facilitate the confident protection of retained trees during construction.

3.1.3 To ensure confident tree retention, siting of tree protection barriers and the specified construction works must be audited by the Project Arboriculturist; the outcome of these works will be reported to the Council's Arboricultural Officer on completion. These elements are specified within the Works Auditing Schedule (appendix B).

3.1.4 It is Aspect's opinion that, subject to strict adherence to this document, the development can be implemented without incurring harm to retained trees.



ARUN DISTRICT COUNCIL AL/137/24/RES

# APPENDICES

APPENDIX A

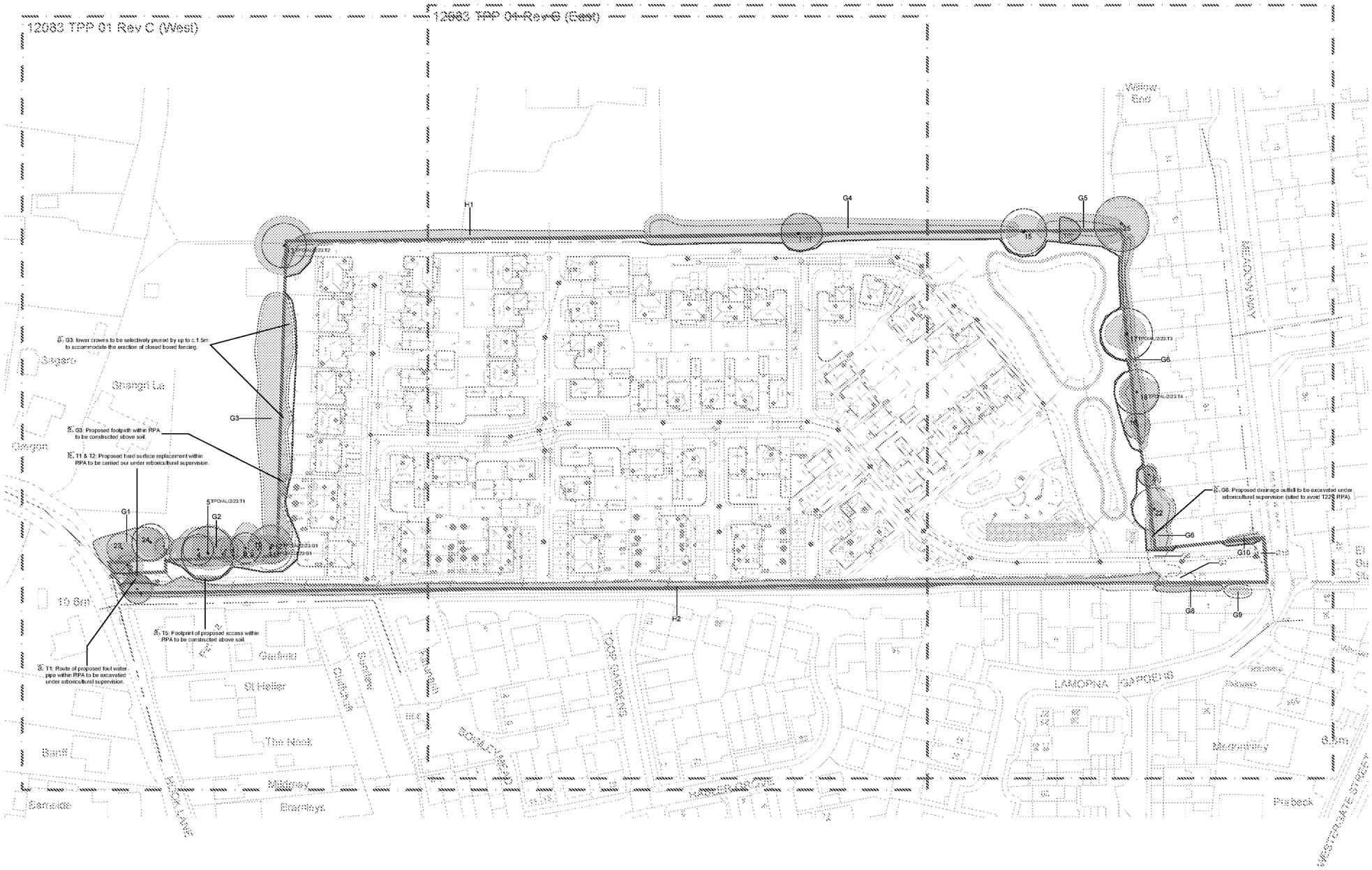
TREE PROTECTION PLAN (12083 TPP 01 Rev C)



ARUN DISTRICT COUNCIL AL/137/24/RES

12083 TPP 01 Rev C (West)

12083 TPP 04 Rev C (East)



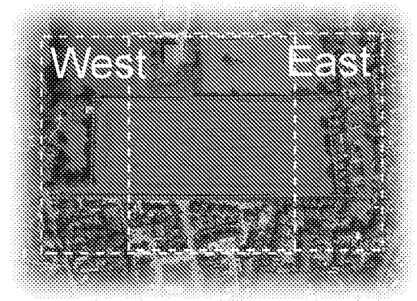

1:1500 @ A3

0m 10m 20m 50m

KEY:

- Site Boundary
- 15 Tree Numbers
- Tree Canopies
- Category 'U' Trees
- Category 'A' RPA
- Category 'B' RPA
- Category 'C' RPA
- Pruning Works
- Trees to be Removed
- Tree Protection Barrier
- Tree Protection Barrier (Secondary Specification)
- Tree Protection Barrier (2nd Position)
- Supervised Excavation
- Above Soil Surfacing
- Hard Surface Replacement

Note: Trees 2, 3,13, 23, 24, 25 and Groups G7, G9 and G10 have been plotted using measurements onsite in conjunction with aerial imagery. Their locations were not recorded on the topographical survey of the site (drawing ref: P3584-2D.dwg).




