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Arboricultural
Impact Assessment & Method Statement
Report (BS5837:2012)

Site

Enderby Place
Christchurch Way
Greenwich
London
SE10

Client

Maritime View Ltd

Date of Report:

November 2023

Report Reference:

AIA/MF/0189/23

Report Prepared by:

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1.0 Instructions

1.1 This report has been commissioned by Maritime View Ltd to survey, assess and provide an Arboricultural Impact Assessment and Method Statement for the trees sited within close proximity of proposed development works at Enderby Place, Christchurch Way, Greenwich, London, SE10.

2.0 Introduction

2.1 A site visit was conducted on 30th October 2023 to survey and assess the trees. The weather at the time of inspection was mild with trees in autumn mode.

2.2 The tree survey, report and recommendations have been compiled for the 16 no. trees and 1 no. group (T1-T17) assessed within the site and neighbouring sites where relevant.

2.3 The details of the subject trees are set out in the Tree Survey Schedule within *Appendix A*. The trees were surveyed on the date and time shown above and the tree survey assessment information for the tree describing size, condition and surroundings are found within this appendix.

2.4 The trees located within the site are shown in tree survey drawings T001-T003, Appendix B, and these correspond to the tree survey results table, Appendix A. Photographs of the trees can also be found in Appendix C.

2.5 This report and the opinions within it have been produced by Marcus Foster, a qualified arboriculturist and Professional Member of the Arboricultural Association with over 20 years experience and holding a National Diploma in Arboriculture, the Arboricultural Association's Technicians Certificate, Professional Tree Inspection Certificate (LANTRA) as well as a degree in History and Society. Work experience within the industry includes work as a Contracts Manager for an Arboricultural Association Approved Company, a Local Authority Tree Preservation Officer and an independent Arboricultural Consultant. As a consultant many of projects undertaken are in the inner London Boroughs of Islington, Hackney, Westminster, Camden, Southwark and RBKC, making Marcus Foster familiar with the most recent requirements of development and constraints on urban trees.

3.0 Survey Details and Scope

3.1 The tree survey included the 16 no. trees and 1 no. group (T1-T17) as shown in the survey, *Appendix A*, and also highlighted on the site plans, *Appendix B*.

3.2 The following information was recorded for each tree and is shown in the Tree Schedule included in *Appendix A*:

- Number: an identity number which cross-references locations shown on the plan in Appendix A with the schedule in Appendix B.
- Species: listed by common names
- Tree Height: height in metres (m)
- Tree Spread: spread in metres (m)
- Stem diameter: measured in millimetres (mm) and taken at 1.5m above ground level
- Age Class: Y (young); EM (early-mature); M (mature); OM (over-mature)
- Vigour: G (good); F (fair); P (poor); D (dead)
- Structural Condition: G (good); F (fair); P (poor); D (dead)
- General Condition Specific comments relating to each tree
- Estimated Remaining Contribution (years)
- BS5837 Category Grading
- Protection Distance m2 Area (where applicable – BS5827: 2012)
- Protection Distance Radius (where applicable – BS5827: 2012)

3.3 Information recorded in the tree survey, *Appendix A* is expanded in the report findings and preliminary recommendations have been made in *Section 5*.

3.4 Findings as shown within *Appendix A* and assessed within *Section 5* are also highlighted within *Appendix B* which incorporates the Tree Constraints Plan (TCP) - drawing T002 addressing areas where arboricultural solutions are required. The Tree Protection Plan (TPP) - drawing T003 provides outline tree protection measures.

4.0 Survey Limitations

4.1 No soil excavations have been carried out.

4.2 This report only considers the trees and conditions at the time of inspection. As the inspection was only visual no guarantee can be given concerning the condition of the wood at present in any of the trees inspected and furthermore that no future problems or deficiencies may arise.

4.3 The survey has been undertaken as a survey of the trees without prior influence of the development and implicating factors.

4.4 No invasive tools were used during this site survey.

4.5 It should be noted that vegetation including shrubs within this / the neighbouring sites have not been included in the survey as none were within close or relevant proximity .

4.6 The survey has been undertaken from within the site only.

4.7 No additional documentation unrelated to the property or development has been referred to for the trees or the property for the compilation of this report.

5.0 Tree Survey Summary

5.1 The trees have been surveyed in accordance with BS5837: 2012 'Recommendations for trees in relation to construction' (BS5837: 2012) and have been rated as follows:

Category 'A' trees

Trees of high quality with an estimated remaining life expectancy of at least 40 years. Trees have been categorised as 'A' trees for one of the following reasons:
- Mainly arboricultural qualities
- Mainly landscape qualities
- Mainly cultural values including conservation

Within the Site Plan (Appendix B) those trees rated as 'A' category trees have a **green** outline as denoted within the site plan key / survey.

N/A

Category 'B' trees
Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. Trees have been categorised as 'B' trees for one of the following reasons
- Mainly arboricultural qualities
- Mainly landscape qualities
- Mainly cultural values including conservation

Within the Site Plan (Appendix B) those trees rated as 'B' category trees have a **blue** outline as denoted within the site plan key.

T1, T2, T3, t4, t5, T6, T7, T8, T9, T10, T12, T13, T14, T15

Category 'C' trees
Trees of low quality with an estimated remaining life expectancy of at least 10 years or young trees with a stem diameter below 150mm. Trees have been categorised as 'C' trees for one of the following reasons

- Arboricultural qualities - unremarkable trees of very limited merit
- Mainly landscape qualities
- Trees with no material conservation or cultural value

Within the Site Plan (Appendix B) those trees rated as 'C' category trees have a **grey** outline as denoted within the site plan key.

T11, G16, T17

Category 'U' trees
Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.Within the Site Plan (Appendix B) those trees rated as 'U' category trees have a **red** outline as denoted within the site plan key.

N/A

5.2 The trees have been surveyed taking into account condition, general health and form without the development process influencing the survey. In addition they have also been surveyed taking account of amenity value that is offered in relation to both the landscape and surrounding buildings and streetscape. This report outlines the impact that the proposed development will have on the overall treescape and landscape; it provides recommendations to ensure that long-term amenity value for the area is retained.

