JAMES BLAKE ASSOCIATES

Arboricultural Method Statement

Harefield Grove, Rickmansworth Road, Harefield

On behalf of

Comer Homes

11 August 2020

JBA 20/027 AR02

Over 30 Years of Service, Value and Innovation

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Project	Harefield Grove, Rickmansworth Road, Harefield
Report	Arboricultural Method Statement
Date	11 August 2020
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1 SUMMARY

1.1 This Arboricultural Method Statement (AMS) has been commissioned by Comer Homes to ensure retained trees and vegetation are adequately protected during the enabling, demolition and construction activities.

1.2 This report has been prepared in accordance with British Standard 5837: Trees in relation to design, demolition and construction – Recommendations (2012) and The National Joint Utilities Group (NJUG) Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees Volume 4 Issue 2 (2007). These documents provide best practice advice, assessment and guidance to ensure the protection of trees and significant vegetation on development sites.

1.3 In order to successfully work in close proximity to trees, the methods described within this document should only be carried out in conjunction with the direct appointment of a qualified arboricultural consultant. Failure to implement the approved tree protection measures and procedures could lead to enforcement action, the destabilisation of trees and/or the ultimate death of the trees.

Definitions

1.4 Construction Exclusion Zone (CEZ) – a fenced off area based upon the root protection area that is prohibited for the duration of a project (unless subject to supervised works)

1.5 Root Protection Area (RPA) – a layout design tool indicating the minimum area around a tree containing sufficient roots to maintain a trees viability.

1.6 Supervised works – demolition or construction works that require specific arboricultural advice and supervision to prevent damage from occurring.

Scope

1.7 This method statement addresses the following;

- Tree removals and surgery works
- Tree protection specifications and requirements
- Supervision requirements
- Demolition procedures
- Construction methodologies
- Landscaping works

2 LIMITATIONS

2.1 Trees are dynamic, living organisms whose health and condition can change quickly. Any changes to a tree, or to trees and the land surrounding it, may affect the tree's condition and/or stability. If any such changes occur further examination would be required and may affect the validity of this report.

2.2 The survey is not intended to be a detailed tree hazard assessment. Where significant faults that pose an immediate risk to persons or property are observed recommendations will be made; however the lack of any management recommendations within the survey schedule does not infer that a detailed health and safety assessment has been made and it is recommended that a formal management and inspection plan is considered.

3 GENERAL TREE PROTECTION MEASURES

3.1 No fires will be permitted within 20m of the crown of any tree.

3.2 No alterations in soil levels other than those already agreed, will occur within the Construction Exclusion Zone (CEZ) without prior agreement from the appointed arboricultural consultant.

3.3 No materials, vehicles, plant or personnel will be permitted into the CEZ at any time without prior consent from the arboricultural consultant.

3.4 Any liquid materials spilled on site will be immediately cleared up and removed from the site. If liquid fuel or cement products are spilled within 2m of the tree protection zone, the contractor will report the incident to the arboricultural consultant immediately.

3.5 The contractor will report any damage to trees or shrubs, whether caused by construction activities or from any other cause, to the arboricultural consultant immediately.

4 TREE WORKS

4.1 A list of all approved and recommended tree removals and surgery works can be found below and in the Tree Work Schedule at Appendix 1; and are shown on the tree removal plan reference JBA 20/027 TR01-03 at Appendix 2.

4.2 All tree surgery works necessary for the development will be carried out prior to the commencement of site operations unless otherwise agreed.

4.3 Only tree works specified within this document or that have consent from the Local Planning Authority will be carried out. Any uncertainty regarding tree surgery or removal works will require confirmation from the appointed arboricultural consultant and local authority tree officer.

4.4 All tree works will be carried out in accordance with the recommendations made within the current BS3998 (2010).

Tree number	Species	Work recommendations
G1	Various including Lawson Cypress, Leyland Cypress, Sycamore, Rowan, Cherry Laurel, Ash	Remove.
T2	Chanticleer Pear	Remove.
T3	Chanticleer Pear	Remove.
T4	Chanticleer Pear	Remove.
T5	Chanticleer Pear	Remove.
T6	Chanticleer Pear	Remove.
T7	Chanticleer Pear	Remove.
T8	Chanticleer Pear	Remove.
T9	Chanticleer Pear	Remove.
T10	Chanticleer Pear	Remove.
T11	Chanticleer Pear	Remove.
T12	Chanticleer Pear	Remove.
T13	Chanticleer Pear	Remove.
T14	Silver Birch	Remove.
T15	Silver Birch	Remove.

T16	Rowan	Remove.
T17	Bird Cherry	Remove.
T18	Rowan	Remove.
T19	Silver Birch	Remove.
T20	Silver Birch	Remove.
T21	Whitebeam	Remove.
T22	Whitebeam	Remove.
T23	Whitebeam	Remove.
T24	Silver Birch	Remove.
T25	Silver Birch	Remove.
T26	Himalayan Birch	Remove.
T27	Rowan	Remove.
G28	Lawson Cypress, Sycamore, Italian Alder, Monterey Cypress	Remove.
G29	Silver Birch, Goat Willow	Remove.
G30	Common Yew	Remove.
T31	Silver Birch	Remove.
T32	Rowan	Remove.
T33	Whitebeam	Remove.
T34	Lawson Cypress	Remove.
G35	Lawson Cypress	Remove.
T36	Goat Willow	Remove.
T37	Rowan	Remove.
T38	Rowan	Remove.
T39	Lawson Cypress	Remove.
T40	Sawara Cypress	Remove.
G41	Lawson Cypress	Remove.
T42	Holly	Remove.