Cited from Google Earth

| REV | DATE | NOTE | Drawn | Chk'd |
|---|---|---|---|---|

REVISIONS

aspect arboriculture

TITLE

Land to the rear of Meadow Way, Westergate

Tree Protection Plan

CLIENT

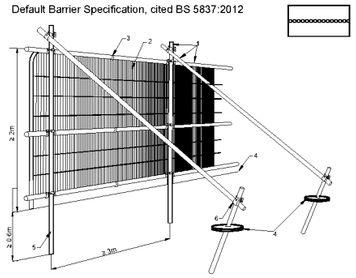
Redrow Homes Limited

| SCALE | DATE | DRAWN |
|---|---|---|
| 1:1500 @ A3 | DEC 2024 | GW |
| DRAWING NUMBER | | REVISION |
| 12083 TPP 01 Rev C (Overview) | | C |

Based on: Site Layout 19.dwg
B0457-1500_P4 1501_P4 1502_P5 Drainage Strategy Sheet 1 - 3.dwg

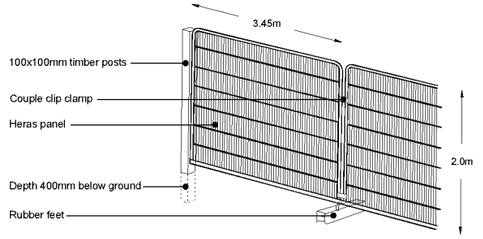
ARUN DISTRICT COUNCIL AL/137/24/RES

Default Barrier Specification, cited BS 5837:2012

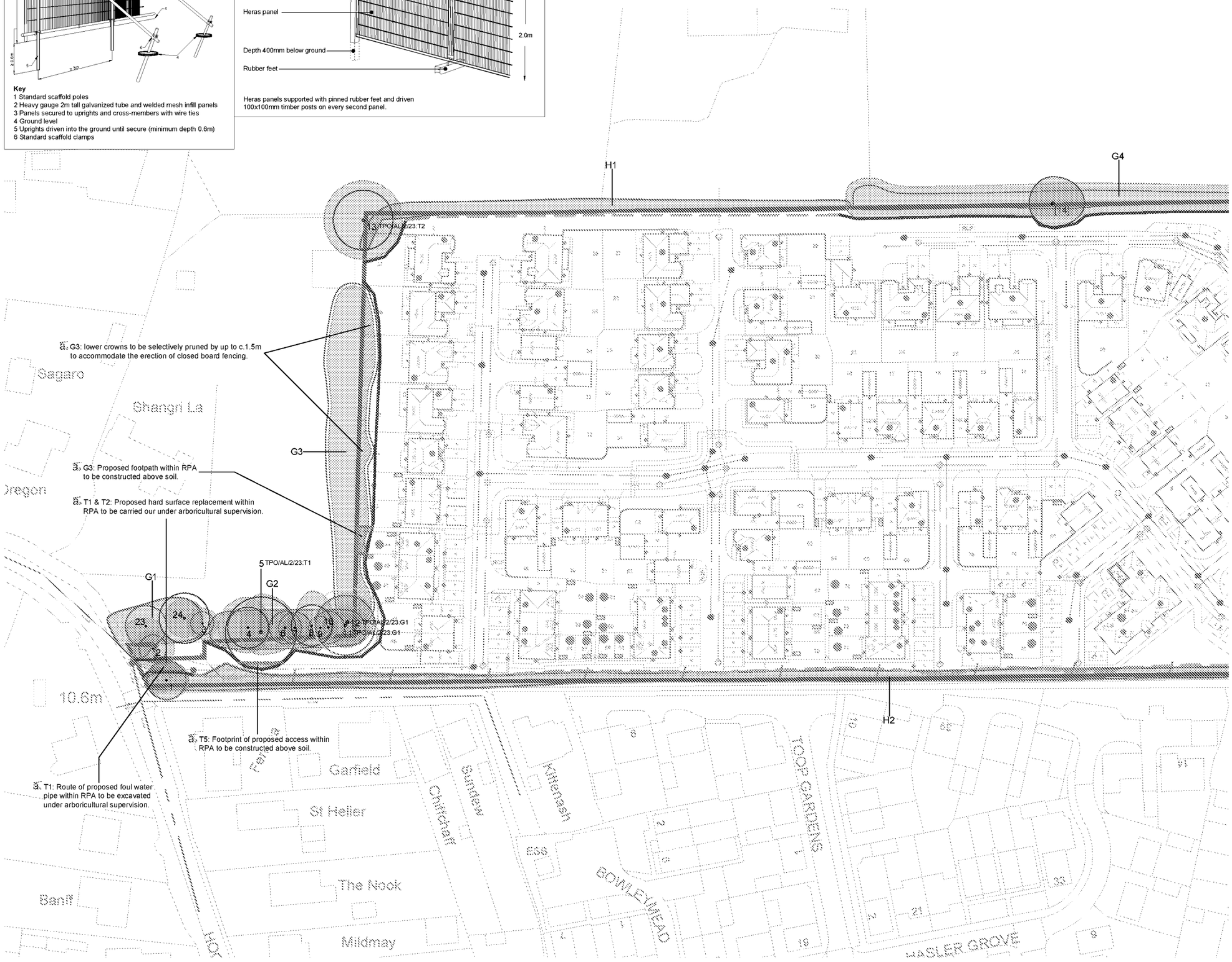



**Key**
1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps

Secondary Reduced Barrier Specification




Heras panels supported with pinned rubber feet and driven 100x100mm timber posts on every second panel.



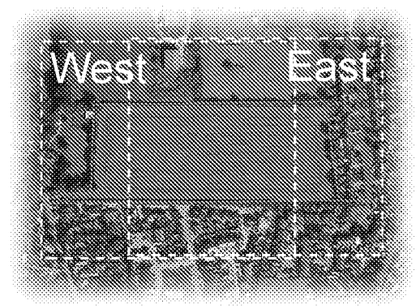

1:1000 @ A3

0m 10m 20m 40m

KEY:

- Site Boundary
- 15 Tree Numbers
- Tree Canopies
- Category 'U' Trees
- Category 'A' RPA
- Category 'B' RPA
- Category 'C' RPA
- Pruning Works
- Trees to be Removed
- Tree Protection Barrier
- Tree Protection Barrier (Secondary Specification)
- Tree Protection Barrier (2nd Position)
- Supervised Excavation
- Above Soil Surfacing
- Hard Surface Replacement

Note: Trees 2, 3,13, 23, 24, 25 and Groups G7, G9 and G10 have been plotted using measurements onsite in conjunction with aerial imagery. Their locations were not recorded on the topographical survey of the site (drawing ref: P3584-2D.dwg).