5.3 The report has been written with close reference to the British Standard Guidance, British Standard 5837: 2012 'Recommendations for trees in relation to construction' (BS5837: 2012), which addresses the juxtaposition between trees and structures. The Arboricultural Impact Assessment highlights areas where the trees will require protection which should be addressed within the Arboricultural Method Statement (AMS) and/or Tree Protection Plan (TPP) specific to the site and proposed scheme, and corroborating with all construction and landscape method statements as relevant.

5.4 The report specifies precautions which shall be taken when working close to retained trees. Important terms include:

Root Protection Area (RPA)
The area defined as requiring protection from development from retained trees within BS5837 (2012). Using a calculation provided within BS5837 a radius distance is provided based on a measurement of the main stem taken at 1.5m height.

Construction Exclusion Zone (CEZ)
This is the RPA where no construction activity should occur and damage is prevented by either installing fencing to restrict access or installing ground protection that allows limited access above the ground, while protecting the rooting environment below.

Due to site constraints and the encroaching nature of development for an area within the RPA outside the CEZ where works are proposed, works must be carried out with care to minimise any impact on the tree rooting environment.

Tree Protection Plan (TPP)
The document which defines the extent and methodology of tree protection for the entire development process. This should be referred to AT ALL TIMES by the principal contractor and shall ensure safe protection of all retained trees on site.

Precautionary Area
An area where works must be undertaken with direct consultation with methodology as specified within the AMS report and / or scheme of Arboricultural supervision

6.0 Arboricultural Impact Assessment

Site Overview

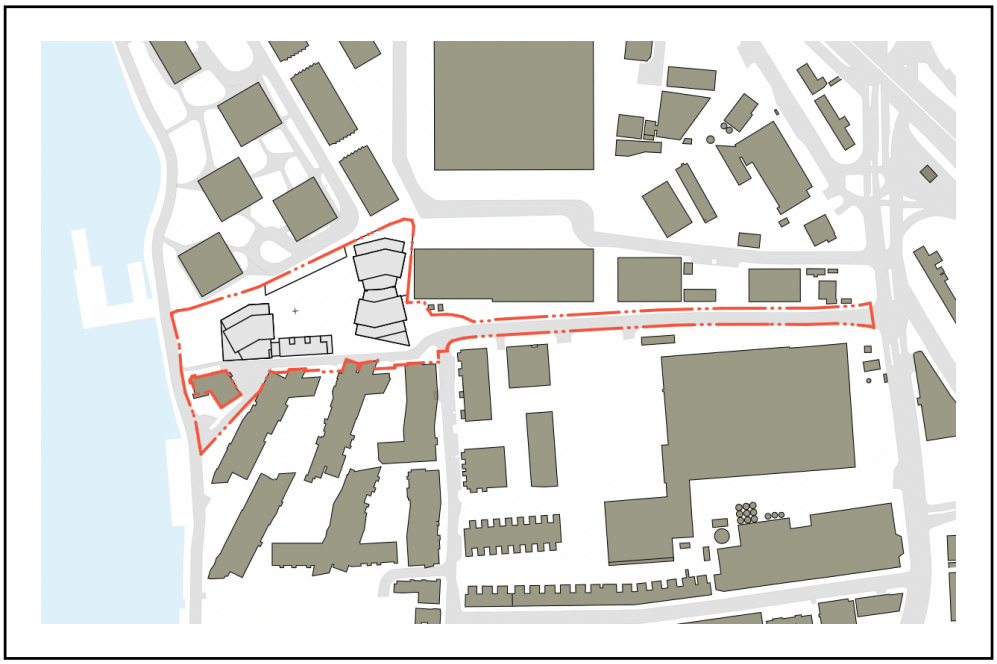
6.1 The 16 no. trees and 1 no. group (T1-T17) surveyed are located as follows:

Enderby Place: trees T1-T15
Land to north of Enderby Place: group G16 and tree T17

6.2. The following statutory checks have been made:

LOCAL PLANNING AUTHORITY
Royal Borough of Greenwich
CONSERVATION AREA STATUS
None applicable
TREE PRESERVATION ORDER (TPO) STATUS
None applicable
Check made online as follows 13/11/23:
11_09__2023__TPO_Cons_areas.pdf

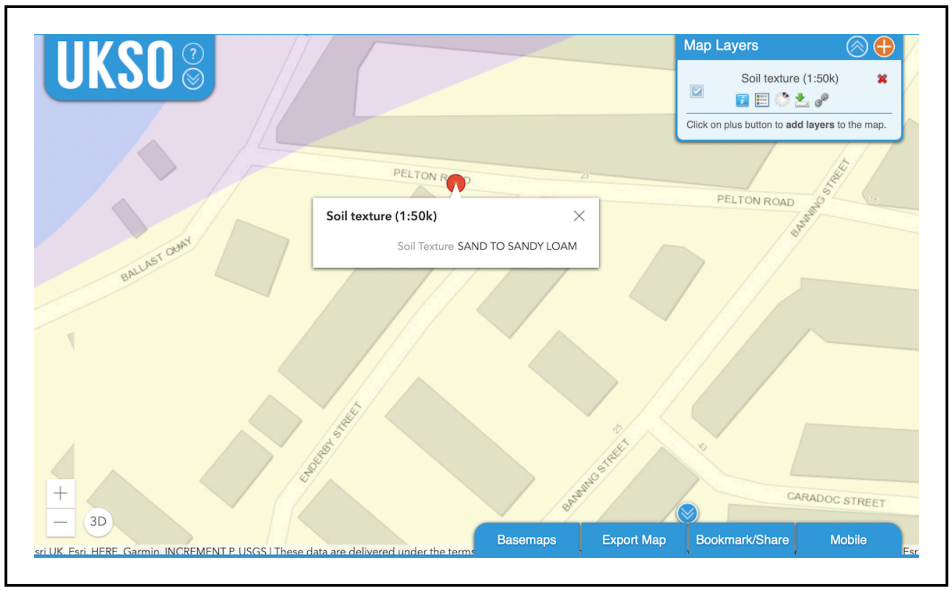
6.3 The site location is confirmed as below as extracted from planning drawings:



