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Arboriculture Impact Assessment & Method Statement

October 2021



Arboricultural impact assessment, method statement and tree protection plan

Land at Dugard Way Lambeth SE11 4TH

22nd October 2021

PJC ref: 5926/21-01 Rev 01



This report has been prepared by PJC Consultancy Ltd on behalf of Anthology Kennington Stage Ltd

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EXECUTIVE SUMMARY

PJC Consultancy has been instructed by Anthology Kennington Stage Ltd to provide an arboricultural impact assessment and arboricultural method statement to support a planning application for redevelopment of the former Woodlands and Masters site retaining the Masters House and associated ancillary buildings; demolition of the former care home; the erection of a central residential block raging in height from five to 14 stories, and peripheral development of part three; part four storeys to provide 155 residential units, together with servicing, disabled parking, cycle parking, landscaping, new public realm, a new vehicular and pedestrian access, and associated works.

This report complies with the planning policies of Lambeth Council and complies with the recommendations of British Standard BS5837: 2012 Trees in relation to design, demolition and construction – Recommendations.

The tree survey was carried out on 15th October 2021. The tree constraints plan and tree survey schedule can be found at Appendix 1 and Appendix 2 respectively.

Lambeth Council Planning Department was contacted by e-mail to establish restrictions to tree works at the site. It was reported on 4th September 2018 that no tree preservation order (TPO) protects the trees surveyed for this report. However, the Renfrew Road Conservation Area does encroach Dugard Way and protects trees T1-T9, and T67-T68.

The proposed layout has been overlaid with the tree constraints plan in order to identify the impacts to the trees to inform this impact assessment and this information has formed the basis of the tree retention and protection plan at Appendix 3.

A total of 60 individual trees and two tree groups will be removed to facilitate the proposed development. Of these, 24 trees are assessed to be category B, 33 trees and two groups are assessed to be category C and two trees are assessed to be category U. Four of the trees to be removed are situated within the Renfrew Road Conservation Area. An extensive replacement planting scheme has been proposed to provide an attractive setting for the new development.

No construction or landscaping works are proposed within the root protection areas of the trees proposed for retention.

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1 INTRODUCTION

1.1 Instruction

- 1.1.1 PJC Consultancy has been instructed by Anthology Kennington Stage Ltd to provide an arboricultural impact assessment and arboricultural method statement to support a planning application for redevelopment of the former Woodlands and Masters site retaining the Masters House and associated ancillary buildings; demolition of the former care home; the erection of a central residential block raging in height from five to 14 stories, and peripheral development of part three; part four storeys to provide 155 residential units, together with servicing, disabled parking, cycle parking, landscaping, new public realm, a new vehicular and pedestrian access, and associated works.
- 1.1.2 This report complies with the planning policies of Lambeth Council and complies with the recommendations of British Standard BS5837: 2012 Trees in relation to design, demolition and construction Recommendations (the British Standard).

1.2 Objectives of report

- 1.2.1 This report has been undertaken with the following objectives:
 - To identify the tree removals and pruning works that will be required as a result of the proposed development and to assess the impact of the tree works.
 - To assess the potential impact the proposed construction works will have on retained trees and provide recommendations for mitigation measures to reduce the impact on the trees.
 - To provide a protection methodology for retained trees throughout the demolition and construction period, including the above ground and below ground parts of the trees as well as their rooting medium.

1.2.2 This report includes:

- A tree constraints plan at Appendix 1
- A tree survey schedule at Appendix 2.
- A tree retention and protection plan at Appendix 3.
- An arboricultural impact assessment at section 2.
- An arboricultural method statement at section 3.

1.3 Documents and information provided

- 1.3.1 The following documents were used to aid the preparation of this report:
 - PTA Proposed Drainage Strategy Ref: 9678-PTA-ZZ-XX-DR-C-8100
 - Grid Architects Site Plan Ref: LSK-GRID-ZZ-ZZ-DR-A-10000 Rev B
 - Fabrik Site Location Plan Ref: D3055-FAB-00-XX-DR-L-0001 P02
 - Fabrik General Arrangement Plan Ref: D3055-FAB-00-XX-DR-L-1001
 - Fabrik General Arrangement Plan Ref: D3055-FAB-00-XX-DR-L-1002 P02
 - Fabrik Indicative Levels Plan Ref: D3055-FAB-00-XX-DR-L-4022 P02

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1.4 Limitations of report

1.4.1 The following arboricultural impact assessment and method statement have been prepared for the proposal stated in section 1.1 and using the plans and information listed in section 1.3. The report should not be relied upon if the stated proposal or proposed design changes unless the author confirms the changes do not have a bearing on the arboricultural impacts or recommended mitigation measures.

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2 ARBORICULTURAL IMPACT ASSESSMENT

2.1 Site visit

2.1.1 The tree survey was originally carried out on 28th August 2018 for a previous planning application at the site. The survey was updated on 15th October 2021 to ensure the tree survey data is still current and up to date. The tree constraints plan and tree survey schedule can be found at Appendix 1 and Appendix 2 respectively.

2.2 Statutory tree protection

- 2.2.1 Lambeth Council Planning Department was contacted by e-mail to establish restrictions to tree works at the site. It was reported on 4th September 2018 that no tree preservation order (TPO) protects the trees surveyed for this report. However, the Renfrew Road Conservation Area does encroach Dugard Way and protects trees T1-T9, and T67-T68.
- 2.2.2 However, a TPO can be provided to a tree at any time, therefore any persons proposing to undertake tree works should still check the status of the trees with the local planning authority prior to undertaking any tree works. Failure to adhere to the TPO legislation could lead to prosecution and if convicted a fine and criminal record. The crown of a tree and its roots are protected. The person carrying out the works, the person instructing the works and the Directors of that company are potentially liable. Failure to check whether tree/s are the subject of TPO/s could not be used as mitigation.

