



November 2025
CBA11370QB v1C

Eastleigh Borough Council

ARBORICULTURAL DEVELOPMENT STATEMENT

Site:
One Horton - Quobleigh Breach



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The Complete Arboricultural Consultancy



ARBORICULTURAL DEVELOPMENT STATEMENT

Arboricultural Implications Assessment and Method Statement
guided by recommendations within BS5837:2012

Client:	Eastleigh Borough Council
Site:	One Horton Heath – Quobleigh Breach
Arboricultural Consultant:	Stefan Rose <i>BSc (Hons), TechCert (Arbor.A), TechArborA</i>
Date:	November 2025

SUMMARY

There is a development proposal for the Quobleigh Breach phase of the One Horton development consisting of new residential dwellings, access roads, footpaths, garden and open space alongside infrastructure; the proposal has been assessed broadly in accordance with BS5837:2012 *"Trees in Relation to Design, Demolition and Construction – Recommendations"*.

This Arboricultural Development Statement (ADS) will demonstrate the protection measures for the trees and should be read in association with the Tree Protection Plan CBA11370QB.02C TPP that identifies tree retention and protection measures. It follows the initial tree survey assessment.

The emphasis of the report is predominantly that of preservation and tree protection. It identifies methodologies to provide protection for trees, to ensure their healthy and safe retention during and post development, as guided by BS5837:2012 and current best practice.

A tree survey was completed in accordance with BS5837 by a third party (Tyler Grange) in September 2018 and was revisited in October 2020 and November 2022. CBA Trees undertook a site walkover in April 2023 to review the tree survey carried out by Tyler Grange.

Following the initial tree survey across the whole of the One Horton site, trees, groups, hedges and woodlands the trees subject of this development parcel total 46 individual trees, 15 groups of trees and 9 hedges.

Of these, 2 individual trees, 1 group of trees and 1 hedge will be removed for the development; a further 2 groups and 8 hedges are removed in part.

A total of 44 individual trees, 12 groups and 1 hedge are retained with 2 groups and 8 hedges retained in part. This includes all four of the veteran trees (Trees 8, 10, 14 and 19) in and immediately adjacent to the red line boundary of the Quobleigh Breach development phase.

CBA Trees believes that the trees highlighted for retention within this report can be retained without undue stress on their long-term health.

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SUPPORTING INFORMATION/APPENDICES:

CB1	Tree Survey Schedule with Root Protection Areas (undertaken by third party)
CB2	Tree Constraints Plan (ref: 11705_P01, undertaken by third party)
CB3	Tree Protection Plan CBA11370QB.02C TPP
CB4	Tree Works Schedule

GUIDING PRINCIPLES/APPENDICES:

CB5	Tree Protection Guidance Leaflet
	Construction Exclusion Zone Site Notice
	Common Causes of Damage During Construction Works
CB6	Qualifications and Experience

PART 1

ARBORICULTURAL IMPLICATIONS ASSESSMENT

1.0 INTRODUCTION

- 1.1 There is a development proposal for the Quobleigh Breach (The Site) phase of the One Horton Heath (OHH) development consisting of new residential dwellings, access roads, footpaths, garden and open space alongside infrastructure; the proposal has been assessed broadly in accordance with BS5837:2012 “*Trees in Relation to Design, Demolition and Construction – Recommendations*”.

- 1.2 This follows the Outline Approval (ref: O/20/89498) for Phased mixed-use development comprising severable and separate phases of development (as per the Phasing Plan) consisting of:

Up to 2,500 residential units in total (across The Lower Acre, Quobleigh Breach, The Upper Acre, Round Copse, The Holme, The Homestall, Chalcroft Farm and The Folds phases and partially within Chalcroft Outfarm Works phase);

A Local Centre (and supporting secondary local centres) on land up to 3.1ha comprising mixed-use residential/retail/leisure/community/employment/day nursery/food establishment uses (Local Centre Phase);

Further non-residential floorspace on land up to 5ha comprising of office, commercial and industrial uses and general industrial and storage & distribution uses (Chalcroft Outfarm works and Fir Tree Farm Hub phases and partially within the Chalcroft Farm phase);

A 3FE Primary School (Primary School Phase);

Public open space including formal sports facilities and informal provisions (across Green Infrastructure Phases);

Allotments, ecological, landscape and sustainable drainage works;

key infrastructure and utilities provision including new roads, footpaths, bridleways and cyclepaths;

Vehicular access from Allington Lane, Fir Tree Lane and Burnetts Lane with improvements to the existing road junction at Fir Tree Lane/Burnetts Lane; and

Site preparation and demolition works.

- 1.3 The proposal for The Site is:

Application for the approval of reserved matters (appearance, layout, scale and landscaping) for the development of 269 dwellings, associated open space, landscaping, parking and other associated works, pursuant to outline permission O/20/89498.