Cited from Google Earth

| REV | DATE | NOTE | Drawn | Chk'd |
|---|---|---|---|---|

REVISIONS

aspect arboriculture

TITLE

Land to the rear of Meadow Way, Westergate

Tree Protection Plan

CLIENT

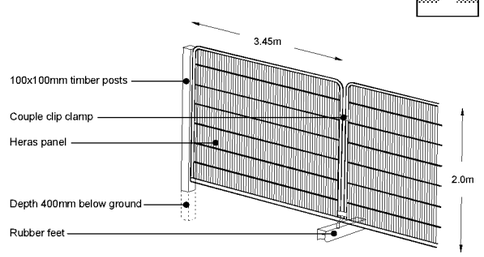
Redrow Homes Limited

| SCALE | DATE | DRAWN |
|---|---|---|
| 1:1000 @ A3 | DEC 2024 | GW |
| DRAWING NUMBER | | REVISION |
| 12083 TPP 01 Rev C (West) | | C |

Based on: Site Layout 19.dwg
B0457-1500_P4 1501_P4 1502_P5 Drainage Strategy Sheet 1 - 3.dwg

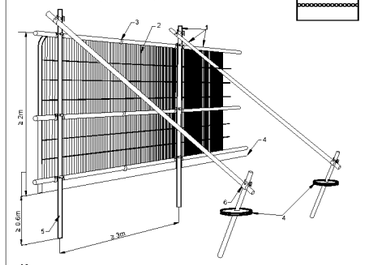
ARUN DISTRICT COUNCIL AL/137/24/RES

Secondary Reduced Barrier Specification

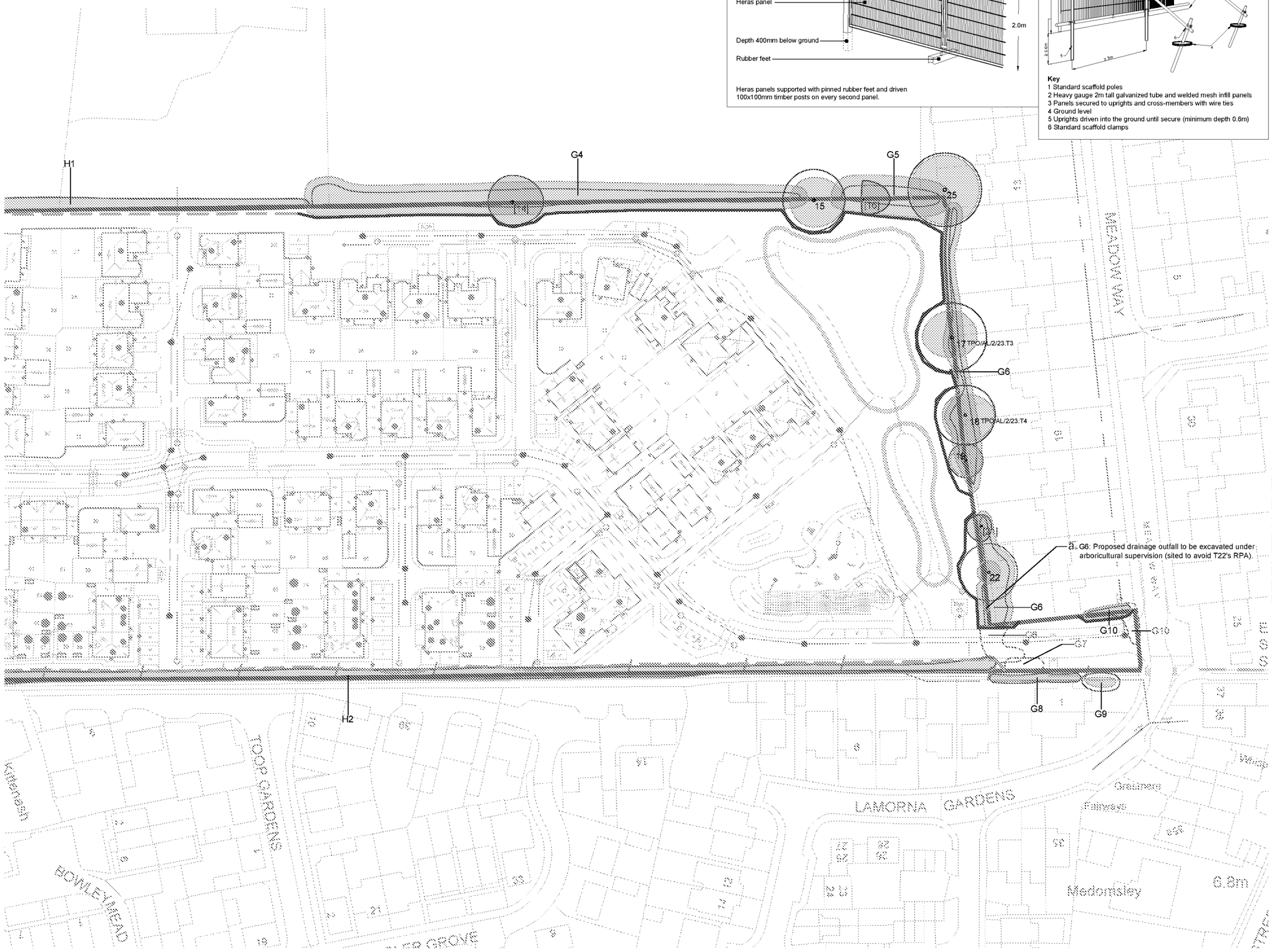



Heras panels supported with pinned rubber feet and driven 100x100mm timber posts on every second panel.