2.3 Proposals

2.3.1 The proposed layout has been overlaid with the tree constraints plan in order to identify the impacts to the trees to inform this impact assessment and this information has formed the basis of the tree retention and protection plan at Appendix 3.

2.4 Tree removals

2.4.1 Trees to be removed for the proposed development are shown with dashed outlines on the tree retention plan at Appendix 3 and are shaded to indicate their BS5837 tree category. A summary is listed at Table 1 below.

Table 1: Tree removals summary

Tree category	Trees to be felled	Total
Α		0
В	T10, T11 T12, T13, T14, T15, T16, T17, T18, T19, T21, T36, T37, T42, T43, T46, T51, T55, T56, T57, T58, T59, T60, T61	24 individual trees
С	T7, T8, T20, T22, T23, T24, T25, T26, T27, T28, T29, T30, T31, T32, T33, T34, T35, T38, T39, T40, T41, G44, T47, T48, T49, T50, T52, T53, T54, T62, G63, T64, T65, T66, T67	33 individual trees and two groups
U	T9, T45	2 individual trees

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2.5 Mitigation planting

2.5.1 Almost all the trees surveyed for this report require removal to facilitate the broad proposals at the site, however extensive replacement tree planting is proposed as is indicated on the landscape general arrangement plans to provide an attractive setting for the development. The detailed planting specification could readily be secured by planning condition.

2.6 Access facilitation pruning

- 2.6.1 Based on the information currently available, it is not anticipated that any access facilitation pruning will be required to enable the proposals.
- 2.6.2 Any requirements for pruning that cannot be predicted at this stage in the design process (e.g. for contractor compound or movement of large or specialist plant machinery) shall be agreed with the local authority arboricultural officer. No works may be carried out on protected trees without prior permission from the local authority. All tree works are to be carried out in accordance with BS3998: 2010 Tree works Recommendations.

2.7 Levels

2.7.1 No level changes are proposed within the root protection areas of the retained trees.

2.8 Building footings in proximity to trees

- 2.8.1 All proposed buildings will be located outside the root protection areas of retained trees, therefore use of specialist foundations for root protection is not deemed necessary.
- 2.8.2 NHBC guidelines on foundation depth in proximity to trees should be followed. This will be determined by a structural engineer and should be guided by information in this report, the detailed planting specification and appropriate sampling to determine soil profiles at the site.

2.9 Hard standing in proximity to trees

2.9.1 No new hard standing will be constructed within the root protection areas of retained trees. Some of the existing hard standing to the west of the cinema museum is to be replaced, however this will occur outside the root protection areas of the retained trees, and the existing surfacing on Dugard Way within the root protection areas of T1-T5 and T68 is to be retained.

2.10 Services

- 2.10.1 The proposed drainage layout requires no works to occur within the root protection areas of retained trees.
- 2.10.2 Details of the routing of utility services for the proposed development are not currently available. All underground services should be located outside the root protection areas of retained trees and above ground services should be located outside the anticipated mature crown spreads. Sympathetic methodology to enable the installation of services within root protection areas (in certain instances) is available, however there will always be a potential arboricultural impact and arboricultural advice must be sought regarding the suitability of these methods

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before they are relied upon. If it is achievable, root protection areas should always be completely avoided.

2.11 Post development tree pressures and management

- 2.11.1 The proposed development has been assessed to determine the likely impact of tree shade, and also the likely future pressure to prune or remove additional trees.
- 2.11.2 The retained trees at the site are located away from all the proposed residential buildings and will have no direct or indirect impact in terms of shade or space. The current maintenance requirements for retained trees will not change as a result of the proposed development.

2.12 Conclusions

- 2.12.1 24 trees assessed to be category B, 33 trees and two groups assessed to be category C and two trees assessed to be category U will require removal to facilitate the proposals. The number of tree removals is the result of the proliferation of trees within the limited confines of the site. Despite the number of trees being removed, the majority are of a young to early mature age class and not of notable quality or value. A landscaping scheme has been provided that includes extensive tree planting that has been designed specifically for the development to make a long term contribution to the local treescape.
- 2.12.2 The trees that are proposed for retention will be unaffected by the proposed development subject to adherence to the instructions in the arboricultural method statement.

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3 ARBORICULTURAL METHOD STATEMENT

3.1 General requirements

- 3.1.1 The arboricultural method statement and tree protection plan shall remain on site for the duration of demolition, construction and landscaping works and be available to site operatives at all times. All operatives at the site shall be briefed about tree related factors as part of their site induction.
- 3.1.2 Any variation from the methodology described in this method statement shall be discussed with the supervising arboriculturist and agreed with the local authority arboricultural officer.

3.2 Initial tree works

- 3.2.1 The tree removals specified in the arboricultural impact assessment shall be carried out as the first stage of development.
- 3.2.2 Any requirements for access facilitation pruning which have not been anticipated on the date of this report shall be agreed with the local authority arboricultural officer. All of the retained trees are located within the Renfrew Road Conservation Area.
- 3.2.3 No bonfires shall be lit within the site to dispose of arisings from the initial tree works.
- 3.2.4 Trees should be checked for protected species before works are undertaken. It is against the law to disturb bats or their roosts under the Conservation of Habitat and Species Regulations. Nesting birds are protected by the Wildlife and Countryside Act. If protected species are discovered, Natural England should be contacted for advice.
- 3.2.5 The tree works contractors should carry out all tree works to BS3998: 2010 Tree works recommendations as modified by research that is more recent. They should also carry relevant, adequate and up to date insurance.
- 3.2.6 It is suggested that an Arboricultural Association approved contractor carry out all tree works. Approved contractors are expected to work to industry best standards. The Arboricultural Association website (www.trees.org.uk) contains contact details and information on engaging a suitable contractor.