T43	Common Yew	Remove.
T45	Norway Spruce	Section fell to ground level and grind stump to a maximum depth of 250mm.
T46	Common Yew	Remove.
T47	Leyland Cypress	Remove.
T48	Horse Chestnut	Remove.
G49	Various including Yew, Cherry Laurel, Western Red Cedar, Sycamore, Scots Pine, Common Oak, Lawson Cypress, Red Oak	Eastern side of group: prune back understorey vegetation to clear driveway by a maximum 1m. Crown lift trees overhanging the driveway where necessary to achieve a height clearance from 4m from ground level.
T50	Western Red Cedar	Remove.
T51	Goat Willow	Remove.
T52	Silver Birch	Remove.
T53	Silver Birch	Remove.
T54	Silver Birch	Remove.
T55	Silver Birch	Remove.
T56	Silver Birch	Remove.
T57	Lawson Cypress	Section fell to ground level.
T64	Red Oak	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T65	Lawson Cypress	Section fell to ground level.
T83	Corkscrew Hazel	Remove.
T88	Horse Chestnut	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T89	Common Lime	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.

T91	Holly	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T92	Common Oak	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T94	Common Lime	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T95	Norway Maple	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
G97	Leyland Cypress	Section fell to ground level trees north and east of Conservatory House.
T98	Silver Birch	Crown lift to achieve a height clearance of 2.5m over parking spaces and 2m over buildings.
T99	Silver Birch	Crown lift to achieve a height clearance of 2.5m over parking spaces and 2m over buildings.
G100	Common Yew	Remove.
G102	Common Yew	Remove the westernmost 5m length of the group.
T104	Sycamore	Remove.
T105	Sycamore	Remove.
G106	Common Yew	Remove.
G107	Common Yew	Remove.
G110	Cherry Laurel	Remove.
T118	Common Pear	Section fell to ground level.
T123	Sycamore	Remove.
T124	Common Oak	Remove.
T125	Apple	Remove.
T127	Common Yew	Section fell to ground level.

T128	Common Yew	Section fell to ground level.
G130	Common Oak, Crimean Lime, Beech, Holly, Cherry Laurel, Lawson Cypress, Red Oak, Scots Pine	Section fell to ground level.
T134	Weymouth Pine	Section fell to ground level and grind stump to a maximum depth of 250mm.
T141	Holly	Section fell to ground level and grind stump to a maximum depth of 250mm.
T150	Crimean Lime	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
G169	Sycamore, London Plane, Beech, Scots Pine	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T174	Common Oak	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T175	Beech	Section fell to ground level.
T176	Norway Maple	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T177	Cherry	Remove.
T178	Laburnum	Remove.
T179	Apple	Remove.
T183	Common Lime	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T184	Sycamore	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T185	Common Alder	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.

T186	Ash-leaved Maple	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.
T187	Ash-leaved Maple	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.

Wildlife and habitat legislation

4.5 All tree work will be carried out in accordance with the Wildlife and Countryside Act 1981 (as amended) and the Habitat Regulations 2010.

4.6 These regulations make it an offence to;

- intentionally or deliberately kill, injure or capture protected species;
- deliberately disturb protected species;
- damage, destroy or obstruct access to a structure used for shelter or protection by a protected species;
- take, damage, disturb or destroy the nest of any wild bird while it is in use or being built;
- take or destroy the egg of any wild bird; or
- damage, destroy or obstruct access to bat roosts whether or not bats are using roosts at the time.

4.7 Prior to the commencement of works the tree surgery contractor has a legal duty to ensure no protected species or habitats are present. If any species or habitats are discovered then works will cease and a suitably qualified ecologist will be employed to carry out more detailed surveys and to provide advice.

5 TREE PROTECTION

Protective fencing specification

5.1 Protective fencing will be installed prior to any enabling works, demolition or construction activity commences.

5.2 The position of protective fencing is shown on drawings JBA 20/027 TP01-03 at Appendix 2.

5.3 Protective fencing will be constructed of weld mesh panels securely fixed to a static framework fit for the purpose of excluding construction traffic.

5.4 Alternative specifications to those shown must be agreed prior to installation by the local authority and arboricultural consultant.

5.5 All weather signage will be securely fixed to panels at regular intervals stating the purpose of the fencing and contact details of the arboricultural consultant. A suggested sign can be found at Appendix 3 and may be copied for use on site.

5.6 Upon completion of tree protection, the site manager will invite the arboricultural consultant to inspect and sign off the specification and position of all tree protection.

5.7 Once installed, protective fencing will remain in position for the duration of the project or until it requires removal to a specified alternative position to allow for works.

Temporary ground protection specification

5.8 The temporary ground protection beneath scaffolding and within the RPAs of one lime (T82), two silver birches (T98 and T99), one Lombardy poplar (T126) and one Scots pine (T129) will be suitable for pedestrian traffic and will compromise of the following:

For protection beneath scaffolding, a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (minimum 100m depth of woodchip), laid onto a geotextile membrane.

6 SUPERVISION REQUIREMENTS

6.1 The arboricultural consultant will be available for ongoing advice and design input to ensure works close to trees is avoided or correctly specified.

6.2 Any works that could impact upon retained trees will be supervised and monitored by the arboricultural consultant. It is suggested that as a minimum supervision visits will occur as follows;

- Pre-commencement site meeting with project manager to discuss tree protection, tree works and programme.
- Meeting with tree contractor to specify and agree on works
- Inspection of protective fencing prior to the demolition and construction phases
- Excavation works within root protection areas including breaking out of tarmac surfaces, no dig construction of driveways and parking spaces, reinstatement of kitchen garden wall, paths reinstatement/construction and landscaping

7 DEMOLITION

7.1 The removal of hard surfaces within the RPAs of one Norway spruce (T44), two silver birches (T98 and T99) and a Lombardy poplar (T126) will be carried out under arboricultural supervision as highlighted on drawing JBA 20/027 TP01 at Appendix 1.

