Tree Survey and Arboricultural Method Statement

RSPCA Headquarters
Wilberforce Way
Southwater
Horsham
RH13 9RS
1856-AMS-V1-A

Beechwood
TREES & LANDSCAPES LTD

20 YEARS OF EXCELLENCE IN ARBORICULTURE 1998-2018

DOCUMENT CONTROL

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Document revision, review, and acceptance

Version	Date	Brief details of Revision	Approved by (Initials)	Accepted by (Initials)

Arboricultural ASSOCIATION Professional Member

Institute of Chartered Foresters Registered Consultant

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1. INTRODUCTION

Background & Instruction

1.1 This report has been prepared by Sebastian Onslow MICFor (Chartered Arboriculturist), FdSc Arb, MArborA, Arboricultural Consultant at Beechwood Trees & Landscapes Ltd. Sebastian is a Professional member of the Institute of Chartered Foresters (Chartered Arboriculturist) and a Professional Member of the Arboricultural Association (AA) and is therefore required to uphold the professional and ethical standards within the ICF and AA Codes of Conduct. Sebastian holds the LANTRA certificate in Professional Tree Inspection.

1.2 Horsham District Council granted planning permission on 4th June 2024 for "Demolition of the existing building and the erection of 3no. buildings to provide flexible industrial and storage and distribution floorspace (Use Class B2/B8) and ancillary office floorspace, with associated hard and soft landscaping, car and cycle parking, supporting infrastructure and retention of existing attenuation pond" (app ref: DC/22/2077).

1.3 This Arboricultural Method Statement (AMS) has been prepared by Beechwood Trees & Landscape Ltd to satisfy planning condition No.7 (Arboricultural Method Statement & Tree Protection Plan) of the approved decision notice.

1.4 An Arboricultural Impact Assessment (AIA) was prepared by Middlemarch Environmental Ltd to accompany the approved planning application (report ref: RT-MME-158033-02 Rev B) dated October 2022. The AIA report details all necessary tree removals to facilitate the Approved Development.

1.5 A walkover / verification survey was undertaken on 20th August 2024 by Sebastian Onslow MICFor (Chartered Arboriculturist), FdSc Arb, MArborA. Any changes recorded since the original 2022 assessment have been included within the Tree Schedule at **Appendix 1**.

Report Limitations

1.6 The walkover / verification tree survey was undertaken from ground level only and based on visual observations relevant to the design, demolition, and construction process. Basic tree assessment instruments were used only. No internal decay equipment has been used or detailed root system investigation carried out for the purposes of the tree survey.

1.7 The survey is not a tree safety inspection. The survey is produced to accompany a discharge of conditions planning application. Where significant and obvious defects were present, these have been recorded during the inspection and addressed within the recommendations of the Tree Schedule at **Appendix 1**. A comprehensive tree safety survey would be subject to a separate instruction.

1.8 Trees are dynamic structures and form part of the natural environment. The condition of trees is subject to change. As such, the content of this report is valid for a period of one year and thereafter will be subject to reinspection as necessary.

1.9 This report is prepared by an arboricultural professional. Any comments with reference to ecological, archaeological, buildings, soil or engineering should not be relied upon, and further specialist advice should be obtained.

Documents Supplied

1.10 **Table 1** below provides a summary of documents used to produce this AMS.

Table 1: *Reference documents*

Document	Reference Number	Prepared By	Date
Topographical Survey	SS-BRG-003 1	Subvision Surveys Ltd	July 2022
Overall Block Plan (Proposed Site Plan)	21649-UMC-SI01-SI-D-A-0203 [P07]	UMC Architects	August 2022
Drainage Strategy Plan	21191-BGL-XX-XX-DR-C-0250 [P02]	Burrows Graham	October 2022
Construction Phase Plan	C5249-21-697	City Demolition Contractors (Birmingham) Ltd	July 2024
Arboricultural Impact Assessment	RT-MME-158033-02 Rev B	Middlemarch Environmental Ltd	October 2022

2. PLANNING HISTORY

Planning Application

2.1 Horsham District Council granted planning permission on 4th June 2024 for "Demolition of the existing building and the erection of 3no. buildings to provide flexible industrial and storage and distribution floorspace (Use Class B2/B8) and ancillary office floorspace, with associated hard and soft landscaping, car and cycle parking, supporting infrastructure and retention of existing attenuation pond" (app ref: DC/22/2077).

2.2 This AMS and the associated documents address the relevant planning condition of the Approved Development which relate to trees as detailed below.

Condition 7

"Pre-Commencement Condition: No development shall commence for any phase or unit, including demolition pursuant to the permission granted, ground clearance, or bringing equipment, machinery or materials onto the site, until an Arboricultural Method Statement detailing all trees/hedgerows on site and adjacent to the site to be retained during construction works, and measures to provide for their protection throughout all construction works, has been submitted to and approved in writing by the Local Planning Authority. The development shall be implemented and thereafter carried out at all times strictly in accordance with the agreed details.

Any trees or hedges on the site which die or become damaged during the construction process shall be replaced with trees or hedging plants of a type, size and in positions agreed by the Local Planning Authority.

Reason: As this matter is fundamental to ensure the successful and satisfactory protection of important trees and hedgerows on the site in accordance with Policy 33 of the Horsham District Planning Framework (2015)".

3. ARBORICULTURAL SUPERVISION

3.1 To ensure that all tree protection measures are correctly implemented, and no foreseeable damage occurs to retained trees, a scheme for arboricultural supervision and a process for monitoring and reporting has been set out within this AMS.

3.2 All elements of the arboricultural supervision will be undertaken by the retained arboricultural consultant or Project Arboriculturist (PA). The PA will be a suitably qualified arboriculturist from Beechwood Trees & Landscapes Ltd.

Scheme of Arboricultural Supervision

3.3 Based on the provisional timings for the stages of development available at this time, a framework for site supervision has been provided within **Table 2**.

3.4 Details of any required variation of the supervision scheme will be reported to the Local Planning Authority by the PA and agreed in writing where required.

3.5 There will be a phased approach to implementation of the Approved Development and current project timetables are available for the works associated with the construction of the approved building and the associated landscaping within the Phase 1 boundary.

3.6 Timescales and further details for Tree Protection for later phases will be provided in line with the process outlined in this AMS.

Table 2: *Arboricultural supervision schedule*

STAGE - Demolition Est. Start Date – September 2024		
Operation	**Details**	**Date**
Marking of trees / Groups / hedges for removal	Spray marking of trees / groups for removal in accordance with approved plans. Only trees requiring removal / pruning for demolition / remediation work to be removed as part of this operation. Personnel: Project Arboriculturist.	September 2024

Pre-commencement meeting **(demolition / remediation)**	Pre-commencement meeting with key personnel responsible for implementation of development and tree protection. Personnel: Client, Site Manager, Main Contractor, Project Arboriculturist and Local Authority Tree Officer. Check installation and positioning of Tree Protection Fencing. Check facilitation tree removal / tree pruning. Agree any further works required prior to commencement of demolition / remediation.	September 2024
Monitoring Visit	Monitoring and progress update visit. Personnel: Client, Site Manager, Main Contractor, Project Arboriculturist. Check installation of Tree Protection Fencing. Discuss progress, incidents, queries and any variations to project schedule with project team.	Every 6 weeks unless otherwise required
Monitoring of specific operations	Monitoring of work being undertaken within RPAs. Personnel: Site Manager, Main Contractor, Project Arboriculturist Set out plan for work being undertaken within RPAs, in accordance with this AMS.	TBC as per construction schedule
Review phasing and development of landscape proposals	Monitoring of work being undertaken within RPAs. Personnel: Client, Landscape Architect, Main Contractor, Project Arboriculturist Set out plan for work being undertaken within RPAs, in accordance with this AMS.	TBC as per construction schedule

Supervision Recording

3.7 Following each supervision visit, a supervision record sheet will be completed by the PA. A copy of the supervision sheet will be issued to the site manager and other parties as required and retained by the PA.

