ARBORICULTURAL IMPACT ASSESSMENT

Site:

Camley Street Natural Park
12 Camley Street
London
N1C 4PW

Presented to:

Randall Surveys LLP

By:

Landscape Planning Limited
2 The Courtyards
Wyncolls Road
Colchester
CO4 9PE

30/05/2017

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1.0 EXECUTIVE SUMMARY

1.1 The site is currently a nature park with a visitor centre, access drive, small areas of woodland, grassland and a large pond towards the southern part of the site.

1.2 The trees on the site are generally classed as early mature to occasional mature and are mainly contained within groups with few individuals. The site has a high amenity value in the street and local area, and along the adjoining Regents Canal.

1.3 The development proposal is to replace the existing visitor centre with a new centre on a slightly larger footprint with a large canopy overhang to link to the adjoining Regent Canal to the east.

1.4 Within the south west section of the site are two small areas of Japanese Knotweed (S1, S2), and an area along the canal bank (G1) also contained Japanese Knotweed. These should be the subject of further investigations.

1.5 The main tree-related issues for this site include the following:

- Tree protection measures, which include temporary ground protection and fencing for the western group (TG6) adjoining the entrance to the site and the eastern boundary trees adjoining the canal (T60 – T63).

- Felling of eleven trees and small sections of tree groups (TG6 and TG4) on-site is required due to either their poor condition and / or conflict with the development proposal. Mitigation for these would be in the form of replacement landscaping as part of the management plan for the site.

1.6. A summary of the affected trees is detailed in the table below:

Impact	Reason	A	B	C	U
Trees to be removed	To facilitate the development or due to their condition (U cat)	None	None	T125, T139, T64, T65, T70, T71, T72, T79, T81, TG4, TG6	T66, T67, T68, T69, T76, T104, T105, T119, T147, T148, T151
Trees with RPA encroachment	To facilitate construction			TG6	
Retained trees to be pruned	To address identified defects / facilitate construction	None	None	None	

Project Team Contacts List

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David Damant David.Damant@RandallSurveys.co.uk	Randall Surveys LLP		T: 01787 227580

2.0 REPORT PROCEDURES

2.1 This Report has been prepared in accordance with Landscape Planning Ltd's quality system procedures as follows:

Methodology relating to Arboricultural Impact Assessments

2.2 File creation, field survey, data capture procedures and report production follow the specific methodologies, technical approach and quality systems of Landscape Planning Ltd. The aim is to provide "fit for purpose" deliverables based on the client brief. Our approach broadly follows the guidance contained in "Trees in relation to demolition, design and construction – Recommendations" (BS5837:2012); however, the use of any terms or concepts contained therein does not imply Landscape Planning Ltd's acceptance of their accuracy or scientific validity, and the use of any section or concept contained within the standard is on the principle of its advisory status as guidance.

Report and Findings

2.3 The Report and Findings have been quality checked prior to issue to the client.

Signed,

Paul Allen **Dip Arb (RFS) MICFor**
Principal Consultant
Landscape Planning Ltd

Dated: 30/05/2017

3.0 PREFACE

The Scope of Survey and Reporting

3.1 Landscape Planning Ltd has surveyed the key trees on and adjacent to the site and has provided guidance within this report on the measures necessary to ensure successful tree retention during any development, with recommendations for tree removal and / or tree works as necessary. The scope was as follows:

3.2 To visit the site and complete a survey of trees, shrubs, hedgerows and other vegetation that may materially be of interest relative to development proposals.

3.3 To assess the likely impacts of the development on the trees and make 'in principle' recommendations relating to tree removals, tree retention, and tree protection during development.

3.4 To carry out an arboricultural impact assessment on the effect of the new development at the site, identifying the Construction Exclusion Zones (CEZ) that are shown on the Tree Protection Plan (TPP). This plan will also show the locations for tree protective fencing and any temporary ground protection required, as well as identifying 'No-Dig' zones for any RPAs shown to be outside of CEZs.

3.5 To produce a Tree Constraints Plan (TCP), showing the locations of surveyed trees, their BS5837:2012 categorisation, the theoretical Root Protection Areas (RPAs) and any shading arcs required to be shown for those trees south of the development window.

3.6 To make any other observations or recommendations required based on the survey.

4.0 PLANS AND REFERENCE DOCUMENTS

4.1 BS5837:2012 'Trees in relation to design, demolition and construction – Recommendations'

4.2 BS3998:2010 'Tree work – recommendations'

4.3 NJUG 4 – National Joint Utilities Group "Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees. Volume 4, issue 2. London: NJUG 2007"

4.4 Information from the Camden Council local plan and website

4.5 BGS Open Source Soil Data http://www.bgs.ac.uk/nercsoilportal/maps.html

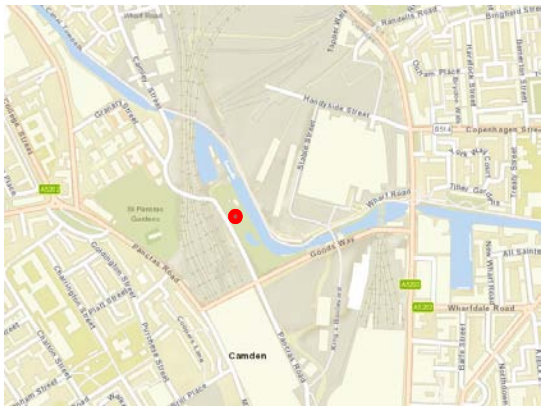
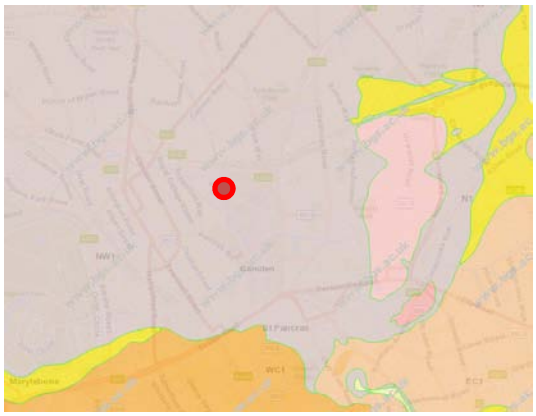
4.6 We understand that the scheme is currently at the pre-application stage.

5.0 DESCRIPTION OF SITE GEOLOGY

5.1 The site consists of a woodland belt around the site, amenity areas, a visitor centre, and a large pond. The site slopes downhill slightly to the south, with a pond which is divided in two at the southern end by a timber platform. The existing property on the site is a visitor centre with hard standing and informal planting around the centre.

5.2 The immediate and distant landscape character is city centre urban with St Pancras railway station opposite the site to the west and Regents Canal adjoining the site to the east. Beyond are a new high rise office block and residential apartments.

5.3 The topography of the site is generally level due to the adjoining canal; however, in the western side of the site, the site and road fall downhill to the south.

13. Site Location (OS)	14. Site Location (BGS Soil)
	

British Geology Survey (Online) – Soils Summary

London Clay Formation - Clay, Silt And Sand.

(http://www.bgs.ac.uk/nercsoilportal/maps.html)

5.4 The underlying site soil has been identified as CLAY, and great care should therefore be taken to ensure no compaction of the soils occurs within the identified RPAs, as this soil type is less favourable to tree root growth / moisture movement and aeration.

5.5 All comments regarding soils should be verified with on-site geotechnical investigations and laboratory testing, with foundation depth and design determined by a structural engineer in accordance with the requirements of NHBC Chapter 4.2.

6.0 THE TREES

6.1 There were 190 individual trees and 10 groups surveyed on-site or immediately adjacent to the site boundary.

6.2 By BS5837:2012 Categorisation, the trees can be summarised as follows:

BS 5837 Cat	A	B	C	U
Specific Trees	None	T1, T5, T25, T26, T116, T154, T158, T177	T2, T3, T4, T6, T7, T8, T9, T10, T11, T12, T13, T14, T15, T16, T17, T18, T19, T20, T21, T22, T23, T24, T27, T28, T29, T30, T31, T32, T33, T34, T35, T36, T37, T38, T39, T40, T42, T43, T44, T45, T46, T47, T48, T49, T50, T51, T52, T53, T54, T55, T57, T58, T59, T60, T61, T62, T63, T64, T65, T70, T71, T72, T73, T74, T75, T77, T78, T79, T80, T81, T82, T83, T84, T85, T86, T87, T88, T89, T90, T91, T92, T93, T94,	T41, T56, T66, T67, T68, T69, T76, T104, T105, T119, T147, T148, T151

BS 5837 Cat	A	B	C	U
			T95, T96, T97, T98, T99, T100, T101, T102, T103, T106, T107, T108, T109, T110, T111, T112, T113, T114, T115, T117, T118, T120, T121, T122, T123, T124, T125, T126, T127, T128, T129, T130, T131, T132, T133, T134, T135, T136, T137, T138, T139, T140, T141, T142, T143, T144, T145, T146, T149, T150, T152, T153, T155, T156, T157, T159, T160, T161, T162, T163, T164, T165, T166, T167, T168, T169, T170, T171, T172, T173, T174, T175, T176, T178, T179, T180, T181, T182, T183, T184, T185, T186, T187, T188, T189 and T190	
Total Number	0	8	169	13

6.3 By group and woodland area, there were 10 'C' category groups. In total, there were 13 'U' category individual trees that were identified as being in poor condition or dead / in decline with less than ten years' useful life expectancy. These should be felled and replaced, regardless of any impact of the development proposal.

6.4 These trees' locations and a summary of their visual contributions can be summarised as follows:

BS 5837 Cat	A	B	C
Northern Boundary	N/A	N/A	N/A
Western Boundary Contributing to the general landscape character for views of the general street scene of Camley Street	/	/	T162 - T190, TG9, TG6
Eastern Boundary Contributing to the general street scene from rom the Regents Canal	/	/	T19 - T69, TG1 - TG5,
Southern Boundary Contributing to the street scene from corner of Camley Street and Goodsway	/	T1, T158, T5	T2 - T19, T159 - T162 TG1, TG9

Our detailed check with the Local Planning Authority has confirmed that the following trees are subject to a planning condition protection:

Camley Street Natural Park

2012/4539/P

- Development Description - Installation of two timber structures to house anaerobic digestion system following demolition of existing storage sheds to the rear elevation of visitor centre and the installation of 15 solar panels to roof of the visitor centre.
- Application Decision Date - 30/10/2012
- Planning Condition - Condition 4

  All trees on the site, or parts of trees growing from adjoining sites, unless shown on the permitted drawings as being removed, shall be retained and protected from damage to the satisfaction of the Council. The trees shall be retained and

protected on site during construction work in accordance with the recommendations of the Arboricultural Report by Think Trees dated 1508/2012 hereby approved, and shall follow guidelines and standards set out in BS5837:2012 "Trees in Relation to design, demolition and construction".

Reason: To ensure that the development will not have an adverse effect on existing trees and in order to maintain the character and amenity of the area in accordance with the requirements of policy CS15 (Protecting and improving our parks and open spaces and encouraging biodiversity) of the London Borough of Camden Local Development Framework Core Strategy.

Condition Status - No requirement to discharge, compliance condition.

6.5 In addition, we note that the site contained three areas of Japanese Knotweed, located within the site (S1and S2) and along the boundary of the canal (G1).

7.0 ARBORICULTURAL IMPACT ASSESSMENT

7.1 Tree Removals

7.1.1 The following trees will be removed to facilitate the development:

BS 5837 Cat	A	B	C
Tree to be removed	None	None	Small Sections of TG4 and TG6. T64, T65, T70 - T72, T79, T81
RPA Incursion	None	None	None

7.1.2. Every effort has been made to reduce the number of trees removed from the site. The majority of works are, however, of low landscape significance and within the site. The area along the canal can be adequately mitigated as part of the overall landscaping of the site.