EXTRACT FROM: DWG REF: *1136_LP-100*

6.4 The underlying soil to this area is classified as 'sand to sandy loam' within the UK Soil Observatory (www.ukso.org) - a light to medium soil mix. The absence of a clay element within the soil is significant in terms of both tree protection and foundation design. Whilst clay soils can experience substantial volume changes when vegetation extracts moisture from the ground they are also prone to compaction when wet; the soil is deemed as being of light to medium texture with less susceptibility to compaction and volumetric change. Any foundations should also be designed in accordance with the recommendations contained within NHBC Chapter 4.2 (National House Building Council, 2010) and should account for the possibility of both subsidence and heave.

6.5 The soil profile is confirmed as below:



Extract from Soil Observatory - 05/11/23 - www.ukso.org

6.6 Development proposals are for development, refurbishment works and landscape updates to the commercial premises. For the purposes of this report, reference has been made to the following plans for the proposed development:

Topographical Survey
Ases
ASES - ENDERBY PLACE - TOPOGRAPHICAL SURVEY

Architectual Drawings
Buckley Yeoman Gray
DWG REF:1136_LP-100
1136_GA-01

6.7 The summary of arboricultural impact which shall be assessed is as follows:

- Retention of all trees retained
- Potential compaction and damage of the retained trees in relation to the development and landscape process
- Potential damage to canopies of the retained trees surrounding the site during development and landscape process
- The use of and storage of materials and chemicals on site within close proximity of the trees
- Impact of development upon trees via future occupancy / updated usage of the site
- Replacement tree planting strategy

6.8 The trees and the impact from the proposed development are evaluated within this section to determine overall arboricultural impact from the proposed development. Where trees are retained the Root Protection Area (RPA) for each tree is evaluated in relation to proposed development works. The following is assessed within this section:

(i) Where tree protection measures are deemed appropriate these are highlighted

(ii) No mitigation for tree loss is required to be assessed as no trees are proposed for removal

In amking the assessment reference is also made to the New London Plan, Chapter 8 Green Infrastructure and Natural Environment - Policy G5 Urban Greening (2021).

Arboricultural Impact Assessment

6.9 The trees sited within the subject site at and where adjacent / neighbouring are of the following species:

Acer campestre (Field maple)
Acer pseudoplatanus (Sycamore)
Betula utilis 'Jacquemontii' (Himalayan birch)
Pyrus calleryana 'Chanticleer' (Chanticleer pear)
Quercus palustris (Pin oak)

Arboricultural Impact Assessment - Trees Retained

6.10 For those trees surveyed, 16 no. trees and 1 no. group (T1-T17) within close proximity the potential impacts for individual trees are as follows:

(i) Construction of cycle storage structure within close proximity of the RPA for retained off site tree T15

(ii) Final landscape works generally within close proximity of the RPA for retained trees

(iii) Development process generally within close proximity of public realm trees

(iv) Impact of future occupancy from proposed works within close proximity of retained trees

6.11 Protection of all retained trees, is justified based on the following:

(i) Cycle storage structure above RPA is single storey and shall be constructed using tree protection measures

(ii) No arboricultural impact for those trees retained within the public realm evident of the site footprint to the west

(iii) No RPA incursion for retained trees to building footprint updates, final landscape works only adjoining western boundary trees to the public realm of the development proposal

(iv) Newly planted trees T1-T14 shall be outside of development footprint for construction works; incorporated within the public realm of development footprint for final landscapes / adjoining of public realm

6.12 In relation to future occupancy it is clear that the site shall not be detrimentally impacted from the shading of those trees retained due to current existence of trees and the fundamental usage of the site not changing where surrounding the trees. For tree T15 where the Sycamore tree's crown is sited above cycle storage structure, the green roof shall not be impacted due to crown lifted form and westerly aspect of tree's crown within the site.

6.13 The following tree protection measures shall be applied as specified within Section 6, AMS and the TPP which shall mitigate against any potential damage ensuring all trees remain protected:

(i) GROUND PROTECTION
Ground protection for RPA area exposed to construction works shall be implemented as shown within the AMS & TPP or as required during development process

(i) TREE PROTECTION FENCING
Retention of existing boundary treatment for T15

(ii) FACILITATIVE TREE WORKS
Protection of crown (T15); crown priuned back where overhanging site to provide clearance

(iii) PROTECTION FROM SITE STORAGE, INFRASTRUCTURE & WELFARE
Site storage, mixing of chemicals and site welfare shall be sited outside of the RPA of retained trees

(iv) PRECAUTIONARY AREA
For the precautionary area / RPA of T15 where construction of proposed cycle storage structure requires protection measures as outlined within the AMS (Section 6 of this report) & TPP a Precautionary Area shall be applied to protect the tree from the development process

Arboricultural Impact Assessment - Tree Removal

6.14 The proposed development requires loss of no trees. Whilst mitigation is not required the scheme shall enhance the green infrastructure of the site with a significant tree planting scheme which shall provide an important landscape feature for the long term and by incorporating a species mix and specification in accordance with the following:

- Climate change resilience
- Pest and disease resilience
- Implementation scheme to BS8545 (Trees: From Nursery to Independence in the Landscape, 2014)
- Aftercare and establishment programme

6.15 This planting scheme shall provide an uplift in tree planting across the site providing an improvement to amenity value and canopy cover for the long term. The proposal increases the canopy cover by greater than 10%, achieving and improving on the Greater London Authority's commitment to increasing tree canopy cover by 10 per cent by 2050[1].