3.8 Details of the operations, development progress, observations and any reported issues will be recorded and where required recommendations will be made for remedial work or any required amendments to the tree protection and/or methods set out within this AMS.

3.9 During supervision visits the PA will take photographs as required to provide additional evidence of the implementation of tree protection measures.

3.10 The record sheets and photographs will provide an auditable trail of evidence that all required tree protection measures have been adhered to. Record sheets will be provided to the Local Planning Authority as required.

Reporting Process

3.11 The reporting process set out here should be adhered to when possible to enable quick and effective communication of matters relating to tree protection and the implementation of tree protection measures.

3.12 The Site Manager will be responsible for reporting any queries or incidents relating to trees to the Project Arboriculturist.

3.13 The Project Arboriculturist will contact the Tree Officer at the Local Planning Authority to discuss any issues or agree amendments to the tree protection measures set out within this AMS.

3.14 Any variation of the Approved Development which may impact upon trees should be reported to the PA.

3.15 Any damage to the stem, branches or roots of any retained tree should be reported to the PA. Where required, recommendations for remedial work will be made and reported to the Tree Officer.

4. IMPACT ASSESSMENT

4.1 Tree removal will be carried out in accordance with the approved AIA and plans prepared by Middlemarch Environmental Ltd.

4.2 The approved AIA details the removal of 23no. individual trees, 19no. groups of trees and 12no. hedges. There will also be a part-removal of a further 7no. groups of trees. Those trees to be removed are set out below and illustrated on the Arboricultural Impact Plan (AIP) at **Appendix 2**.

4.3 Several trees have been downgraded in retention category due to a decline in condition since the original 2022 assessment.

***Table 3**: Tree removals for approved development*

Tree Removal for Approved Development			
Reference Number	**BS5837 Retention Category**	**Reason for Removal**	**Notes**
T1 (wild cherry)	U	Poor condition.	-
T2 (Pedunculate oak)	C	Within footprint of proposed building.	-
T3 (Wild cherry)	C	Within footprint of proposed hardstanding.	-
T4 (Red maple)	U	Poor condition.	-
T5 (Red maple)	C	Within footprint of proposed hardstanding.	-
T6 (Red maple)	C	Within footprint of proposed hardstanding.	-
T7 (Rowan)	C	Within footprint of proposed building.	-
T8 (White willow)	B	Within footprint of proposed hardstanding.	-
T9 (White willow)	B	Within footprint of proposed hardstanding.	-
T10 (Red oak)	B	Within footprint of proposed building.	-
T11 (Himalayan birch)	B	Within footprint of proposed access road.	-
T12 (Himalayan birch)	B	Within footprint of proposed access road.	-
T14 (Japanese cherry)	C	Within footprint of proposed hardstanding.	-
T15 (Japanese cherry)	C	Within footprint of proposed hardstanding.	-
T17 (Weeping ash)	U	Poor condition.	-
T20 (Weeping ash)	U	Poor condition.	-
T21 (common alder)	C	Within footprint of proposed pond works.	-
T22 (Black walnut)	B	Within footprint of proposed building.	-
T23 (Tibetan cherry)	C	Within footprint of proposed building.	-
T24 (Tibetan cherry)	C	Within footprint of proposed building.	-

T25 (Field maple)	B	Within footprint of proposed building.	-
T26 (Field maple)	B	Within footprint of proposed building.	-
T27 (Common ash)	C	Within footprint of proposed building.	-
G1 (Wild cherry)	U	Poor condition.	-
G2 (Manna ash)	C	Within footprint of proposed building.	-
G3 (Rowan)	U	Poor condition.	-
G4 (Common ash)	C	Within footprint of proposed hardstanding.	-
G5 (Manna ash)	C	Within footprint of proposed building.	-
G6 (Manna ash)	C	Within footprint of proposed parking and access road.	-
G7 (Hornbeam)	B	Within footprint of proposed parking, building and access road.	-
G8 (Red oak)	B	Within footprint of proposed parking and buildings.	-
G9 (White willow)	B	Within footprint of proposed parking and buildings.	-
G10 (Manna ash)	C	Within footprint of proposed building and access road.	-
G11 (Hornbeam)	C	Within footprint of proposed building and access road.	-
G12 (Himalayan birch)	B	Within footprint of proposed parking.	-
G17 (Mixed species)	C	Within footprint of proposed hardstanding.	-
G20 (Lawson cypress)	C	Within footprint of proposed hardstanding.	-
G23 (Mixed species)	C	Within footprint of proposed pond works.	-
G25 (Mixed species)	C	Within footprint of proposed pond works.	-
G27 (Mixed species)	C	Within footprint of proposed pond works and earthworks.	-
G28 (Mixed species)	C	Within footprint of proposed earthworks.	-
G31 (Mixed species)	B	Within footprint of proposed footpath and buildings.	-
H1 (Mixed species)	C	Within footprint of proposed parking, access road and hardstanding.	-

H2 (Mixed species)	C	Within footprint of proposed parking, buildings and hardstanding.	-
H3 (Lawson cypress)	C	Within footprint of proposed access road.	-
H4 (Mixed species)	C	Proximity to proposed hardstanding.	-
H5 (Privet)	C	Landscaping proposals.	-
H6 (Mixed species)	C	Within footprint of proposed hardstanding.	-
H7 (Mixed species)	C	Within footprint of proposed earthworks, buildings and hardstanding.	-
H8 (Cotoneaster)	C	Within footprint of proposed earthworks.	-
H9 (Mixed species)	C	Within footprint of proposed earthworks.	-
H10 (Mixed species)	C	Within footprint of proposed earthworks.	-
H11 (Mixed species)	C	Within footprint of proposed hardstanding.	-
H12 (Common beech)	C	Within footprint of proposed hardstanding.	-

***Table 4**: Part-removals for approved development*

Part-Removal of Tree Groups for Approved Development			
Reference Number	**BS5837 Retention Category**	**Reason for Removal**	**Notes**
G13 (Mixed species)	B	Within footprint of proposed parking, earthworks, buildings and hardstanding.	See TPP
G16 (Mixed species)	C	Within footprint of proposed access road.	See TPP
G18 (Mixed species)	B	Within footprint of proposed hardstanding, earthworks and building.	See TPP
G19 (Mixed species)	B	Within footprint of proposed hardstanding.	See TPP
G29 (Mixed species)	B	Within footprint of proposed earthworks.	See TPP
G30 (Mixed species)	B	Within footprint of proposed earthworks.	See TPP
G32 (Red oak)	B	Within footprint of proposed earthworks, footpath and building.	See TPP

5. TREE PROTECTION

5.1 The principal protection for the retained trees (above and below ground) and associated soils within the Site is through the erection of Tree Protection Fencing (TPF) to create a Construction Exclusion Zone (CEZ). The CEZ will be maintained throughout development, no access will be allowed to the area other than for operations specified in this AMS document or those agreed with the Council later.

5.2 The positioning of the CEZ will be in line with the Tree Protection Plan at **Appendix 2**.

5.3 Prior to any on-site demolition or construction, tree protective measures and the CEZ must be in place. The tree protection fence/barrier once erected will not be moved or relocated without approval from the Council or PA.