7.1.3. Recommended tree works are detailed within the Tree Works Schedule at Appendix 5.

7.2 Root Protection Area (RPA) Incursions

7.2.1 The following incursions into the RPAs of trees to be retained have been identified:

BS 5837 Cat	A	B	C	Summary
RPA Incursion	/	/	Small section of TG6 and TG4	Limited to trees closest to the new hard standing outside of the new centre.

7.3 Foundations

7.3.1 The foundations of the proposal are not shown, within the current information, to encroach into the RPA of trees retained around the construction zone. Please refer to the Tree Protection Plan for further information.

7.4 Hard Surfaces

7.4.1 The development requires the installation of new surfaces within the RPA of a small section of TG6 within the site adjoining the frontage of the new building. Where existing hard surfaces are to be replaced within the RPAs of trees that are to be retained, they should be removed by controlled methods to avoid compaction of the underlying ground and direct damage to roots.

7.4.2 To minimise the disruption on the retained trees, it is proposed that a 'reduced / no-dig' surface is installed in the areas indicated on the Tree Protection Plan. These surfaces sit above ground level after surface vegetation removal and ensure that no tree roots are severed during their installation.

7.4.3 Ideally, the profile of new surfaces within the RPAs of trees to be retained should be kept within the depth of profile for existing surfaces. Where existing profile depths are insufficient or there is no existing hard surface, the depth of sub-base to hard surfaces might be minimised by use of a 3D cellular confinement or plastic crate system, e.g. ProtectaWeb, details of which are included at Appendix 9.

7.4.4 Please refer to the accompanying Site Specific Method Statement, usually produced as a result of a tree related condition of planning approval, for full details on the proposed installation.

Figure 1. – Photographs of reduced-dig 3D webbing and 'ArborRaft' crate system ground protection.

7.5 Services

7.5.1 The route of any services needs to be carefully considered so as to avoid unnecessary encroachment into retained trees' RPAs. Our site assessment has confirmed that the main services used currently approach the development area from Camley Road. This will need to be confirmed by a future on site investigation.

7.6 Ground Levels

7.6.1 No changes to existing ground levels are proposed within the RPAs of retained trees.

7.7 Shading

7.7.1 Trees to the east and west of the proposal have the capacity to cast shade on the development, but no more than is currently experienced by the current building.

7.8 Site Supervision / Monitoring

7.8.1 Most damage to trees on development sites is caused inadvertently, and to ensure continued protection during development, a system of site monitoring is proposed.

7.8.2 Basic checks will ensure that protective fencing remains intact. Any unforeseen issues can also be identified and discussed before damage to the tree(s) occurs.

7.8.3 The number of proposed visits is driven by the scale of the proposal.

7.8.4 A more detailed explanation of what will be assessed during the proposed monitoring visits is contained in Appendix 6.

7.9 Demolition

7.9.1 Demolition of existing structures should take care not to cause damage to adjacent trees. This is particularly the case in respect of trees T63 and the remaining sections of TG4 and TG6, which cannot be adequately protected by fencing prior to demolition. Fencing in the vicinity of these trees, as shown on the tree protection plan, should be erected at the earliest opportunity following removal of the adjacent structures. Machinery shall be restricted to operating from areas outside of the RPAs of trees to be retained. Care shall be taken to ensure vehicle cabs and hydraulic arms, etc. do not cause impact damage to adjacent trees. Where appropriate, this may require the use of a banksman.

7.9.2 Where practicable, existing buildings should be demolished onto their own footprints in order that there is no compaction of the RPAs of trees to be retained. Where possible, any existing foundations within the RPAs of trees to be retained should be retained in order to avoid disturbance of roots; however, where removal of foundations within the RPAs of trees to be retained is required, care shall be taken to limit the extent of disturbance to surrounding soil. Suitable techniques include removal using hand tools or use of micro-diggers fitted with toothless buckets and supervision of works by a suitably competent arboriculturist from Landscape Planning Ltd.

7.9.3 Other techniques may be required, e.g. ‘rolling-in’ of hard surfaces, where excavators, etc. always work from existing hard surfaces and away from exposed soft surfaces.

8.0 RECOMMENDATIONS

8.1 The preliminary tree works we have recommended are contained within the tree works schedule at Appendix 5.

8.2 Our additional recommendations are as follows:

- The areas of Japanese Knotweed are removed and areas cleared and managed to eradicate this species from the site, in particular the group adjoining the Regents Canal (G1).
- Replacement trees of differing species should be planted to aid future diversity of the site.
- The site's trees should be the subject of a management plan to aid the long term tree scape of the site and adjoining areas.
- The timber produced by the felling of the U category trees should be used on the site for features such as habitat piles and bird and bat boxes, in particular along the canal boundary.

8.3 That during the construction build phase, following current consultation with the arboriculturist from Landscape Planning Ltd, adequate provision is made for the protection of existing trees on site and the areas to be planted with new trees and shrubs.

8.4 That by liaison with the council tree officer, formal agreement should be sought regarding the tree pruning required and tree protection methods employed to protect retained trees. These will be via the production of a Site Specific Method Statement (SSMS) and will include:

- Tree protective fencing as shown on the tree protection plan.
- No ground excavations within tree RPAs, unless approved by the tree officer.
- Any anti-compaction measures required to be taken.
- The specific locating of services trenches to avoid excavations within RPAs where possible, or if necessary being undertaken by hand dig only.
- Specific methods for construction of site access routes and new drainage close to or within retained trees' RPAs.

8.5 That pre-commencement site meetings should be arranged to discuss the recommendations in this and subsequent reports and method statements, and that copies of all relevant arboricultural reports should be available on site.

8.6 That the SSMS should be developed further with the contractor through the development process to include comments made by them, the client and the design team, as well as council officers. A copy of the tree report, including the site specific method statements and tree protection plan, should be kept on site at all times.

8.7 That details of site inspection / supervision visits by the consultant arboriculturist are recorded and sent to the council tree officer, with copies retained by the site manager.

9.0 CONCLUSIONS

9.1 The site is located within the centre of London and a high density urban area. The area is surrounded by a central railway centre and high rise developments. To the east of the site, however, is the Regents Canal, which crosses London. Within the site, there are some trees of modest to high amenity value, most of which are ‘‘B’ category standard trees. The site is a nature park for the local community and is mainly early mature woodland with ponds and amenity areas; however, the construction area is within the northern section of the site. The northern boundary includes the storage for the site and the existing buildings, the development is to replace this with a new visitor centre and outdoor seating area facing the canal.

9.2 T64, T65, T70, T71, T72, T79, T81 and small sections of TG4 and TG6, ‘C’ category trees, constrain the proposed layout for the new visitor centre. No ’B’ category trees are proposed to be removed as part of the development. The thirteen ‘U’ category trees should be felled regardless of the constraining development.

9.3 Ground protection measures within retained tree RPAs, including the use of 3D ‘Reduced-Dig’ cellular / crate confinement sub-base systems for the construction of the proposed section of hard standing on the southern side of the building and the installation of tree protective fencing and temporary ground protection will adequately protect the RPAs, when accompanied by detailed methods and supervision by a consultant arboriculturist from Landscape Planning Ltd.

9.4 Sufficient development room will be available after protection measures are instigated as described within this report. Excavations within retained tree RPAs for construction operations such as service trenches, changes in levels, foundations excavations and removal of existing hard surfacing will be avoided where possible.

9.5 Overall, it is concluded that, subject to appropriate controls, the development can be implemented without undue impact on trees. These should be detailed within a Site Specific Arboricultural Method Statement that should be submitted to and agreed in writing by the Local Planning Authority prior to the commencement of the development, as a condition of any consent.

Phillip May BSc.

Consultant Arboriculturist

10.0 VERSION CONTROL

Date	Author	Description of amendment	Page / Paragraph
30th May 2017	PM	V1	N/A

11.0 APPENDICES

APPENDIX 1 **Key to Tree Tables**

APPENDIX 2 **Tree Survey Tables**

APPENDIX 3 **Tree Constraints Plan**

APPENDIX 4 **Tree Protection Plan**

APPENDIX 5 **Tree Works Schedule**

APPENDIX 6 **Site Inspection & Monitoring schedule**

APPENDIX 7 **BS5837:2012 Tree Constraints & Protection Methods**

APPENDIX 8 **Tree Protection Fencing Specification**

APPENDIX 9 **Proprietary Information for 'Reduced-Dig' Sub-Base**

APPENDIX 10 **Photographs**

APPENDIX 11 **Report Caveats**

APPENDIX 1

KEY TO TREE TABLES

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Key

BS 5837 Cat	Description
A	Those trees of high quality and value: in such a condition as to be able to make a substantial contribution (>40 years)
B	Those trees of moderate quality and value: in such a condition as to make a significant contribution (>20 years)
C	Those trees of low quality and value: currently in adequate condition to remain until new planting could be established (>10 years)
U	Those trees in such a condition that any existing value would be lost within 10 years and that should, in the current context, be removed regardless of development

Note: Sub categories are denoted in the tree survey data (A1, B1, C2, etc.). You are referred to the BS for further detail if required.

Tree No.	T (tree), G (group), H (hedge), W (woodland) and Ref. No.
Species	Common Name
Ht (m)	Measured height in metres
DBH (m)	Diameter at 1.5m above ground level
Branch Spread	In m to cardinal points
Cr Ht Clearance (m)	Overall height of lowest branches from the ground level on side of proposed development
Life Stage	Young, Semi-Mature, Early-Mature, Mature, Over-Mature
General Observations	Observations on the condition of the tree(s)
Tree Work Specification	Proposed tree works in accordance with BS3998
BS Cat	See above
Life Exp	Estimated remaining contribution in years
RPA Radius(m)	Radius of the tree's Root Protection Area, measured from the trunk to the edge of the RPA circle in metres
RPA (m2)	Overall Root Protection Area in m2
*	Indicates where tree data may have been estimated as the tree was off-site / had restricted access / had dense vegetation hindering full inspection

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Age Range	**YO**	Trees from seedling up to Advanced Nursery Stock size (14/16cm girth)
	SM	More than 10 years post-establishments but capable of being moved using a large tree spade (up to 22/24cm diameter).
	EM	Early indicators of maturity in bark tissue, reproductive tissue, leaf and crown morphology may be present. (Notably, excurrent shoot growth, not readily transplantable and still likely to increase significantly in size).
	MA	Strong indicators of maturity in bark tissue, reproductive tissue, leaf and crown morphology will be present. Shoot growth decurrent. (Middle aged phase of growth when the tree has effectively reached up to 90% of its ultimate size for the species and location).
	FM	Bark tissue, reproductive tissue, leaf and crown morphology will all exhibit mature characteristics. Strongly decurrent shoot growth and reduced shoot extension. No specific signs of senescence. (A tree that has now achieved over 90% of its ultimate life for the species and location).
	OM	Trees in senescence, although not directly in decline from disease, decay, root death, structural or stability. Problems are primarily resulting from old age. (Senescence is an age related category, i.e. a younger tree subject to disease and decay because of, for example, an impact injury would not be senescent. Characteristically, senescent trees are likely to be reducing in mass and becoming stag headed).