[1] https://www.london.gov.uk/what-we-do/environment/parks-green-spaces-and-biodiversity/trees-and-woodlands/tree-canopy-cover-map

Summary of Arboricultural Impact

6.16 The proposed development requires tree protection measures and mitigation for the implementation of development as follows:

Tree Protection applicable to the following trees:
T1 - T17

Mitigation applicable for the removal of the following trees and shrubs:
N/A

6.17 The tree protection measures and tree planting shall scheme ensure that the development provides positive impact upon the amenity value, canopy cover of the site and biodiversity value for the long term.

6.18 In summary the arboricultural impact as outlined within drawing T003 - Tree Protection Plan (TPP): require the following tree protection measures and mitigation:

(i) TREE PROTECTION FENCING
(ii) FACILITATIVE TREE WORKS
(iii) PROTECTION FROM SITE STORAGE, INFRASTRUCTURE & WELFARE
(iv) GROUND PROTECTION
(v) PRECAUTIONARY AREA

6.19 This planting scheme shall provide an uplift in tree planting across the site providing a signifiacnt improvement aemnity value against previous hard standing across the site.

7.0 Arboricultural Method Statement

7.1 The following tree protection measures require close adherence AT ALL TIMES as outlined within this report. The measures are outlined within Tree Protection Plan (TPP) - drawing T003.

7.2 **Tree Works**

7.2.1 Tree Works included within Schedule of Works - Section 9 - shall be undertaken at pre-commencement stage.

7.3 **Tree Protection Fencing**

7.3.1 Protection of the trees highlighted for retention must be implemented as explained below and as specified within the TPP - drawing T003:

To provide Construction Exclusion Zone (CEZ). Specified as
(i) BS5837:2012 Figure 2 - see TPP & Appendix E
(ii) Basal Shuttering

7.3.2 These measures must remain for the entire construction process in order to provide a comprehensive barrier from the trees

- The area surrounding the trees must be surrounded by protective fencing as outlined in TPP - T003

- The protective fencing used must be suitable for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained trees.

- This barrier must remain rigid and complete during the entire construction process. Protection is not required surrounding entire trees where boundary treatments intervene in RPA's as the remainder of the root plate will remain unaffected by virtue of being located within the neighbouring properties

- Once the Exclusion Zone has been protected by fencing all weather notices as included in *Appendix D* must be put onto the barrier warning that the area is a construction exclusion zone.

- No heavy plant shall come into contact with any part of the canopies of the trees.

- No building materials or chemicals shall be stored within the tree protection zone as indicated on the TPP

7.4 **Ground Protection**

7.4.1 Ground protection shall be applied as specified within the TPP or where the tree protection fencing requires removal and with written consent of the Local Authority Tree Officer and/or appointed Arboricultural Consultant:

(i) Retention of existing hard landscapes
(ii) Ground protection
- Implementation of 75mm bark mulch layer overlapped with minimum 15mm plyboard surface or load bearing ground protection boards to provide ground protection for development process
- No storage of spoil within this area
- No storage of chemicals within this area

7.4.2 Ground protection may also be applicable for areas where tree protection is required but fencing is not achievable.

7.4.3 Where applied, ground protection shall be removed for final landscapes works within the RPA of retained trees.

7.5 **Storage of Construction site related materials, plant and spoil / Site Welfare & Site Office**

7.5.1 A designated storage area / site welfare & office shall be ocated outside of the RPA of retained trees and within existing hard standing. Strict adherence to this area must be made to this area and any amendment would require written consent from the tree officer.

7.5.2 Site welfare and the site office shall be located outside of the RPA of retained trees. Strict adherence to this area must be made to this area and any amendment would require written consent from the tree officer.

7.6 **Precautionary Area**

7.6.1 For the 'Precautionary Area' / incursion within RPA of retained trees Precautionary Areas denoted within the TPP highlight where the following works are required:

(i) REMOVAL OF EXISTING CONCRETE GROUND SLAB
The 'breaking up' of any surface may be carried out by low impact pneumatic tools only or by hand where possible – not breakers attached to diggers or JCB's, unless required due to the nature of the surface and if so, only when agreed with the consulting arboriculturist

(i) GROUND WORKS - Tree T16

All excavations undertaken in accordance with pre-commencement AMS which shall corroborate with structural engineering methodology and Construction Management Plan with hand dug excavations for this area for upper 600mm to ensure tree root damage does not occur and where required is mitigated

7.6.2 BS5837 (2012) makes provision for undertaking excavations in RPAs, explaining that all excavation must be carried out carefully using spades, forks and trowels, It is important not to damage the bark and wood of any roots. For this area, these tools should be used with no machinery used for the preliminary works.

7.6.3 For this area the following shall apply:

- All works within precautionary area highlighted within 'Toolbox Talk'
- With all below ground level works for this area undertaken by hand, the severance of any larger roots encountered up to 25mm diameter should then be undertaken by the supervising arboricultural consultant to ensure clean severance
- The supervising arboriculturist shall provide guidance and consultation during this stage of the ground works AT ALL TIMES

7.6.4 For undertaking excavations within the precautionary area guidance is applicable

Tree Root Severance Guidance

The contractors must be aware of tree protection guidance in relation to tree roots which must be applied as follows:

- The severance of any tree roots encountered larger than 25mm in diameter MUST NOT occur without prior consultation with the Local Authority Tree Officer or appointed Arboricultural Consultant.
- If at any point it is deemed not possible to continue with excavations without having to damage very significant tree roots, the Local Authority Tree Officer and / or the appointed Arboricultural Consultant must be contacted.

The following tools shall be applicable for such works:

7.7 **Final Landscape Works**

7.7.1 For final landscaping works the following must apply where carried out within the RPA of retained trees

- No reduction in levels of the underlying soil surface will occur during final landscaping works within the RPA of retained trees
- Close adherence with detailed root protections specifications as outlined within this report
- No compaction of soils for establishing level base

7.7.2 No soakaway shall be sited within the RPA of retained trees

7.8 **Installation of utility services**

7.8.1 The installation and/or amendment of utility services within the RPA of retained trees is not required. However where an amendment is required and utilities are required within the RPA of any retained tree the consulting arboriculturist and Local Authority must be notified prior to any ground tree protection / fencing and barrier removal and the following details adhered to:

- Trenching for the installation of underground services severs any tree roots present and can have a detrimental impact on the structural integrity of affected trees. When services are required to pass through a Tree Protection Area / CEZ, detailed plans showing proposed routes should be drawn up in conjunction with the consulting arboriculturist to avoid long term problems for related trees.