5.4 The following points are critical to the function of the CEZ:

- The TPF shall be maintained throughout the entire development phase
- No materials, machinery, temporary structures, chemicals or fuel shall be stored within the CEZ
- No excavations or increases in soil level within the CEZ are permitted without prior written approval from the LPA
- Care should be taken to ensure that wide or tall loads or plant with booms, jibs and counterweights do not come into contact with retained trees. Any transit or traverse of plant in close proximity to trees should be conducted under the supervision of a banks person to ensure that adequate clearance from trees is maintained at all times
- Material which will contaminate the soil such as concrete mixing, diesel oil and vehicle washing must not be discharged within 10m of the tree stems. In the event of an accident or spillage the PA must be notified
- Fires must not be lit in a position where their flames can extend to within 5m of foliage, branches or trunk. This will depend on the size of the fire and the wind direction

5.5 The TPF specification should consist of a vertical and horizontal scaffold framework, well braced to resist impacts, as illustrated in BS5837:2012 Figure 3 (attached at **Appendix 3**). The vertical 2m tall, welded mesh panels on rubber or concrete feet, the panels should be joined using a minimum of two anti-tamper couplers, installed so that they can only be removed from within the fence. The distance between fence couplers should be at least 1m and should be uniform throughout the fence. The panels should be supported on the inner side by stabilizer struts, which should be attached to a base plate secured with ground pins.

5.6 Weatherproof signage (Rigid plastic or Foamex foamboard) will be attached to the fencing with words such as ‘Construction Exclusion Zone – No Access’ (see signage example at **Appendix 3**).

5.7 At the end of the project the TPF will be removed only after confirmation by the PA that this is appropriate.

Working within the Root Protection Areas (RPAs)

5.8 The Approved Development will result in minor new incursions within the RPA of retained trees and tree groups including T16 (Japanese alder), G13 (mixed species), G26 (white willow) and G32 (red oak). Required works include soil reprofiling, construction of an attenuation basin and retaining wall. All works were identified within the AIA prepared and submitted alongside the approved planning application.

5.9 The RPA incursions will occur within the periphery of retained tree RPAs. Works are not considered to be of a detrimental impact to the health and vitality of the trees, following the precautionary approach described below.

5.10 The removal of existing soft / hard surfacing within tree RPAs must be undertaken using hand-held tools only under the direct supervision / guidance of the PA. This will ensure that foreseeable damage does not occur to retained trees during this phase of works. Use of a pneumatic drill is a preferred option to breaking existing hard surfacing within RPAs.

5.11 Large roots (>25mm diameter) identified during ground excavations should be retained as such roots may be essential to the tree's health and stability. Should any large diameter roots be identified, the project arboriculturist will be contacted to agree a suitable working methodology and ensure the continuation of on-site works. Roots, while exposed should be immediately wrapped or covered with hessian and kept moist, prior to backfilling which should take place as soon as possible.

5.12 Any minor / fibrous roots identified during ground excavations (<25mm diameter) can be pruned back to an appropriate growth point using sharp bypass secateurs or a root-pruning handsaw.

5.13 Prior to backfilling, roots should be surrounded with topsoil or uncompacted sharp sand (builders' sand should not be used due to its high salt content, which is toxic to tree roots), or other loose granular fill, before soil or other suitable material is replaced.

Utilities and Services

5.14 The location of below ground services is illustrated on the Drainage Strategy Plan. Given the extent of approved tree removals, there is minimal conflict with retained tree RPAs. A precautionary approach should be adopted when installing below ground services nearby retained trees as discussed below.

5.15 Prior to ground excavations for the service runs, the tree protective fencing will be installed to prevent any foreseeable damage occurring to trees positioned adjacent to the route of proposed services.

5.16 It is anticipated that the excavations work will not result in a detrimental impact to the rooting system of adjacent retained trees.

5.17 Where existing services become redundant within the RPAs of retained trees, the default position is that they are decommissioned and left in situ. Where this is not possible, services are to be removed by winching out from an access/inspection chamber located outside of tree RPAs.

5.18 Excavation to install below ground services has the potential to result in unacceptable root severance which could be detrimental to tree health, vitality and structural stability.

5.19 Traditional trench excavated utilities should principally be routed outside of tree RPAs. Where this is not possible, it is preferable to keep apparatus together in common ducts or apply trenchless insertion methods within RPAs. In all cases, working shall be drawn up in conjunction with the project arboriculturist and comply with The National Joint Utilities Group (NJUG) Publication (NJUG 10, Volume 4).

5.20 Service routes must run as far from retained tree stems as possible and be installed to a minimum depth so that the upper 1metre of soil remains undisturbed. Service depths must consider soil type and tree species variation to be determined in conjunction with the project arboriculturist. Water pipes must be constructed to be resilient to ingress by tree roots which may require the installation of root barriers.

Post-development inspection

5.21 Following the completion of the development, an inspection of the condition of retained trees will be made. These works may include pruning on the grounds of safety and also to remediate where necessary.

5.22 Where the soil around any tree is found to be compacted, appropriate remediation will be undertaken. This will be prescribed by the PA and could include soil aeration or manual digging/forking to loosen the soil increasing drainage and aeration.

Tree Planting

5.23 To mitigate for the approved tree removals, new planting will be undertaken as part of the landscaping scheme.

5.24 All tree planting is to be in accordance with BS8545:2014 *Trees – from nursery to independence in the landscape - Recommendations.* Trees will be supported with a stake and tie, kept weed free and watered regularly during periods of dry weather. Aftercare will include regular inspection, irrigation, formative pruning and the checking/adjusting of plating stakes and ties as required.

6. CONCLUSIONS & RECOMMENDATIONS

6.1 This Arboricultural Method Statement has been prepared by Beechwood Trees & Landscape Ltd to satisfy planning condition No.7 (Arboricultural Method Statement & Tree Protection Plan) of the approved planning application (app ref: DC/22/2077) at RSPCA Headquarters, Wilberforce Way, Southwater, Horsham, RH13 9RS.

6.2 An Arboricultural Impact Assessment was prepared by Middlemarch Environmental Ltd to accompany the approved planning application (report ref: RT-MME-158033-02 Rev B) dated October 2022. This AIA details all necessary tree removals to facilitate the Approved Development.

6.3 The approved AIA details the removal of 23no. individual trees, 19no. groups of trees and 12no. hedges. There will also be a part-removal of a further 7no. groups of trees. Tree removals are illustrated on the Arboricultural Impact Plan at **Appendix 2**.

6.4 The Approved Development will result in minor new incursions within the Root Protection Area of retained trees and tree groups including T16 (Japanese alder), G13 (mixed species), G26 (white willow) and G32 (red oak). Required works include soil reprofiling, construction of an attenuation basin and retaining wall. Works are not considered to be of a detrimental impact to the health and vitality of the trees following the precautionary approach described within **Section 5** of this report.

6.5 The removal of existing soft / hard surfacing within tree RPAs must be undertaken using hand-held tools only under the direct supervision / guidance of the Project Arboriculturist. This will ensure that foreseeable damage does not occur to retained trees during this phase of works.

6.6 To ensure that all tree protection measures are correctly implemented, and no foreseeable damage occurs to retained trees, a scheme for arboricultural supervision and a process for monitoring and reporting has been set out within this AMS.

6.7 All trees to be retained on the Site will be protected by barriers and/or ground protection to create a Construction Exclusion Zone around their associated RPA. The protective barriers are to be installed prior to any development activity on the Site as illustrated on the Tree Protection Plan at **Appendix 2**.