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APPENDIX 2

TREE SURVEY TABLES

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ARBORICULTURAL IMPACT ASSESSMENT
TREE SURVEY TABLES
Surveyor:
Date Surveyed:

12 Camley Street

LANDSCAPE PLANNING LTD

Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T1	Oak	Early Mature	7	1.5	1.5	1.5	1.5	140	1.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown. Tree adjacent to outer wall.	No works.	20-39	B
T2	Ash	Early Mature	10	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T3	Ash	Early Mature	10	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T4	Ash	Early Mature	11	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T5	Oak	Early Mature	11	2	2	2	2	190	2.28	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	20-39	B
T6	Oak	Early Mature	10	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T7	Ash	Early Mature	10	1.5	1.5	1.5	1.5	140	1.68	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T8	Ash	Early Mature	10	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T9	Ash	Early Mature	10	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T10	Ash	Early Mature	10	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T11	Ash	Early Mature	11	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T12	Ash	Early Mature	10.5	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C

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12 Camley Street

Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T13	Cherry	Early Mature	10	1.5	1.5	1.5	1.5	220	2.64	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T14	Sycamore	Early Mature	13	2.5	2.5	2.5	2.5	210	2.52	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T15	Ash	Early Mature	10	1.5	1.5	1.5	1.5	165	1.98	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T16	Willow	Early Mature	8	5	5	5	5	230	2.76	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C
T17	Willow	Early Mature	9	1.5	1.5	1.5	1.5	200	2.4	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Self-set pioneer tree.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T18	Alder	Early Mature	14	2	2	2	2	230	2.76	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T19	Alder	Early Mature	16	2	2	2	2	250	3	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T20	Alder	Early Mature	15	2	2	2	2	230	2.76	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T21	Willow	Mature	16	9	9	9	9	770	9.24	Average form (asymmetric canopy), shape and condition. Dense crown, dead wood within crown. Multiple-stemmed coppice stool with basal included unions.	No works.	10-19	C
T22	Willow	Early Mature	13	3	3	3	3	530	6.36	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T23	Willow	Early Mature	12	5	5	5	5	640	7.68	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C
T24	Maple	Early Mature	15	2.5	2.5	2.5	2.5	220	2.64	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T25	Willow	Mature	18	5	5	5	5	520	6.24	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low major dead wood within crown. Ivy clad crown and stem, unable to fully inspect.	No works.	20-39	B
T26	Cherry	Mature	17	5.5	5.5	5.5	5.5	330	3.96	Average form (asymmetric canopy), shape and condition. Dense crown, low dead wood within crown. Ivy clad crown and stem, unable to fully inspect.	No works.	20-39	B

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				N	S	E	W						
T27	Maple	Early Mature	12	2.5	2.5	2.5	2.5	170	2.04	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T28	Cherry	Early Mature	13	2.25	2.25	2.25	2.25	300	3.6	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Ivy clad crown and stem, unable to fully inspect. Co-dominant tree with moderate included unions.	No works.	10-19	C
T29	Willow	Early Mature	13	3	3	3	3	480	5.76	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C
T30	Willow	Early Mature	9	3	3	3	3	330	3.96	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
TG1	Mixed species group	Early Mature	15	10	10	10	10	200	2.4	Average form (asymmetric canopy), shape and condition. Dense crown, low dead wood within crown. Ivy clad crown and stem, unable to fully inspect. Mixed native species unmanaged. Young, newly established trees. Self-set pioneer tree.	No works.	10-19	C
T31	Willow	Early Mature	11	3	3	3	3	240	2.88	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C
T32	Willow	Early Mature	12	3	3	3	3	250	3	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Leaning towards pond.	No works.	10-19	C
T33	Alder	Early Mature	10.6	2	2	2	2	190	2.28	Average form (asymmetric canopy), shape and condition. Dense crown. low dead wood. Crown overhangs canal.	No works.	10-19	C

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				N	S	E	W						
T34	Alder	Early Mature	10.6	2	2	2	2	190	2.28	Average form (asymmetric canopy), shape and condition. Dense crown. low dead wood. Crown overhangs canal.	No works.	10-19	C
T35	Willow	Early Mature	2	1.25	1.25	1.25	1.25	250	3	Poor form (asymmetric canopy), shape and condition. Subject to historic crown management, pollarded.	No works.	10-19	C
T36	Willow	Early Mature	16	9	9	9	9	500	6	Average form (asymmetric canopy), shape and condition. Dense crown. low dead wood. Crown overhangs canal. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
TG2	Mixed species group	Mature	14	5	5	5	5	500	6	Unable to inspect due to restricted access / vegetation. Average form (asymmetric canopy), shape and condition. Dense crown, low dead wood within crown.	No works.	10-19	C
T37	Alder	Early Mature	13.6	2	2	2	2	220	2.64	Average form (asymmetric canopy), shape and condition.	No works.	10-19	C
TG3	Alder	Early Mature	12.3	5	5	5	5	200	2.4	Average form (asymmetric canopy), shape and condition. Multiple-stemmed coppice stool with basal included unions.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T38	Willow	Early Mature	10	4	4	4	4	500	6	Average form (asymmetric canopy), shape and condition. Dense crown. Low dead wood. Crown overhangs canal. Subject to historic crown management, pollarded. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
G1	Japanese Knotweed	Semi-Mature	2	1	1	1	1	50	0.6	None.	Remove.	<10	U
T39	Alder	Early Mature	9.8	2	2	2	2	200	2.4	Average form (asymmetric canopy), shape and condition. Dense crown. Low dead wood. Crown overhangs pond.	No works.	10-19	C
T40	Alder	Early Mature	10	2	2	2	2	240	2.88	Average form (asymmetric canopy), shape and condition. Dense crown. Low dead wood. Crown overhangs canal.	No works.	10-19	C
T41	Willow	Mature	10.6	2	2	2	2	750	9	Average form (asymmetric canopy), shape and condition. Dense crown. Low dead wood. Crown overhangs canal. Subject to historic crown management, pollarded. Significant decay on stem.	Fell to ground level.	<10	U

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T42	Willow	Mature	3	1	1	1	1	470	5.64	Average form (asymmetric canopy), shape and condition. Dense crown. Low dead wood. Crown overhangs canal. Subject to historic crown management, pollarded.	No works.	10-19	C
T43	Alder	Early Mature	15	2.5	2.5	2.5	2.5	210	2.52	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal.	No works.	10-19	C
T44	Alder	Early Mature	16.8	3.5	3.5	3.5	3.5	270	3.24	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal.	No works.	10-19	C
T45	Willow	Early Mature	15	5.5	5.5	5.5	5.5	410	4.92	Average form (asymmetric canopy), shape and condition. Lapsed pollard. Crown overhangs canal.	No works.	10-19	C
T46	Alder	Early Mature	15	2.5	2.5	2.5	2.5	200	2.4	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal.	No works.	10-19	C
T47	Alder	Semi-Mature	8	1.5	1.5	1.5	1.5	110	1.32	Good form (asymmetric canopy), shape and condition.	No works.	10-19	C

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				N	S	E	W						
T48	Alder	Early Mature	11	2	2	2	2	230	2.76	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T49	Alder	Early Mature	13	2	2	2	2	240	2.88	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal. Bark wound on main stem, not extensive.	No works.	10-19	C
T50	Ash	Early Mature	9.8	2	2	2	2	170	2.04	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T51	Alder	Early Mature	8	1	1	1	1	160	1.92	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal.	No works.	10-19	C
T52	Ash	Early Mature	9	1.5	1.5	1.5	1.5	110	1.32	Good form (asymmetric canopy), shape and condition. Dense crown.	No works.	10-19	C
T53	Willow	Early Mature	11	4	4	4	4	300	3.6	Average form (asymmetric canopy), shape and condition. Crown overhangs canal. Unable to inspect due to restricted access / vegetation. Subject to historic crown management, pollarded.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T54	Alder	Early Mature	15	2.5	2.5	2.5	2.5	240	2.88	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal.	No works.	10-19	C
T55	Alder	Early Mature	10	2.5	2.5	2.5	2.5	230	2.76	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal.	No works.	10-19	C
T56	Willow	Early Mature	8	2.5	2.5	2.5	2.5	360	4.32	Poor form (asymmetric canopy), shape and condition. Subject to historic crown management, pollarded. Significant decay on stem.	Fell to ground level.	<10	U
T57	Willow	Early Mature	15	5	5	5	5	500	6	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Crown overhangs canal. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T58	Willow	Early Mature	11	3.5	3.5	3.5	3.5	300	3.6	Average form (asymmetric canopy), shape and condition. Crown overhangs canal. Subject to historic crown management, pollarded. Minor decay on old pruning wound.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T59	Willow	Early Mature	15	2.5	2.5	2.5	2.5	400	4.8	Average form (asymmetric canopy), shape and condition. Crown overhangs canal. Subject to historic crown management, pollarded. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T60	Maple	Early Mature	15	2.5	2.5	2.5	2.5	400	4.8	Average form (asymmetric canopy), shape and condition. Crown overhangs canal. Subject to historic crown management, pollarded. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T61	Willow	Early Mature	15	2.5	2.5	2.5	2.5	400	4.8	Average form (asymmetric canopy), shape and condition. Crown overhangs canal. Subject to historic crown management, pollarded. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C

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				N	S	E	W						
T62	Willow	Early Mature	15	2.5	2.5	2.5	2.5	400	4.8	Average form (asymmetric canopy), shape and condition. Crown overhangs canal. Subject to historic crown management, pollarded. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T63	Willow	Early Mature	15	5.5	5.5	5.5	5.5	500	6	Average form (asymmetric canopy), shape and condition. Crown overhangs canal. Subject to historic crown management, pollarded. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
TG4	Alder	Early Mature	15	5	5	5	5	710	8.52	Average form (asymmetric canopy), shape and condition. Crown overhangs canal.	No works.	10-19	C
T64	Willow	Mature	19	6	6	6	6	700	8.4	Average form (asymmetric canopy), shape and condition. Crown overhangs building. Co-dominant tree with moderate included unions.	No works.	10-19	C

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				N	S	E	W						
T65	Willow	Mature	19	6	6	6	6	1070	12.84	Average form (asymmetric canopy), shape and condition. Crown overhangs building. Co-dominant tree with moderate included unions.	No works.	10-19	C
T66	Alder	Semi-Mature	6	0.5	0.5	0.5	0.5	100	1.2	Dead tree.	Fell to ground level.	<10	U
T67	Alder	Semi-Mature	6	0.5	0.5	0.5	0.5	100	1.2	Dead tree.	Fell to ground level.	<10	U
T68	Alder	Semi-Mature	8	0.5	0.5	0.5	0.5	100	1.2	Dead tree.	Fell to ground level.	<10	U
T69	Alder	Semi-Mature	8	0.5	0.5	0.5	0.5	100	1.2	Dead tree.	Fell to ground level.	<10	U
TG5	Mixed species group	Semi-Mature	10	10	10	10	10	200	2.4	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation. No significant recent crown management. Dense crown, Ivy clad crown and stem, unable to fully inspect. Self-set pioneer tree. Mixed native unmanaged.	No works.	10-19	C
T70	Birch	Early Mature	11.8	1.5	1.5	1.5	1.5	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C

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				N	S	E	W						
T71	Maple	Early Mature	9	2	2	2	2	160	1.92	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T72	Maple	Early Mature	12	2	2	2	2	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T73	Maple	Early Mature	9	1.5	1.5	1.5	1.5	150	1.8	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T74	Maple	Early Mature	12.2	2	2	2	2	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T75	Birch	Early Mature	9	2	2	2	2	170	2.04	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T76	Birch	Semi-Mature	4	0.5	0.5	0.5	0.5	150	1.8	Dead stem.	Fell to ground level.	<10	U
T77	Hawthorn	Early Mature	6.6	1.5	1.5	1.5	1.5	110	1.32	Average form (asymmetric canopy), shape and condition. Located in a path	No works.	10-19	C
T78	Birch	Early Mature	10	2	2	2	2	190	2.28	Average form (asymmetric canopy), shape and condition. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C

