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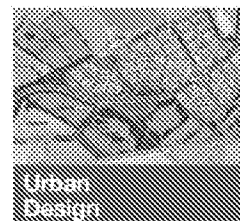
Arboriculture
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Urban
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JAMES BLAKE ASSOCIATES

Arboricultural Method Statement

Land at Water Lane, Angmering

On behalf of

BDW Southern Counties

12 February 2021

JBA 19/283 AR02 Rev C

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Project	Land at Water Lane, Angmering
Report	Arboricultural Method Statement
Date	12 February 2021
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1 SUMMARY

- 1.1 This Arboricultural Method Statement (AMS) has been commissioned by BDW Southern Counties to ensure retained trees and vegetation are adequately protected during the enabling 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 enough 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
 - 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.
- 2.3 The contents of this report are copyright of James Blake Associates and may not be copied without the author's permission. James Blake Associates' Terms and Conditions apply to this report and all associated works in conjunction with this project.

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 removals are shown on the tree removal plans reference JBA 19/283 TR01-TR03 Rev C 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	Reason(s) for works
T1	Lime	Crown lift all around to achieve a height clearance of 2m from ground level. Remove any basal suckers.	To facilitate fence installation
T2	Lime		
T3	Lime		
T4	Lime		
T5	Lime		
G14	Hawthorn	Reduce overhanging branches at the western end of the group by a maximum length of 1m.	To accommodate scaffolding.
H19	Hawthorn, Blackthorn, Elder	Face back branches on the western side of the hedge by a maximum length of 1.5m.	To accommodate scaffolding.
G23	English Elm, Hawthorn, Elder	Fell the southernmost tree to ground level. Grind stump to a maximum depth of 250mm. Crown lift the remaining canopy on the southern side to achieve a height clearance of 2.5m from ground level.	To accommodate road layout.
G24	Sycamore	Remove	To accommodate road layout.
G25	Leyland Cypress	Remove the northernmost tree.	To accommodate road layout.

T26	Elder	Remove	To accommodate road layout.
T27	Oak	Remove	To accommodate road layout.
T28	Oak	Remove	To accommodate road layout.
T29	Oak	Remove	To accommodate road layout.
T30	Oak	Remove	To accommodate road layout.
T36	Cherry Laurel, Elder	Remove	To accommodate road layout.
G37	Field Maple	Fell the four westernmost trees to ground level. Grind stump to a maximum depth of 250mm.	To accommodate road layout.
H38	Hawthorn, Elder	Remove the northernmost 13m length of the hedge. Face back branches on the eastern side of the retained hedge by a maximum length of 1.5m.	To accommodate road layout To accommodate scaffolding
G40	Hawthorn	Remove	To accommodate layout.
H41	Hawthorn, Elder	Remove	To accommodate layout.
H42	Hawthorn	Remove	To accommodate layout.
T49	Crack Willow	Fell to ground level.	To facilitate access.
T50	Crack Willow	Fell to ground level.	To facilitate access.
G62	Elm	Remove	To accommodate footway
H63	Elm	Remove 150m long section	To accommodate access road, substation and visibility splays.

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 or construction activity commences.
- 5.2 The position of protective fencing is shown on drawings JBA 19-283 TP01-TP03 Rev C at Appendix 2.
- 5.3 The protective fencing will be installed after the tree works have been completed, as shown on drawings JBA 19-283 TP01-TP03 Rev C.
- 5.4 Protective fencing will be constructed of weld mesh panels securely fixed to a static framework fit for the purpose of excluding construction traffic.
- 5.5 Alternative specifications to those shown must be agreed prior to installation by the local authority and arboricultural consultant.
- 5.6 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.
- 5.7 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.
- 5.8 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.

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 construction phase

7 CONSTRUCTION

Manual excavation within RPAs

- 7.1 All works within Root Protection Areas (RPAs) will be carried out under the direct supervision of the appointed arboricultural consultant (JBA).
- 7.2 No site personnel will enter these areas until a representative from JBA is present.
- 7.3 A section of protective fencing will be temporarily removed to provide access to the required area.
- 7.4 Where necessary, the appointed arboricultural consultant will specify the location of temporary ground protection and the level of protection required.
- 7.5 Excavations will be carried out manually using appropriate hand tools OR using an air lance to expose tree roots.
- 7.6 No machinery will be permitted into the working area unless agreed by the arboricultural consultant.
- 7.7 All excavated spoil will be manually removed from the area or placed on temporary ground protection to be used for back filling upon completion.
- 7.8 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.
- 7.9 Roots less than 25mm may be pruned by the arboricultural consultant where deemed essential to complete works.
- 7.10 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.
- 7.11 Prior to backfilling any hessian wrapping will be removed from retained roots.
- 7.12 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.
- 7.13 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.