7. REFERENCES

A-Z of tree terms: A companion to British arboriculture. 3rd Edition 2021. Philip Wilson

British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction - Recommendation'

British Standard 3998:2010 ‘Tree work – Recommendations’

BS8545:2014 Trees: from nursery to independence in the landscape – Recommendations

National House Building Council (NHBC) Standards, 2018. Chapter 4.2: Building Near Trees

National Joint Utilities Group (NJUG) Volume 4, Issue 2, 2007. NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees

National Planning Policy Framework (NPPF) 2023

National Tree Safety Group (NTSG), 2011. Common sense risk management of trees. Forestry Commission

The Forestry Act 1967

The Town and Country Planning Act 1990

The Town and Country Planning (Tree Preservation) (England) Regulations 2012

APPENDIX 1 – TREE SURVEY SCHEDULE & METHODOLOGY

BS5837:2012 Cascade Chart for Tree Quality Assessment

Tree Survey Schedule

Survey Methodology

Beechwood
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BS5837:2012
Cascade Chart for Tree Quality Assessment

Category and Definition	Criteria (including subcategories where appropriate)			ID Colour on Plan
Trees unsuitable for retention (see Note)				
Category U Those 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	• Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning); • Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline; and/or • Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or very low-quality trees suppressing adjacent trees of better quality. **NOTE**: Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.			Dark Red (127-000-000)
Trees to be considered for retention (see Note)				
	1 - Mainly arboricultural qualities	2 - Mainly landscape qualities	3 - Mainly cultural values, including conservation	
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years.	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue).	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).	Light Green (000-255-000)
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees with material conservation or other cultural value.	Mid Blue (000-000-255)
Category C Trees of low quality currently in adequate condition with at least 10 years life expectancy, or yound trees with a stem diameter below 150mm.	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/ transient landscape benefits.	Trees with no material conservation or other cultural value.	Grey (091-091-091)

BS5837:2012 TREE SURVEY SCHEDULE

SURVEY DATE: 20.08.2024
SURVEYOR: Sebastian Onslow
REFERENCE: 1856-TS-V1-A

SITE: RSPCA Headquarters, Wilberforce Way, Southwater, Horsham, RH13 9RS
CLIENT: Trinity Property Consultants

Ref No.	Common Name	Height (m)	Stem Dia Ø (mm)	Branch Spread (m) N	E	S	W	Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	General observations	Preliminary recommendations	BS5837 Retention Category	RPA (m^2)	RPA Radius (m)
T1	Wild cherry	5	150	3	3	2.8	2.5	2	S/Mat	Decline	Poor	Located within planting pit of carpark. Forms part of wider linear group of similar cherry trees. Stem wound at 1metre above ground level shows decay. Extensive canopy dieback. Declining condition.	Fell for approved development scheme.	**U**	10	1.80
T2	Pedunculate oak	4	75	1	1.5	1.5	1	1.5	Yng	Fair	Poor	Located within large planting verge of carpark. Small, heavily suppressed oak shaded out by adjacent trees. Low individual merit.	Fell for approved development scheme.	**C1**	3	0.90
T3	Wild cherry	5	140	2.5	2.5	2.5	2.5	2	S/Mat	Fair	Fair	Located within large planting verge of carpark. Individual cherry, foliage density slightly thin. Limited individual merit.	Fell for approved development scheme.	**C1**	10	1.80
T4	Red maple	9	160	3.5	3.5	2	3	2	S/Mat	Fair	Poor	Located within planting pit of carpark. Forms part of wider linear group of similar maples. Central leader is dead with tear-out wound. Signs of decay at point of failure. Poor structural form.	Fell for approved development scheme.	**U**	10	1.80
T5	Red maple	8	150	3	3	3	3	2.5	S/Mat	Good	Fair	Located within planting pit of carpark. Forms part of wider linear group of similar maples. Single-stemmed. Dense, radial canopy.	Fell for approved development scheme.	**C1**	10	1.80
T6	Red maple	8.5	150	3	3	2.5	3	2	S/Mat	Good	Fair	Located within planting pit of carpark. Forms part of wider linear group of similar maples. Single-stemmed. Dense, radial canopy.	Fell for approved development scheme.	**C1**	10	1.80
T7	Rowan	4	100	2	2	2	2	2	S/Mat	Decline	Fair	Located within planting verge of carpark. Small rowan. Single-stemmed. Sparse canopy. Limited individual merit.	Fell for approved development scheme.	**C1**	5	1.20
T8	White willow	13.5	380	5.5	5.5	5.5	5.5	2	S/Mat	Good	Fair	Located within planting pit of carpark. Well-established willow. Dense, radial canopy.	Fell for approved development scheme.	**B1**	64	4.50
T9	White willow	14.5	330	5.5	4.5	4.5	4.5	2	S/Mat	Good	Fair	Located within planting pit of carpark. Well-established willow. Dense, radial canopy.	Fell for approved development scheme.	**B1**	48	3.90

BS5837:2012 TREE SURVEY SCHEDULE

SURVEY DATE: 20.08.2024
SURVEYOR: Sebastian Onslow
REFERENCE: 1856-TS-V1-A

SITE: RSPCA Headquarters, Wilberforce Way, Southwater, Horsham, RH13 9RS
CLIENT: Trinity Property Consultants

Ref No.	Common Name	Height (m)	Stem Dia Ø (mm)	Branch Spread (m) N	E	S	W	Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	General observations	Preliminary recommendations	BS5837 Retention Category	RPA (m^2)	RPA Radius (m)
T10	Red oak	10	260	5	5	5	5	2	S/Mat	Good	Good	Located within planting pit of carpark. Establishing close to western boundary group. Single-stemmed. Dense canopy. Well-established ornamental oak.	Fell for approved development scheme.	**B1**	28	3.00
T11	Himalayan birch	15.5	316	4.5	3.5	2.5	3.5	3	S/Mat	Good	Fair	Located within planting verge of carpark. Stands close to building elevation. Forms pair with adjacent similar birch. Multi-stemmed. Dense canopy continuous with adjacent tree.	Fell for approved development scheme.	**B1**	48	3.90
T12	Himalayan birch	14.5	280	2.5	3.5	4.5	3.5	1	S/Mat	Good	Fair	Located within planting verge of carpark. Stands close to building elevation. Forms pair with adjacent similar birch. Multi-stemmed. Dense canopy continuous with adjacent tree.	Fell for approved development scheme.	**B1**	34	3.30
T13	Wild cherry	11	320	5.5	5.5	4.5	4.5	3	E/Mat	Good	Fair	Located to eastern boundary planting verge adjacent to perimeter of carpark. Well-established cherry. Dense foliage cover.	No works required.	**B1**	48	3.90
T14	Japanese cherry	6	198	2	2	2	2	1	S/Mat	Fair	Fair	Located towards southeast boundary. Forms from landscaped area close to pond. Individual cherry. Slender form. Foliage density quite sparse. Limited individual merit.	Fell for approved development scheme.	**C1**	18	2.40
T15	Japanese cherry	9	189	3.5	3.5	3.5	3.5	1	S/Mat	Fair	Fair	Located towards southeast boundary. Forms from landscaped area close to pond. Individual cherry. Slender form. Foliage density quite sparse. Limited individual merit.	Fell for approved development scheme.	**C1**	18	2.40
T16	Japanese alder	17	520	5.5	5	5.5	5.5	2	E/Mat	Good	Good	Located towards southeast boundary. Forms from landscaped area close to pond. Dense vegetation at base. Single-stemmed. Dense foliage cover. Unusual species variety. High value to site.	No works required.	**A1**	125	6.30
T17	Weeping ash	2	160	1.5	1.5	1.5	1.5	1	S/Mat	Decline	Fair	Located towards southeast boundary. Forms from landscaped area close to pond. Small weeping ash. Extensive foliage dieback consistent with advanced infection of ash dieback. Poor condition.	Fell for approved development scheme.	**U**	10	1.80