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				N	S	E	W						
T79	Maple	Early Mature	12	2	2	2	2	150	1.8	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T80	Maple	Early Mature	12	2	2	2	2	150	1.8	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T81	Birch	Early Mature	12.5	1.75	1.75	1.75	1.75	160	1.92	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T82	Birch	Early Mature	10.3	1.75	1.75	1.75	1.75	110	1.32	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown. Bark wound on main stem.	No works.	10-19	C
T83	Birch	Early Mature	14	1.75	1.75	1.75	1.75	220	2.64	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T84	Birch	Early Mature	12.5	1.75	1.75	1.75	1.75	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C

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				N	S	E	W						
T85	Birch	Early Mature	12	1.75	1.75	1.75	1.75	270	3.24	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T86	Birch	Early Mature	6	1.5	1.5	1.5	1.5	160	1.92	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T87	Birch	Early Mature	9	2	2	2	2	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T88	Ash	Semi-Mature	7	1.25	1.25	1.25	1.25	120	1.44	Average form (asymmetric canopy), shape and condition. Self-set pioneer tree.	No works.	10-19	C
TG6	Mixed species group	Semi-Mature	5	10	10	10	10	100	1.2	Average form (asymmetric canopy), shape and condition. Self-set pioneer tree.	No works.	10-19	C
T89	Maple	Early Mature	9	2	2	2	2	220	2.64	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C

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				N	S	E	W						
T90	Elder	Mature	9.5	2	2	2	2	260	3.12	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T91	Cherry	Early Mature	11.3	2.5	2.5	2.5	2.5	285	3.42	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T92	Willow	Mature	14.4	5	5	5	5	390	4.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Leaning tree towards pond.	No works.	10-19	C
T93	Laburnum	Early Mature	8.2	2	2	2	2	175	2.1	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T94	Birch	Early Mature	15	2	2	2	2	280	3.36	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Leans towards pond.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T95	Laburnum	Early Mature	9.3	2.55	2.55	2.55	2.55	350	4.2	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T96	Maple	Early Mature	7	2	2	2	2	140	1.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T97	Hawthorn	Early Mature	3.5	1	1	1	1	150	1.8	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T98	Hazel (Common)	Early Mature	6.6	2	2	2	2	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Multiple-stemmed coppice stool with basal included unions.	No works.	10-19	C
T99	Hawthorn	Early Mature	4.2	2	2	2	2	300	3.6	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C

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				N	S	E	W						
T100	Alder	Early Mature	8	0.5	0.5	0.5	0.5	130	1.56	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T101	Alder	Early Mature	9	2	2	2	2	265	3.18	Poor form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Central leader lost in past, naturally reducing.	No works.	10-19	C
T102	Ash	Early Mature	10.1	2	2	2	2	160	1.92	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T103	Ash	Early Mature	10	2	2	2	2	150	1.8	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T104	Alder	Early Mature	10.1	2	2	2	2	170	2.04	Dead tree.	Fell to ground level	<10	U
T105	Ash	Early Mature	10.1	2	2	2	2	120	1.44	Dead tree. Hung up in adjacent tree. Severed roots.	Fell to ground level.	<10	U

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				N	S	E	W						
T106	Lime	Early Mature	9.7	1.5	1.5	1.5	1.5	300	3.6	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C
T107	Alder	Early Mature	7.2	2	2	2	2	300	3.6	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Some branches cut back.	No works.	10-19	C
T108	Alder	Mature	11.7	2	2	2	2	300	3.6	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T109	Alder	Mature	11.7	2	2	2	2	390	4.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C

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				N	S	E	W						
T110	Alder	Mature	13.8	3	3	3	3	530	6.36	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions. Signs of minor decay on old pruning point. Minor decay at 2.3m where crossing branch has been removed.	No works.	10-19	C
T111	Alder	Mature	15	3	3	3	3	350	4.2	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T112	Alder	Mature	14	2.5	2.5	2.5	2.5	290	3.48	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T113	Alder	Mature	13	2.5	2.5	2.5	2.5	220	2.64	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T114	Alder	Mature	16.2	3.5	3.5	3.5	3.5	330	3.96	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T115	Willow	Early Mature	8	5	5	5	5	200	2.4	Poor form (asymmetric canopy), shape and condition. Historical fallen tree with new leaders (Phoenix-species specific). Minor dead wood within lower crown.	No works.	10-19	C
T116	Ash	Mature	17	5.5	5.5	5.5	5.5	350	4.2	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within lower crown. Co-dominant leaders	No works.	20-39	B
T117	Elm	Early Mature	9.9	2	2	2	2	230	2.76	Good form (asymmetric canopy), shape and condition. Dense crown, low dead wood throughout within lower crown.	No works.	10-19	C
T118	Ash	Mature	11.4	2	2	2	2	210	2.52	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant leaders	No works.	10-19	C
T119	Alder	Mature	11	2.5	2.5	2.5	2.5	450	5.4	Dead tree.	Fell to ground level.	<10	U

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				N	S	E	W						
T120	Alder	Early Mature	9.6	2	2	2	2	150	1.8	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T121	Alder	Early Mature	10	2.5	2.5	2.5	2.5	260	3.12	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C
T122	Alder	Early Mature	8	2	2	2	2	190	2.28	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T123	Alder	Mature	13	2.5	2.5	2.5	2.5	220	2.64	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T124	Alder	Early Mature	6	1.5	1.5	1.5	1.5	120	1.44	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T125	Alder	Mature	11.7	2	2	2	2	280	3.36	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions. Moderate decay at base from previous stem failure. Tree leans over pond.	Fell to ground level.	10-19	C
T126	Alder	Early Mature	11.3	2	2	2	2	140	1.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T127	Alder	Early Mature	11.7	2	2	2	2	280	3.36	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C
T128	Alder	Early Mature	8	2	2	2	2	140	1.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C

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				N	S	E	W						
T129	Alder	Mature	11.7	2	2	2	2	220	2.64	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant tree with moderate included unions.	No works.	10-19	C
T130	Alder	Mature	10.7	2.5	2.5	2.5	2.5	720	8.64	Poor form (asymmetric canopy), shape and condition. No significant recent crown management. 1 dead stem adjacent to footpath. Multiple-stemmed coppice stool with basal included unions.	Remove dead stem.	10-19	C
T131	Alder	Mature	8.4	1	1	1	1	130	1.56	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T132	Alder	Mature	10.1	2	2	2	2	140	1.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T133	Alder	Mature	13.8	2	2	2	2	230	2.76	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C

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				N	S	E	W						
T134	Alder	Mature	14	2	2	2	2	230	2.76	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown. Co-dominant leaders.	No works.	10-19	C
T135	Maple	Mature	12.8	2.5	2.5	2.5	2.5	250	3	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within crown.	No works.	10-19	C
T136	Alder	Early Mature	11.3	1.5	1.5	1.5	1.5	170	2.04	Good form (asymmetric canopy), shape and condition.	No works.	10-19	C
T137	Alder	Early Mature	14.5	2	2	2	2	210	2.52	Good form (asymmetric canopy), shape and condition.	No works.	10-19	C
T138	Ash	Semi-Mature	11.5	1.5	1.5	1.5	1.5	130	1.56	Good form (asymmetric canopy), shape and condition. Dense crown, low dead wood throughout within lower crown.	No works.	10-19	C
T139	Alder	Early Mature	11.3	1.5	1.5	1.5	1.5	200	2.4	Average form (asymmetric canopy), shape and condition. Evidence of past stem failure at base. Tree overhangs platform area.	Fell to ground level.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T140	Alder	Mature	17	3.5	3.5	3.5	3.5	270	3.24	Good form (asymmetric canopy), shape and condition. Symbiotic root system with adjacent tree. Dense crown.	No works.	10-19	C
T141	Alder	Mature	16.7	3	3	3	3	450	5.4	Good form (asymmetric canopy), shape and condition.	No works.	10-19	C
TG7	Mixed species group	Semi-Mature	5	5	5	5	5	500	6	Under canopy sub-species. Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood. Mixed native, unmanaged, self-set pioneer tree.	No works.	10-19	C
T142	Ash	Semi-Mature	12.2	1	1	1	1	140	1.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T143	Willow	Semi-Mature	5.6	2	2	2	2	300	3.6	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Multiple-stemmed coppice stool with basal included unions.	No works.	10-19	C
T144	Ash	Semi-Mature	8	1	1	1	1	110	1.32	Good form (asymmetric canopy), shape and condition. Self-set pioneer tree.	No works.	10-19	C

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T145	Willow	Semi-Mature	4.3	2	2	2	2	140	1.68	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Multiple-stemmed coppice stool with basal included unions.	No works.	10-19	C
T146	Ash	Early Mature	11	1.5	1.5	1.5	1.5	150	1.8	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, co-dominant leaders. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T147	Alder	Early Mature	11	2.5	2.5	2.5	2.5	280	3.36	Dead tree.	Fell to ground level.	<10	U
T148	Alder	Early Mature	10	2	2	2	2	150	1.8	Dead tree.	Fell to ground level.	<10	U
T149	Alder	Early Mature	12.5	3	3	3	3	230	2.76	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C

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				N	S	E	W						
T150	Ash	Early Mature	12	3	3	3	3	210	2.52	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T151	Alder	Early Mature	12.5	3	3	3	3	360	4.32	Dead tree.	Fell to ground level.	<10	U
T152	Willow	Mature	20	5	5	5	5	640	7.68	Ivy clad crown and stem, unable to fully inspect. Average form (asymmetric canopy), shape and condition. Included union at 2.5m with signs of 'ears'.	Sever Ivy at 2m from ground level and remove section. Re-inspect.	20-39	C
T153	Ash	Early Mature	12.5	3	3	3	3	350	4.2	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T154	Cherry	Mature	15	4	4	4	4	350	4.2	Good form (asymmetric canopy), shape and condition. Dense crown. Ivy clad crown and stem, unable to fully inspect.	Sever Ivy at 2m from ground level and remove section. Re-inspect.	20-39	B

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				N	S	E	W						
T155	Birch	Early Mature	10.8	2.5	2.5	2.5	2.5	170	2.04	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T156	Ash	Early Mature	14	3.5	3.5	3.5	3.5	220	2.64	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T157	Ash	Early Mature	13.5	3	3	3	3	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Ivy clad crown and stem, unable to fully inspect.	No works.	10-19	C
T158	Oak	Early Mature	15	4.5	4.5	4.5	4.5	260	3.12	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood within lower crown.	No works.	20-39	B
T159	Cherry	Early Mature	7	2.5	2.5	2.5	2.5	190	2.28	Average form (asymmetric canopy), shape and condition. Central leader lost in past, stag-headed crown, naturally reducing.	No works.	10-19	C
T160	Ash	Early Mature	11	3	3	3	3	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C

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				N	S	E	W						
T161	Ash	Early Mature	11	3	3	3	3	210	2.52	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Co-dominant leaders	No works.	10-19	C
T162	Ash	Semi-Mature	7.8	1	1	1	1	140	1.68	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T163	Hawthorn	Early Mature	6	1.5	1.5	1.5	1.5	170	2.04	Average form (asymmetric canopy), shape and condition.	No works.	10-19	C
T164	Ash	Early Mature	12	3	3	3	3	200	2.4	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T165	Birch	Early Mature	11	3	3	3	3	170	2.04	Good form (asymmetric canopy), shape and condition. No significant recent crown management.	No works.	10-19	C
T166	Ash	Early Mature	13	4	4	4	4	300	3.6	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	Sever Ivy at 2m from ground level and remove section. Re-inspect.	10-19	C

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				N	S	E	W						
T167	Ash	Early Mature	15	4	4	4	4	300	3.6	Good form (asymmetric canopy), shape and condition. No significant recent crown management. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	Sever Ivy at 2m from ground level and remove section. Re-inspect.	10-19	C
T168	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T169	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T170	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T171	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C

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				N	S	E	W						
T172	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T173	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T174	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T175	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
T176	Birch	Semi-Mature	5	1	1	1	1	70	0.84	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C