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

8 LANDSCAPING

- 8.1 Prior to works commencing the appointed arboriculturist will meet with the landscape contractor to discuss and agree the appropriate methodology to be used.
- 8.2 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

- 8.3 Landscaping beneath retained trees will be carried out by hand wherever possible and will not involve the use of heavy machinery.
- 8.4 Soil levels will not be altered without prior approval from the appointed arboriculturist or planning authority.
- 8.5 Cultivation of areas beneath trees will be carried out manually only preparing the top 100mm of soil.
- 8.6 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 SURVEY SCHEDULE

Tree Survey Schedule

Site name: Water Lane, Angmering
Client: BDW Southern Counties
Job Number: 19/283

Survey Date: 11 February 2020
Surveyor: Simon Smith

Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (PSB)	Crown Spread				Condition	Comments	Tree Work Recommendations
						N	E	S	W			
T1	Tilia cordata (Small-leaved Lime)	EM	460	8(0.5)	1.5SW	5.5	6	6	4.5	Good	Stem diameter estimated. Chicken wire around stem. Subject to Tree Preservation Order A/2/17 ref. G1.	Crown lift all around to achieve a height clearance of 2m from ground level. Remove any basal suckers.
T2	Tilia cordata (Small-leaved Lime)	EM	495	7(0)	2	5	4.5	4.5	3	Good	Stem diameter estimated. Low stem bifurcation, tight fork. Chicken wire around stem. Subject to Tree Preservation Order A/2/17 ref. G1.	Crown lift all around to achieve a height clearance of 2m from ground level. Remove any basal suckers.
T3	Tilia cordata (Small-leaved Lime)	EM	360	6(1)	1S	4	3.5	3.5	3	Good	Stem diameter estimated. Chicken wire around stem. Subject to Tree Preservation Order A/2/17 ref. G1.	Crown lift all around to achieve a height clearance of 2m from ground level. Remove any basal suckers.
T4	Tilia cordata (Small-leaved Lime)	EM	391	6(0)	2	5	4	3.5	4	Good	Established basal sucker growth, forming secondary stems. Multi-stemmed from base. Tight forks between stems. Chicken wire around stem. Subject to Tree Preservation Order A/2/17 ref. G1.	Crown lift all around to achieve a height clearance of 2m from ground level. Remove any basal suckers.
T5	Tilia cordata (Small-leaved Lime)	EM	550	9(2.5)	2S	5	4.5	4.5	5	Good	Stem diameter estimated. Established basal sucker growth, forming secondary stems. Chicken wire around stem. Subject to Tree Preservation Order A/2/17 ref. G1.	Crown lift all around to achieve a height clearance of 2m from ground level. Remove any basal suckers.
T6	Quercus robur (Common Oak)	SM	300	7(1.5)	2	4.5	5	5	4.5	Good	Typical crown form with no major defects. Subject to Tree Preservation Order A/2/17 ref. T2.	