Default Barrier Specification, cited BS 5837:2012




**Key**
1 Standard scaffold poles
2 Heavy gauge 2m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6m)
6 Standard scaffold clamps




1:1000 @ A3

0m 10m 20m 40m

KEY:

- Site Boundary
- 15 Tree Numbers
- Tree Canopies
- Category 'U' Trees
- Category 'A' RPA
- Category 'B' RPA
- Category 'C' RPA
- Pruning Works
- Trees to be Removed
- Tree Protection Barrier
- Tree Protection Barrier (Secondary Specification)
- Tree Protection Barrier (2nd Position)
- Supervised Excavation
- Above Soil Surfacing
- Hard Surface Replacement

Note: Trees 2, 3,13, 23, 24, 25 and Groups G7, G9 and G10 have been plotted using measurements onsite in conjunction with aerial imagery. Their locations were not recorded on the topographical survey of the site (drawing ref: P3584-2D.dwg).


Cited from Google Earth

| REV | DATE | NOTE | Drawn | Chk'd |
|---|---|---|---|---|

REVISIONS

aspect arboriculture

TITLE

Land to the rear of Meadow Way, Westergate

Tree Protection Plan

CLIENT

Redrow Homes Limited

| SCALE | DATE | DRAWN |
|---|---|---|
| 1:1000 @ A3 | DEC 2024 | GW |
| DRAWING NUMBER | | REVISION |
| 12083 TPP 01 Rev C (East) | | C |

Based on: Site Layout 19.dwg
B0457-1500_P4 1501_P4 1502_P5 Drainage Strategy Sheet 1 - 3.dwg

ARUN DISTRICT COUNCIL AL/137/24/RES

APPENDIX B

WORKS AUDITING SCHEDULE (12083 WAS 01)



ARUN DISTRICT COUNCIL AL/137/24/RES

# WORKS AUDITING SCHEDULE

| Works Requiring Auditing | Tree No. | Date Undertaken | Date Reported to LPA |
|---|---|---|---|
| **1.** Pre-commencement meeting identifying tree removals, tree protection barrier locations and safeguarding measures, as specified within 12083_AMS.001 Rev B and illustrated on drawing no. 12083_TPP.01 Rev C Tree Protection plan. | As drawn | | |
| **2:** Inspection of tree protection barriers prior to commencement of development works by Project Arboriculturist. | As drawn | | |
| **3:** Replacement of Hard Surfacing | T1<br>T2 | | |
| **4:** Supervised Excavation | T1<br>G6 | | |
| **5:** New Hard Surfacing | T5<br>G3 | | |
| **6:** Inspection of installed tree protection barriers as specified within 12083_AMS.001 Rev B and illustrated on drawing no. 12083_TPP.01 Rev C Tree Protection plan, on an appropriate basis. | As drawn | | |

APPENDIX C

TREE SURVEY SCHEDULE (12083 TS 01)



ARUN DISTRICT COUNCIL AL/137/24/RES

aspect

ARBORICULTURE

**BS 5837:2012 Tree Schedule: Land to the rear of Meadow Way, Westergate**

12063 TS 01

ARBORICULTURAL CONSULTANTS LTD

ARUN DISTRICT COUNCIL AL/137/24/RES

aspect arboriculture

# BS5837:2012 Tree Survey: Explanation of Survey Criteria

*Area around tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of roots and soil structure is a priority. *The RPA has been manipulated to allow for various site features, i.e. roads, structures or changes in levels. Please refer to the Tree Constraints Plan for these changes.*

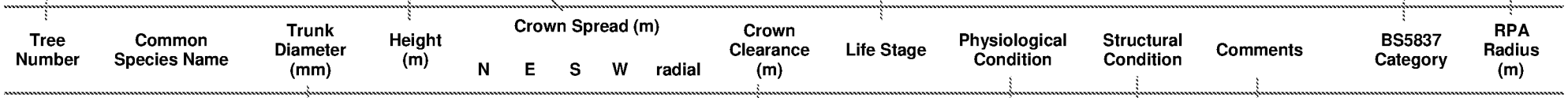
*e.g.: young, semi-mature, early-mature, mature or over-mature*

*Sequential reference number cited on all aspect drawing.*

*Category prefix A-C denotes arboricultural quality, decreasing from A (high) to C (low); Subcategories 1, 2 and 3 highlight associated arboricultural (1), landscape (2) and ecological (3) qualities.*

*Height and Crown spread measured to the nearest half meter; # denotes where this is estimated.*

*Category U trees are those in such a condition that they cannot be realistically retained as living trees in the current context for the long term.*




*Measured to the nearest 10mm; # denotes estimated diameter where access is not possible.*

*e.g.: above-average, average, below average or dead*

*General observations, i.e. defects, preliminary management recommendation, presence of pests/disease, perceived significance.*

*Height of first significant branch and/or canopy*

*e.g.: good, indifferent, poor, or hazardous*

*Colour band key:*

- Category A
- Category B
- Category C
- Category U

*The following survey should not be interpreted as a report on tree health and safety. Aspect's opinion of tree condition and structural potential is valid for a limited period of 12 months from the date of inspection. Validity is assumed in the absence of inclement weather and no change to the trees existing setting.*