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12 Camley Street

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Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T177	Maple	Mature	15	6	6	6	6	450	5.4	Average form (asymmetric canopy), shape and condition. Unable to inspect due to restricted access / vegetation. Ivy clad crown and stem, unable to fully inspect.	Sever Ivy at 2m from ground level and remove section. Re-inspect.	20-39	B
T178	Maple	Mature	9	5	5	5	5	550	6.6	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown. Multiple-stemmed coppice stool with basal included unions.	No works.	10-19	C
T179	Maple	Mature	10	4	4	4	4	430	5.16	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown.	No works.	10-19	C
T180	Ash	Early Mature	10	2.5	2.5	2.5	2.5	190	2.28	Average form (asymmetric canopy), shape and condition. No significant recent crown management. Co-dominant leaders	No works.	10-19	C
T181	Ash	Semi-Mature	9	1	1	1	1	150	1.8	Average form (asymmetric canopy), shape and condition.	No works.	10-19	C
T182	Birch	Semi-Mature	8	1.5	1.5	1.5	1.5	170	2.04	Average form (asymmetric canopy), shape and condition.	No works.	10-19	C

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ARBORICULTURAL IMPACT ASSESSMENT
TREE SURVEY TABLES
Surveyor:
Date Surveyed:

12 Camley Street

LANDSCAPE PLANNING LTD

Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
TG8	Mixed species group	Semi-Mature	5	5	5	5	5	500	6	Under canopy sub-species. Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood. Mixed native unmanaged. Self-set pioneer tree.	No works.	10-19	C
TG9	Mixed species group	Semi-Mature	5	5	5	5	5	500	6	Under canopy sub species. Good form (asymmetric canopy), shape and condition. No significant recent crown management. Dense crown, low dead wood. Mixed native unmanaged. Self-set pioneer tree. Unable to inspect due to restricted access / vegetation.	No works.	10-19	C
S1	Japanese Knotweed	Young	1	0.5	0.5	0.5	0.5	10	0.12	Japanese Knotweed.	Remove.	<10	U
S2	Japanese Knotweed	Young	1	0.5	0.5	0.5	0.5	10	0.12	Japanese Knotweed.	Remove.	<10	U
T183	Ginkgo	Young	2	0.5	0.5	0.5	0.5	30	0.36	3rd party off site tree.	No works.	10-19	C
T184	Rowan	Young	3	0.5	0.5	0.5	0.5	60	0.72	3rd party off site tree.	No works.	10-19	C
T185	Rowan	Semi-Mature	4	0.5	0.5	0.5	0.5	100	1.2	3rd party off site tree.	No works.	10-19	C
T186	Rowan	Young	3	0.5	0.5	0.5	0.5	60	0.72	3rd party off site tree.	No works.	10-19	C
T187	Alder	Young	3	0.5	0.5	0.5	0.5	60	0.72	3rd party off site tree.	No works.	10-19	C

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ARBORICULTURAL IMPACT ASSESSMENT
TREE SURVEY TABLES
Surveyor:
Date Surveyed:

12 Camley Street

Tree No.	Species (English) Latin if any doubt	Age Range	Height (m)	Crown Radius (m)				Stem Diam @ 1.5m (mm)	BS RPR (m)	Comments (incl. Structural condition)	Recommendations	Remaining contribution (Yrs)	Amenity
				N	S	E	W						
T188	Rowan	Young	3	0.5	0.5	0.5	0.5	60	0.72	3rd party off site tree.	No works.	10-19	C
T189	Rowan	Semi-Mature	3.5	0.5	0.5	0.5	0.5	90	1.08	3rd party off site tree.	No works.	10-19	C
T190	Alder	Young	3	0.5	0.5	0.5	0.5	50	0.6	3rd party off site tree.	No works.	10-19	C
TG10	Mixed group	Semi-Mature	3	0.5	0.5	0.5	0.5	60	0.72	3rd party off site tree.	No works.	10-19	C

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APPENDIX 3

TREE CONSTRAINTS PLAN

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Tree Survey Drawing Key

Root Protection Area m2
Tree Canopy Extent
Stem Location / Coloured disc denotes BS: 5837 Category
T1 Tree Number

See Landscape Planning Tree Survey for Individual Tree Details

KEY

Please refer to Landscape Planning arboricultural report for details

- Category A - high quality and value
- Category B - moderate quality and value
- Category C - low quality and value
- Category U - removal

RPA - root protection area as defined by Table 2 BS 5837:2012

Category U - removal

REVISIONS

No	Description	By	Date	Chkd

LANDSCAPE PLANNING LTD

ISSUE: -

CLIENT: Randall Surveys LLP

LOCATION: Camley Street Natural Park

DRAWING TITLE: Tree Constraints Plan (TCP)

SCALE: 1:250 @ A1 | DATE: 22nd May 2017

DRAWN BY: S Blackwell | CHKD BY: Paul Allen | DRAWING No: 69843-01 Sheet 1 of 2 | REV: -

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Tree No	Species	DBH (m)	No of Stems	Ht (m)	BS Cat
T1	Oak	0.14	1	7	B2
T2	Ash	0.15	1	10	C2
T3	Ash	0.15	1	10	C2
T4	Ash	0.15	1	11	C2
T5	Oak	0.19	1	11	B2
T6	Oak	0.15	1	10	C2
T7	Ash	0.14	1	10	C2
T8	Ash	0.15	1	10	C2
T9	Ash	0.15	1	10	C2
T10	Ash	0.15	1	10	C2
T11	Ash	0.15	1	11	C2
T12	Ash	0.15	1	10.5	C2
T13	Cherry	0.22	1	10	C2
T14	Sycamore	0.21	1	13	C2
T15	Ash	0.165	1	10	C2
T16	Willow	0.23	1	8	C2
T17	Willow	0.2	1	9	C2
T18	Alder	0.23	1	14	C2
T19	Alder	0.25	1	16	C2
T20	Alder	0.23	1	15	C2
T21	Willow	0.77	3	16	C2
T22	Willow	0.53	2	13	C2
T23	Willow	0.64	3	12	C2
T24	Maple	0.22	1	15	C2
T25	Willow	0.52	1	18	B2
T26	Cherry	0.33	1	17	B2
T27	Maple	0.17	1	12	C1
T28	Cherry	0.3	2	13	C2
T29	Willow	0.48	2	13	C2
T30	Willow	0.33	2	9	C2
T31	Willow	0.24	1	11	C2
T32	Willow	0.25	1	12	C2
T33	Alder	0.19	1	10.6	C2
T34	Alder	0.19	1	10.6	C2
T35	Willow	0.25	1	2	C2
T36	Willow	0.5	1	16	C2
T37	Alder	0.22	1	13.6	C2
T38	Willow	0.5	1	10	C2
T39	Alder	0.2	2	9.8	C2
T40	Alder	0.24	1	10	C2
T41	Willow	0.75	1	10.6	U
T42	Willow	0.47	1	3	C2
T43	Alder	0.21	1	15	C2
T44	Alder	0.27	1	16.8	C2
T45	Willow	0.41	1	15	C2
T46	Alder	0.2	1	15	C2
T47	Alder	0.11	1	8	C2
T48	Alder	0.23	1	11	C2
T49	Alder	0.24	1	13	C2
T50	Ash	0.17	1	9.8	C2
T51	Alder	0.16	1	8	C2
T52	Ash	0.11	1	9	C2
T53	Willow	0.3	1	11	C2
T54	Alder	0.24	1	15	C2
T55	Alder	0.23	1	10	C2
T56	Willow	0.36	1	8	U
T57	Willow	0.5	3	15	C2
T58	Willow	0.3	1	11	C2
T59	Willow	0.4	1	15	C2
T60	Maple	0.4	2	15	C2
T61	Willow	0.4	1	15	C2
T62	Willow	0.4	1	15	C2
T63	Willow	0.5	1	15	C2
T64	Willow	0.7	2	19	C2
T65	Willow	1.07	3	19	C2
T66	Alder	0.1	1	6	U
T67	Alder	0.1	1	6	U
T68	Alder	0.1	1	8	U
T69	Alder	0.1	1	8	U
T70	Birch	0.2	1	11.8	C2
T71	Maple	0.16	1	9	C2
T72	Maple	0.2	1	12	C2
T73	Maple	0.15	1	9	C2
T74	Maple	0.2	1	12.2	C2
T75	Birch	0.17	1	9	C2
T76	Bich	0.15	1	4	U
T77	Hawthorn	0.11	1	6.6	C2
T78	Birch	0.19	1	10	C2
T79	Maple	0.15	1	12	C2
T80	Maple	0.15	1	12	C2
T81	Birch	0.16	1	12.5	C2
T82	Birch	0.11	1	10.3	C2
T83	Birch	0.22	1	14	C2
T84	Birch	0.2	1	12.5	C2
T85	Birch	0.27	1	12	C2
T86	Birch	0.16	1	6	C2
T87	Birch	0.2	1	9	C2
T88	Ash	0.12	1	7	C2
T89	Maple	0.22	1	9	C2
T90	Elder	0.26	1	9.5	C2
T91	Cherry	0.285	1	11.3	C2
T92	Willow	0.39	1	14.4	C2
T93	Laburnum	0.175	1	8.2	C2
T94	Birch	0.28	1	15	C2
T95	Laburnum	0.35	2	9.3	C2
T96	Maple	0.14	1	7	C2
T97	Hawthorn	0.15	1	3.5	C2
T98	Hazel (Common)	0.2	10	6.6	C2
T99	Hawthorn	0.3	2	4.2	C2
T100	Alder	0.13	1	8	C2
T101	Alder	0.265	2	9	C2
T102	Ash	0.16	1	10.1	C2
T103	Ash	0.15	1	10	C2
T104	Alder	0.17	1	10.1	U
T105	Ash	0.12	1	10.1	U
T106	Lime	0.3	2	9.7	C2
T107	Alder	0.3	3	7.2	C2
T108	Alder	0.3	1	11.7	C2
T109	Alder	0.39	2	11.7	C2
T110	Alder	0.53	2	13.8	C2
T111	Alder	0.35	1	15	C2
T112	Alder	0.29	1	14	C2
T113	Alder	0.22	1	13	C2
T114	Alder	0.33	1	16.2	C2
T115	Willow	0.2	8	8	C2
T116	Ash	0.35	1	17	B2
T117	Elm	0.23	1	9.9	C2
T118	Ash	0.21	1	11.4	C2
T119	Alder	0.45	2	11	U
T120	Alder	0.15	1	9.6	C2
T121	Alder	0.26	2	10	C2
T122	Alder	0.19	1	8	C2
T123	Alder	0.22	1	13	C2
T124	Alder	0.12	1	6	C2
T125	Alder	0.28	2	11.7	C2
T126	Alder	0.14	1	11.3	C2
T127	Alder	0.28	2	11.7	C2
T128	Alder	0.14	2	8	C2
T129	Alder	0.22	2	11.7	C2
T130	Alder	0.72	4	10.7	C2
T131	Alder	0.13	1	8.4	C2
T132	Alder	0.14	1	10.1	C2
T133	Alder	0.23	1	13.8	C2
T134	Alder	0.23	1	14	C2
T135	Maple	0.25	1	12.8	C2
T136	Alder	0.17	1	11.3	C2
T137	Alder	0.21	1	14.5	C2
T138	Ash	0.13	1	11.5	C2
T139	Alder	0.2	1	11.3	C2
T140	Alder	0.27	1	17	C2
T141	Alder	0.45	1	16.7	C2
T142	Ash	0.14	1	12.2	C2
T143	Willow	0.3	3	5.6	C2
T144	Ash	0.11	1	8	C2
T145	Willow	0.14	2	4.3	C2
T146	Ash	0.15	1	11	C2
T147	Alder	0.28	1	11	U
T148	Alder	0.15	1	10	U
T149	Alder	0.23	1	12.5	C2
T150	Ash	0.21	1	12	C2
T151	Alder	0.36	2	12.5	U
T152	Willow	0.64	1	20	C2
T153	Ash	0.35	2	12.5	C2
T154	Cherry	0.35	1	15	B2
T155	Birch	0.17	1	10.8	C2
T156	Ash	0.22	1	14	C2
T157	Ash	0.2	1	13.5	C2
T158	Oak	0.26	1	15	B2
T159	Cherry	0.19	1	7	C2
T160	Ash	0.2	1	11	C2
T161	Ash	0.21	1	11	C2
T162	Ash	0.14	1	7.8	C2
T163	Hawthorn	0.17	1	6	C2
T164	Ash	0.2	1	12	C2
T165	Birch	0.17	1	11	C2
T166	Ash	0.3	1	13	C2
T167	Ash	0.3	1	15	C2
T168	Birch	0.07	1	5	C2
T169	Birch	0.07	1	5	C2
T170	Birch	0.07	1	5	C2
T171	Birch	0.07	1	5	C2
T172	Birch	0.07	1	5	C2
T173	Birch	0.07	1	5	C2
T174	Birch	0.07	1	5	C2
T175	Birch	0.07	1	5	C2
T176	Birch	0.07	1	5	C2
T177	Maple	0.45	2	15	B2
T178	Maple	0.55	3	9	C2
T179	Maple	0.43	2	10	C2
T180	Ash	0.19	1	10	C2
T181	Ash	0.15	1	9	C2
T182	Birch	0.17	1	8	C2
T183	Ginkgo	0.03	1	2	C2
T184	Rowan	0.06	1	3	C2
T185	Rowan	0.1	1	4	C2
T186	Rowan	0.06	1	3	C2
T187	Alder	0.06	1	3	C2
T188	Rowan	0.06	1	3	C2
T189	Rowan	0.09	1	3.5	C2
T190	Alder	0.05	1	3	C2
S1	Japanses knotweed	0.01	5	1	U
S2	Japanses knotweed	0.01	5	1	U
TG1	Mixed species group	0.2	500	15	C2
TG2	Mixed species group	0.5	20	14	C2
TG3	Alder	0.2	10	12.3	C2
TG4	Alder	0.71	4	15	C2
TG5	Mixed species group	0.2	500	10	C2
TG6	Mixed species group	0.1	100	5	C2
TG7	Mixed species group	0.5	500	5	C2
TG8	Mixed species group	0.5	500	5	C2
TG9	Mixed species group	0.5	500	5	C2
TG10	Mixed group	0.06	1	3	C2
G1	Japanses knotweed	0.05	10	2	U