7.2 A single section of fence will be unbolted and removed.

7.3 Manual demolition of the tarmac areas will be carried out using suitable hand held tools, and will be broken into smaller sections, and carefully lifted to avoid tearing any significant roots.

7.4 No machinery will enter the fenced area without prior discussion and agreement of the appointed arboricultural consultant.

7.5 All debris will be transported out of the fenced area using wheelbarrows, or placed into a waiting vehicle parked outside the tree protection fence.

7.6 Demolition of paths and hard landscaping will remove the debris to sub-base level only; no excavation into virgin ground will take place.

7.7 Upon completion the area will be clear of all debris and the panel of fencing replaced until all demolition in the site is complete.

Soil decompaction within RPAs

7.8 This section applies to compacted soil beneath hard surfaces within the RPAs of one Norway spruce (T44), two silver birches (T98 and T99) and a Lombardy poplar (T126). The soil surface will be decompacted to help aerate the soil prior to the no dig construction methods stated below in sections 8.16-8.24.

7.9 The soil within the RPAs will be broken up using a compressed air lance e.g., Air Spade to a depth of 150mm.

7.10 Further information can be obtained from Ruskins www.ruskins.co.uk or GoRoots www.goroots.co.uk

8 CONSTRUCTION

Manual excavation within RPAs

8.1 This section applies to the driveway and path construction as well as any additional works that may require excavation within RPAs at any time during construction e.g. service trenches, wall construction.

8.2 All works within Root Protection Areas (RPAs) will be carried out under the direct supervision of the appointed arboricultural consultant (JBA).

8.3 No site personnel will enter these areas until a representative from JBA is present.

8.4 A section of protective fencing will be temporarily removed to provide access to the required area.

8.5 Where necessary, the appointed arboricultural consultant will specify the location of temporary ground protection and the level of protection required.

8.6 Excavations will be carried out manually using appropriate hand tools OR using an air lance to expose tree roots.

8.7 No machinery will be permitted into the working area unless agreed by the arboricultural consultant.

8.8 All excavated spoil will be manually removed from the area or placed on temporary ground protection to be used for back filling upon completion.

8.9 All roots in excess of 25mm in diameter and all clumps of fibrous roots greater than 25mm in diameter will be retained and wrapped in dry hessian during the works to prevent desiccation.

8.10 Roots less than 25mm may be pruned by the arboricultural consultant where deemed essential to complete works.

8.11 Root pruning will only be carried out by the arboricultural consultant, using sharp, sterile tools suitable to the size of the root to be cut. Where possible roots will be pruned cleanly back to a side branch.

8.12 Prior to backfilling any hessian wrapping will be removed from retained roots.

8.13 The roots will then be surrounded with topsoil, sharp sand (builders' sand will not be used due to its high salt content) or other loose inert granular fill, before soil or other medium is replaced. This material should be uncontaminated and free from injurious objects.

8.14 Temporary ground protection will be removed in a backwards direction away from the tree so as always to be positioned on protection and not on unprotected ground.

8.15 Once the work area is cleared of ground protection the recently backfilled spoil will be watered and the removed section of protective fencing reinstalled.

No dig construction of access roads, driveways, and parking spaces

8.16 Specialised construction will be required for the following:

- The parking spaces and driveway for Conservatory House within the precautionary root protection areas of T98 and T99, two early mature silver birches.
- The parking spaces and driveway for Garden House within the precautionary root protection area of T126, a mature Lombardy poplar.
- The refuse and cycle storage facilities within the precautionary root protection area of T44, a mature Norway spruce.
- Main driveway construction extending from the site entrance adjacent T190, as semi mature copper beech to adjacent to T135, a mature sweet chestnut.

Specified product

Cellweb Tree Root Protection System www.geosyn.co.uk

8.17 The aforementioned driveways will be constructed using a no dig cellular confinement system such as that shown in Appendix 5.

8.18 Prior to installation all existing vegetation within the areas of the new driveways will be sprayed using a suitable herbicide in accordance with the manufacturers' recommendations.

8.19 The area will then be left for the specified period to allow the vegetation to die off completely. Once the vegetation has completely died off the area will be raked to remove any loose debris and to achieve a clear level base.

8.20 If time constraints prevent using herbicide, the turf layer within the areas of the new driveways will be scraped using the front blade of the mini digger.

8.21 The mini digger will work backwards and travel over temporary ground protection capable of supporting the digger. The mini digger must not be used or parked on open ground within RPAs.

8.22 Fill any hollows in the exposed ground with sharp sand or 4/20mm or 40/20mm clean angular stone.

8.23 A geotextile membrane will then be laid over the area and the cellular system placed onto this as prescribed below.

- Lay a geotextile membrane (Treetex T-300, Permatex 300 or similar approved) over the ground, between pegged timber edging if used, and overlapping membrane joints by a minimum 300mm. Keep the membrane in place temporarily using stakes or weights.
- Place the collapsed panel on the geotextile and insert staking pins provided through three cells across the width of the panel end at the start of the driveway.
- Expand the panel to its full length to ensure the cells have been expanded to their full dimension and pin across the opposite panel end using staking pins provided.
- Pin along the length of the panel with two pins on each side using staking pins provided.
- Staple any adjacent panels together using the provided stapler and staples.
- If full panels are not being used, then ensure the cells have been expanded to their full dimension.
- Cut panels with a heavy-duty Stanley knife to shape, or remove excess sections, if required.
- Use a mini digger under the supervision of a qualified and competent arboriculturist. The mini digger can travel over infilled panels, but it must not be used or parked on open ground within RPAs.
- Infill each cell with 4-20mm or 40-20mm clean angular stone to BS EN 13242 and 12620 (depending on cell depth being used).
- Allow for any settlement of the stone in the cells and top up if necessary.
- Add extra stone up to 50mm depth over the panels if the area is to be trafficked immediately.