3.3 Construction exclusion zones

- 3.3.1 In order to protect the retained trees during the demolition and construction period, the area hatched yellow on the tree retention and protection plan shall be designated a construction exclusion zone. Within this area, the following restrictions shall apply:
 - No vehicular access shall be permitted.
 - Regular pedestrian access shall be restricted unless on suitable ground protection measures agreed with the project arboriculturist.
 - No storage of construction materials shall occur.
 - No storage of building spoil or construction debris (including short-term temporary stockpiling) shall occur.
 - No harmful chemicals shall be stored or handled.
 - No fires shall be permitted.
 - No mechanical excavation including regrading of levels shall occur.

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- There shall be no change in ground level unless undertaken under the supervision of the project arboriculturist.
- No construction activities including installation of new permanent hard standing shall be undertaken.

3.4 Storage and handling of harmful chemicals

- 3.4.1 Provision must be taken to prevent the storage and handling of harmful chemicals within the root protection areas of retained trees. Harmful chemicals include fuels, oils, bitumen, builder's sand (which has a high salt content) and cement. Provision shall also be made to prevent the storage and handling of harmful chemicals in areas proposed for further planting if the existing soil is intended to be retained.
- 3.4.2 Cement mixing shall always occur outside the construction exclusion zone. If cement mixing is to occur close to the construction exclusion zone, or there is the potential for cement washings to leech into a root protection area, adequate, bunded ground protection measures must be used. This could comprise impermeable plastic sheeting under wooden boards (to prevent tears) surrounded by a raised lip.
- 3.4.3 All other chemicals that are harmful to trees must be stowed in suitable containers and stored away from the construction exclusion zone unless adequate, bunded ground protection measures are implemented to prevent spillages leeching into root protection areas.

3.5 Contractor facilities

3.5.1 A suitable location for site cabins, contractor parking and site facilities for operatives shall be agreed with the project arboriculturist (arboricultural input into the construction management plan is recommended). These facilities must be located outside the root protection areas of all retained trees unless on adequate ground protection measures that have been signed off with the project arboriculturist (potentially including existing hard standing). Provision must be taken to prevent exhaust fumes or hot air from generators or kitchen facilities from damaging foliage within the crowns of retained trees. If the contractor compound is to be located offsite, additional tree protection measures and a further tree survey may be required.

3.6 Pre-commencement arboricultural consultancy input

- 3.6.1 Prior to the commencement of works, arboricultural input will be required for the following aspects of development:
 - 1) The construction management plan.
 - 2) The routing of new utility services.
- 3.6.2 If necessary, this arboricultural method statement and tree protection plan shall be updated to accommodate these aspects of the project and the revised information submitted to the local authority tree officer for approval.

3.7 Arboricultural monitoring

3.7.1 The site manager shall provide a monthly update to the project arboriculturist including photographic evidence that the construction exclusion zones have been observed and that the retained trees have not been damaged.

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3.8 Process if an unforeseen issue relating to trees arises

- 3.8.1 If significant root growth is disturbed during construction activities that are not within the scope of this report, the work shall cease until the project arboriculturist has been consulted. Roots greater than 25mm in diameter or dense/matted fibrous roots shall be considered significant root growth. It should be remembered that whilst root protection areas are part of industry best practice, tree root growth is influenced by a number of factors and may not conform to expected ideals.
- 3.8.2 If at any time during the construction process, damage is inadvertently caused to a tree, the project arboriculturist shall be notified to assess the likely implications and to prescribe potential remedial measures to be implemented. Damage can be in the form of chemical or fuel spillage, mechanical damage to either the above ground parts of the tree or the roots, fire or any other unforeseen circumstance.
- 3.8.3 The supervising arboriculturist shall be appointed by the contractor. It will be necessary for the arboriculturist to report to the local planning authority on the outcome of the site visits as well as any unforeseen tree related issues.

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Appendix 1: Tree Constraints Plan

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Root protection area for category B* tree

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Key:

Root protection area for category B* tree

Root protection area for category C* tree

Root protection area for category U* tree

* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

Tree Survey Schedule contained within the arboricultural report ref. PJC/5926/21-01 contains further information for each tree.

This drawing should be viewed in colour.

Tree canopy

Tree numbers suffixed with PA indicate the tree position is approximate.

Drawing no: PJC/5926/21/A Rev: - Sheet number: 2 of 2

Client and site:

Anthology Kennington Stage Ltd

Land at Dugard Way Lambeth SE11 4TH

Drawing title: Tree Constraints Plan

Date drawn: 18/10/2021

Scale: 1:200 at A1

Drawn by: PD Checked by: LW





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Appendix 2: Tree Survey Schedule