REVISIONS

No	Description	By	Date	Chkd

LANDSCAPE PLANNING LTD

ISSUE:
-

CLIENT:
Randall Surveys LLP

LOCATION:
Camley Street Natural Park

DRAWING TITLE:
Tree Constraints Plan (TCP)

SCALE: NTS @ A2

DATE: 22nd May 2017

DRAWN BY: S Blackwell

CHKD BY: Paul Allen

DRAWING No: 69843-01 Sheet 2 of 2

REV: -

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APPENDIX 4

TREE PROTECTION PLAN

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BOUNDARY LINE TO NATURE RESERVE

1 VOLUNTEER ROOM
2 OFFICE
3 KITCHEN/ CAFE
4 MULTIPURPOSE ROOM
5 EDUCATIONAL STUDIO
6 W/C
7 STORE

CANOPY AREA
CANOPY AREA
4 (~80 m2)
5 (~50 m2)

Broken Conc
Conc Base
Tarmac
Gravel
Tarmac
Conc
Conc
EASTERN COAL DROPS
WHARF ROAD
Granite Setts
FISH
CAMLEY STREET
GOODSWAY
REGENT'S CANAL

T65 C2, T66 U, T67 U, T68 U, T69 U, TG4 C2, T64 C2, T63 C2, T62 C2, T61 C2, T60 C2, T59 C2, T58 C2, T57 C2, T56 U, T55 C2, T54 C2, T53 C2, T52 C2, T51 C2, T50 C2, T49 C2, T48 C2, T47 C2, T46 C2, T45 C2, T44 C2, T43 C2, T42 C2, T41 U, T40 C2, T39 C2, T38 C2, G1 U, T37 C2, T36 C2, TG3 C2, TG2 C2, T70 C2, T81 C2, T72 C2, T82 C2, T71 C2, T79 C2, T83 C2, T80 C2, T73 C2, T95 C2, T86 C2, T85 C2, T84 C2, T74 C2, TG6 C2, T183 C2, T75 C2, T94 C2, T88 C2, T78 C2, T77 C2, T176 U, T87 C2, T89 C2, T93 C2, T96 C2, T90 C2, T92 C2, T97 C2, T91 C2, T105 U, T106 C2, T184 C2, T98 C2, T104 U, T103 C2, T100 C2, T102 C2, T99 C2, T101 C2, T107 C2, T182 C2, T185 C2, T181 C2, T115 C2, T180 C2, T116 B2, T108 C2, T109 C2, T110 C2, T117 C2, TG7 C2, T111 C2, T112 C2, T186 C2, T179 C2, T113 C2, T114 C2, T118 C2, TG5 C2, T187 C2, T119 U, T120 C2, T178 C2, T121 C2, T123 C2, T122 C2, T124 C2, T125 C2, T176 C2, T126 C2, T127 C2, T175 C2, T128 C2, T188 C2, T129 C2, T174 C2, T130 C2, T132 C2, T173 C2, T177 B2, T137 C2, T141 C2, T139 C2, T189 C2, T131 C2, T133 C2, T136 C2, T140 C2, T172 C2, T134 C2, T171 C2, T167 C2, T135 C2, T143 C2, T138 C2, T144 C2, T170 C2, T142 C2, T145 C2, T169 C2, T146 C2, T166 C2, T157 C2, T165 C2, T147 U, T149 C2, S2 U, T164 C2, T148 U, T168 C2, T151 U, T150 C2, TG9 C2, T156 C2, T153 C2, T152 C2, T154 B2, T28 C2, S1 U, T155 C2, T27 C1, T30 C2, T14 C2, TG8 C2, T29 C2, TG1 C2, T190 C2, T163 C2, T161 C2, T13 C2, T160 C2, T5 B2, T12 C2, T11 C2, T6 C2, T8 C2, T159 C2, T7 C2, T9 C2, T1 B2, T3 C2, T10 C2, T158 B2, T2 C2, T162 C2, T4 C2, TG10 C2, T31 C2, T24 C2, T22 C2, T19 C2, T20 C2, T25 B2, T21 C2, T18 C2, T23 C2, T26 B2, T16 C2, T15 C2, T17 C2, T33 C2, T34 C2, T32 C2, T35 C2

N

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Tree Survey Drawing Key

Root Protection Area m2
Tree Canopy Extent
Stem Location / Coloured disc denotes BS: 5837 Category
T1 Tree Number

See Landscape Planning Tree Survey for Individual Tree Details

KEY

- Tree to be retained
- Tree to be Pruned
- Tree / Pt Group to be removed
- Tree protective fencing
- Tree protective box hoarding
- No Dig Surface
- Supervised Excavations
- Construction Exclusion Zone
- Temporary Ground Protection
- Ultimate Tree Height (Dia) / Tree Shading Arc / ExistingTree Height (Dia)

REVISIONS

No	Description	By	Date	Chkd

LANDSCAPE PLANNING LTD

ISSUE: -

CLIENT: Randall Surveys LLP

LOCATION: Camley Street Natural Park

DRAWING TITLE: Tree Protection Plan (TPP)

SCALE: 1:250 @ A1 | DATE: 23rd May 2017

DRAWN BY: S Blackwell | CHKD BY: Paul Allen | DRAWING No: 69843-02 | REV: -

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scale bar 1:250 — 2m 0 10m 20m

APPENDIX 5

TREE WORKS SCHEDULE

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NOTE: All tree works to be undertaken in accordance with BS 3998:2010 'Tree work - Recommendations'. All pruning cuts to be made at suitable growing points, in line with the principles of natural target pruning.

Trees To Be Pruned

Tree No.	Species	Proposed Tree Works	BS Cat
130	Alder	Remove dead stem.	C
152	Willow	Sever Ivy at 2m from ground level and remove section. Re-inspect.	C
154	Cherry	Sever Ivy at 2m from ground level and remove section. Re-inspect.	B
166	Ash	Sever Ivy at 2m from ground level and remove section. Re-inspect.	C
167	Ash	Sever Ivy at 2m from ground level and remove section. Re-inspect.	C
177	Maple	Sever Ivy at 2m from ground level and remove section. Re-inspect.	B

Trees To Be Removed In Relation To The Development

Tree No.	Species	Reason For Tree Removal	BS Cat
T64 – T69	Willow and Alder	Average form (asymmetric canopy), shape and condition. Dense crown. Low dead wood. Crown overhangs canal. Subject to historic crown management. To allow location of new building and canopy.	C2
Sections of TG4 and TG6	Mixed	Average form (asymmetric canopy), shape and condition. Dense crown. Low dead wood. Crown overhangs canal. Subject to historic crown management. To allow location of new building and canopy.	C2

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APPENDIX 6

SITE INSPECTION AND MONITORING SCHEDULE

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In order to ensure that the principles of tree protection set out in the statement are adhered to, it is important to set out communication details for key individuals and tasks that require supervision. These details should be retained by all relevant parties and available on site at all times. Relevant parties will be advised of any changes in personnel or contractor during the development process.

To ensure that the construction process is undertaken with minimal disturbance to the retained tree stock, we recommend that an experienced Landscape Planning Ltd arboricultural consultant is appointed to undertake regular inspections of the site according to the site inspection / supervision schedule below.

It is our experience that a mix of scheduled and unannounced site visits is appropriate; these unannounced inspections will serve to identify any damage to the Tree Protection Fencing, poor working practices, potential problems and points of conflict between the construction process and the health of the trees. The associated reports will include recommendations for remedial action.

During these visits, any changes to the proposed works will be discussed, their impact assessed and recommendations for best practice will be outlined. After each of these visits, a copy of the report should be sent to the Site Agent, Local Authority Tree Officer and Client. The remedial action undertaken will be recorded on the next visit.

It should be noted that these visits will only be undertaken if a written instruction is received from the client prior to the commencement of works on site.

With reference to relevant published guidance, the methodology of this statement follows a logical sequence essential to the efficacy of the protection measures. References may include: British Standard 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'; British Standard 3998:2010 'Tree Work - Recommendations' and National Joint Utilities Group 'Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees, Volume 4' 2007.

It is essential to the successful implementation of the principles set out in this document that effective supervision and enforcement are implemented from the outset, as detailed in the following construction phases.

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Constraints Item	Site Supervision Required?	Number of Visits	Timing of Site Visits	Actual Visit Date
Tree works operations	Optional	Visit 1	Prior to construction	
Pre-commencement meeting between relevant parties informing Council of development start date	Yes	Visit 2	Prior to site clearance	
Establishment and protection of Root Protection Areas (RPAs) for retained trees, to 'sign off' installed tree protection fencing and temporary ground protection	Yes	Visit 2	Prior to site clearance	
Changes in soil levels in close proximity to retained trees – retaining walls	Yes	Visit 3	During site clearance phase	
Location of temporary access route through / adjacent to the retained trees and for access for construction vehicles and avoidance of compaction to the RPAs of retained trees	Yes	Visit 3	During construction phase	
Protection and prevention of damage to retained tree canopies during construction	Yes	Visit 3	During construction phase	
Installation of 'Reduced / No-dig' special surfacing within / through retained tree RPAs	Yes	Visit 4	During construction phase	
Excavation of services trenches in close proximity to retained trees	Possible	Visit 5	During construction phase	
Generic construction site constraints: **1 Site office / Welfare unit location** **2 Temporary toilets** **3 Siting of bonfires** **4 Location of contaminant storage and washout areas** **5 Location of stripped topsoil**	Yes	Visit 3	During construction phase	
Post construction site assessment for any required remedial tree works operations recommendations	Yes	Visit 6	Post construction	

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APPENDIX 7

BS5837: 2012 TREE CONSTRAINTS & PROTECTION METHODS

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Pre-Construction / Tool-Box Talk Meeting

Prior to commencement of the works, an onsite meeting will be held with all relevant parties, including the site agent and appointed Landscape Planning Ltd. arboricultural consultant of works. The purpose of this meeting is to record site features, including tree condition, and agree tree works (see Tree Works Schedule) and the locations of site storage, welfare facilities and tree protection measures.