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Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (PSB)	Crown Spread				Condition	Comments	Tree Work Recommendations
						N	E	S	W			
T7	Tilia x europaea (Common Lime)	SM	184	5(0.5)	0.5E	2	3.5	3.5	3	Fair	Not identified on topographical survey. Suppressed form. Tight fork between rubbing twisting stems.	
T8	Crataegus monogyna (Common Hawthorn)	SM	229	4(0.5)	0.5S	3	3	3	3.5	Good	Not identified on topographical survey. Unable to fully inspect - ivy and vegetation. Stem diameter estimated. Typical crown form with no major defects.	
T9	Prunus avium (Wild Cherry)	EM	370	7(0.5)	2.5E	4.5	5	6	5	Good	Typical crown form with no major defects.	
T10	Quercus robur (Common Oak)	SM	350	8(0.5)	3	4.5	4	5	4.5	Good	Typical crown form with no major defects.	
T11	Prunus avium (Wild Cherry)	EM	340	7.5(2)	2	5	5.5	3	5	Good	Not identified on topographical survey.	
G12	Crataegus monogyna (Common Hawthorn), Sambucus nigra (Elder)	M	578	6(1)	1E	6	7	6	4	Good	Unable to fully inspect - wall. Stem diameter estimated. Largest stem diameter recorded. Typical crown form with no major defects. Two hawthorn and one elder to north.	
T13	Crataegus monogyna (Common Hawthorn)	M	450	7(2)	2N	3	3	3	3	Good	Not identified on topographical survey. Unable to fully inspect - wall. Stem diameter estimated. Historic crown reduction.	
G14	Acer platanoides (Norway Maple), Ilex aquifolium (Common Holly), Crataegus monogyna (Common Hawthorn)	EM	500	8(2)	2N	6	2	5	3	Good	Not identified on topographical survey. Unable to fully inspect - fence. Stem diameter estimated. Largest stem diameter recorded. Typical crown forms with no major defects.	Reduce overhanging branches at the western end of the group by a maximum length of 1m.

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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 Work Recommendations
						N	E	S	W			
G15	Ilex aquifolium (Common Holly), Pinus sylvestris (Scots Pine)	SM	300	9(2)		2.5	3	3	2.5	Good	Not identified on topographical survey. Unable to fully inspect - fence. Stem diameter estimated.	
T16	Eucalyptus gunnii (Cider Gum)	SM	400	5.5(3)	2N	5	5	1	1	Poor	Unable to fully inspect - vegetation and fence. Stem diameter estimated. Stem leans to north-east.	
G17	Eucalyptus gunnii (Cider Gum), x Cupressocyparis leylandii (Leyland Cypress), Ilex aquifolium (Common Holly), Prunus avium (Wild Cherry)	EM	550	8(2.5)		6	4	4	2	Good	Not identified on topographical survey. Unable to fully inspect - ivy and vegetation. Stem diameter estimated. Largest stem diameter recorded. Typical crown forms with no major defects.	
T18	Fraxinus excelsior (Common Ash)	EM	500	8(4)	4N	7	6	6	7	Good	Unable to fully inspect - vegetation and fence. Stem diameter estimated. Tight forks between stems. Typical crown form with no major defects. Codominant leaders at 2m.	
H19	Crataegus monogyna (Common Hawthorn), Prunus spinosa (Blackthorn), Sambucus nigra (Elder)	EM	300	5(0.5)		3	2	2	2	Fair	Unmaintained hedge with gaps.	Face back branches on the western side of the hedge by a maximum length of 1.5m.
G20	Ulmus procera (English Elm)	SM	150	7(1.5)	1.5	2	2.5	2	2.5	Good	Largest stem diameter recorded. Typical crown form with no major defects.	
T21	Ulmus procera (English Elm)	SM	180	7(2.5)	2.5S	3	2.5	2.5	2.5	Good	Stem diameter estimated. Typical crown form with no major defects.	

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Registration No. 02020000-19746112-412764

Tree No.	Tree Species	Life Stage	Stem Ø (mm) at 1.5m	Height (crown height) (m)	Height of (PSB)	Crown Spread				Condition	Comments	Tree Work Recommendations
						N	E	S	W			
T22	Acer platanoides (Norway Maple)	SM	424	8(2.5)	3NE	4	4	4	3.5	Fair	Unable to fully inspect - ivy. Unable to fully inspect - vegetation. Stem diameter estimated. Multi-stemmed from base.	
G23	Ulmus procera (English Elm), Crataegus monogyna (Common Hawthorn), Sambucus nigra (Elder)	SM	150	8(0.5)		3	3.5	3.5	3	Fair	Stem diameter estimated. Scattered elms within scrub.	Fell the southernmost tree to ground level. Grind stump to a maximum depth of 250mm. Crown lift the southern side of the remaining trees to achieve a height clearance of 2.5m from ground level.
G24	Acer pseudoplatanus (Sycamore)	EM	407	9(2)	2.5S	5	4	5	4	Good	Unable to fully inspect - ivy. Largest stem diameter recorded.	Remove both trees.
G25	x Cupressocyparis leylandii (Leyland Cypress)	SM	400	9(2)		3.5	3.5	4	3	Fair	Stem diameter estimated. Largest stem diameter recorded.	Remove the northernmost tree.
T26	Sambucus nigra (Elder)	M	461	4(0)		1	3	5	2	Fair	Stem diameter estimated. Stem leans to east.	Remove.
T27	Quercus robur (Common Oak)	SM	190	5.5(2)	0.5NW	3	2.5	3	4	Good	Typical crown form with no major defects.	Remove.
T28	Quercus robur (Common Oak)	SM	200	5(1.5)		3	2.5	3.5	3.5	Good		Remove.