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Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Brar spre (n	ead	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N:	2	Crown:								
T1	Tibetan cherry	4	120	E:	3	2 average	Semi	Good	Good	Street tree in pedestrianised	No action required.	C1+2	6.5	1.4
' '	(Prunus serrula)	7	120	S:	3	Branch:	mature	acca	aooa	area. Crown lifted to 2m.	No action required.	01.2	0.0	1.4
				W:	2	2 average								
				N:	3	Crown:								
T2	Tibetan cherry	4	130	E:	2	2 west	Semi	Good	Good	Street tree in pedestrianised	No action required.	C1+2	7.6	1.6
12	(Prunus serrula)	·	100	S:	3	Branch:	mature	dood	acca	area. Crown lifted to 2m.	No dollon required.	01.12	7.0	1.0
				W:	3	2 average								
				N:	3	Crown:								
Т3	Tibetan cherry	4	90	E:	2	2 average	Semi	Good	Good	Street tree in pedestrianised	No action required.	C1+2	3.7	1.1
	(Prunus serrula)	·			Branch:	mature	G, C C G	aoou	area. Crown lifted to 2m.	adiidii i aqaii dai	0.1-	0.,		
				W:	3	2 average								
				N:	2	Crown:								
T4	Tibetan cherry	4	110, 80	E:	2	2 average	Semi	Good	Good	Street tree in pedestrianised	No action required.	C1+2	8.4	1.6
	(Prunus serrula)		,	S:	3	Branch:	mature			area. Crown lifted to 2m.	·			
				W:	3	2 average								
			150 100	N:	2	Crown:								
T5	Bay (Laurus	8	150, 190, 220, 220,	E:	2	2 average	Mature	Good	Fair	Large shrub in third party garden	No action required.	C2	94.2	5.5
	nobilis)		230	S:	2	Branch:				area. Recently heavily reduced.	·			
				W:	2	1 west								
	I line a lavora de la de			N:	4	Crown:				Located in third party garden				
Т6	Himalayan birch (Betula utilis	11	250, 110, 110	E:	3	1 west	Early mature	Good	Good	area. Good overall condition. Form appears dictated by	No action required.	B1+2	39.2	3.5
	'Jacquemontii')			S:	4	Branch:			Good	suppression from T5 on east	,			
	vacquemontii)			W:	4	1 north				side of crown.				

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)		Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
Т7	Norway maple (Acer platanoides)	9	260	N: 1 E: 1 S: 1 W: 1	Crown: 2 east Branch: 2 west	Early mature	Fair	Poor	Suppressed form. Recently heavily reduced with profuse and slightly chlorotic epicormic regrowth.	Fell and remove stump.	C1	30.6	3.1 (amended on Tree Constraints Plan)
Т8	Norway maple (Acer platanoides)	9	330	N: 3 E: 3 S: 2 W: 1	Crown: 2 west Branch: 2 average	Early mature	Fair	Fair	Suppressed form bias east. Recently heavily reduced to match T7. Profuse epicormic regrowth with some evidence of dieback at branch tips.	Fell and remove stump.	C1	49.3	4.0 (amended on Tree Constraints Plan)
Т9	Norway maple (Acer platanoides)	9	340	N: 2 E: 0 S: 1 W: 2	Crown: 2 west Branch: 2 west	Early mature	Poor	Poor	Suppressed form. Major damage to stem bark. Recently heavily reduced with profuse epicormic regrowth on west side only.	Fell and remove stump.	U	52.3	4.1 (amended on Tree Constraints Plan)
T10	Sweet chestnut (Castanea sativa)	8	280	N: 3 E: 5 S: 4 W: 4	Crown: 2 average Branch: 2 average	Early mature	Good	Good	Open growth habit. Previously crown lifted. No major visible defects.	Fell and remove stump.	В1	35.5	3.4
T11	Norway maple (Acer platanoides)	8	260	N: 1 E: 1 S: 2 W: 3	Crown: 2 average Branch: 2 west	Early mature	Good	Fair	Historically heavily reduced. Crown lifted on south side. Contributes to collective tree screen on northern boundary of parking area.	Fell and remove stump.	B2	30.6	3.1
T12	Norway maple (Acer platanoides)	8	300	N: 1 E: 2 S: 3 W: 3	Crown: 2 average Branch: 2 south	Early mature	Good	Fair	Historically heavily reduced. Crown lifted on south side. Contributes to collective tree screen on northern boundary of parking area.	Fell and remove stump.	B2	40.7	3.6

Survey date: 28/08/2018 (updated 15/10/2021)

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Tree ref.	Species	Height (m)	Stem diameter (mm)	Brar spre (n	ead	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N:	1	Crown:				Historically heavily reduced.				
T13	Norway maple (Acer	8	300 est	E:	3	2 average	Early	Good	Fair	Contributes to boundary	Fell and remove stump.	B2	40.7	3.6
113	platanoides)	O	300 631	S:	2	Branch:	mature	dood	i ali	screening. Under-storey prevents	r en and remove stump.	52	40.7	5.0
				W:	2	2 east				close inspection.				
				N:	1	Crown:				Historically heavily reduced.				4.2
T14	Norway maple (Acer	8	350	E:	2	2 south	Early	Good	Fair	Crown lifted on south side. Contributes to boundary	Fell and remove stump.	B2	55.4	(amended on Tree
114	platanoides)	O	330	S:	2	Branch:	mature	Good	I all	screening. Crown conflicts with	r en and remove stump.	DZ	33.4	Constraints
				W:	2	3 east				third party roof.				Plan)
				N:	2	Crown:				Historically heavily reduced.				2.9
T15	Norway maple (Acer platanoides)	8	240	E:	2	2 south	Early	Good	Fair	Crown lifted on south side. Contributes to boundary	Fell and remove stump.	B2	26.1	(amended on Tree
113		Ö	240	S:	3	Branch:	mature			screening. Crown overhangs	r en and remove stump.	DZ.	20.1	Constraints
				W:	2	2 average				third party roof.				Plan)
				N:	2	Crown:				Historically heavily reduced.				2.9
T16	Norway maple (Acer	8	240	E:	1	2 south	Early	Good	Fair	Crown lifted on south side. Contributes to boundary	Fell and remove stump.	B2	26.1	(amended on Tree
110	platanoides)	O	240	S:	3	Branch:	mature	Good	raii	screening. Crown overhangs	reli and remove stump.	D2	20.1	Constraints
				W:	2	2 average				third party roof.				Plan)
				N:	2	Crown:				Historically heavily reduced.				3.8
T17	Norway maple (Acer	8	320	E:	3	2 east	Early	Good	Fair	Crown lifted on south side. Contributes to boundary	Fell and remove stump.	B2	46.3	(amended on Tree
117	platanoides)	0	320	S:	4	Branch:	mature	Good	raii	screening. Crown overhangs	reli and remove stump.	B2	40.3	Constraints
				W:	2	2 south				third party roof.				Plan)
				N:	1	Crown:				Historically heavily reduced.				
T18	Norway maple	7	000	E:	2	2 average	mature	Good	F-:-	Crown lifted on south side.	F-II	B2	00.0	0.0
IΙΒ	(Acer platanoides)	7	230	S:	2	Branch:			Fair	Contributes to collective tree screen on northern boundary of	Fell and remove stump.	DZ	23.9	2.8
	,			W:	2	2 average				parking area.				