Installation of Tree Protection Measures

Subject to planning, the tree protection measures outlined in this report will be revisited in detail based on the working drawings, construction programme and method statement to be prepared.

Tree protection fencing should be installed prior to any demolition or ground-works commencing, remain in place throughout construction and be removed only after completion.

The provision of tree protection and light tree surgery will reduce the risk of direct damage to the retained trees. The demolition and construction process should not be commenced until the tree surgery works have been completed and the protective areas have been fenced off.

Tree protection will be installed as per the Tree Protection Plan, which will be agreed with the Local Authority Tree Officer, and with reference to the British Standard 5837 2012 'Trees in relation to design, demolition and construction – Recommendations'. Prior to commencing any demolition or construction works, the fencing will be inspected by the appointed arboricultural consultant from Landscape Planning Ltd.

Within the fenced zone, no materials or chemicals should be stored at any time, no fires should be lit and no pedestrian or vehicle traffic should be allowed. Level changes within these areas should be kept to an absolute minimum. Every effort should be taken to protect a maximum possible area of the root system.

No level changes or excavation within the RPAs should be undertaken without the consent of the LPA Tree Officer.

Clear notices are to be fixed to the outside of the fencing with words such as 'TREE PROTECTION AREA – NO ACCESS OR WORKING WITHIN THIS AREA'.

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The site agent, all contractors and other relevant personnel are to be informed of the role of the Tree Protection Fencing and its importance. A copy of the Tree Protection Plan will be displayed on site at all times during construction.

Demolition and Enabling Works

Prior to any works commencing on site, the Tree Protection Fencing will be erected. During the demolition programme and enabling works, the existing front access will be in use. Any plant or vehicles engaged in the demolition works will operate outside the fenced off No-Dig / Root Protection Areas.

Locations of Site Offices Compound and Storage Area

The site office, welfare facilities, storage yard and contractors' parking area need to be located within an area of the site that is outside the Root Protection Areas (RPAs). The compound will remain at least 1 metre outside the RPAs, with access from the main access road.

All fuel storage and loose cement / sand are to be batched and stored in the compound area.

Groundworks, Level Changes, Foundations and Services

All spoil, including excavated soil and demolition material, will be removed from site or stored in a location remote from any tree protection barriers.

With regard to the drawings provided, the construction of foundations for the new build is located beyond the Root Protection Areas (RPAs) of retained trees; therefore, with regard to the health of the retained trees, no specialised foundation design is required. If the subsoil is found to be plastic, the foundations will be specified to take into account the potential influence of the vegetation on the moisture content and volume of the subsoil.

We recommend that all drainage and underground service routes are located beyond the RPAs of all the retained trees. If the service runs are to be located within an RPA, we recommend that this matter is dealt with by method statement secured by planning condition. If services are located within an RPA, special implementation techniques such as moling, airspade, or hand digging may be required by the LPA. In the majority of cases, however, careful excavation with a low tonnage mechanical excavator, supervised by the consultant arboriculturist from Landscape Planning Ltd, can adequately undertake services excavations.

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When tree roots are encountered, hand digging and root protection can then be undertaken as and when they are observed.

Dismantling Protection Barriers & Post Construction Site 'Sign Off'

Dismantling the protection barriers around retained trees may be required to allow completion of final surface treatments and landscaping. Supervision of this exercise and control of the landscaping thereafter will be administered by the appointed arboricultural consultant from Landscape Planning Ltd. The removal of the Tree Protection Fencing is not an opportunity for machinery to access the previously fenced off area.

No further excavation will be carried out during this process and soils levels will not be raised above that existing by greater than 100mm and not within 2m of the trunk. Any removal of existing structures within the Root Protection Areas, including gardens type walls or paths, will be carried out by hand.

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APPENDIX 8

TREE AND GROUND PROTECTION SPECIFICATION

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on retained hard surfacing or it is otherwise unfeasible to use ground pins, e.g. due to the presence of underground services, the stabilizer struts should be mounted on a block tray (Figure 3b).

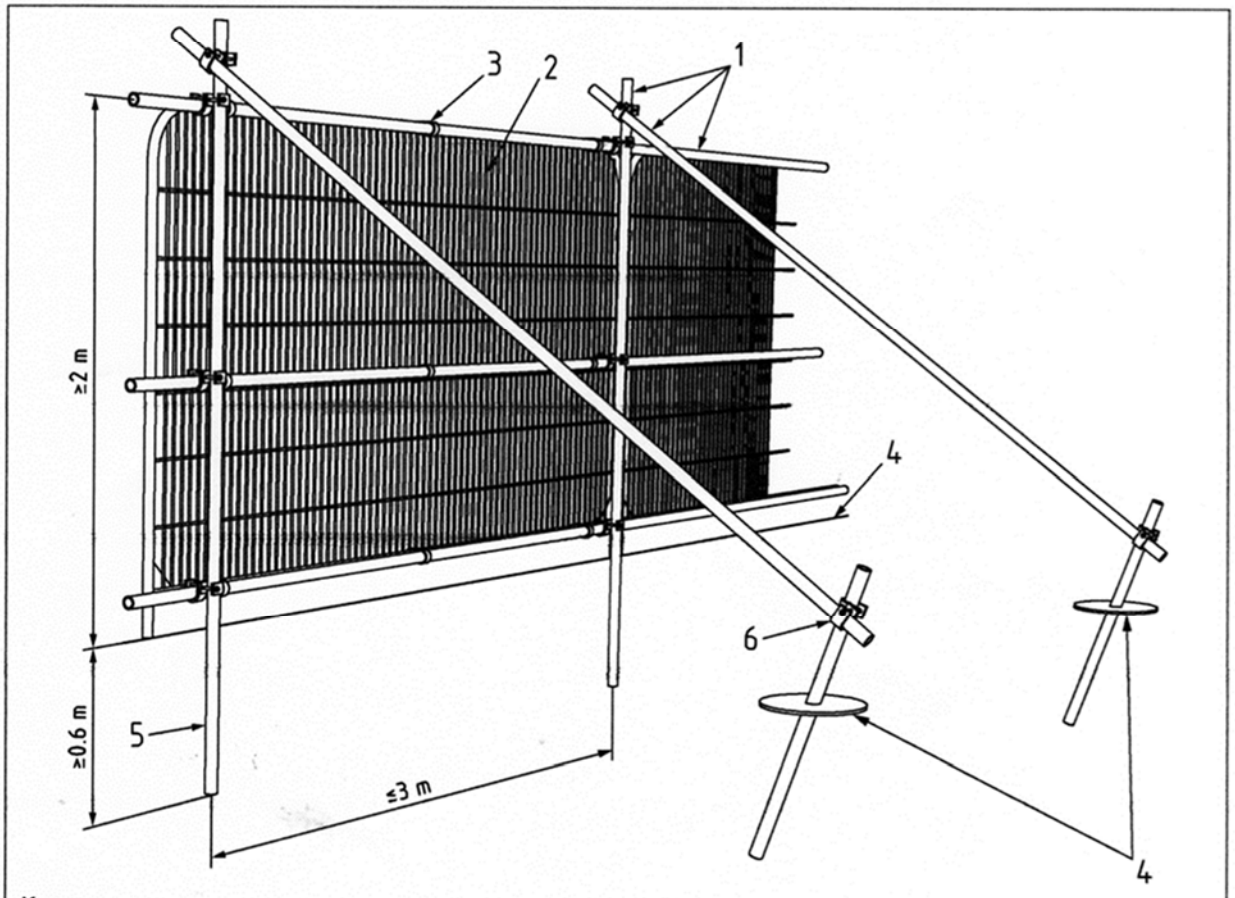
NOTE 1 Examples of configurations for steel mesh perimeter fencing systems are given in BS 1722-18.

NOTE 2 It might be feasible on some sites to use temporary site office buildings as components of the tree protection barriers, provided these can be installed and removed without damaging the retained trees or their rooting environment.

6.2.2.4 All-weather notices should be attached to the barrier with words such as:

"CONSTRUCTION EXCLUSION ZONE – NO ACCESS".

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

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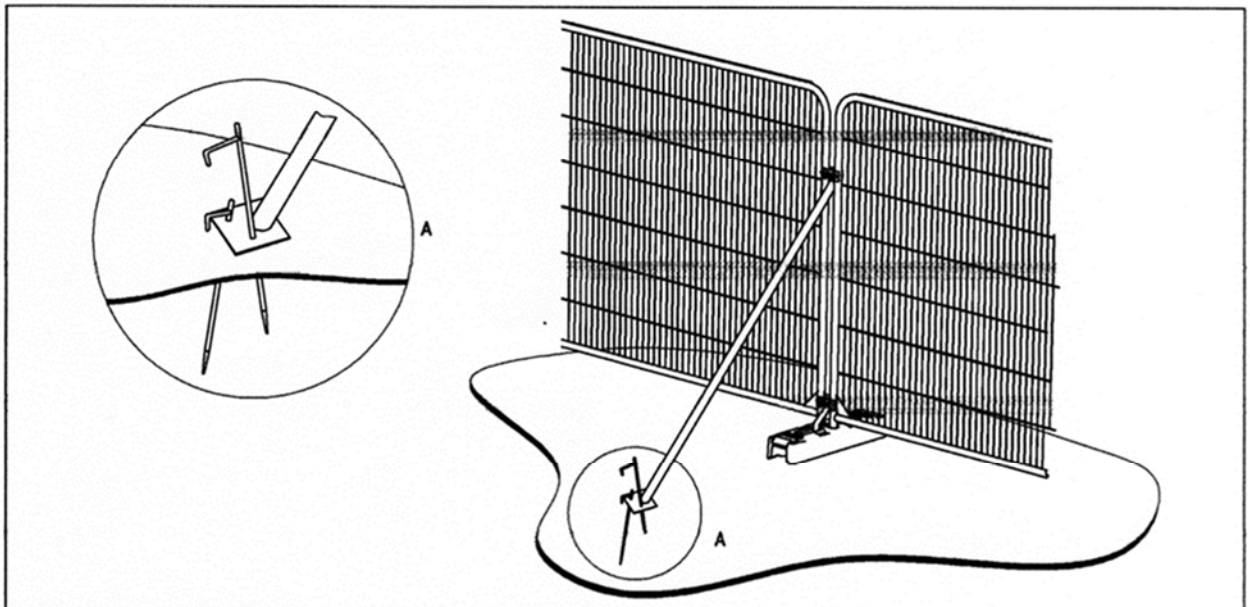
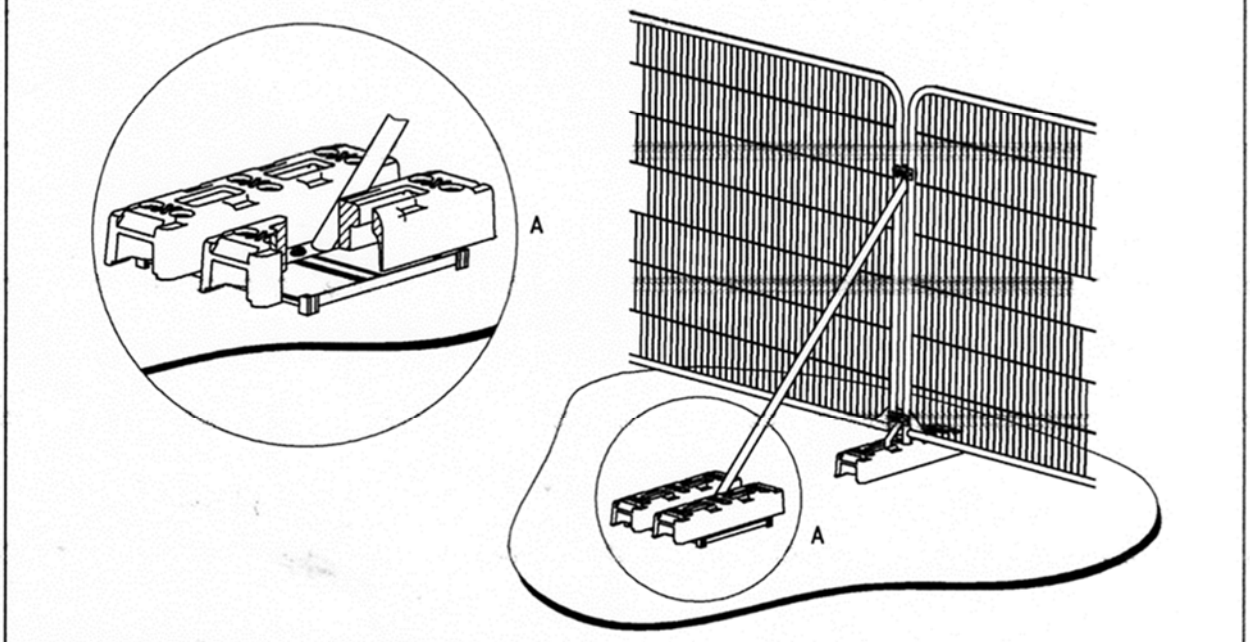
Figure 3 **Examples of above-ground stabilizing systems**