- The preferable method for trenching is to use a 'Air Spade' or similar to remove soil with compressed air, therefore minimising damage to roots in the process. Should hand dug excavations be required within the RPA this shall only be undertaken with arboricultural supervision.

7.8.2 Further reference can be made to National Joint Utilities Group (Volume 4, Issue 2) for guidance but any approach must be approved by both the consulting arboriculturist and Local Authority tree officer.

7.9 **Fires**

7.9.1 There must UNDER NO CIRCUMSTANCES be fires within this site.

8.0 Communication, Monitoring and Compliance

8.1 In ensuring that all Tree Protections Specifications as highlighted within this AMS are closely adhered to at all times, it is important to set out for the long term of the development, communication details for key individuals and tasks that require monitoring.

8.2 For all tree protection measures these must be considered as sacrosanct and should not be removed or altered without prior written consent from the Local Authority tree officer and/or consulting arboriculturist.

8.3 The local authority arboriculturist will have free access to the site and forward any concerns / recommendations directly to the consulting arboriculturist.

8.4 The following individuals and organisations are central to the delivery of the scheme in relation to the tree protection measures it requires:

CONSULTING ARBORICULTURIST
Name - Marcus Foster MArborA
Telephone - 07812024070
Contact - Marcus Foster
Email - mail@marcus-foster.com

ROYAL BOROUGH OF GREENWICH- TREE OFFICER
Name - Arboricultural Services - Tree Officer Strategic Planning
Address - 6th Floor Crown Building, 48 Woolwich New Road, SE18 6HQ
Telephone - 020 8921 5661
Contact - Debi Rogers
Email - debi.rogers@royalgreenwich.gov.uk

9.0 Tree Works Schedule

9.1 Any tree work shall be carried out to BS 3998; 2010 Recommendations for Tree Work.

9.2 Tree works shall be undertaken at pre-commencement stage.

TREE WORKS SCHEDULE: Enderby Place, Christchurch Way, Greenwich, London, SE10				
Tree No.	Common Name	BS5837 Category	Tree Works	Reasons for works
T15	Sycamore	B	Crown lift to 5.0m height for western crown	To facilitate development

NOTE: Wildlife & Habitat Protection Guidelines
The tree work specifications included within this report do not provide an exemption from the requirements to comply with the Wildlife and Countryside Act 1981, the Habitats Regulations 1994 and the Countryside and Rights of Way Act 2000, or any acts offering protection to wildlife. Of particular note is the protection offered to bats, birds and their nests, whilst being built or in use. It must be noted that failure to comply with the Acts may result in a criminal prosecution.

Appendices

Appendix A

Tree Survey Schedule
(BS5837:2012)

Enderby Place
Christchurch Way
Greenwich
London
SE10

Colour Key: BS5837: 2012 (see Section 3.6)

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

BS5837:2012 TREE SURVEY
SITE: Enderby Place, Christchurch Way, Greenwich
SURVEY DATE: 30.10.23

Tree No	Species	Height (m)	DBH (mm)	Spread (m) N/E/S/W	Age	Structural Condition	Vitality	BS5837 (2012) Rating	Remaining Contribution (years)	Comments / Structural Condition	First branch height (m)	First canopy height (m)	Root Protection Area (RPA) m2	Root Protection Area (RPA) Radius (m)
T1	Field maple	6	160	2 2 2 2	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	11.58	1.9
T2	Field maple	6	160	2 2 2 2	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	11.58	1.9
T3	Pin oak	6	140	2 2 2 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	8.87	1.7
T4	Pin oak	6	140	2 3 2 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	8.87	1.7
T5	Chanticleer pear	7	120	1 2 1 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	6.52	1.4
T6	Chanticleer pear	6	120	1 1 1 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	6.52	1.4
T7	Chanticleer pear	7	120	1 1 1 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	6.52	1.4
T8	Chanticleer pear	7	160	1 2 2 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	11.58	1.9
T9	Chanticleer pear	7	160	1 2 2 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	11.58	1.9
T10	Chanticleer pear	7	160	1 2 2 1	SM	G	F	B1	20+	Planted within past 2-4 years. Sited within soft landscape verge. Developing form	2.5	2.5	11.58	1.9
T11	Himalayan birch	5	80	1 1 1 1	Y	F	F	C1	10+	Supressed; growing to north. Planted within past 1-3 years	1.5	1.5	2.9	1.0

Tree No	Species	Height (m)	DBH (mm)	Spread (m) N/E/S/W	Age	Structural Condition	Vitality	BS5837 (2012) Rating	Remaining Contribution (years)	Comments / Structural Condition	First branch height (m)	First canopy height (m)	Root Protection Area (RPA) m2	Root Protection Area (RPA) Radius (m)
T12	Chanticleer pear	6	120	1 1 1 1	SM	F	G	B1	20+	Columnar; planted within past 2-5 years. Sited within soft landscape verge	2.5	2.5	6.52	1.4
T13	Chanticleer pear	6	120	1 1 1 1	SM	F	G	B1	20+	Columnar; planted within past 2-5 years	2.5	2.5	6.52	1.4
T14	Chanticleer pear	6	120	1 1 1 1	SM	F	G	B1	20+	Columnar; planted within past 2-5 years	2.5	2.5	6.52	1.4
T15	Sycamore	16	500 (e)	7 5 2 6	EM	F	G	B1	20+	Off site to south. One-sided crown to north. Pruned heavily to south with no overhang to warehouse structure. Overhang to site (northern crown) of 6m branch lengths at 4-10m height	4.0	4.0	113.11	6.0
G16	Sycamore	9	M/s 150 (e)	3 3 3 3	SM	F	F	C1	10+	Off site within upper retained topography. Overhang to site of 1-1.5m branch lengths at elevated site 6.0m above level of subject site	3.0	3.0	10.18	1.8
T17	Goat willow / Sycamore / Ivy	6	M/s 100 (e)	/	Y	F	F	C1	10+	Off site within upper retained topography. Climber clad, retained at off site location. Limited overhang to site	1.0	1.0	/	1.0