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Brar spr (n	ead	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N:	1	Crown:				Historically heavily reduced.				
T19	Norway maple (Acer	7	280	E:	2	2 average	Early	Fair	Fair	Crown lifted on south side. Contributes to boundary	Fell and remove stump.	B2	35.5	3.4
119	platanoides)	,	200	S:	2	Branch:	mature	ı alı	I all	screening. Minor dieback at tips	r eir and remove stump.	DZ	33.3	5.4
				W:	2	2 average				on west side of crown.				
				N:	2	Crown:								
T20	Himalayan birch (Betula utilis	7	130	E:	2	1 south	Semi	Good	Good	Located in planter adjacent to parking area. Good overall	Fell and remove stump.	C1	7.6	1.6
120	'Jacquemontii')	,	130	S:	4	Branch:	mature	dood	Good	condition and form.	r eir and remove stump.	01	7.0	1.0
				W:	4	2 average								
				N:	3	Crown:				Located in planter adjacent to				
T21	Himalayan birch (Betula utilis	7	180	E:	3	1 west	Semi	Good		parking area. Good overall condition and form. Will require	Fell and remove stump.	B1	14.7	2.2
121	'Jacquemontii')	,	180	S:	3	Branch:	mature			cyclical pruning from building in	r en and remove stump.	О.	14.7	۷.۷
				W:	4	1 west				the future.				
				N:	3	Crown:								
T22	Judas tree (Cercis	8	230	E:	4	1 east	Early	Good	Fair	Previously crown lifted. Minor deadwood from suppression.	Fell and remove stump.	C1	23.9	2.8
122	siliquastrum)	Ü	200	S:	3	Branch:	mature	aoou	ı alı	Crown overhangs adjacent roof.	r on and remove stamp.	01	20.0	2.0
				W:	2	3 average								
				N:	2	Crown:								
T23	Judas tree (Cercis	7	150	E:	3	2 east	Semi	Fair	Fair	Suppressed form bias east.	Fell and remove stump.	C1	10.2	1.8
120	siliquastrum)	,	130	S:	2	Branch:	mature	ı alı	i ali	Relatively sparse crown.	r en and remove stump.	01	10.2	1.0
				W:	0	2 south								
				N:	3	Crown:								
T24	Judas tree (Cercis	8	170	E:	2	2 north	Semi	Fair	Enir	Suppressed form. Previously crown lifted. Small deadwood	Fell and remove stump.	C1	13.1	2.0
124	siliquastrum)	0	170	S:	1	Branch:	mature		Fair	due to suppression.	i en and remove stump.	O1	13.1	2.0
				W:	i Biailcii.									

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Branc sprea (m)	d clearance	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N: 1	Crown:								
T25	Judas tree (Cercis	8	150	E: 3	3 east	Semi	Fair	Fair	Suppressed form. Previously crown lifted. Small deadwood	Fell and remove stump.	C1	10.2	1.8
120	siliquastrum)	U	100	S: 2	Branch:	mature	r an	ı alı	due to suppression.	r dir and remove stump.	01	10.2	1.0
				W: 0	3 east								
				N: 1	Crown:								
T26	Judas tree (Cercis	6	70	E: 1	4 average	Youna	Fair	Poor	Suppressed form. Sparse crown. Outcompeted by adjacent Judas	Fell and remove stump.	C1	2.2	0.8
120	siliquastrum)	Ü	70	S: 1	Branch:	roung	T dil	1 001	trees.	Ton and Tomove Stamp.	0.	2.2	0.0
				W: 1	4 average								
				N: 1	Crown:				0 16 5				1.9
T27	Judas tree (Cercis	8	160	E: 2	5 east	Semi	Fair	Fair	Suppressed form. Previously crown lifted. Crown overhangs	Fell and remove stump.	C1	11.6	(amended on Tree
	siliquastrum)		100	S: 3	Branch:	mature			adjacent roof.				Constraints
				W: 1	3 west				·				Plan)
				N: 1	Crown:								1.9
T28	Judas tree (Cercis	8	160	E: 1	2 south	Semi	Good	Fair	Suppressed form. Previously crown lifted. Crown overhangs	Fell and remove stump.	C1	11.6	(amended on Tree
	siliquastrum)			S: 2	Branch:	mature			adjacent roof.	·			Constraints
				W: 2	2 north								Plan)
				N: 1	Crown:				C				
T29	Judas tree (Cercis	7	70	E: 1	2 west	Young	Fair	Fair	Suppressed form. Sparse crown. Outcompeted by adjacent Judas	Fell and remove stump.	C1	2.2	0.8
	siliquastrum)			S: 1	Branch:	J			trees.	·			
				W: 1	3 east								
				N: 2	Crown:				Relatively sparse crown.				2.0 (amended
T30	Judas tree (Cercis	9	9 170	E: 1	5 west	Semi mature	Fair	Fair	Previously crown lifted.	Fell and remove stump.	C1	13.1	on Tree
	siliquastrum)	•		S: 1	Branch:			Fair	Suppressed form. Crown overhangs adjacent roof.				Constraints
				W: 2	3 east				overnangs aujacent 1001.				Plan)