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T18 (TPO)	Pedunculate oak	17.5	925	6.5	7.5	8.5	8.5	3	Mat	Good	Good	Tree protected by TPO 1425 (Dec 2010). Located towards southeast boundary. Forms from landscaped area close to pond. Large, prominent oak. Ganoderma sp. decay fungi to stem base. Dense foliage. Deadwood present. High value to site.	Remove canopy deadwood from a site management perspective.	**A1**	387	11.10
T19 (TPO)	Pedunculate oak	17.5	860	6.5	11	11	7.5	2	Mat	Good	Good	Tree protected by TPO 1425 (Dec 2010). Located towards southeast boundary. Forms from landscaped area close to pond. Large, prominent oak. Dense foliage. Deadwood present. High value to site.	Remove canopy deadwood from a site management perspective.	**A1**	327	10.20
T20	Weeping ash	3	130	1.5	1.5	1.5	1.5	2	S/Mat	Poor	Poor	Located towards southern boundary. Forms from landscaped area close to pond. Small weeping ash. Extensive foliage dieback consistent with advanced infection of ash dieback. Poor condition.	Fell for approved development scheme.	**U**	7	1.50
T21	Common alder	9	264	3	3	3	3	1.5	S/Mat	Fair	Fair	Located towards southern boundary. Forms from landscaped area close to pond. Individual alder. Multi-stemmed. Dense, radial canopy.	Fell for approved development scheme.	**C1**	34	3.30
T22	Black walnut	13	295	5.5	5.5	5.5	5.5	2	E/Mat	Good	Fair	Located within planting pit towards building entrance. Individual walnut. Single-stemmed. Dense, radial canopy. Well-established ornamental specimen.	Fell for approved development scheme.	**B1**	41	3.60
T23	Tibetan cherry	4	241	2.5	2.5	2.5	2.5	1	S/Mat	Fair	Fair	Located within grass verge close to building entrance. Forms pair with adjacent similar cherry. Multi-stemmed. Canopy continuous with adjacent tree. Limited individual merit.	Fell for approved development scheme.	**C1**	28	3.00
T24	Tibetan cherry	4	195	1.5	1.5	1.5	1.5	0	S/Mat	Fair	Fair	Located within grass verge close to building entrance. Forms pair with adjacent similar cherry. Multi-stemmed. Canopy continuous with adjacent tree. Limited individual merit.	Fell for approved development scheme.	**C1**	18	2.40
T25	Field maple	8	250	3	3	3	3	2	S/Mat	Good	Fair	Located within grass verge close to building entrance. Forms pair with adjacent similar maple. Single-stemmed. Canopy continuous with adjacent tree. Well-established specimen.	Fell for approved development scheme.	**B1**	28	3.00

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Ref No.	Common Name	Height (m)	Stem Dia Ø (mm)	Branch Spread (m) N	E	S	W	Height of Crown Clearance (m)	Age Class	Phys Con	Struc Con	General observations	Preliminary recommendations	BS5837 Retention Category	RPA (m^2)	RPA Radius (m)
T26	Field maple	10	330	5.5	5	4	4.5	2	S/Mat	Good	Good	Located within grass verge close to building entrance. Forms pair with adjacent similar maple. Single-stemmed. Canopy continuous with adjacent tree. Well-established specimen.	Fell for approved development scheme.	**B1**	48	3.90
T27	Common ash	13	340	4.5	4.5	4.5	4.5	2	S/Mat	Fair	Fair	Located towards northern boundary. Forms from wider group framing carpark. Foliage density slightly thin consistent with onset of ash dieback. Limited individual merit. Contributes to wider boundary screening group.	Fell for approved development scheme.	**C1**	55	4.20
G1	Wild cherry	4.5	200	See Associated Plans				2	S/Mat	Decline	Decline	Located centrally to carpark. Linear group of cherries establishing from planting pits within hardsurfacing. All trees exhibit physiological decline. Foliage dieback and deadwood. Very limited future life expectancy.	Fell for approved development scheme.	**U**	18	2.40
G2	Manna ash	6	185	See Associated Plans				2	S/Mat	Fair	Fair	Located centrally to carpark. Linear group of ash establishing from planting pits within hardsurfacing. Both single and double row of trees. Several trees exhibit foliage decline consistent with onset of ash dieback. Limited collective quality and longevity.	Fell for approved development scheme.	**C1,2**	14	2.10
G3	Rowan	9	190	See Associated Plans				2	S/Mat	Decline	Fair	Establishing from grass verge north of building. Cluster of 3no. rowan. Extensive structural and physiological decline. Poor condition. Unsuitable for retention.	Fell for approved development scheme.	**U**	18	2.40
G4	Common ash	9	310	See Associated Plans				2	S/Mat	Decline	Fair	Establishing from grass verge between access road / carpark. Pair of 2no. ash. Extensive physiological decline consistent with advanced infection of ash dieback. Limited future site contribution.	Fell for approved development scheme.	**C1,2**	41	3.60
G5	Manna ash	9	250	See Associated Plans				1.5	S/Mat	Fair	Fair	Located centrally to carpark. Linear group of ash establishing from landscape planting verge. Double row of trees. Sparse canopies consistent with early onset of ash dieback. Limited future site contribution.	Fell for approved development scheme.	**C1,2**	28	3.00

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G6	Manna ash	6	180	See Associated Plans	2	S/Mat	Fair	Fair	Located centrally to carpark. Linear group of ash establishing from narrow landscape planting verge. Double row of trees. Thin canopies consistent with early onset of ash dieback. Limited future site contribution.	Fell for approved development scheme.	**C1,2**	14	2.10
G7	Hornbeam	9	295	See Associated Plans	0	S/Mat	Good	Fair	Located centrally to carpark. Linear group of dense hornbeam establishing from narrow landscape planting verge. Dense foliage cover. Ornamental value at a site level only.	Fell for approved development scheme.	**B1,2**	41	3.60
G8	Red oak	13	280	See Associated Plans	2	S/Mat	Good	Good	Located to northern boundary of carpark. Linear group of ornamental oaks share cohesive mutual canopies. Well-established trees.	Fell for approved development scheme.	**B1,2**	34	3.30
G9	White willow	12	290	See Associated Plans	1	S/Mat	Good	Good	Located within planting pits of carpark. Group of well-established willows. Ornamental value at a site level only.	Fell for approved development scheme.	**B1,2**	41	3.60
G10	Manna ash	7.5	150	See Associated Plans	2	S/Mat	Fair	Fair	Located centrally to carpark. Linear group of ash establishing from narrow landscape planting verge. Double row of trees. Thin canopies consistent with early onset of ash dieback. Limited future site contribution.	Fell for approved development scheme.	**C1,2**	10	1.80
G11	Hornbeam	4	150	See Associated Plans	0	S/Mat	Good	Good	Located centrally to carpark. Short linear group of hornbeam establishing from narrow landscape planting verge. An extension of previous hornbeam group. Quite sparse. Low overall quality and value.	Fell for approved development scheme.	**C1,2**	10	1.80
G12	Himalayan birch	15	365	See Associated Plans	1.5	E/Mat	Good	Fair	Located within planting border north of building. Cluster of 3no. birch. Trees share dense combined canopies. Ornamental value at a site level only.	Fell for approved development scheme.	**B1,2**	64	4.50

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G13	Common holly Privet Field maple Red oak Common hawthorn Common hazel Common elder Pedunculate oak Common yew Common ash Sycamore Blackthorn Rowan	14	375	See Associated Plans	0	E/Mat	Good	Good	Large eastern boundary group frames carpark. Part of group establishing off-site beyond ownership boundary. Mixed species composition. Important site screening and landscape contribution.	Part-loss for approved development scheme.	**B2**	64	4.50
G14	Common ash Pedunculate oak Common hawthorn Common hazel	14	185	See Associated Plans	0	S/Mat	Fair	Fair	Eastern boundary group frames carpark. Trees positioned off-site beyond ownership boundary. Mixed species. Site screening contribution.	No works required.	**C2**	14	2.10
G15	Scots pine Common ash Sycamore Pedunculate oak Common hawthorn Privet	16.5	565	See Associated Plans	0	E/Mat	Good	Fair	Large eastern boundary group frames carpark. Mostly establishing off-site beyond ownership boundary. Mixed species composition. Important site screening and landscape contribution.	No works required.	**B2**	150	6.90
G16	Common hawthorn Pedunculate oak Silver birch Common ash Wild cherry Goat willow Privet Cotoneaster Common lilac White willow Himalayan birch	11	200	See Associated Plans	0	S/Mat	Fair	Fair	Eastern boundary group frames carpark and bin store. Mixed species with understorey shrub layer. Ornamental planting, site level value only.	Part-loss for approved development scheme.	**C2**	18	2.40
G17	Tibetan cherry Smoke bush	4	230	See Associated Plans	1	S/Mat	Fair	Fair	Located to east of building. Cluster of small trees and large shrubs upon grass verge. Low collective quality and site value.	Fell for approved development scheme.	**C2**	23	2.70