8.24 When the area is complete the agreed finishing surface can be applied.

9 LANDSCAPING

9.1 Prior to works commencing the appointed arboriculturist will meet with the landscape contractor to discuss and agree the appropriate methodology to be used.

9.2 The Landscape contractor will provide a detailed method statement for the arboriculturist's approval before works start. This method statement will detail the following;

- Tree Protection
- Cultivation within RPAs
- Planting methodology
- Soil levels
- Machinery and tools
- Delivery of materials
- Ground protection requirements
- Hard landscape implementation

Principles of landscaping beneath trees

9.3 Landscaping beneath retained trees will be carried out by hand wherever possible, and will not involve the use of heavy machinery.

9.4 Soil levels will not be altered without prior approval from the appointed arboriculturist or planning authority.

9.5 Cultivation of areas beneath trees will be carried out manually only preparing the top 100mm of soil.

9.6 Where larger planting pits and greater depths are required these will be individually excavated retaining all roots greater than 25mm in diameter. Any retained roots will be wrapped in dry hessian until the pit is back filled.

APPENDIX 1: TREE WORKS SCHEDULE

Tree Works Schedule

Site name: Harefield Grove, Rickmansworth Road, Harefield
Client: Comer Homes
Job Number: 20/027

Survey Date: 9 and 10 July 2020
Surveyor: Simon Smith

Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
G1	Chamaecyparis lawsoniana (Lawson Cypress),x Cupressocyparis leylandii (Leyland Cypress),Acer pseudoplatanus (Sycamore),Sorbus aucuparia (Rowan),Prunus laurocerasus (Cherry Laurel),Fraxinus excelsior (Common Ash)	SM	173	5(0.5)		1.5	1	0.5	1	Good	Unable to fully inspect - vegetation. Stem diameter estimated. Mixed group of ornamental conifers, shrubs and self-set trees.	Remove.	10+	C2	2.1	14
T2	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	200	8(2)	2	3	2	2	2	Poor	Unable to fully inspect - vegetation. Stem diameter estimated. Low vigour. Sparse crown.	Remove.	10+	C1	2.4	18
T3	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	140	6(1.5)	2	1.5	1.5	1.5	1.5	Poor	Sparse crown.	Remove.	10+	C2	1.7	9
T4	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	100	3.5(1.5)	1.5SW	1.5	1	1.5	1.5	Poor	Scattered dieback in crown.	Remove.	10+	C2	1.2	5
T5	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	110	4(1.5)	1.5N	1.5	1	1.5	1.5	Fair	Basal and stem epicormic growth.	Remove.	10+	C2	1.3	5
T6	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	120	4.5(1.5)	1.5NW	2.5	1.5	2	1.5	Fair	Basal and stem epicormic growth.	Remove.	10+	C2	1.4	7
T7	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	110	4.5(1.5)	1.5NW	2	1.5	1.5	2	Fair	Basal and stem epicormic growth.	Remove.	10+	C2	1.3	5

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Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T8	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	120	4.5(2)	2	2	2	2.5	2	Poor	Scattered dieback in crown. Basal and stem epicormic growth.	Remove.	10+	C2	1.4	7
T9	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	100	3.5(1.5)	1.5N	1.5	2	1.5	1.5	Poor	Scattered dieback in crown. Basal and stem epicormic growth.	Remove.	10+	C2	1.2	5
T10	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	100	4(1.5)	1.5N	1	2	1.5	1	Poor	Scattered dieback in crown. Basal and stem epicormic growth.	Remove.	10+	C2	1.2	5
T11	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	100	4.5(1.5)	1.5	1	2	1	2	Poor	Scattered dieback in crown. Basal and stem epicormic growth.	Remove.	10+	C2	1.2	5
T12	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	150	6(1.5)	2	2.5	2.5	2.5	1	Poor	Low vigour. Basal and stem epicormic growth.	Remove.	10+	C2	1.8	10
T13	Pyrus calleryana "Chanticleer" (Chanticleer Pear)	SM	200	7(2.5)	2	1.5	1.5	2	2	Fair	Unable to fully inspect - ivy and vegetation. Stem diameter estimated. Low vigour.	Remove.	10+	C2	2.4	18
T14	Betula pendula (Silver Birch)	EM	340	11(1.5)	2E	4	5	3	4	Good	Unable to fully inspect - ivy.	Remove.	20+	B1	4.1	52
T15	Betula pendula (Silver Birch)	SM	220	9(1)	3NE	4	4	5	4	Fair	Upper crown dieback.	Remove.	10+	C1	2.6	22
T16	Sorbus aucuparia (Rowan)	SM	100	4(2)	2	1.5	2	2	1	Fair	Swedish whitebeam basal sucker growth, forming secondary stems.	Remove.	10+	C1	1.2	5