| Tree Number | Common Species Name | Trunk Diameter (mm) | Height (m) | Crown Spread (m) | | | | | First Significant Branch (m) | Crown Clearance (m) | Life Stage | Physiological Condition | Structural Condition | Comments | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | E | S | W | Radial | | | | | | | | |
| 1 | Ash | 330<br>180<br>200<br># | 11 | 5 | 5.75 | 5 | 4.5 | | 0.5 | 1.5 | Early Mature | Average | Poor | Stems inaccessible due to dense Bramble, unable to thoroughly inspect<br>Multi stemmed from ground level, unions obscured<br>Dominant stem kinks to east from ground level, corrects at c.1.75m<br>Pruning to eastern aspect of crown to clear from overhead utilities<br>Unremarkable example of species | C1 | 5.1 |
| 2 | English Oak | 300# | 11 | 5# | 5.5 | 5.5 | 5.25 | | 4.25 | 2 | Semi Mature | Below Average | Indifferent | Clad and obscured by Ivy, unable to thoroughly inspect<br>Stem inaccessible due to dense Bramble<br>Suppressed by neighbouring companions<br>Unremarkable example of species | C12 | 3.6 |
| 3 | Sitka Spruce | 250# | 13.5 | | | | | 4 | 2 | 1.75 | Semi Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Radial crown measurement based on southern spread due to restricted access<br>Structure appears typical for species within current context<br>Unremarkable example of species | C12 | 3 |
| 4 | English Oak | 450# | 16.5 | 8# | 5.5# | 6.5 | 7.75 | | 4.5# | 3.5 | Early Mature | Average | Poor | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Leans north west from ground level<br>Crown biased to west<br>Etiolated form<br>Suppressed by T5<br>Previous unsympathetic limb removals to crown lift | B2 | 5.4 |
| 5 | English Oak | 780 | 16 | 10# | 9.5 | 5.75 | 5.5 | | 2 | 5.75 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Previous unsympathetic pruning to southern aspect of lower crown<br>Balanced radial crown and scaffold structure<br>Moderate example of species | B12 | 9.3 |
| 6 | Lawson Cypress | 350# | 12 | | | | | 4 | 4 | 4 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Radial crown measurement based on southern spread<br>Mutually suppressed and cohesive with companion shelter<br>Unremarkable example of species | C12 | 4.2 |

| Tree Number | Common Species Name | Trunk Diameter (mm) | Height (m) | Crown Spread (m) | | | | Radial | First Significant Branch (m) | Crown Clearance (m) | Life Stage | Physiological Condition | Structural Condition | Comments | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | E | S | W | | | | | | | | | |
| 7 | Lawson Cypress | 300<br>200<br># | 12 | | | | | 3.5 | 2.25# | 4 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Radial crown measurement based on southern spread<br>Mutually suppressed and cohesive with companion shelter<br>Unremarkable example of species | C12 | 4.2 |
| 8 | English Oak | 450# | 15.5 | 9# | 6 | 6.75 | 4.5 | | 5# | 7 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Structure appears typical for species within current context<br>Minor internal deadwood<br>Unsympathetic pruning to southern aspect of lower crown<br>Moderate example of species | B12 | 5.4 |
| 9 | Lawson Cypress | 110<br>140<br>130<br>90<br># | 10 | | | | | 2.5 | 1.75 | 2 | Semi Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Radial crown measurement based on southern spread<br>Mutually suppressed and cohesive with companion shelter<br>Unremarkable example of species | C12 | 3 |
| 10 | Lawson Cypress | 3*200# | 11.5 | | | | | 2.5 | 3# | 3 | Semi Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Radial crown measurement based on southern spread<br>Mutually suppressed and cohesive with companion shelter<br>Unremarkable example of species | C12 | 4.2 |
| 11 | Coast Redwood | 650# | 11 | 5# | 6.25 | 5.75 | 5 | | 2# | 3.25 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Suspected stem failure at c. 10m<br>Suppressed by T12<br>Low arboricultural quality | C1 | 7.8 |
| 12 | Coast Redwood | 750# | 18 | 7.5 | 6.75 | 6.25 | 7# | | 2# | 1.5 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Structure appears typical for species within current context<br>Prominent boundary feature<br>Good example of species | A12 | 9 |
| 13 | English Oak | 650# | 15 | | | | | 10.25 | 5# | 2.75 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Well balanced crown and scaffold structure<br>Structure appears typical for species within current context<br>Prominent boundary feature<br>Moderate example of species | B12 | 7.8 |

| Tree Number | Common Species Name | Trunk Diameter (mm) | Height (m) | Crown Spread (m) N | E | S | W | Radial | First Significant Branch (m) | Crown Clearance (m) | Life Stage | Physiological Condition | Structural Condition | Comments | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | Ash | 3*320<br>3*300<br># | 13 | 7# | 8.25 | 6 | 6.25 | | 2 | 1.75 | Early Mature | Below Average | Poor | Stem inaccessible due to dense understorey<br>Likely to have been historically managed as part of hedgerow, now lapsed<br>Multi stemmed from c.0.5m, unions obscured by dense understorey<br>Above average internal deadwood<br>Above average epicormic growth<br>Dieback throughout crown<br>Considered to be entering a state of terminal decline, unlikely to offer a long term future contribution | U | N/A |
| 15 | Ash | 320<br>380<br>3*270<br># | 14.5 | 6# | 8 | 7 | 6.25 | | 1.75 | 4 | Early Mature | Below Average | Poor | Stem inaccessible due to dense understory<br>Likely to have been historically managed as part of hedgerow, now lapsed<br>Multi stemmed from c.0.5m, unions obscured by dense Bramble<br>Above average small diameter deadwood<br>Multiple tear out wounds throughout scaffold structure<br>Pruned away from overhead utilities to west<br>Individually of low significance, conferred moderate value as component of wider collective | B2 | 8.1 |
| 16 | Ash | 120<br>150<br>230<br>2*100<br># | 14 | 5# | 7 | 4 | 0.5 | | 1.5 | 7.75 | Early Mature | Below Average | Hazardous | Stems inaccessible due to dense understorey<br>Likely to have been historically managed as part of hedgerow, now lapsed<br>Bole appears hollow<br>Maiprity of stems have extensive decay to c 1m<br>Hazardous structural condition, unsuitable for retention | U | N/A |
| 17 | English Oak | 750# | 14 | 7 | 6.5# | 5.25 | 7.75 | | 6.25 | 4.75 | Early Mature | Average | Indifferent | Situated on site boundary<br>Clad and obscured by ivy, unable to thoroughly inspect<br>Stem inaccessible due to dense basal growth<br>Slight lean to east from ground level<br>Extensive burring at base<br>Moderate example of species<br>Prominent boundary feature | B12 | 9 |
| 18 | English Oak | 650# | 14 | 5.5 | 7.5# | 7 | 6 | | 5# | 3 | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Stem kinks south from ground level, corrects at c.2m<br>Moderate example of species<br>Prominent boundary feature | B12 | 7.8 |
| 19 | Field Maple | 2*250<br>130<br># | 7 | | | | | 4# | 1# | 3.5 | Semi Mature | Below Average | Indifferent | Previous unsympathetic pruning to entire crown<br>Large cavity on western aspect of base<br>Unremarkable example of species | C12 | 4.5 |
| 20 | | | | | | | | | | | | | | Removed at of 17/04/24 | | |