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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 Work Recommendations
						N	E	S	W			
T29	Quercus robur (Common Oak)	SM	210	7.5(2.5)	1W	3.5	3.5	4.5	3	Good	Unable to fully inspect - ivy.	Remove.
T30	Quercus robur (Common Oak)	SM	170	6(3)	2	2.5	2	2.5	1	Good		Remove.
T31	Acer pseudoplatanus (Sycamore)	SM	291	9(3)	1W	3	3	4	4.5	Good	Unable to fully inspect - ivy. Tight forks between stems.	
T32	Acer pseudoplatanus (Sycamore)	SM	350	10(2)	2SW	5	5	4	2	Good	Unable to fully inspect - ivy.	
T33	Betula pendula (Silver Birch)	SM	100	6(5)	3.5	0	0.5	1.5	1	Fair	Suppressed form.	
T34	Aesculus hippocastanum (Horse Chestnut)	M	809	9(3)	2S	5	7	5.5	5.5	Fair	Unable to fully inspect - fence. Stem diameter estimated. Multi-stemmed from base. Horse Chestnut Bleeding Canker.	
T35	x Cupressocyparis leylandii (Leyland Cypress)	EM	559	7(1.5)	0.5W	3	4	4	5.5	Fair	Stem diameter estimated.	
G36	Prunus laurocerasus (Cherry Laurel), Sambucus nigra (Elder)	SM	221	4(0.5)		3	3	2	2	Good		Remove.

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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 Work Recommendations
						N	E	S	W			
G37	Acer campestre (Field Maple), Prunus spinosa (Blackthorn), Sambucus nigra (Elder), Fraxinus excelsior (Common Ash), Crataegus monogyna (Common Hawthorn)	SM	354	8(3.5)		3.5	3.5	3.5	3.5	Good	Unable to fully inspect - vegetation. Stem diameter estimated. Line of planted maples with scrub understorey. One self-set ash at eastern end.	Fell the four westernmost trees to ground level. Grind stumps to a maximum depth of 250mm.
H38	Crataegus monogyna (Common Hawthorn), Sambucus nigra (Elder)	SM	120	4.5(0.5)		2	2	2	2	Fair	Stem diameter estimated. Maintained hedge with gaps.	Remove the northernmost 13m length of the hedge. Face back the eastern side of the hedge by a maximum length of 1.5m.
T39	Sambucus nigra (Elder)	EM	250	4(2)	1.5E	2	3	2	2	Fair	Not identified on topographical survey. Stem diameter estimated. Historic crown reduction.	
G40	Crataegus monogyna (Common Hawthorn)	EM	212	4.5(1.5)		2	3	2	2	Fair	Unable to fully inspect - ivy. Stem diameter estimated. Flail damage.	Remove.
H41	Crataegus monogyna (Common Hawthorn), Sambucus nigra (Elder)	M	150	4(1)		1	1	1	1	Fair	Stem diameter estimated. Maintained hedge.	Remove.
H42	Crataegus monogyna (Common Hawthorn)	M	150	4(1)		1	1	1	1	Fair	Stem diameter estimated. Maintained hedge.	Remove.

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To Contact James, Ray, St, Richard, Sarah, or Sue