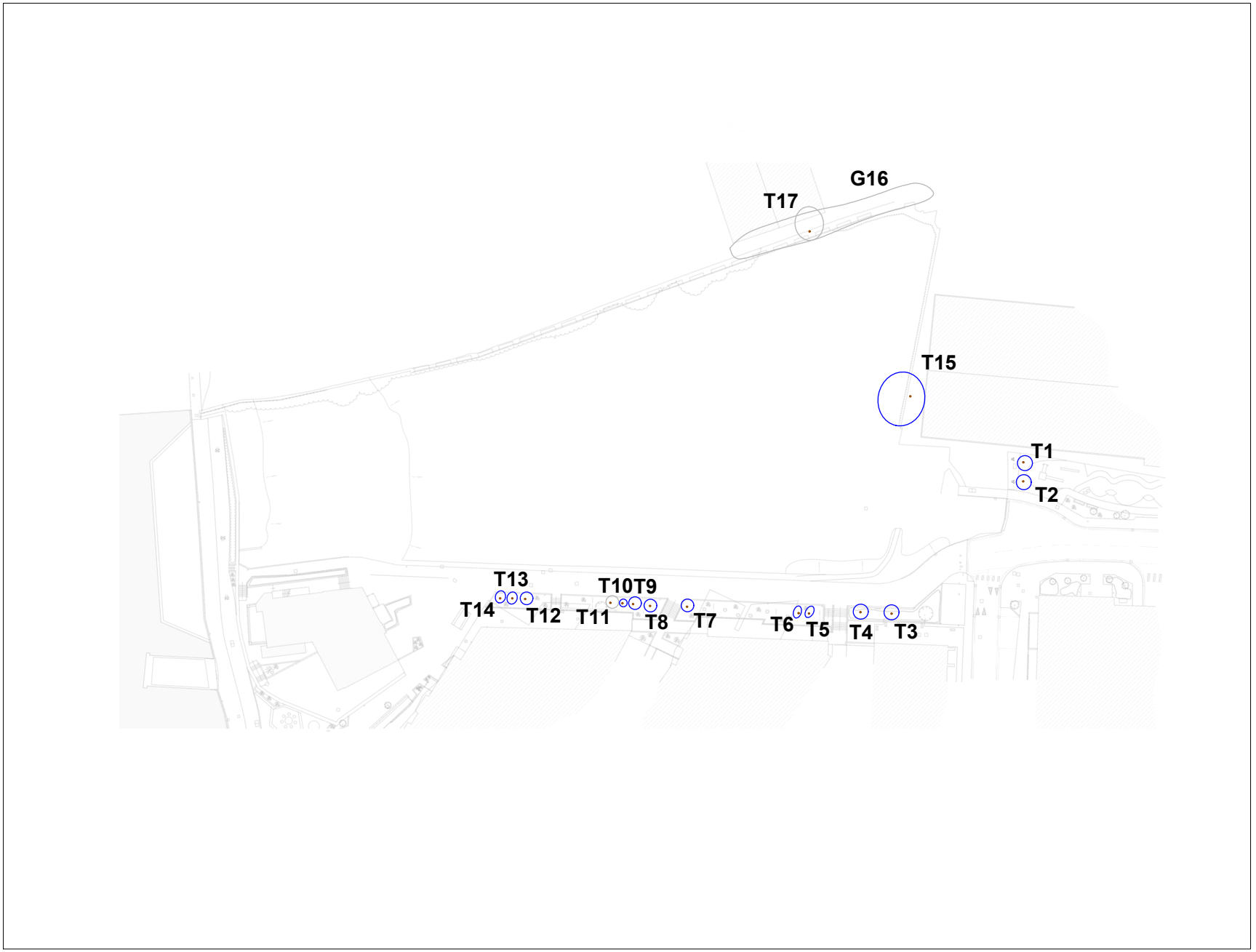
Appendix B

Existing Tree Survey (T001)
Tree Constraints Plan (T002)
Tree Protection Plan (T003)
(BS5837:2012)

Enderby Place
Christchurch Way
Greenwich
London
SE10

Colour Key: BS5837: 2012 (see Section 3.6)

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



KEY

	CATEGORY A
	CATEGORY B
	CATEGORY C
	CATEGORY U
	TREES REMOVED
	RPA
	RPA INCURSION
	SHADING ARC

BS5837 (2012) Tree Survey Notes

1. In accordance with BS5837(2012) this drawing is a colour coded schedule and should not be read in black and white

2. If received electronically it is the recipients responsibility to print this drawing to correct scale. Only written dimensions should be used where not printed to scale.

3. This drawing should be read in conjunction with all other relevant drawings and specifications

4. Marcus Foster Arboricultural Design & Consultancy accepts no liability for any use of this document other than by its client and only for the purposes for which it was prepared and provided

5. Off site trees have been plotted based on site visit survey and locations are not based upon topographiccal survey

NOTE: Tree survey locations based on previous undertaken topographical surveys for design issue and additional GIS mapping has not been undertaken for the purposes of this survey All off site trees where not plotted within topographic survey information are plotted using on site survey tools from within the site only.