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Branc sprea (m)		Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N: 1	Crown:								
T31	Judas tree (Cercis siliquastrum)	6	90	E: 1 S: 1	3 west Branch:	Young	Fair	Fair	Suppressed form. Out competed by surrounding trees.	Fell and remove stump.	C1	3.7	1.1
				W: 2	3 average								
T32	Judas tree (Cercis siliquastrum)	9	150	N: 2 E: 1 S: 2	Crown: 4 west Branch:	Semi mature	Fair	Fair	Suppressed form. Previously crown lifted. Lateral limbs conflict with side of adjacent	Fell and remove stump.	C1	10.2	1.8 (amended on Tree Constraints
				W: 3	3 south				building and overhang roof.				Plan)
T33	Himalayan birch (Betula utilis	8	120	N: 2 E: 1 S: 2	Crown: 2 north Branch:	Semi mature	Good	Fair	Crown lifted over footpath. Will require cyclical pruning in the future to avoid conflict with	Fell and remove stump.	C1	6.5	1.4
	'Jacquemontii')			3. Z W: 2	3 south				adjacent building.				
T34	Himalayan birch (Betula utilis 'Jacquemontii')	9	130	N: 3 E: 1 S: 3 W: 2	Crown: 2 north Branch: 3 west	Semi mature	Good	Good	Slightly suppressed by T35. No major visible defects. Will require cyclical pruning to avoid conflict with adjacent building.	Fell and remove stump.	C1	7.6	1.6
T35	Himalayan birch (Betula utilis 'Jacquemontii')	9	130	N: 2 E: 3 S: 3 W: 2	Crown: 2 east Branch: 2 south	Semi mature	Good	Fair	Suppressed form bias east. Crown overhangs roof to the south.	Fell and remove stump.	C1	7.6	1.6
Т36	Norway maple (Acer platanoides)	12	360	N: 1 E: 3 S: 3 W: 2	Crown: 2 average Branch: 2 south	Mature	Good	Fair	Crown previously heavily reduced, particularly over third party garden. Profuse epicormic regrowth.	Fell and remove stump.	B2	58.6	4.3

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Brar spr (n	ead	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N:	2	Crown:				Crown previously heavily reduced,				
T37	Norway maple (Acer	12	350 est	E:	3	2 south	Early	Good	Fair	particularly over third party	Fell and remove stump.	B2	55.4	4.2
107	platanoides)	12	000 631	S:	3	Branch:	mature	aoou	ı alı	garden. Profuse epicormic regrowth.	remaind remove stump.	DL.	55.4	7.2
				W:	2	2 south				regrowth.				
				N:	3	Crown:								
T38	Himalayan birch (Betula utilis	7	140	E:	1	2 west	Semi	Good	Fair	Slightly suppressed form. No major visible defects. Crown	Fell and remove stump.	C1+2	8.9	1.7
100	'Jacquemontii')	,	110	S:	2	Branch:	mature	dood	T GII	lifted over footpath.	r cir arra remove stamp.	01.2	0.0	1.7
				W:	3	2 average								
				N:	1	Crown:								1.6
T39	Himalayan birch (Betula utilis 'Jacquemontii')	8	130	E:	1	3 west	Semi	Good	Good	Slightly suppressed form. No major visible defects. Crown	Fell and remove stump.	C1+2	7.6	(amended on Tree
100		Ü	130	S:	3	Branch:	mature		acca	lifted over footpath.	Ton and Tomovo Stamp.	0.11	7.0	Constraints
				W:	3	3 west								Plan)
				N:	3	Crown:								1.8
T40	Himalayan birch (Betula utilis	8	150	E:	1	2 north	Semi	Good	Good	Slightly suppressed form. No major visible defects. Crown	Fell and remove stump.	C1+2	10.2	(amended on Tree
	'Jacquemontii')	Ü		S:	3	Branch:	mature	0.004	0.000	lifted over footpath.	r on and rome to cramp.	0		Constraints
				W:	1	2 east								Plan)
				N:	1	Crown:								1.3
T41	Himalayan birch (Betula utilis	8	110	E:	2	3 north	Semi	Good	Good	Slightly suppressed form. No major visible defects. Crown	Fell and remove stump.	C1+2	5.5	(amended on Tree
	'Jacquemontii')	Ü	110	S:	2	Branch:	mature	acca	acca	lifted over footpath.	Ton and Tomovo Stamp.	0.11	0.0	Constraints
				W:	1	2 north								Plan)
				N:	2	Crown:								
T42	Silver birch	10	190	F:	3	3 east	Early	Good	Fair	Drawn up growth habit. Crown lifted over path. No major visible	Fell and remove stump.	B2	16.3	2.3
' '-	(Betula pendula)	10	0 190	S:	2	Branch:	mature	Good	Fair I	defects.	i sii ana romovo stump.		10.0	2.0
				W:	2	3 average								