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Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T17	Prunus padus (Bird Cherry)	EM	390	8(2)	1.5W	4.5	4.5	5.5	5.5	Fair	Unable to fully inspect - ivy. Broken branches in crown.	Remove.	10+	C1	4.7	69
T18	Sorbus aucuparia (Rowan)	SM	100	6(3)		1.5	1.5	1.5	1.5	Good	Not identified on topographical survey. Unable to fully inspect - vegetation. Stem diameter estimated.	Remove.	10+	C1	1.2	5
T19	Betula pendula (Silver Birch)	SM	200	9(2.5)	2.5N	3.5	3	2.5	3	Fair	Not identified on topographical survey. Unable to fully inspect - ivy and vegetation. Stem diameter estimated. Upper crown dieback.	Remove.	10+	C1	2.4	18
T20	Betula pendula (Silver Birch)	EM	320	11(2)	3NE	4	4	4	4	Poor	Unable to fully inspect - ivy and vegetation. Low vigour. Minor dead wood.	Remove.	10+	C1	3.8	46
T21	Sorbus aria (Whitebeam)	SM	180	5.5(2.5)	2.5	2.5	2.5	2.5	2.5	Fair	Unable to fully inspect - ivy. Established basal sucker growth, forming secondary stems.	Remove.	10+	C1	2.2	15
T22	Sorbus aria (Whitebeam)	SM	190	5(2.5)	2	2.5	2.5	2.5	2.5	Fair	Unable to fully inspect - ivy. Established basal sucker growth, forming secondary stems.	Remove.	10+	C1	2.3	16
T23	Sorbus aria (Whitebeam)	SM	100	4(2.5)	2.5	1.5	1	1.5	1.5	Fair	Low vigour.	Remove.	10+	C1	1.2	5
T24	Betula pendula (Silver Birch)	EM	250	12(1)	2E	3	3	3.5	5	Good	Unable to fully inspect - ivy. Branch tearout.	Remove.	20+	B2	3.0	28
T25	Betula pendula (Silver Birch)	EM	250	12(2)		2	2	2	2.5	Fair	Not identified on topographical survey. Unable to fully inspect - ivy and vegetation. Stem diameter estimated. Sparse crown.	Remove.	10+	C1	3.0	28

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Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T26	Betula utilis (Himalayan Birch)	EM	300	8(1.5)	1.5NE	4.5	5	5	5	Good		Remove.	20+	B1	3.6	41
T27	Sorbus aucuparia (Rowan)	D	150	6(3.5)		2	3	3	4	Dead	Unable to fully inspect - vegetation. Stem diameter estimated. Fireblight.	Remove.	<10	U	1.8	10
G28	Chamaecyparis lawsoniana (Lawson Cypress),Acer pseudoplatanus (Sycamore),Alnus cordata (Italian Alder),Cupressus macrocarpa (Monterey Cypress)	SM	100	6(1)		1	1	1	1	Good	Group of evergreen shrubs with self-set trees.	Remove.	10+	C2	1.2	5
G29	Betula pendula (Silver Birch),Salix caprea (Goat Willow)	EM	229	13(2)		2	3	3	3	Good	Unable to fully inspect - ivy and vegetation. Stem diameter estimated. Largest stem diameter recorded.	Remove.	20+	B2	2.7	24
G30	Taxus baccata (Common Yew)	SM	150	7(1)		1.5	1.5	1.5	1.5	Fair	Unable to fully inspect - ivy and vegetation. Stem diameter estimated. Scattered dieback in crown.	Remove.	10+	C2	1.8	10
T31	Betula pendula (Silver Birch)	SM	230	11(2)	3.5N	3	3.5	3	5	Fair	Stem leans to south-west. Sparse crown. Branch growing over top of lamp column.	Remove.	10+	C1	2.8	24
T32	Sorbus aucuparia (Rowan)	D	150	6(3)		2.5	2	2.5	1.5	Dead	Unable to fully inspect - vegetation. Stem diameter estimated.	Remove.	<10	U	1.8	10
T33	Sorbus aria (Whitebeam)	SM	150	6(2)	2	4	3.5	3.5	3	Good	Unable to fully inspect - ivy and vegetation. Stem diameter estimated.	Remove.	10+	C1	1.8	10

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						N	E	S	W							
T34	Chamaecyparis lawsoniana (Lawson Cypress)	EM	450	13(0.5)		2	2.5	2	1.5	Good		Remove.	20+	B1	5.4	92
G35	Chamaecyparis lawsoniana (Lawson Cypress)	SM	150	12(0.5)	2	2	1	2	2	Good		Remove.	10+	C2	5.4	92
T36	Salix caprea (Goat Willow)	M	660	8(1.5)	2S	4	8	7	8.5	Good	Minor dead wood. Branch pruning wounds.	Remove.	10+	C1	7.9	197
T37	Sorbus aucuparia (Rowan)	SM	160	7(1.5)	1.5NW	2.5	2.5	2.5	2.5	Good		Remove.	10+	C1	1.9	12
T38	Sorbus aucuparia (Rowan)	EM	250	8(2)	2.5	2	2.5	3.5	2.5	Fair	Minor dead wood. Stem pruning wounds. Stem wounds. Branch tearout. Fireblight.	Remove.	10+	C1	3.0	28
T39	Chamaecyparis lawsoniana (Lawson Cypress)	SM	300	12(0)		2	3	3.5	3.5	Good	Unable to fully inspect - vegetation. Stem diameter estimated. Close to building.	Remove.	10+	C1	3.6	41
T40	Chamaecyparis pisifera (Sawara Cypress)	SM	191	6(0.5)		1	2	2	1	Good	Stem diameter estimated. Multi-stemmed from base.	Remove.	10+	C1	2.3	16
G41	Chamaecyparis lawsoniana (Lawson Cypress)	EM	424	13(0.5)		2.5	2	2.5	2	Good	Unable to fully inspect - vegetation. Stem diameter estimated. Largest stem diameter recorded.	Remove.	20+	B2	5.1	81
T42	Ilex aquifolium (Common Holly)	SM	210	8(1)	3	2.5	2.5	2.5	2.5	Poor	Upper crown dieback.	Remove.	<10	U	2.5	20