a) Stabilizer strut with base plate secured with ground pins



b) Stabilizer strut mounted on block tray

6.2.3 Ground protection during demolition and construction

6.2.3.1 Where construction working space or temporary construction access is justified within the RPA, this should be facilitated by a set-back in the alignment of the tree protection barrier. In such areas, suitable existing hard surfacing that is not proposed for re-use as part of the finished design should be retained to act as temporary ground protection during construction, rather than being removed during demolition. The suitability of such surfacing for this purpose should be evaluated by the project arboriculturist and an engineer as appropriate.

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SUGGESTED TREE PROTECTION SIGN

TREE PROTECTION AREA

KEEP OUT

(TOWN & COUNTRY PLANNING ACT 1990)

THE VEGETATION PROTECTED BY THIS FENCE IS PROTECTED BY PLANNING CONDITIONS AND/OR IS THE SUBJECT OF A TREE PRESERVATION ORDER.

IF YOU REQUIRE ACCESS INTO THIS AREA PLEASE CONTACT

info@landscapeplanning.co.uk

T: 01206 752539

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APPENDIX 9

PROPRIETARY INFORMATION FOR ‘REDUCED-DIG’ SUB-BASE

ProtectaWeb Method Statement

For the installation of ProtectaWeb Tree Root Protection System

Introduction

The Wrekin Tree Root Protection System is available in 4 different depths for varied traffic loadings, each site should have a specific design detailied to ensure the correct depth of product is used.

However, unless the existing ground conditions contain very weak soils and have a low CBR the the following can apply:

- Footpath System- Geogrid and Geotextile combination with Asphalt/Resin- for Pedestrains and Cycleways, no vehicular traffic.
- 75mm- For Pedestrians Cycleways and Vehicles up to 1.5tons
- 100mm- For Cars, 4 wheel drives, vans etc up to 6tons
- 150mm- For Fire engines, removal vehicles and dust carts up to 20-30tons
- 200mm- For Contruction vehicles, cranes etc 40tons and all above.

No dig System
Material List:

- ProtectaWeb 3 Dimensional Cellular Confinement System
- Root-Tex 30 minimum separation and protection fleece
- Root-Tex 10 minimum separation geotextile
- Steel 700mm staking pins
- Stapler and Staples/heavy cable ties
- 4/20mm or 40/20mm Clean Angular Stone to Bs EN 13242 and 12620
- Finish porous surfacing materials are preferable

Stage 1-Ground Preparation

- Remove surface vegetation to treat with suitable herbicide to level-under the supervision of the project Arboriculturist.
- Fill any hollows that may be in the exposed ground with no fines 4/20mm clean angular stone.
- Place Root-Tex 30 Geotextile over the area to be protected ensuring laps with a minimum of 300mm.
- Mark out the area to be protected with edging detail. For Example: Timber boards.

Stage 2-Installation of ProtectaWeb TRP

- Roll out Root-Tex 30 Geotextile to cover the area to be protected.
- Insert 4 equally spaced steel pins along the the width of the panel.
- Expand the panel over the Root-Tex 30 and the pins, extend to the required length, then pin across the opposite panel end.
- Pin along the length of the panel each side.
- If full panels are not being used then ensure the cells have been expanded to their full dimension.
- Staple or cable tie any adjacent panels together.

The ProtectaWeb panels can be cut to shape if required with a heavy duty Stanley Knife.

1. Wrekin Products Ltd is continually seeking to improve our products and therefore reserves the right to alter product specifications without prior notice.
2. It is the responsibility of all users to satisfy themselves that the above data is current.
3. Wrekin cannot be held responsible for the performance of these products as conditions of use are beyond our control.

106-1410A

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Stage 3-Filling the ProtectaWeb

Using 4/20mm or 40/20mm clean angular stone to Bs EN 13242 and 12620 (depending on the cell depth being used)

- Fill the cells of the ProtectaWeb with a 4/20mm or 40/20mm clean angular stone.
- Allow 25mm overfill for any settlement of the stone into the cells.
- If the area is to be trafficked immeadiately, slighly increase the amount of surcharge overfill to a maximumof 50mm over the ProtectaWeb with 4/20mm or 40/20mm clean angular stone.

Stage 4-Finish Surfacing Details

The ProtectaWeb TRP system can be surfaced with the materials listed below:

Finish 1- Block Paving

- Place Root-Tex 10 separtion fabric over the filled ProtectWeb
- Lay sand/gravel bedding material as per to manufacturers recommendations
- Place porous/standard blocks as per manufacturers instructions

Finish 2-Porous and standard Asphalt

- Slightly surcharge the ProtectaWeb with 25mm of 4/20mm or 40/20mm clean angular stone
- Place hot Asphalt as per to manufacturers instructions

Finish 3- Resin Bound Gravels

- Place Root-Tex 20 separation fabric over the filled ProtectaWeb
- Lay Asphalt carpet and resin bound gravel to the required thickness and as per the manufacturers instructions

Finish 4-Loose Gravel

- Option 1- Slightly overfill the ProtectaWeb with the clean angular stone
- Option 2- Place a 25mm thick decorative stone on top of the filled ProtectaWeb

Finish 5- CellTrack Gravel Retention System

- Place Root-Tex 10 separation geotextile over the filled ProtectaWeb
- 20mm bedding layer of 5mm single sized stone and lightly tamp
- Lay CellTrack porous pavers and fill with a 6-10mm decorative stone

Finish 6- CellTrack Grass Protection System

- Place Root-Tex 10 separation geotextile over the filled ProtectaWeb
- 70mm of Rootzone bedding layer (60% sand/40% soil) and lightly tamp
- Lay CellTrack porous pavers and fill with Rootzone mix, seed accordingly (please allow 4-6 weeks for the seed to germinate before trafficking)

NEW Finish 7- Trial-Flex

- Place Root-Tex 10 separation geotextile over the area for pedestrian protection.
- Roll over Egrid on top of the Geotextile (strength based per application)
- Cover to a depth of 50mm of TrialFlex porous flexible resin bound finish.

Finish 8- Concrete

- Place Root-Tex 10 separation Geotextile over the filled ProtectaWeb
- Cast the concrete slab over the Geotextile

WREKIN PROTECTAWEB

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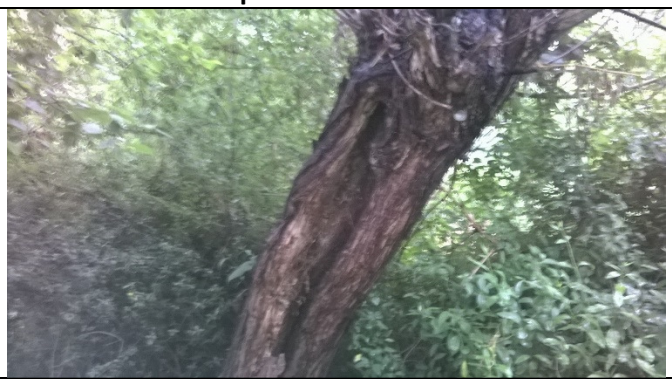
APPENDIX 10

PHOTOGRAPHS

Adjacent site

Japanese Knotweed

T41



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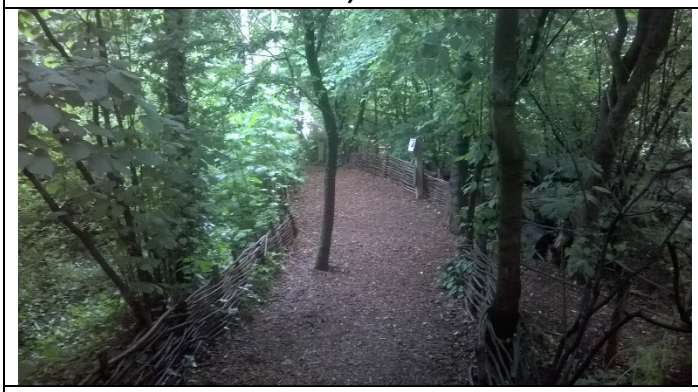

TG6

TG4, T64, T65

T119

APPENDIX 11

REPORT CAVEATS

General - Trees

Unless otherwise stated tree observations have been undertaken from ground level and using non-invasive techniques only. Comments contained within the report on the condition and risk associated with any tree relate to the condition of the tree at the date and time of survey. Please note that the condition of trees is subject to change. This change may occur, but is not limited to biological and non-biological factors as well as mechanical/ physical changes to conditions in the proximity of the tree. Trees should be inspected at intervals relative to identified site risks and in accordance with relevant HSE and Central Government guidance. Landscape Planning Group Ltd can provide further information on this matter if required.

Unless otherwise specified, no checks have been carried out in respect of statutory controls that may apply, e.g. Tree Preservation Orders, Conservation Areas or planning conditions. In addition, prior to undertaking any tree works, it is necessary to ensure due diligence is followed in respect of protected species and habitats.

Where tree surgery works have been identified these works are based on the assumption that planning is approved, no tree works should be undertaken prior to determination of this application without up to date confirmation of the Tree Preservation Order / Conservation Area Status of the vegetation. All works should be undertaken in accordance with the appropriate Duty of Care. This should include, for example, site specific risk assessments and due diligence inspections for the presence of protected species.

Any comment relating to 3rd party trees has been made without full access to the tree(s). Should these trees have any impact on the proposed development we would advise you to instruct us to contact the 3rd party and undertake further inspection work.

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Not a Design Statement or Method Statement

This report has been prepared in respect of development impacts on trees. The report provides details and makes in principle recommendations relating to tree protection, which may have implications for design, construction, materials and methods to be employed in the development. Any such recommendations should be approved by the relevant designer / competent person.

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