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G18	Hornbeam Wild cherry Common ash Sycamore Pedunculate oak Blackthorn Common hawthorn Common holly Common hazel Privet Goat willow Field maple Silver birch Red oak Spindle	16	250	See Associated Plans	0	S/Mat	Good	Fair	Large boundary group of semi-mature trees frames south and southeast boundary of site. Dense group. Mixed species composition. Important site screening and landscape feature.	Part-loss for approved development scheme.	**B2**	28	3.00
G19	Wild cherry Common hazel Japanese alder Cut leaved alder	13	240	See Associated Plans	0	S/Mat	Good	Fair	Located towards southern boundary. Forms from landscaped area close to pond margin. Group of mixed ornamental trees. Well-established. Trees share cohesive mutual canopies. Includes several unusual alder variety. Moderate collective value.	Part-loss for approved development scheme.	**B1,2**	28	3.00
G20	Lawson cypress	3	150	See Associated Plans	0	S/Mat	Fair	Fair	Located towards southern boundary. Forms from landscaped area close to pond margin. Group of cypress trees. Low collective quality and longevity.	Fell for approved development scheme.	**C2**	10	1.80
G21	River birch	12	230	See Associated Plans	2	S/Mat	Good	Fair	Located towards southern boundary. Forms from landscaped area adjacent to pond margin. Linear group of 3no. ornamental birch. Slender form. Trees share cohesive canopies. Attractive group feature. Moderate arboricultural value.	No works required.	**B1,2**	23	2.70
G22	Common hazel Rowan Common ash	8	125	See Associated Plans	0	S/Mat	Fair	Fair	Located towards southern boundary. Forms from landscaped area adjacent to pond margin. Mixed low-level planting forming understorey beneath larger trees. Limited collective arboricultural value. Contributes to wider landscape planting.	No works required.	**C2**	7	1.50

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G23	Field maple Wild cherry Common alder Blackthorn Common hawthorn Cut leaved alder	9	170	See Associated Plans	0	S/Mat	Fair	Fair	Located towards southern boundary. Forms from landscaped area adjacent to pond margin. Mixed low-level planting of trees. Limited collective arboricultural value. Contributes to wider landscape planting.	Fell for approved development scheme.	**C2**	14	2.10
G24	Japanese alder	17	430	See Associated Plans	3	E/Mat	Good	Good	Located towards southern boundary. Forms from landscaped area close to pond margin. Pair of large alder. Unusual species variety. Important ornamental feature trees. Long-term potential. High arboricultural value.	No works required.	**A1,2**	82	5.10
G25	Common hazel Goat willow	8	230	See Associated Plans	0	S/Mat	Fair	Fair	Located towards southwest corner of site within wider landscaped area. Group of low-level ornamental planting. Limited wider site contribution.	Fell for approved development scheme.	**C2**	23	2.70
G26	White willow	17	455	See Associated Plans	3	E/Mat	Good	Fair	Located to southern site boundary. Short linear group of 3no. willow. Well-established tall trees contribute to screening and wider landscape contribution.	No works required.	**B1,2**	92	5.40
G27	Lawson cypress Common hazel Goat willow Silver birch	11	180	See Associated Plans	0	S/Mat	Fair	Fair	Located to south of main building. Linear group of mixed, low-level planting frames pedestrian walkway. Ornamental planting. Site level value only.	Fell for approved development scheme.	**C2**	14	2.10
G28	Wild cherry	9	260	See Associated Plans	2	S/Mat	Good	Good	Located to western boundary close to main site access point. Linear group of cherry trees framing internal road. Trees form attractive ornamental planting feature. Cohesive mutual canopies.	Fell for approved development scheme.	**C1,2**	28	3.00
G29	Wild cherry Common ash Field maple Goat willow Pedunculate oak Common hazel	11	320	See Associated Plans	0	S/Mat	Good	Fair	Located to western boundary. Linear mixed-species group divides site and highway. Semi-mature trees. Dense composition. Important site screening contribution. Moderate arboricultural quality.	Part-loss for approved development scheme.	**B2**	48	3.90

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G30	Pedunculate oak Field maple Goat willow Rowan Common hawthorn Common hazel	9	295	See Associated Plans	0	S/Mat	Good	Fair	Located to western boundary. Linear mixed-species group divides site and highway. Semi-mature trees. Dense composition. Important site screening contribution. Moderate arboricultural quality.	Part-loss for approved development scheme.	**B2**	41	3.60
G31	Common ash Scots pine Crab apple Common hazel Pedunculate oak Field maple Wild cherry Goat willow Silver birch	12	285	See Associated Plans	0	S/Mat	Good	Fair	Large north-western boundary group frames carpark. Semi-mature planting. Divides site and highway verge. Mixed species composition. Important site screening and landscape contribution.	Fell for approved development scheme.	**B2**	34	3.30
G32	Red oak	14	405	See Associated Plans	2	S/Mat	Good	Fair	Located off-site beyond northern boundary. Group of semi-mature off-site oaks positioned on highway verge. Well-established specimen. Attractive ornamental trees. Future potential. Secondary site screening. Moderate arboricultural quality.	Part-loss for approved development scheme.	**B1,2**	72	4.80
H1	Field maple Pedunculate oak Common hawthorn Privet Viburnum sp.	2	75	See Associated Plans	0	S/Mat	Fair	Fair	Located to landscape border within carpark. Low managed hedge.	Fell for approved development scheme.	**C2**	41	3.60
H2	Common beech Privet Viburnum sp. Firethorn	1.5	75	See Associated Plans	0	S/Mat	Fair	Fair	Located to landscape border within carpark. Low managed hedge.	Fell for approved development scheme.	**C2**	28	3.00
H3	Lawson cypress	1.5	125	See Associated Plans	0	S/Mat	Fair	Fair	Short section of hedging close to edge of main building. Low managed hedge.	Fell for approved development scheme.	**C2**	14	2.10
H4	Privet Common yew	1.5	70	See Associated Plans	0	S/Mat	Fair	Fair	Short section of hedging south of main building. Low managed hedge.	Fell for approved development scheme.	**C2**	41	3.60

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H5	Privet	2.5	75	See Associated Plans	0	S/Mat	Fair	Fair	Short section of hedging south of main building. Low managed hedge.	Fell for approved development scheme.	**C2**	34	3.30
H6	Cherry Laurel Privet Barberry	2	70	See Associated Plans	0	S/Mat	Fair	Fair	Short section of hedging south of main building. Low managed hedge.	Fell for approved development scheme.	**C2**	41	3.60
H7	Common beech Honeysuckle	2	90	See Associated Plans	0	S/Mat	Fair	Fair	Located to landscape border west of main building. Low managed hedge.	Fell for approved development scheme.	**C2**	10	1.80
H8	Cotoneaster sp.	1.5	50	See Associated Plans	0	S/Mat	Fair	Fair	Short section of hedging west of main building. Low managed hedge.	Fell for approved development scheme.	**C2**	10	1.80
H9	Common beech Privet	2.5	60	See Associated Plans	0	S/Mat	Fair	Fair	Located to landscape border west of site. Low managed hedge beneath tree line.	Fell for approved development scheme.	**C2**	64	4.50
H10	Cherry laurel	1.5	50	See Associated Plans	0	S/Mat	Fair	Fair	Section of hedging north of main building. Low managed hedge.	Fell for approved development scheme.	**C2**	64	4.50
H11	Field maple Privet	1.5	0	See Associated Plans	0	S/Mat	Fair	Fair	Located to landscape border west of site. Low managed hedge beneath tree line.	Fell for approved development scheme.	**C2**	14	2.10
H12	Common beech	1.5	50	See Associated Plans	0	S/Mat	Fair	Fair	Located to landscape border north of site. Low managed hedge beneath tree line.	Fell for approved development scheme.	**C2**	150	6.90

BS5837 TREE SURVEY METHODOLOGY

Reference Number: This is the identification number associated with each Tree (T), Group (G), Hedgerow (H) and Woodland (W) recorded during the Site assessment. The identification number is cross referenced within the Tree Schedule and Tree Plans to indicate the type of recorded feature.