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						N	E	S	W							
T43	Taxus baccata (Common Yew)	SM	350	7(1)	0.5	3.5	3.5	3.5	3.5	Fair	Unable to fully inspect - vegetation. Stem diameter estimated. Stem pruning wounds. Sparse crown. Fruiting bodies on stem. Laetiporus sulphureus (Chicken of the Woods).	Remove.	10+	C1	4.2	55
T45	Picea abies (Norway Spruce)	EM	480	21(3)	7	3	3.5	3.5	2	Fair	Sparse crown.	Section fell to ground level and grind stump to a maximum depth of 250mm.	10+	C1	5.8	104
T46	Taxus baccata (Common Yew)	SM	200	4(0.5)		3.5	3.5	3.5	3.5	Poor	Unable to fully inspect - vegetation. Stem diameter estimated. Multi-stemmed from base. Upper crown dieback.	Remove.	10+	C1	2.4	18
T47	x Cupressocyparis leylandii (Leyland Cypress)	EM	450	13(1)	0.5	5	5	5	5	Good	Unable to fully inspect - vegetation. Stem diameter estimated.	Remove.	20+	B1	5.4	92
T48	Aesculus hippocastanum (Horse Chestnut)	M	740	17(8)	11	4.5	2.5	4	7	Fair	Historic crown lift. Codominant leaders. Tag 0405.	Remove.	10+	C1	8.9	248
G49	Taxus baccata (Common Yew),Prunus laurocerasus (Cherry Laurel),Thuja plicata (Western Red Cedar),Acer pseudoplatanus (Sycamore),Pinus sylvestris (Scots Pine),Quercus robur (Common Oak),Chamaecyparis lawsoniana (Lawson Cypress),Quercus rubra (Red Oak)	EM	450	17(0.5)		3	4	3	3	Good	Stem diameter estimated. Largest stem diameter recorded. Occasional tree with upper crown dieback.	Eastern side of group: prune back understorey vegetation to clear driveway by a maximum 1m. Crown lift trees overhanging the driveway where necessary to achieve a height clearance from 4m from ground level.	20+	B2	5.4	92

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						N	E	S	W							
T50	Thuja plicata (Western Red Cedar)	EM	780	17(0.5)	4	4.5	4.5	4.5	5	Good		Remove.	20+	B1	9.4	275
T51	Salix caprea (Goat Willow)	EM	512	8(0)		7	6.5	4	7	Good		Remove.	20+	B1	6.1	118
T52	Betula pendula (Silver Birch)	EM	270	15(2)	3SW	3.5	3.5	1	4	Good	Historic crown lift.	Remove.	20+	B2	3.2	33
T53	Betula pendula (Silver Birch)	EM	230	11(2)	3NW	3.5	2	2.5	3	Good	Unable to fully inspect - ivy.	Remove.	20+	B2	2.8	24
T54	Betula pendula (Silver Birch)	EM	270	13(5)	5S	4	4.5	2	3.5	Good	Historic crown lift.	Remove.	20+	B2	3.2	33
T55	Betula pendula (Silver Birch)	EM	310	15(10)	6W	3.5	3.5	2	3	Good	Historic crown lift.	Remove.	20+	B2	3.7	43
T56	Betula pendula (Silver Birch)	EM	320	15(8)	7SW	3	3.5	5	5	Good	Historic crown lift.	Remove.	20+	B2	3.8	46
T57	Chamaecyparis lawsoniana (Lawson Cypress)	EM	1077	11(0)	0.5	6	4	1.5	4	Good	Branch tearout.	Section fell to ground level.	20+	B2	12.9	524
T64	Quercus rubra (Red Oak)	EM	620	12(0.5)	3E	9	7	10.5	8	Good	Minor dead wood.	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	20+	B1	7.4	174

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						N	E	S	W							
T65	Chamaecyparis lawsoniana (Lawson Cypress)	M	920	20(0)	2W	0	1	6	5	Poor	Main leaders dead, all live growth from low layering branches.	Section fell to ground level.	<10	U	11.0	383
T83	Corylus avellana "Contorta" (Corkscrew Hazel)	SM	173	6(0.5)		3.5	3	3.5	3	Good		Remove.	10+	C1	2.1	14
T88	Aesculus hippocastanum (Horse Chestnut)	SM	280	8(1)	2	6	5	5	5.5	Fair	Basal wounds. Stem pruning wounds. Horse Chestnut Leaf Miner.	Crown lift where necessary to achive a height clearance of 2.5m over proposed path route.	10+	C1	3.4	35
T89	Tilia x europaea (Common Lime)	EM	700	24(0.5)	4SW	5.5	6	5	5	Good	Branch pruning wounds. Bird box on stem.	Crown lift where necessary to achive a height clearance of 2.5m over proposed path route.	20+	B1,B2	8.4	222
T91	Ilex aquifolium (Common Holly)	EM	350	15(0.5)	3	4	4	5	3	Good	Stem pruning wounds. Historic crown lift.	Crown lift where necessary to achive a height clearance of 2.5m over proposed path route.	20+	B2	4.2	55
T92	Quercus robur (Common Oak)	M	1090	20(1.5)	5	6	4.5	9	9	Fair	Basal wounds. Stem pruning wounds. Stem cavity. Burring around base and on stem. Historic removal of large laterals at 5m.	Crown lift where necessary to achive a height clearance of 2.5m over proposed path route.	20+	B2	13.1	538
T94	Tilia x europaea (Common Lime)	M	850	23(1)	5SW	6	3	5	6	Good	Stem pruning wounds. Branch pruning wounds.	Crown lift where necessary to achive a height clearance of 2.5m over proposed path route.	20+	B2	10.2	327