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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 Work Recommendations
						N	E	S	W			
G43	Prunus cerasifera (Cherry Plum)	EM	250	8(2)		2	2.5	2.5	2	Fair	Stem diameter estimated. Largest stem diameter recorded.	
T44	Salix fragilis (Crack Willow)	M	600	8(1)	2	0	3	9	5	Fair	Unable to fully inspect - pond. Stem diameter estimated. Stem leans to south-west.	
T45	Salix fragilis (Crack Willow)	M	560	15(5)	1N	7	4	8	7	Fair	Unable to fully inspect - ivy. Historic split of secondary leader from main stem.	
G46	Crataegus monogyna (Common Hawthorn)	M	900	15(6)		5	7	7	3	Fair	Unable to fully inspect - pond. Unable to fully inspect - vegetation. Stem diameter estimated. Historic stem fractures with subsequent vertical regrowth.	
T47	Salix fragilis (Crack Willow)	M	800	12(2)	0.5	7	12	5	0	Fair	Unable to fully inspect - vegetation. Stem diameter estimated. Stem wounds. Stem leans to south-east. Historic stem failure.	
T48	Salix fragilis (Crack Willow)	EM	300	8(4)	3SE	1	6	3	0	Fair	Stem diameter estimated. Stem leans to south-east.	
T49	Salix fragilis (Crack Willow)	SM	350	8(1.5)	2.5S	5	5	6	5	Good	Unable to fully inspect - terrain. Stem diameter estimated. Typical crown form with no major defects. At watercourse level north of steep bank.	Fell to ground level.
T50	Salix fragilis (Crack Willow)	SM	280	6(3)	2SW	3.5	3.5	3	3	Fair	Unable to fully inspect - terrain. Stem diameter estimated. Stem wounds. At watercourse level north of steep bank.	Fell to ground level.

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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 Work Recommendations
						N	E	S	W			
G51	Crataegus monogyna (Common Hawthorn),Sambucus nigra (Elder)	EM	150	4(0.5)		2	2	2	2	Fair	Unmaintained hedge with gaps.	
T52	Ulmus procera (English Elm)	SM	180	6(2.5)	2.5	2.5	2.5	2	2	Good	Typical crown form with no major defects.	
T53	Ulmus procera (English Elm)	SM	280	8(3.5)	3.5W	3.5	2.5	2	3	Good	Unable to fully inspect - vegetation. Stem diameter estimated.	
T54	Ulmus procera (English Elm)	SM	150	4.5(3)	3N	2	2	1.5	1	Good	Unable to fully inspect - vegetation. Stem diameter estimated.	
T55	Quercus robur (Common Oak)	EM	720	10(2.5)	2E	7	7	9	7	Good	Minor dead wood. Historic branch wounds: livestock. Subject to Tree Preservation Order A/2/17 ref. T1.	
G56	Crataegus monogyna (Common Hawthorn)	EM	300	5(0.5)		2.5	2.5	2.5	2.5	Good	Unable to fully inspect - vegetation. Stem diameter estimated.	
T57	Salix fragilis (Crack Willow)	M	700	10(0)	4S	12	10	7	0	Fair	Stem diameter estimated. Multi-stemmed from base. Stem wounds. Stem cavity. Historic stem fractures between three stems, two of which have fallen to north and south with branches layering in ground.	

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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 Work Recommendations
						N	E	S	W			
H58	Crataegus monogyna (Common Hawthorn),Acer campestre (Field Maple)	EM	100	4(0.5)		1.5	1.5	1	1	Fair	Stem diameter estimated. Largest stem diameter recorded. Maintained hedge.	
H59	Acer campestre (Field Maple),Crataegus monogyna (Common Hawthorn),Acer pseudoplatanus (Sycamore)	EM	150	5(0.5)		1	1	1	1	Good	Stem diameter estimated. Largest stem diameter recorded. Maintained hedge.	
H60	x Cupressocyparis leylandii (Leyland Cypress)	EM	120	3.5(1)		1	1	1	1	Good	Stem diameter estimated. Largest stem diameter recorded.	
T61	x Cupressocyparis leylandii (Leyland Cypress)	EM	800	12(3)		4	4	4	4	Good	Not identified on topographical survey. Stem diameter estimated.	
G62	Ulmus procera (English Elm)	EM	350	9(4)		4	3.5	2.5	3	Good	Unable to fully inspect - ivy. Stem diameter estimated. Largest stem diameter recorded. Typical crown form with no major defects.	Remove.
H63	Ulmus procera (English Elm)	SM	150	8(0.5)		2	2	2	2	Poor	Unable to fully inspect - ivy. Stem diameter estimated. Largest stem diameter recorded. Crown dieback symptomatic of Dutch elm disease.	Remove 150m long section for access road and visibility splay

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To Contact James, Ray or Richard, please call 01203 200000

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Signature: 0015995 - 48742 512 2122 21

APPENDIX 2: JBA DRAWINGS

KEY

 T1 Existing Tree or Group colour referenced in accordance with
G1 BS 5837:2012 as shown below

 Existing hedge or group colour coded as above in accordance with BS 5837.