Common Names: Recorded tree common name classification.

Height (m): Height of the tree measured from ground level to the nearest half metre. The height of group and woodland features is taken as an average measurement where differences occur.

Stem Diameter (mm): The tree stem diameter is measured at 1.5metres above ground level and recorded in mm. For trees with more than one stem, one of two calculation methods should be used. In all cases, the stem diameter(s) is measured in accordance with Annex C of BS5837:2012.

Branch Spread (m): Distance recorded in metres from the tree stem to the periphery of the branch/crown spread in each of the four cardinal directions (N - North, E - East, S - South, W – West). The branch spread of group and woodland features is taken as an average measurement where differences occur.

Height of Crown Clearance (m): Distance between the ground level and the lowest point of the tree crown recorded to the nearest half metre.

Age Class: NP – Newly planted, Yng – Young, S/Mat – Semi-mature, E/Mat – Early-mature, Mat – Mature, O/Mat – Over-mature, Vet – Veteran, Anc – Ancient.

Physiological Condition: Good, Fair, Poor, Decline, Dead.

Structural Condition: Good, Fair, Poor.

General Observations: A brief description of each recorded tree or tree group feature including location, growing conditions and surroundings, form, health & vitality together with the identification of any notable structural and/or physiological defects. Tree quality, longevity and public amenity value are also assessed.

Management Recommendations: Tree work recommendations to address significant and immediate risks to prevent foreseeable damage occurring to adjacent property and/or publicly accessible land. Or works required to facilitate the development.

BS5837 Retention Category: Tree retention category is based on Table 1 of BS5837:2012 – Cascade Chart for Tree Quality Assessment. This includes Category A – trees of high quality, Category B – trees of moderate quality, Category C – trees of low quality, Category U – trees of poor quality. Full classification details can be found within the Cascade Chart.

RPA (m^2): Root Protection Area associated with each tree containing sufficient soil volume to maintain the trees health, vitality and anchorage calculated from the stem diameter and measured in m^2 according to Annex D of BS5837:2012. The group RPA is calculated from the average stem diameter recorded.

RPA Radius (m): Radius of the tree Root Protection Area measured in meters, when typically plotted as a circle around the tree stem.

APPENDIX 2 – PLANS

Arboricultural Impact Plan

Tree Protection Plan

KEY.

Trees / Groups

Canopy Spread
Tree Stem
Root Protection Area

A Category Tree
(High quality / retention value)

B Category Tree
(Moderate quality / retention value)

C Category Tree
(Low quality / retention value)

U Category Tree
(No remaining retention value)

ARBORICULTURAL IMPACT

Approved Tree Removals

N

Rev	Description	Date
Rev A	Issue to client	21.08.2024

Beechwood
TREES & LANDSCAPES LTD

PROJECT
RSPCA Headquarters, Southwater, Horsham

TITLE
Arboricultural Impact Plan

DRAWING REF
1856-AIP-001-A

DRAWING NO
001

SCALE
1:500 @ A1

REVISION
Rev A

KEY.

Trees / Groups
- Canopy Spread
- Tree Stem
- Root Protection Area

- A Category Tree (High quality / retention value)
- B Category Tree (Moderate quality / retention value)
- C Category Tree (Low quality / retention value)
- U Category Tree (No remaining retention value)

TREE PROTECTION

- Tree Protection Fencing to BS5837:2012 Figure 3 spec (non-default)

G32 - Red oak
Minor RPA incursion for earthworks.
Sensitive ground excavation to be undertaken under arboricultural supervision.

G13 - Mixed species
Minor RPA incursion for earthworks.
Sensitive ground excavation to be undertaken under arboricultural supervision.

G26 - White willow
Minor RPA incursion for earthworks / attenuation pond.
Sensitive ground excavation to be undertaken under arboricultural supervision.

T16 - Japanese alder
Minor RPA incursion for earthworks / retaining wall.
Sensitive ground excavation to be undertaken under arboricultural supervision.

Tree Protection Fencing

The principal protection for the retained trees (above and below ground) and associated soils within the Site is through the erection of Tree Protection Fencing (TPF) to create a Construction Exclusion Zone (CEZ).

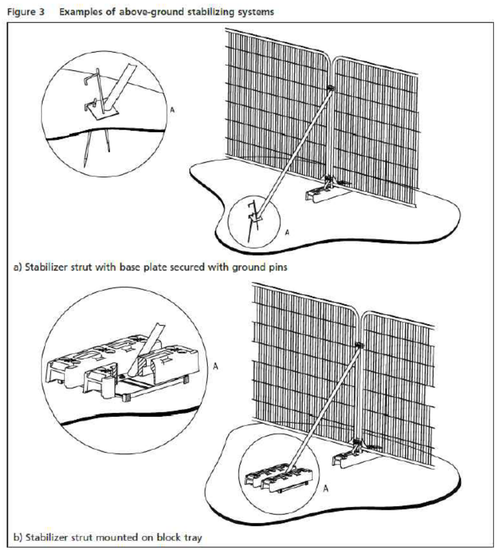
Prior to any on-site demolition or construction, tree protective measures and the CEZ must be in place. TPF Specification is show in Figure 3 (BS5837:2012) - pictured above.

The following points are critical to the function of the CEZ:

- The protective tree fencing shall be maintained throughout the development phase
- No materials, machinery, temporary structures, chemicals or fuel shall be stored within the CEZ
- No excavations or increases in soil level within the CEZ are permitted without prior written approval from the LPA
- Care should be taken to ensure that wide or tall loads or plant with booms, jibs and counterweights do not come into contact with retained trees. Any transit or traverse of plant in close proximity to trees should be conducted under the supervision of a banks person to ensure that adequate clearance from trees is maintained at all times
- Material which will contaminate the soil such as concrete mixing, diesel oil and vehicle washing must not be discharged within 10m of the tree stems. In the event of an accident or spillage the PA must be notified
- Fires must not be lit in a position where their flames can extend to within 5m of foliage, branches or trunk. This will depend on the size of the fire and the wind direction
- Any landscaping within the CEZ must avoid soil disturbance. Therefore, re-grading and rotavators are not permitted. Any agreed soil re-profiling to facilitate final agreed levels must be carried out by hand with topsoil.