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						N	E	S	W							
T95	Acer platanoides (Norway Maple)	EM	440	12(1.5)	3NW	8	9	5	8	Fair	Minor dead wood. Root girdling. Stem pruning wounds. Branch stubs.	Crown lift where necessary to achive a height clearance of 2.5m over proposed path route.	10+	C1	5.3	88
G97	x Cupressocyparis leylandii (Leyland Cypress)	SM	300	13(2.5)		3	3	4	3	Good	Stem diameter estimated. Largest stem diameter recorded. Planted as screen. Historic pruning of lower canopy.	Section fell to ground level trees north and east of Conservatory House.	10+	C2	3.6	41
T98	Betula pendula (Silver Birch)	EM	410	17(1)	4SW	5	6	4	8	Good	Unable to fully inspect - ivy and vegetation.	Crown lift to achieve a height clearance of 2.5m over parking spaces and 2m over buildings.	20+	B2	4.9	76
T99	Betula pendula (Silver Birch)	EM	510	17(2)	4	7	5	4	6	Good	Unable to fully inspect - ivy.	Crown lift to achieve a height clearance of 2.5m over parking spaces and 2m over buildings.	20+	B2	6.1	118
G100	Taxus baccata (Common Yew)	EM	415	8(1)		6.5	3	6.5	2	Good	Stem diameter estimated. Largest stem diameter recorded. Historic crown lift.	Remove.	20+	B2	5.0	78
G102	Taxus baccata (Common Yew)	SM	200	6(1)		5	2	3	2	Good		Remove the westernmost 5m length of the group.	10+	C2	2.4	18
T104	Acer pseudoplatanus (Sycamore)	EM	520	12(1.5)	4S	0	3	12.5	8.5	Fair	Poor shape & form. Stem leans to south-west.	Remove.	10+	C1	6.2	122
T105	Acer pseudoplatanus (Sycamore)	SM	300	10(1)	5S	3	4	7	4	Good	Unable to fully inspect - ivy. Stem diameter estimated. Self-set.	Remove.	10+	C1	3.6	41

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						N	E	S	W							
G106	Taxus baccata (Common Yew)	SM	200	5(1)		4	2	4	2	Good	Stem diameter estimated.	Remove.	10+	C2	2.4	18
G107	Taxus baccata (Common Yew)	SM	173	5(1)		3	1.5	2	2	Good		Remove.	10+	C2	2.1	14
G110	Prunus laurocerasus (Cherry Laurel)	SM	200	6(0)		2	2	2	2	Good	Stem diameter estimated.	Remove.	10+	C2	2.4	18
T118	Pyrus communis (Common Pear)	EM	210	8(4.5)	2	3	2	2.5	1	Fair		Section fell to ground level.	10+	C1	2.5	20
T123	Acer pseudoplatanus (Sycamore)	SM	350	10(2)	3.5N	7	5	3	4	Good	Unable to fully inspect - vegetation. Stem diameter estimated. Self-set.	Remove.	10+	C1	4.2	55
T124	Quercus robur (Common Oak)	SM	320	8(2)	1.5SW	3	5	6	7	Fair	Poor shape & form.	Remove.	10+	C1	3.8	46
T125	Malus domestica (Orchard Apple)	SM	308	6(1.5)	0.5	6	4	0	3	Poor	In terminal decline. Scattered dieback in crown.	Remove.	<10	U	3.7	43
T127	Taxus baccata (Common Yew)	EM	480	13(2)	0.5E	5	6.5	2	5	Fair	Minor dead wood. Sparse crown.	Section fell to ground level.	10+	C1	5.8	104
T128	Taxus baccata (Common Yew)	EM	573	13(2)	2.5E	4	5	3	6	Fair	Minor dead wood. Scattered browning foliage.	Section fell to ground level.	10+	C1	6.9	149

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						N	E	S	W							
G130	Quercus robur (Common Oak),Tilia x euchlora (Crimean Lime),Fagus sylvatica (Common Beech),Ilex aquifolium (Common Holly),Prunus laurocerasus (Cherry Laurel),Chamaecyparis lawsoniana (Lawson Cypress),Quercus rubra (Red Oak),Pinus sylvestris (Scots Pine)	EM	400	15(1)		4	4	6	8	Good	Stem diameter estimated.	Remove cherry laurel within building footprint of Garden House. Section fell the three northernmost trees in the group. Grind stumps to a maximum depth of 250mm. Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	20+	B2	4.8	72

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						N	E	S	W							
T134	Pinus strobus (Weymouth Pine)	M	800	25(3)	6NE	6	6	6	6	Poor	In terminal decline. Sparse crown.	Section fell to ground level.	<10	U	9.6	290
T141	Ilex aquifolium (Common Holly)	EM	549	7(3.5)	3SW	5	4.5	6.5	5	Fair	Poor pruning wounds. Multi-stemmed from base. Historic crown lift.	Section fell to ground level and grind stump to a maximum depth of 250mm.	10+	C1	6.6	136
T150	Tilia x euchlora (Crimean Lime)	SM	300	11(3)	3NE	5	5	5	5	Good		Section fell to ground level and grind stump to a maximum depth of 250mm.	20+	B2	3.6	41
G169	Acer pseudoplatanus (Sycamore),Platanus x hispanica (London Plane),Fagus sylvatica (Common Beech),Pinus sylvestris (Scots Pine)	EM	300	15(1)	1	3	2	3	3	Good		Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	20+	B2	3.6	41
T174	Quercus robur (Common Oak)	EM	780	14(0.5)	5SE	6	7	9	8	Good		Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	20+	B2	9.4	275
T175	Fagus sylvatica (Common Beech)	EM	710	17(2)	7	6	7	10	7	Good		Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	20+	B2	8.5	228

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						N	E	S	W							
T176	Acer platanoides (Norway Maple)	SM	280	7(1)	1N	3	6	7	5	Fair	Squirrel damage in crown. Suppressed form.	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	10+	C1	3.4	35
T177	Prunus sp. (Japanese Cherry)	M	520	6(1)	1.5	5.5	6	6	6	Fair	Root girdling. Mower damage to surface roots. Fruiting bodies on stem. Ganoderma australe (Southern Bracket).	Remove.	<10	U	6.2	122
T178	Laburnum anagyroides (Common Laburnum)	EM	348	7.5(1)	1.5	4	6.5	5	6.5	Fair	Multi-stemmed from base. Stem wounds. Stem cavity.	Remove.	10+	C1	4.2	55
T179	Malus sp. (Apple)	EM	210	2.5(0.5)	1.5	2	3.5	3	1.5	Fair	Minor dead wood. Stem wounds. Suppressed. Weeping form.	Remove.	10+	C1	2.5	20