ARUN DISTRICT COUNCIL AL/137/24/RES

| Tree Number | Common Species Name | Trunk Diameter (mm) | Height (m) | Crown Spread (m) | | | | Radial | First Significant Branch (m) | Crown Clearance (m) | Life Stage | Physiological Condition | Structural Condition | Comments | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | E | S | W | | | | | | | | | |
| 21 | Hawthorn | 340# | 6 | 3# | 2.5# | 4 | 4 | | 1.75 | 1.5 | Early Mature | Average | Hazardous | Multiple cavities on all aspects of trunk<br>Stem kinks west from ground level<br>Hazardous structural condition, anticipate future failure | U | N/A |
| 22 | English Oak | 630# | 7.5 | | | | | 3 | 2.75 | 2.75 | Early Mature | Below Average | Poor | Previously unsympathetically reduced to monolith<br>Limited regrowth at time of survey<br>Large wound on western aspect of base from ground level to c.1.25m<br>Reduced future potential | C1 | 7.5 |
| 23 | English Oak | 450# | 13# | 2# | 4# | 8.5 | 5# | | 4# | 5# | Early Mature | Average | Poor | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Surveyed from a distance<br>Unsympathetic pruning to entire crown<br>Occasional decay pockets within old pruning points<br>Unremarkable example of species | C1 | 5.4 |
| 24 | Beech | 550# | 13 | | | | | 5# | 3# | 3# | Early Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Surveyed from a distance<br>Recent crown reduction<br>Moderate example of species | B1 | 6.6 |
| 25 | English Oak | 800# | 16# | | | | | 9# | 5# | 7# | Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Surveyed from a distance<br>Previous unsympathetic reduction to entire crown<br>Bifurcates at c.4m<br>Moderate example of species<br>Prominent within views from adjacent dwellings | B12 | 9.6 |
| G1 | Lonicera<br>English Oak<br>Contorted Hazel<br>Lawson Cypress<br>Holly<br>Ash<br>Laburnum | 2*170 max<br><br>90 av | 7 max | | | | | 2.75 max<br><br>1.5 av | 0.25 to 1.5 | 0.25 to 1.5 | Young to Semi Mature | Average | Indifferent | Inaccessible, situated within neighbouring residential land<br>Collection of establishing ornamental plantings and occasional self set specimens<br>Contributes to screen of adjacent built form<br>Unremarkable collection | C12 | 3 max<br><br>0.9 av |
| G2 | Lawson Cypress<br>Lonicera<br>Cherry Laurel<br>Holly<br>Hazel<br>Portugal Laurel<br>Hawthorn | 250# max | 9 max | | | | | 2.5 av | 3 av | 2 av | Semi Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Linear collection of Lawson Cypress with ornamental shrub understorey<br>Provides intermittent screen of adjacent land<br>Unremarkable collection | C12 | 3 |

| Tree Number | Common Species Name | Trunk Diameter (mm) | Height (m) | Crown Spread (m) | | | | Radial | First Significant Branch (m) | Crown Clearance (m) | Life Stage | Physiological Condition | Structural Condition | Comments | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | E | S | W | | | | | | | | | |
| G3 | Cherry Plum<br>Hazel<br>Hawthorn<br>Lawson Cypress<br>Blackthorn<br>Elaeagnus<br>Pyracantha<br>Portugal Laurel<br>English Oak | 2*190#<br>av | 12<br>max<br><br>9<br>av | | | | | 5<br>max<br><br>2.5<br>av | 1.5 av | 2 av | Young to Semi Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Occasionally encroaches on to site<br>Cohesive collection lining site boundary<br>Lower canopies maintained by flail<br>Unremarkable collection | C12 | 3.3 |
| G4 | Apple<br>Hawthorn<br>Blackthorn<br>Elder | 2*120<br>av | 6 av | | | | | 4 av | 1.5 av | 2.5 av | Semi Mature | Average | Indifferent | Cohesive collection of lapsed hedgerow components lining site boundary<br>Components predominantly clad and obscured by Ivy, unable to thoroughly inspect<br>Lower canopies maintained by flail<br>Unremarkable collection | C12 | 2.1 |
| G5 | Ash<br>Hawthorn<br>Blackthorn | 350<br>3*120#<br>max | 14.5<br>max | | | | | 7.5 max | 2 av | 2 av | Semi Mature to Early Mature | Below Average | Indifferent to Poor | Limited access due to dense understory<br>Collection of Ash with scrub understorey<br>Predominantly clad and obscured by Ivy<br>Majority of group showing signs of decline<br>Unremarkable collection | C12 | 4.8 |
| G6 | Sumac<br>Field Maple<br>Purple Plum<br>Holly<br>Leyland Cypress<br>Hawthorn<br>Blackthorn<br>Hazel<br>Silver Birch<br>Japanese Maple | 170#<br>max | 1.5<br>to<br>7.5 | | | | | 3.5 max | 1 av | 1.5 av | Young to Semi Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Occasionally encroaches on to site<br>Intermittent collection of domestic ornamental plantings<br>Unremarkable collection | C12 | 2.1 |
| G7 | Beech | 300# max | 4 av | | | | | 1.75 av | 0.5 av | 0.5 av | Semi Mature to Early Mature | Average | Indifferent | Linear group of plantings<br>Unsympathetically reduced to c.4m<br>Unremarkable collection | C12 | 3.6 |
| G8 | Hawthorn<br>Elder<br>Holly | 3* 100 av | 7 av | | | | | 2 av | 0.5 av | 0.5 av | Semi Mature | Average | Indifferent | Linear collection lining PROW<br>Previously reduced to c.2.75m<br>Unremarkable collection | C12 | 2.1 |
| G9 | Cordyline<br>Euonymus<br>Myrtle | 200# max | 4 av | | | | | 0.5 av | 0.5 to 2.5 | 0.5 to 2.5 | Semi Mature | Average | Indifferent | Inaccessible, offsite within neighbouring residential land, unable to thoroughly inspect<br>Unremarkable collection | C12 | 2.4 |