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	-	nch ead n)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N:	2	Crown:				Tall privet hedgerow prevents				
T43	Norway maple (Acer	12	300 est	E:	3	3 average	Early	Fair	Fair	close inspection. Crown	Fell and remove stump.	B2	40.7	3.6
1 10	platanoides)		000 001	S:	2	Branch:	mature	T dil	1 411	previously reduced with some chlorotic foliage.	Ton and Tomovo stamp.		10.7	0.0
				W:	2	2 average				chlorotic rollage.				
G44	Himalayan birch (Betula utilis 'Jacquemontii')	6 average	70 average est	1 aver		3-4 average	Young	Good	Fair	2x birch saplings in privet hedgerow. Under-storey suppresses stems and prevents close inspection.	Fell and remove stumps.	C1	2.2 average	0.8 average
				N:	2	Crown:								
T45	Himalayan birch (Betula utilis	6	70	E:	2	N/A	Dead	Poor	Poor	Tree died in period between	Fell and remove stump.	U	§	0.8
1 10	'Jacquemontii')	Ü	70	S:	0	Branch:	Dodd	FOOI	1 001	2018 and 2021 tree surveys.	Ton and Tomovo stamp.	ŭ	S	0.0
	'Jacquemontii')			W:	1	1 east								
	False acacia			N:	1	Crown:								
T46	(Robinia	14	210, 150	E:	2	3 average	Early	Good	Fair	1x main and 1x secondary stem.	Fell and remove stump.	B2	30.1	3.1
	pseudoacacia 'pyramidalis')			S:	2	Branch:	mature			Cultivar with slender crown form.				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			W:	1	1 average								
	False acacia			N:		Crown:								
T47	(Robinia	14	300 est	E:		2 north	Early mature	Good	Fair	Cultivar with slender crown form. Dense ivy encroaches crown.	Fell and remove stump.	C2	40.7	3.6
	pseudoacacia 'pyramidalis')			S:	1	Branch:	mature			Derise My encroaches crown.				
				W:	1	2 average								
	Himalayan birch			L:		Crown:								
T48	(Betula utilis	7	120	E:	2	3 average	Semi mature	Good	Good	Small tree of good condition ood and form.	Fell and remove stump.	C1	6.5	1.4
	'Jacquemontii')		. — -	S: W:	3	Branch:								
			,	٧٧.	3	2 east								

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Bran spre (m	ad cl	Crown earance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
				N:	1 (Crown:								
T49	Himalayan birch (Betula utilis	7	80, 50	E:	1	3 west	Young	Good	Fair	Dual stemmed. Suppressed form.	Fell and remove stump.	C1	4.0	1.1
1 10	'Jacquemontii')	,	est	S:	2 I	Branch:	roung	accu	T dil	Daar sterminea. Suppressed form.	r on and romove stamp.	0.	1.0	
				W: :	2	1 east								
				N:	1 (Crown:								1.3
T50	Himalayan birch (Betula utilis	5	110	E: :	2 :	2 south	Young	Good	Fair	Small tree of reasonable condition. Crown reduced from	Fell and remove stump.	C2	5.5	(amended on Tree
100	'Jacquemontii')	Ü	110	S:	2 I	Branch:	roung	accu	T dii	path.	r on and romove stamp.	0_	0.0	Constraints
				W:	1 2	2 south								Plan)
	Fastigiate oak			N:	1 (Crown:								
T51	(Quercus robur	10	240 over	E:	1 3	average	Early	Fair	Good	Typical form for species. lvy	Fell and remove stump.	B2	26.1	2.9
	'fastigiata Koster')		ivy	S:	1 1	Branch:	mature	e raii		encroaches lower crown.	r on and rome to stamp.			2.0
	Noster)			W:	1 3	average								
				N:	0 (Crown:								
T52	Sycamore (Acer	6	80 est	E:	1 2	average	Youna	Poor	Fair	Chlorotic foliage throughout crown. Drawn up growth habit	Fell and remove stump.	C1	2.9	1.0
	pseudoplatanus)			S:	1 [Branch:	9			due to suppression.				
				W:	1 2	2 south								
				N:	1 (Crown:				N				
T53	Sycamore (Acer	9	160	E: :	2	3 east	Semi	Good	Fair	Narrow, upright growth habit. Various climbing species from	Fell and remove stump.	C1	11.6	1.9
	pseudoplatanus)	Ü		S:	2 I	Branch:	mature	0.000		arbor encroach crown.	r on and rome to stamp.			
				W: :	2	2 east								
				N: :	2 (Crown:								
T54	Rowan (Sorbus	7	70	E:	1 2	2 north	Semi	Good	Fair	Narrow, upright growth habit.	Fell and remove stump.	C1	2.2	0.8
101	aucuparia)	,	70	S:	D (Branch:	mature	Good	Fair	Slightly suppressed by T53.	. s and romove stump.	<u>.</u>		0.0
				S: 0 Branch: ^m W: 1 1 east										