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Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (FSB)	Crown Spread				Condition	Comments	Tree Management Recommendations	Est Remaining Contribution (Years)	BS Cat	RPA Radius (m)	RPA area (m2)
						N	E	S	W							
T183	Tilia x europaea (Common Lime)	SM	260	8(1)	3	4.5	4.5	4.5	4.5	Good		Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	20+	B1	3.1	31
T184	Acer pseudoplatanus (Sycamore)	SM	377	8(1)	3	3	4	4	4	Good	Stem diameter estimated. Self-set. Multi-stemmed from base.	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	10+	C1	4.5	64
T185	Alnus glutinosa (Common Alder)	SM	300	10(2)	2.5	4	4	4	5	Good	Unable to fully inspect - vegetation. Stem diameter estimated.	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	20+	B1	3.6	41
T186	Acer negundo (Ash-leaved Maple)	SM	320	10(2)	2W	5	2	4	7.5	Fair		Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	10+	C1	3.8	46
T187	Acer negundo (Ash-leaved Maple)	SM	292	8(1)	2	7	5	3	8	Fair	Multi-stemmed from base. Historic crown lift.	Crown lift where necessary to achieve a height clearance of 2.5m over proposed path route.	10+	C1	3.5	38

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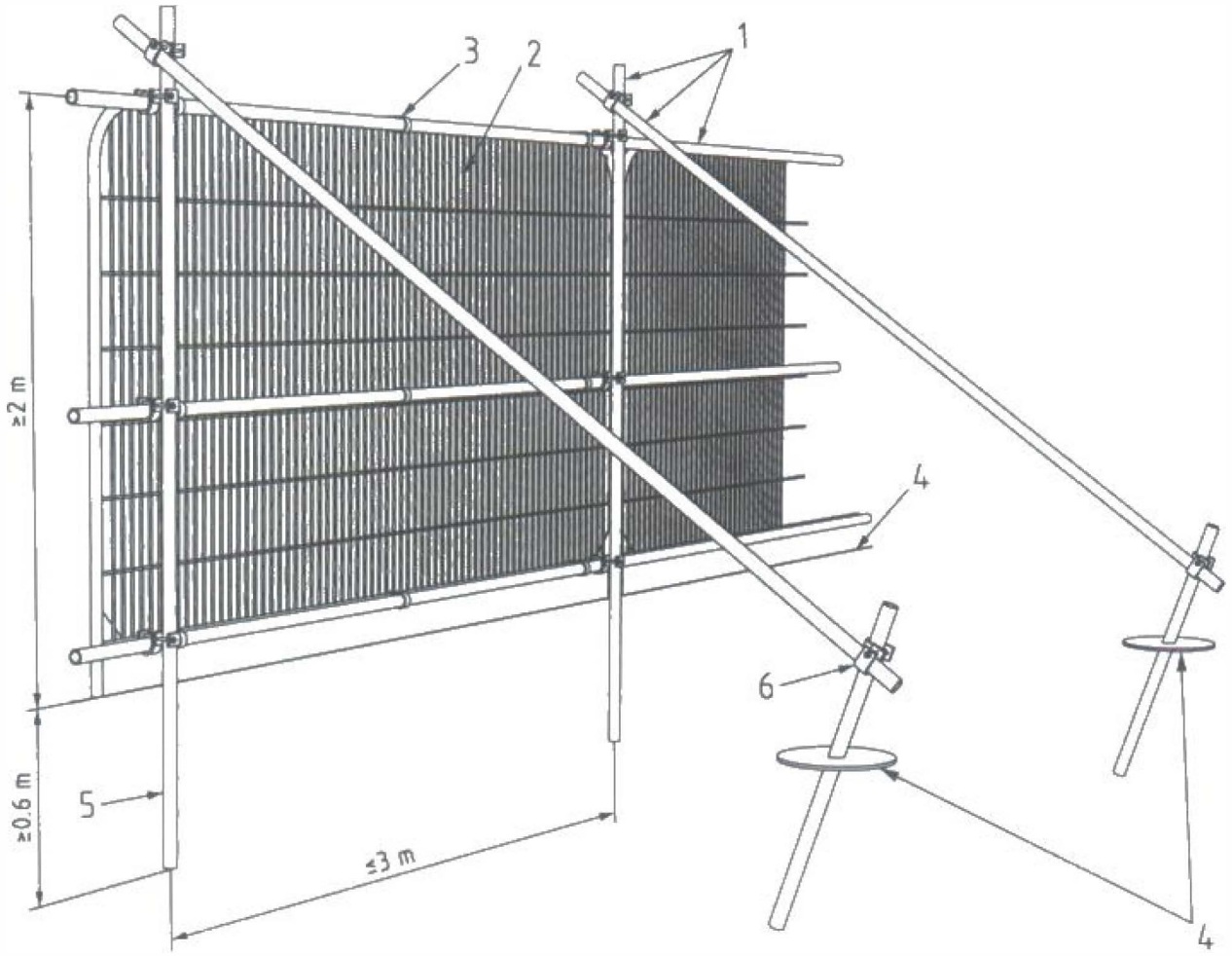
APPENDIX 2: JBA DRAWINGS

APPENDIX 3: PROTECTIVE FENCING SPECIFICATION

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

APPENDIX 4: PROTECTIVE FENCING SIGNAGE

TREE PROTECTION AREA
KEEP OUT!

NO WORKS TO BE CARRIED OUT IN THIS AREA WITHOUT PRIOR AGREEMENT OF THE LOCAL AUTHORITY OR APPOINTED ARBORICULTURAL CONSULTANT

JAMES BLAKE ASSOCIATES

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