Revisions

Rev.	Date		Checked

JOB TITLE **Enderbery Place**

DWG TITLE **Existing**

SCALE **1:800 @ A3**

DATE **NOV 2023**

JOB NO **AIA/MF/0201/23**

DWG NO. **T001**

0 5 10 20 30 40m

N

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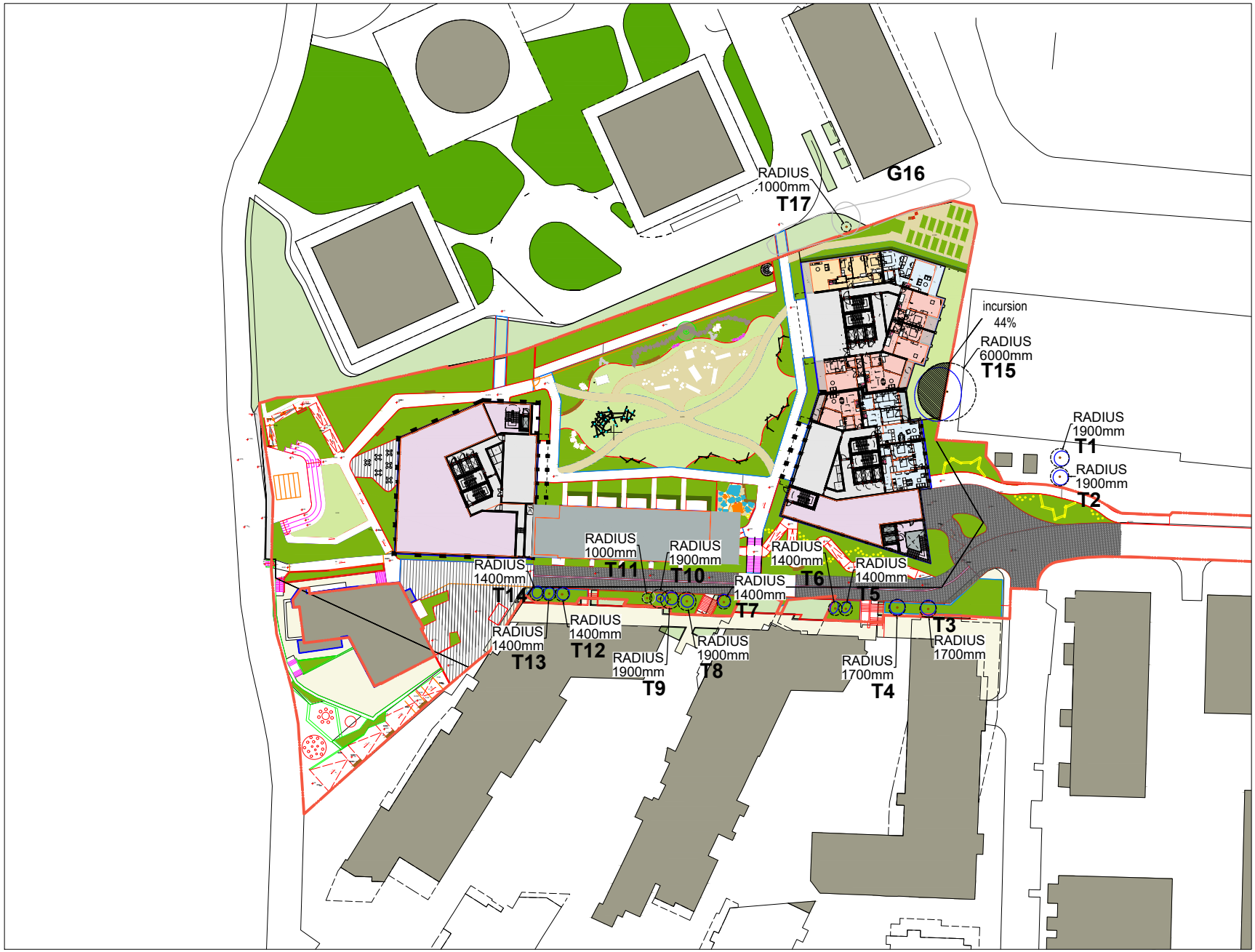
TREE CONSULTANCY



KEY

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Revisions

Rev.	Date		Checked

JOB TITLE: Enderbery Place

DWG TITLE: Tree Constraints Plan (TCP)