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	spi	nch read m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
	Paper-bark maple (Acer griseum)			N:	3	Crown:	Mature	Good	Fair	1x main and 3x secondary		B1	22.7	2.7
T55		7	180, 80, 80, 70	E:	3	1 west				stems. Crown extends close to adjacent building and will likely	Fell and remove stump.			
133				S:	1	Branch:	Mature			require cyclical pruning in the future.				
				W:	3	1 north								
				N:	4	Crown:		Good					11.6	
T56	Walnut (Juglans regia)	7	160	E:	3	2 west	Semi		Good	Stem has slight north lean. Open growth habit. No major visible defects.	Fell and remove stump.	B1		1.9
130			160	S:	2	Branch:	mature							
				W:	2	2 average								
	Ornamental pear (Pyrus spp.)			N:	3	Crown:		Good	Good	Previously crown lifted. Open grown habit. No major visible defects.	Fell and remove stump.	В1	21.9	2.6
T57		8	220	E:	2	1 south	Early							
137		O	220	S:	3	Branch:	mature						21.9	2.0
				W:	3	2 east								
	Ornamental pear (Pyrus spp.)	8	190	N:	4	Crown:		Good	Good	Slightly suppressed form. Previously crown lifted. No major visible defects.	Fell and remove stump.		16.3	2.3
T58				E:	2	2 north	Early mature					B1		
130				S:	2	Branch:								
				W:	3	2 average								
		8		N:	3	Crown:			Good	Slightly suppressed form. Previously crown lifted. No major visible defects. Will require	Fell and remove stump.	B1	21.9	2.6
T59	Ornamental pear (Pyrus spp.)		220	E:	3	2 south	Early	Good						
109		O	220	S: 3	3	Branch:	mature	dood	dood	cyclical pruning from adjacent				
				W:	2	2 average				building.				
				N:	2	Crown:		Good	Fair	Multi-stemmed from base. Will require cyclical pruning from building in the future. Lower crown suppressed. Crossing stems.	Fell and remove stump.	B1	14.0	2.1
T60	Paper-bark maple (Acer griseum)	6	90, 80, 80, 100	E:	3	3 average	Early							
100		U		S:	1	Branch:	mature							۷.۱
				W:	2	1 south								

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	sp	anch read m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
	Ornamental pear (Pyrus spp.)			N:	2	Crown:		Fair	Fair	North side of crown heavily suppressed by various climbers emanating from group G63.	Fell and remove stump.	B1	20.0	2.5
T61		8	210	E:	2	1 south	Early							
101		0	210	S:	3	Branch:	mature							
				W:	3	2 average								
				N:	3	Crown:		Good		Stem has slight west lean. East		C1	8.9	1.7
T62	Walnut (Juglans regia)	7	140	E:	1	2 west	Semi mature		Fair	side of crown is slightly suppressed by G63. Reasonable overall condition.	Fell and remove stump.			
102		,	140	S:	2	Branch:								
				W:	3	2 west								
G63	Mixed (hazel, field maple, goat willow, Photinia, Norway maple)	2-8 average	Up to 150 average	-	-4 rage	0-3 average	Semi- early mature	Fair	Fair	Broad, largely unmanaged tree/shrub belt on site boundary. Multi-stemmed and ivy clad trees present. Some screening benefit.	Fell and remove stumps.	C2	10.2 average	1.8 average
T64	Goat willow (Salix caprea)	8	170, 80, 110, 140, 190	N: E: S:	4 3 3	Crown: 2 west Branch:	Early mature	Fair	Fair	Multi-stemmed from base. Broad, spreading growth habit. Crown reduced from third party building. Lower stems suppressed by G63.	Fell and remove stump.	C2	46.6	3.9
				W:	5	0 average								
	False acacia			N:	3	Crown:			Fair	No direct access to survey. Only viewed from parking area on Dugard Way.	Fell and remove stump.	C2	28.3	3.0
T 05	(Robinia pseudoacacia spp.)		250 est	E:	4	1 average	Semi							(amended
T65		6		S:	3	Branch:	mature	Good						on Tree Constraints
				W:	3	1 average								Plan)
	Falsa agasia			N:	3	Crown:		Good	Fair	No direct access to survey. Only viewed from parking area on Dugard Way.	Fell and remove stump.	C2	28.3	3.0
	False acacia (Robinia pseudoacacia spp.)			E:	4	1 average	Semi mature							(amended
T66		6	250 est	S:	3	Branch:								on Tree Constraints
				W:	4	1 average								Plan)

Survey date: 28/08/2018 (updated 15/10/2021)

Dugard Way

Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	sp	anch read m)	Crown clearance (m)	Age class	Physiologica condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
T67	White willow (Salix alba)	10	180 average x6 stems est	N: S: W:	7	Crown: 1 average Branch: 1 average	Early mature	Good	Poor	Third party tree. Multi-stemmed form. Stems conflict with adjacent metal fence. Wasp nest at base inhibits inspection of stems.	Fell and remove stump.	C2	87.9	5.3
Т68	Tibetan cherry (Prunus serrula)	4	140	N: E: S: W:	2	Crown: 2 average Branch: 2 average	Semi mature	Good	Good	Street tree in pedestrianised area. Crown lifted to 2m.	No action required.	C1+2	8.9	1.7



Appendix 3: Tree Retention & Protection Plan

PJC Ref: PJC/5926/21-01 Rev 01







PJC Consultancy Rocks Yard, Victoria Road, Herstmonceux, Hailsham, East Sussex, BN27 4TQ. t: 01323 832120 e: contact@pjcconsultancy.com w: www.pjcconsultancy.com



Key:

Root protection area for category B* tree to be retained



Root protection area for category C* tree to be retained



Canopy of tree to be retained



Canopy of category B* tree to be removed



Canopy of category C* tree to be removed



Canopy of category U* tree to be removed



Construction exclusion zone

* Tree categorised in accordance with BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'.

Tree Survey Schedule contained within the arboricultural report ref. PJC/5926/21-01 contains further information for each tree.

This drawing should be viewed in colour.

Tree numbers suffixed with PA indicate the tree position is approximate.

Drawing no: PJC/5926/21/B

Rev: - Sheet number: 2 of 2

Client and site:

Anthology Kennington Stage Ltd

Land at Dugard Way Lambeth SE11 4TH

Drawing title: Tree Retention and Protection Plan

Date drawn: 20/10/2021

Scale: 1:200 at A1

Drawn by: PD Checked by: LW





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