 Blue - Category B tree of moderate quality and value.

 Grey - Category C tree of low quality and value.

Blue - Cat B Groups/hedges of moderate quality and value.

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 Red - Cat U Groups/hedges of poor quality and value.

Root Protection Area as calculated in accordance with BS 5837:2012

 Trees subject to Tree Preservation Order TPO
A/2/17

 Shaded groups/hedges/trees to be removed

Site Boundary.

C NEW	12 09 2020 DATE	SAS INITIALS	CLIENT COMMENTS DETAILS	
CLIENT BOW SOUTHERN COUNTIES			OWNS TITLE TREE REMOVAL PLAN	
SITE LAND AT WATER LAKE, ANGERING				
PURPOSE OF ISSUE "				
DRG BY SAS	CHECKED JBA	AUTH'D JBA	SCALE 1:500 (A1)	DATE 20.04.2020
			OWNS INCD JBA 12/03 TR1	PREP "

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GENERAL NOTES

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

(C)JAMES BLAKE ASSOCIATES LTD 2021

ursery

Pond

Avenals Barn

Avenals Cottage

Stables

Avenals Farm

KEY

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- Shaded groups/hedges/trees to be removed
- Site Boundary.



GENERAL NOTES
-DO NOT SCALE OFF THIS DRAWING
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REV		DATE		DWS		CLIENT COMMENTS	
REV		DATE		DWS		DETAILS	
CLIENT				DWG. TITLE			
BNW SOUTHERN COUNTIES				TREE REMOVAL PLAN			
SITE							
LAND AT WATER LANE, ANGMERING							
PURPOSE OF ISSUE							
DRAWN BY		CHECKED		AUTH'D		SCALE	
SAS		JBA		JBA		1:500 @A1	
						DATE	
						20.04.2020	
				DWG NO.		REV	
				JBA 19/20S TR2		C	

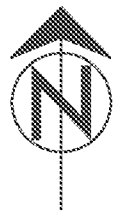
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C	12/05/2021	BA	CLIENT COMMENTS
REV	DATE	BY/FILE	DETAILS
CLIENT		DWG. TITLE	
BDW SOUTHERN COUNTIES		TREE REMOVAL PLAN	
SITE			
LAND AT WATER LAKE, ANGERING			
PURPOSE OF ISSUE			
.			
DWG BY	CHECKED	AUTH'D	SCALE
BA	BA	BA	1:500 @A1
DATE		DWG NO.	REV.
20.04.2020		BA 18/265 TR3	C

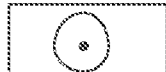
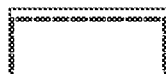
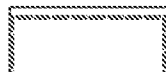
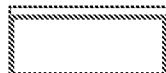
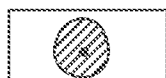
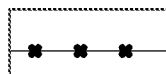
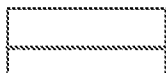
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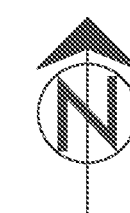
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pond

Avenals Cottage

Avenals Farm

	Existing Tree or Group colour referenced in accordance with BS 5837:2012 as shown below
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	Approximate line of protective fencing to be erected in accordance with BS 5837, to be maintained throughout demolition and construction works.
	Site Boundary.



GENERAL NOTES

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

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6	12/22/2023	SAS	CLIENT: DOW/MP/PA			
REV	DATE	INITIALS	DETAILS			
CLIENT		DWG. TITLE				
BOW SOUTHERN COUNTRIES		TREE PROTECTION PLAN				
SITE						
LAND AT WATER LANE, ANCHERING						
PURPOSE OF ISSUE						
"						
ORG BY	CHECKED	AUTH'D	SCALE	DATE	DWG NO.	REV.
SAS	JBA	JBA	1:500 @A1	20.04.2023	JBA 19/083 TP02	C

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Open With - 05/05/2015 - K:\A Client Projects\2015\2015 MD Water Line, Argonne, West Sussex\Drawings\BIM\Modelling\BIM 19-2015 Pipe Protection Plan Rev C.dwg