| Tree Number | Common Species Name | Trunk Diameter (mm) | Height (m) | Crown Spread (m) | | | | Radial | First Significant Branch (m) | Crown Clearance (m) | Life Stage | Physiological Condition | Structural Condition | Comments | BS5837 Category | RPA Radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | N | E | S | W | | | | | | | | | |
| G10 | Viburnum<br>Aucuba Japonica<br>Lawson Cypress<br>Berberis | 75 av | 4 max | | | | | 1.5 av | 0.25 av | 0.25 av | Young to Semi Mature | Average | Indifferent | Intermittent collection of domestic ornamental plantings<br>Unremarkable collection | C12 | 0.9 |
| H1 | Hawthorn<br>Blackthorn<br>Ash<br>Field Maple | 75 av | 2 av | | | | | 1 av | 0.25 av | 0.25 av | Semi Mature | Average | Indifferent | Maintained field boundary hedgerow | C12 | 0.9 |
| H2 | Hawthorn<br>Blackthorn<br>Dogwood<br>Elder<br>Cherry Plum<br>Ash<br>Privet | 75 av | 3.5 av | | | | | 1.5 av | 0.25 av | 0.25 av | Semi Mature | Average | Indifferent | Maintained field boundary hedgerow | C12 | 0.9 |

# APPENDIX D

## BARRIER SPECIFICATIONS

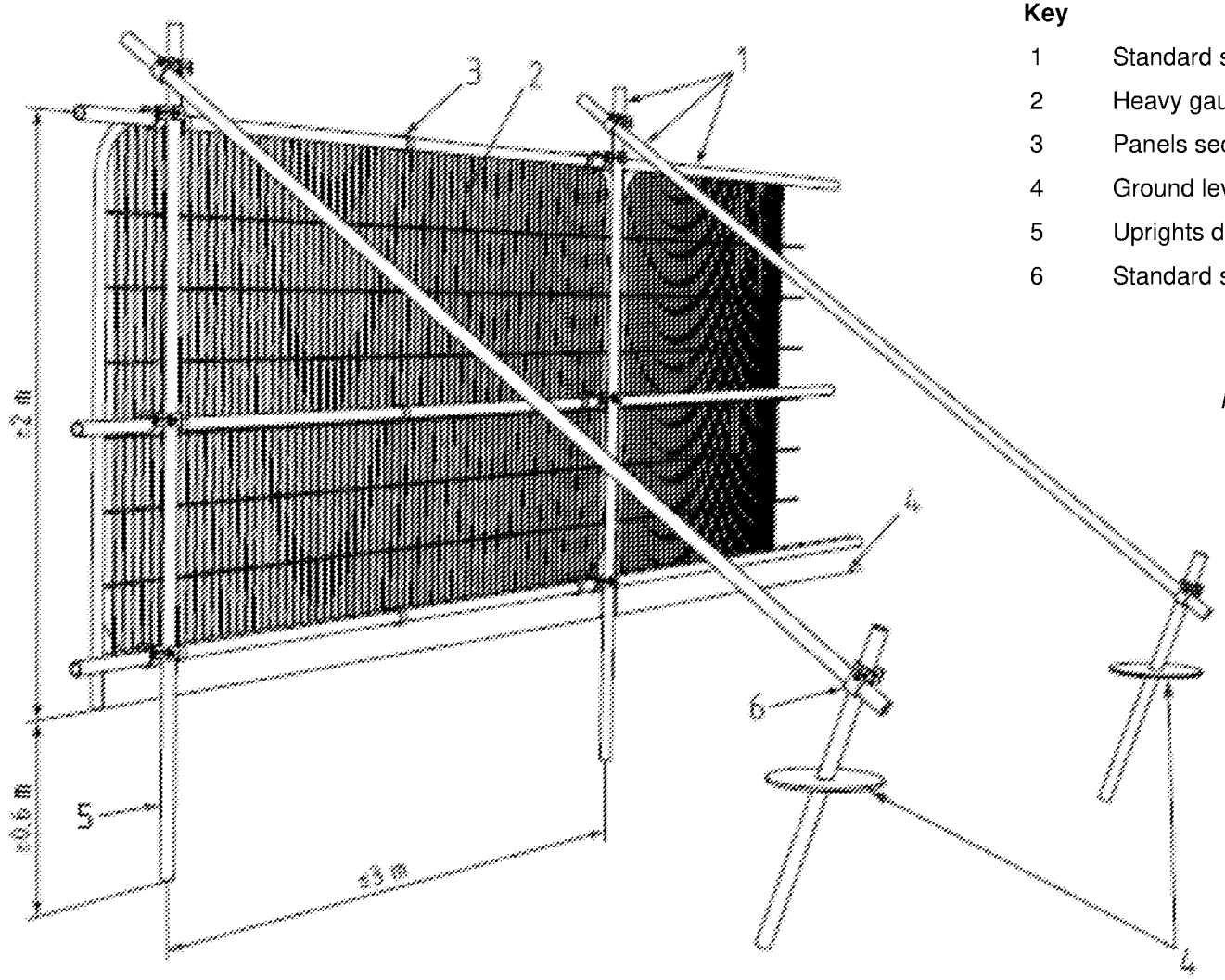


ARUN DISTRICT COUNCIL AL/137/24/RES

ARUN DISTRICT COUNCIL AL/137/24/RES

# Recommended Tree Protection Fencing Specification for this Development

(Source: BS 5837: 2012)