SCALE: 1:800 @ A3

DATE: NOV 2023

JOB NO: AIA/MF/0201/23

DWG NO.: T002

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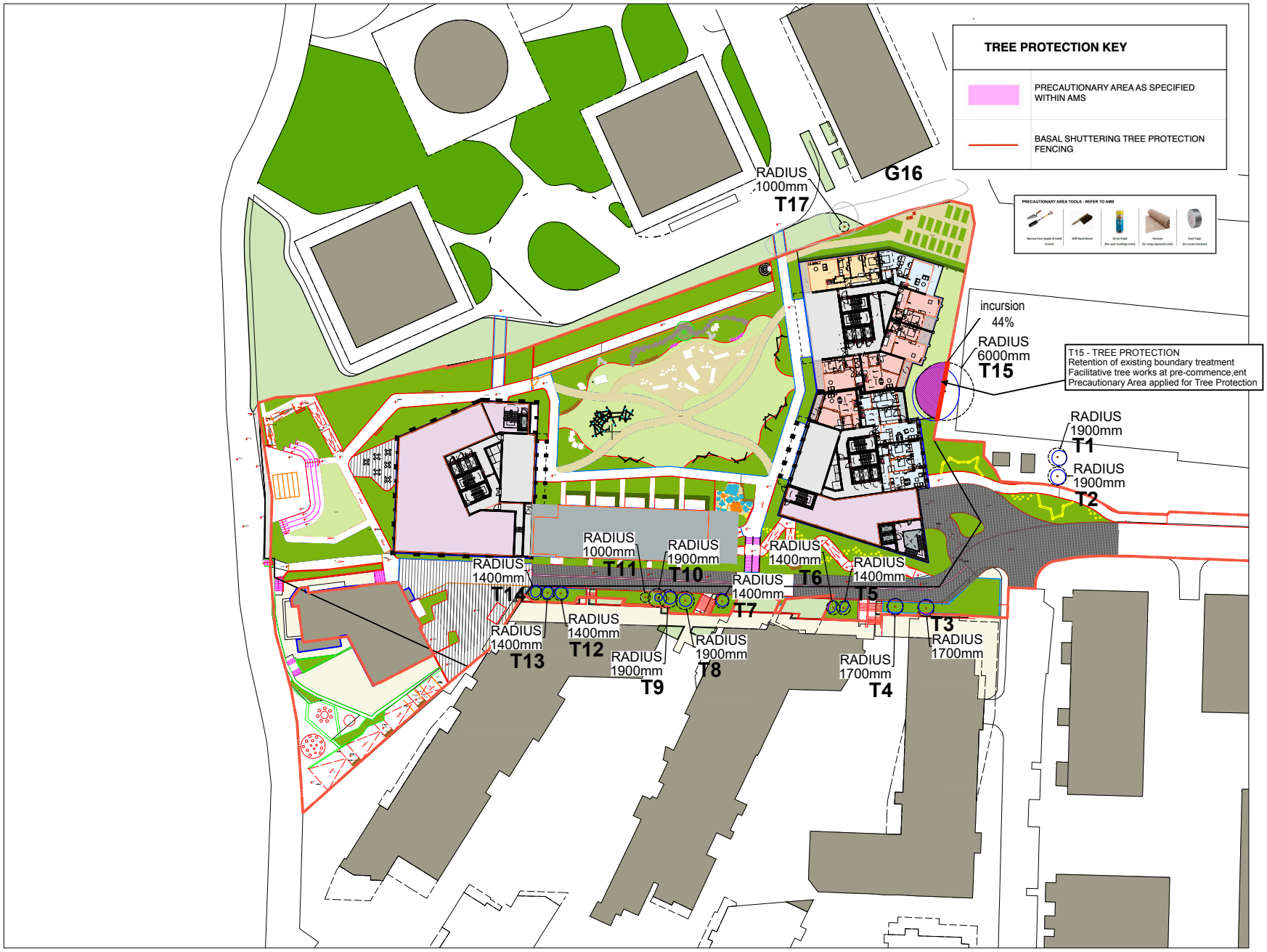

KEY

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	CATEGORY B
	CATEGORY C
	CATEGORY U
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Revisions

Rev.	Date		Checked

JOB TITLE **Enderbery Place**

DWG TITLE **Tree Protection Plan**

SCALE **1:800 @ A3**

DATE **NOV 2023**

JOB NO **AIA/MF/0201/23**

DWG NO. **T003**

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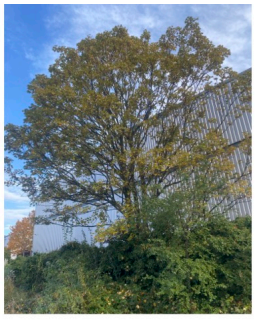
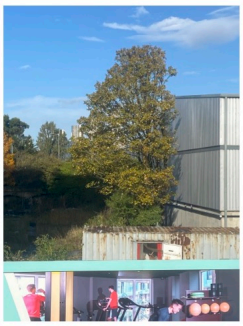
Appendix C:
Tree Survey Photographs

Enderby Place, Christchurch Way, Greenwich
London, SE10

Overview of site and T15 viewed to north


T15 viewed to east

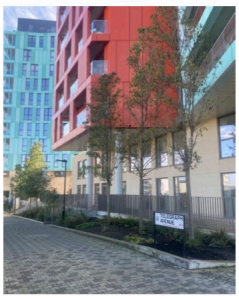

Overview of site viewed to south east

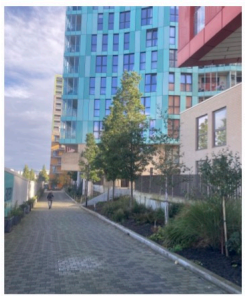

T15 viewed to north

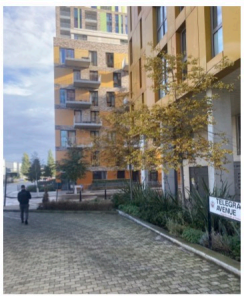

T15 viewed to north west


T1 & T2 viewed to north


Overview of site and G16 / T1 viewed to north


Southern boundary trees T12-T14


Southern boundary trees T8-T10


Southern boundary trees T3-T4


Overview of site viewed to west

Taken by M Foster_ October 2023

Appendix D:
Tree Protection Notice

Generic Tree Protection Notice
(BS5837: 2012):

Notice to be clearly shown on site where fencing constructed
AT ALL TIMES

Appendix E
Tree Protection Fencing Specifications

BASAL SHUTTERING FENCING SPECIFICATION

BASAL SHUTTERING

Specification of Basal Shuttering Tree Protection

The fencing must fully enclose the main stem and initial buttress roots of the tree by being constructed as a self supporting structure to the following specifications:

Plywood Specification: 25mm thickness, external grade
Supporting Structure: 4" x 2" softwood timbers to form structure within shuttering
NOTE: - No ground supports permitted
Structural integrity of structure to be determined by building contractor and approved by supervising arboriculturilt
Tree Protection Fencing Notices: 5 x Notices

Example of Basal Shuttering Tree Protection

Appendix F: References

1. BS5837: British Standard: Trees in relation to construction - Recommendations, British Standard (2012)

2. Principles of Tree Hazard Assessment and Management, Lonsdale, D. (Department for Transport, Local Government and the Regions, 1999)

3. The Body Language of Trees, Mattheck, C. and Breloer, H. (HMSO, 1994)

4. Trees in Britain, Philips, R. (Pan Books, 1978).

5. Diagnosis of Ill Health in Trees, Strouts, R. and Winter, (TSO, 1994)

6. National Planning Policy Framework February 2019 Ministry of Housing, Communities and Local Government

7. NJUG Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees (Issue 2), (November 2007)

8. New London Plan, Chapter 8 Green Infrastructure and Natural Environment - Policy G5 Urban Greening (2021)

PREPARED BY MARCUS FOSTER MArborA
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