Tree Protection Fencing - BS5837:2012 Figure 3

Figure 3 Examples of above-ground stabilizing systems



a) Stabilizer strut with base plate secured with ground pins

b) Stabilizer strut mounted on block tray

Rev	Description	Date
Rev A	Issue to client	21.08.2024

Beechwood TREES & LANDSCAPES LTD

PROJECT
RSPCA Headquarters, Southwater, Horsham

TITLE
Tree Protection Plan

DRAWING REF
1856-TPP-002-A

DRAWING NO
002

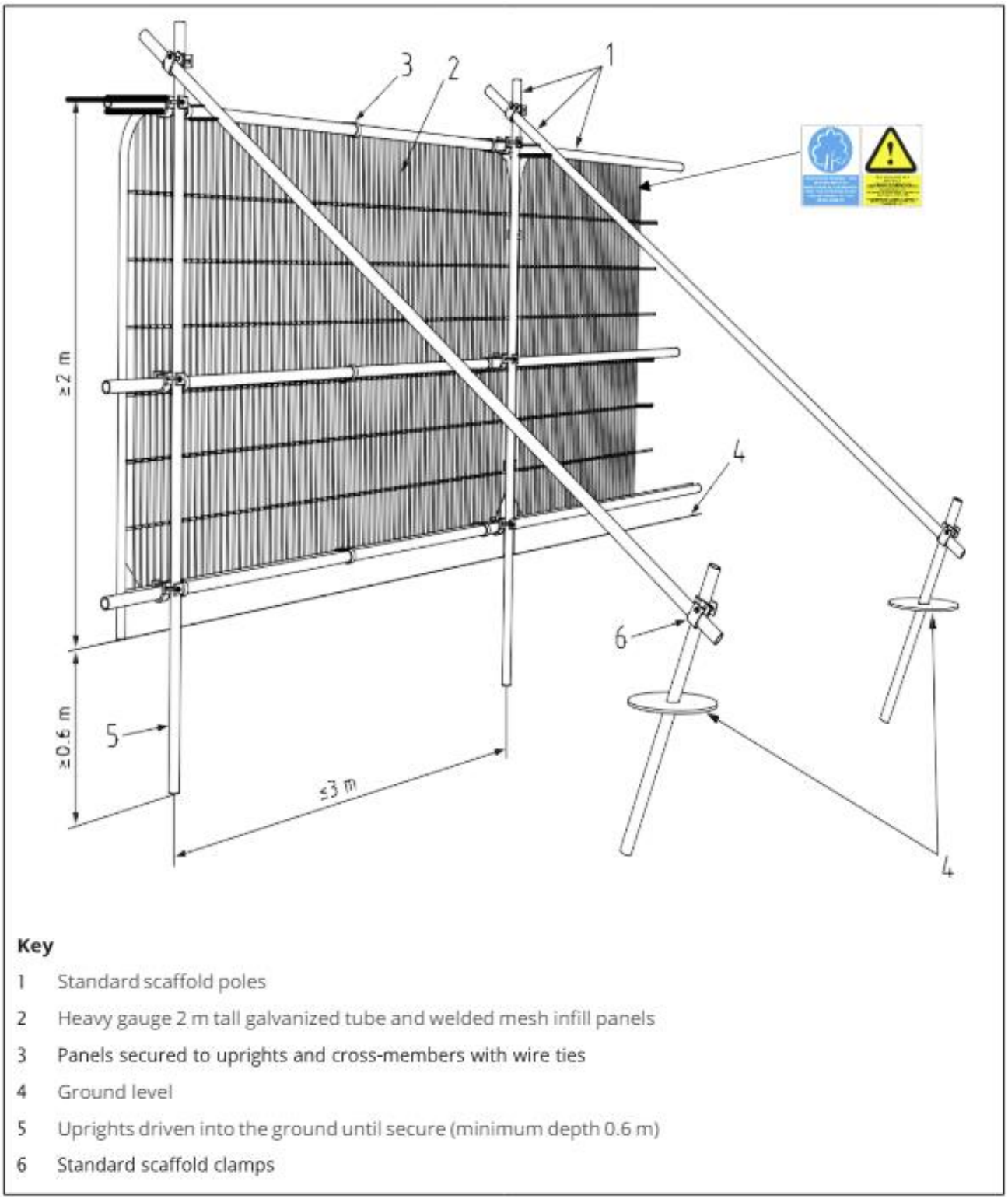
SCALE
1:500 @ A1

REVISION
Rev A

APPENDIX 3 – TREE PROTECTION

Tree Protective Fencing Specification and Notices

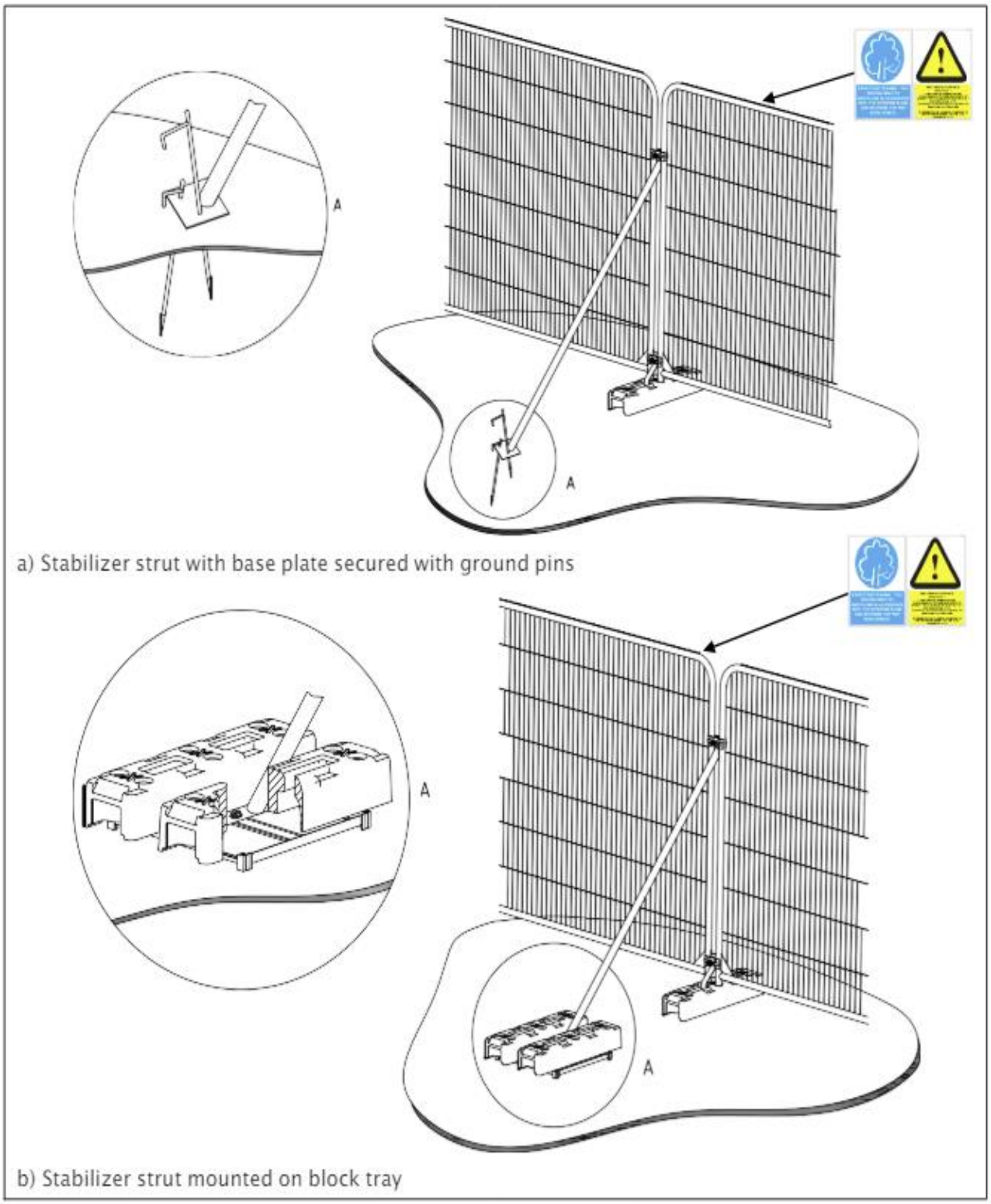
BS5837:2012 Figure 2 Default specification for protective barrier



Key

1 Standard scaffold poles
2 Heavy gauge 2 m 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 0.6 m)
6 Standard scaffold clamps

BS5837:2012 Figure 3 Example Non-Default specification for protective barrier



BS5837:2012 Example Tree Protection Fencing Signage