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A/2/17

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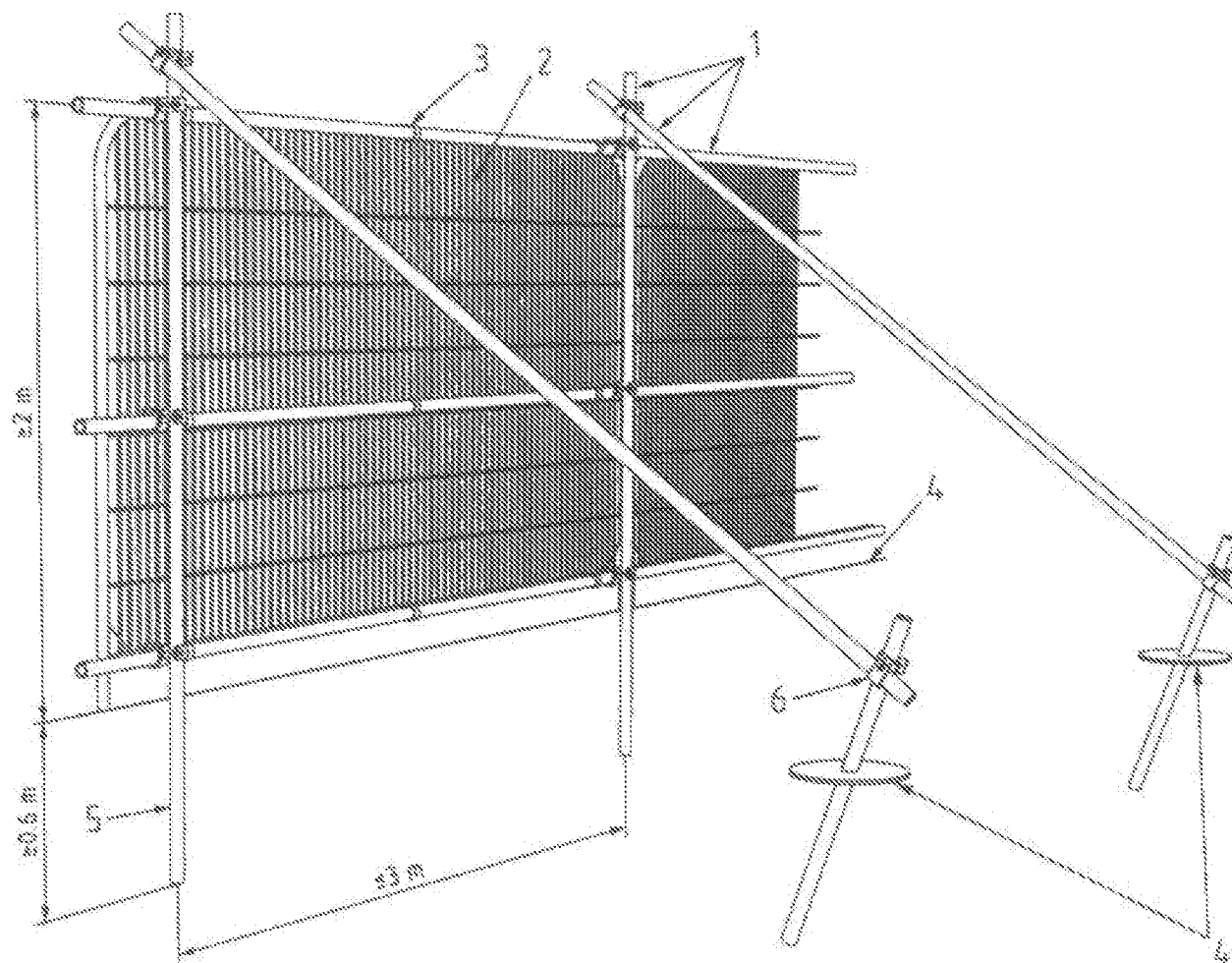
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Open South .. 26/05/2015 .. KALBARCIANOWSKI, Andrzej .. Southern Counties .. 263 RD WATER LAKE, BRIMINGHAM, WEST SUSSEX .. 19/2003 .. Free Protection Plan Rev. 0.00g

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

PURPOSE OF ISSUE TREE PROTECTION F IN DIN 63537:2012						
DRG BY DCG	CHECKED JBA	A LFD JBA	SCALE N/S 0/44	DATE JUNE 2019	DWG NO. BS5837:2012 - 1	REV.

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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

A S S O C I A T E S