**Key**

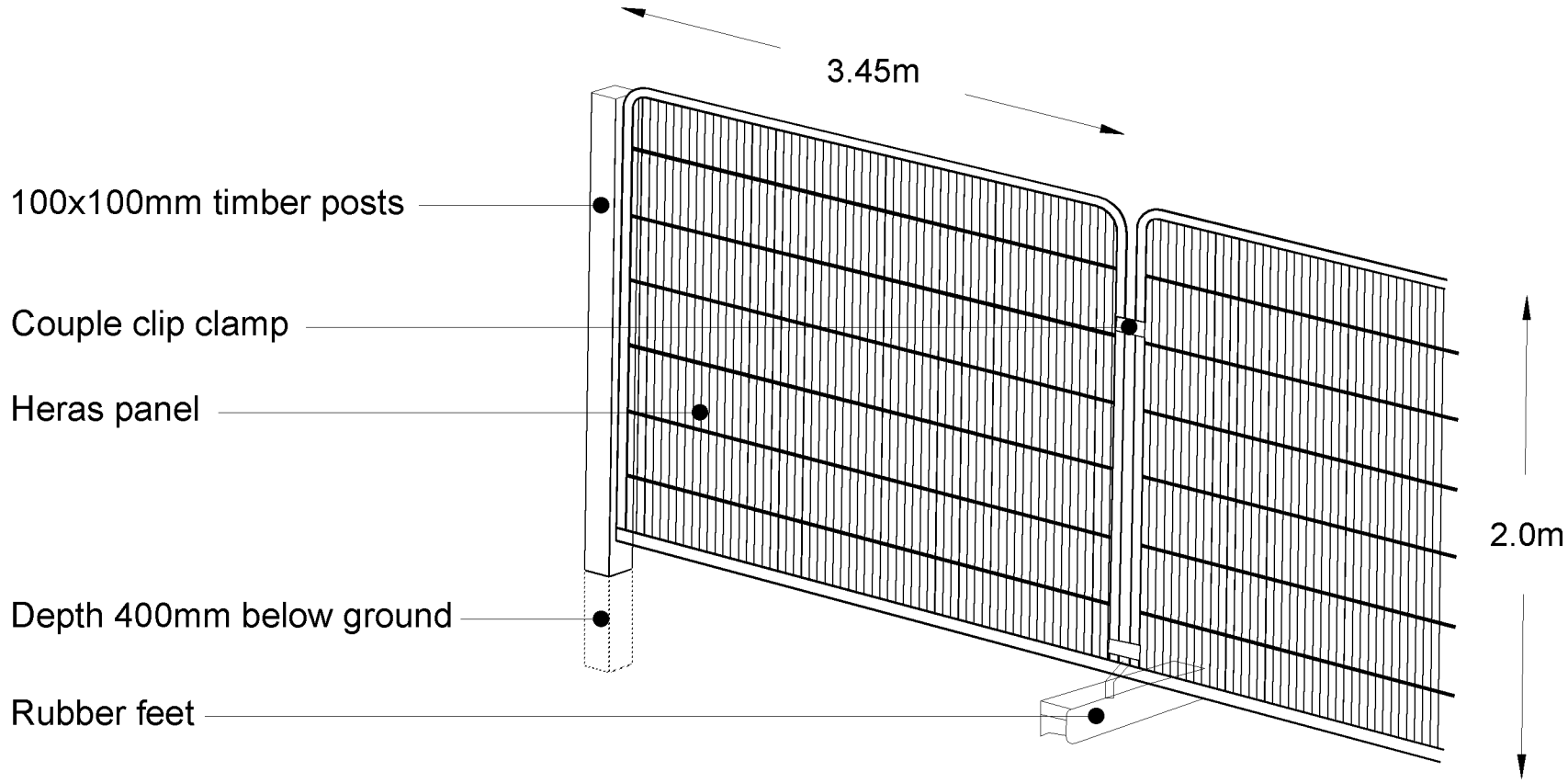
| | |
|---|---|
| 1 | Standard scaffold poles |
| 2 | Heavy gauge 2m tall galvanized tube and welded mesh infill panels |
| 3 | Panels secured to uprights and cross-members with wire ties |
| 4 | Ground level |
| 5 | Uprights driven into the ground until secure (minimum depth 0.6m) |
| 6 | Standard scaffold clamps |

*Notes:*

- *Supports are to be sited tree side of the panel front face.*
- *All weather notices should be attached to every fourth panel highlighting the importance of the barrier in its correct position. An example is provided overleaf which may be duplicated for use on this development.*

aspect arboriculture

## Tree Protection Barrier Specification




Heras panels supported with pinned rubber feet and driven 100x100mm timber posts on every second panel.

aspect arboriculture

ARUN DISTRICT COUNCIL AL/137/24/RES

ARUN DISTRICT COUNCIL AL/137/24/RES

# TREE PROTECTION BARRIER

- **DO NOT MOVE THIS FENCE**
- **NO SITE ACTIVITY TREE SIDE OF FENCE**
- **NO STORAGE TREE SIDE OF FENCE**

- **For assistance call Aspect Arboriculture: 01295 276066**

aspect arboriculture

APPENDIX E

Approved Parameters Plan 1318.03



ARUN DISTRICT COUNCIL AL/137/24/RES

Site

# LAND TO THE REAR OF MEADOW WAY, WESTERGATE

Drawing

## Parameter plan

Scale

1:1000@A2

Date

09.11.22

Drawing ref

1318.**03**

0 10 20 30 40 50m

## KEY

Site boundary

**DEVELOPMENT AREAS AND SCALE**

Residential Development area to include C3 residential uses, roads, parking, open space, Sustainable Urban Drainage System and landscaping. Maximum 2.5 storey development (up to 11.5m)

**GREEN INFRASTRUCTURE AND OPEN SPACE**

Green Infrastructure including landscape buffers, public open space including areas of natural play, landscape planting and Sustainable Urban Drainage System

**ACCESS AND MOVEMENT**

Proposed vehicular access

Proposed cycle / pedestrian access

Ordnance Survey (c) Crown Copyright 2022. All rights reserved. Licence number 100020449
**This drawing is for planning purposes only**
**Copyright of richards urban design ltd.**

richards urban design

ARUN DISTRICT COUNCIL AU/128/22/OUT

landscape planning • ecology • arboriculture

aspect

West Court
Hardwick Business Park
Noral Way
Banbury
Oxfordshire OX16 2AF