- 1.4 Document disclosure provided:

- 30071D/10
- RLB-P6 Quobleigh Breach
- 5018551-RDG-Z02-ST-DR-C-ALL XREF---ALL XREFS BOUND

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- 1.5 The client and project architects provided the original site plans and locations of the trees, and these have been the basis for the production of subsequent plans. Whilst CBA Trees has had a limited input in defining the contents of the development plan, it broadly conforms to the requirements of BS5837:2012 *"Trees in Relation to Design, Demolition and Construction – Recommendations"* and current best practice advice.
- 1.6 Our advice has been sought on the principles of the development in relation to the potential impact on the existing tree stock, to inform and to facilitate the development layout.

2.0 CLIENT'S BRIEF

- 2.1 In line with our written quotation and verbal instructions, information has been compiled in accordance with BS5837:2012 and current best practice advice.
- To undertake a site walkover to review the tree survey carried out by a third party (Tyler Grange).
 - Using the tree survey schedule, root protection area schedule and tree constraints plan produced by Tyler Grange, undertake an Arboricultural Implications Assessment (AIA) of the proposed development provided by the client to identify which trees will be lost, which can be retained and suggest mitigating build techniques in order to retain trees as appropriate.
 - Based on the above and further on-going discussions, to provide an Arboricultural Development Statement detailing the methodologies for the retention of the tree stock where feasible, in relation to the approved development layout including a Tree Protection Plan (CBA11370QB.02C TPP appended at CB3).
- 2.2 The advice provided has been formulated without discussion with the main ground or construction contractors who at this stage have not been appointed. Once the main contractors are appointed, amendments to this statement may be required for construction purposes. All amendments will be assessed by the retained arboricultural consultant and approved in writing by Eastleigh Borough Council Planning Officer/Tree Officer.

3.0 DESCRIPTION OF THE SITE

- 3.1 The site is located in the north western section of the OHH development and is approximately 7.03 hectares in size. The Site comprises of agricultural land.
- 3.2 At the time of the original survey, the site was divided by Fir Tree Lane (runs east to west) with two private properties present either side of the lane on the eastern side of the parcel of land.
- 3.3 One of the properties is a single Grade II listed farmhouse. Fir Tree Farm, is located to the east of the approximate northern half of the Site.
- 3.4 Since the original survey, the approved link road 'The Avenue' has been constructed (it was under construction at the time of the CBA Trees site visit in April 2023). This

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road runs north to south. In addition, the property to the southern side of Fir Tree Lane, Victoria House, has been demolished.

- 3.5 In general, the trees are located around the perimeter of the parcel, effectively around the field or garden boundaries that are defined by hedges or groups of trees.
- 3.6 There are several trees (T8, 10, 14 and 19) that are considered to be veteran trees, in or immediately adjacent to the red line boundary and these have been clearly identified within the survey and on the subsequent plans.
- 3.7 The site is undulating and mainly grass fields

4.0 THE TREE STOCK

- 4.1 A tree survey was completed in accordance with BS5837 by a third party (Tyler Grange) in September 2018 and was revisited in October 2020 and November 2022.
- 4.2 CBA Trees undertook a site walkover in April 2023 to review the tree survey carried out by Tyler Grange.
- 4.3 Following the initial tree survey across the whole of the One Horton site, trees, groups and hedges for this phase of work for Quobleigh Breach totals 46 individual trees, 15 groups of trees and 9 hedges as follows:

Individual trees: 8-19, 21, 52, 94, 100-107, 187-208

Groups of trees: Grp 8-Grp 11, Grp 19, Grp 20, Grp 38-Grp 42, Grp 44, Grp 71, Grp 94 and Grp 95

Hedges: H4-H8, H17-H20

The tree survey schedule and tree constraints plan by Tyler Grange (November 2022) are appended at CB1 and CB2 respectively.

- 4.4 The Tyler Grange tree survey schedule identifies veteran trees across the whole of the One Horton site with a pink box. Trees 8, 9, 10 and 14 are veteran trees within or adjacent to the red line boundary for this phase of work for Quobleigh Breach.

4.5 Tree Categorisation Method

Category U = Trees in such a condition that any value would be lost within 10 years or should be removed for reasons of sound arboricultural management. There were 4 (four) individual trees and 2 (two) groups of trees categorised within this grade at the time of surveying.

- **Individual Trees:** T13, T94, T101 and T196
- **Groups:** G94 and G95

Note:

“Category U trees are those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.”

Category A = Trees of high quality and value: in such a condition as to make a substantial contribution, (40 years or more is recommended). There were 11 (eleven) individual trees and 1 (one) group of trees categorised within this grade at the time of surveying.

- **Individual Trees:** T8, T10, T14, T16, T19, T187, T193 T197, T198, T202 and T206
- **Group:** G40

Category B = Trees of moderate quality and value, capable of making a significant contribution for in excess of 20 years. There were 25 (twenty five) individual trees and 3 (three) groups of trees classified as a moderate 'B' grade category at the time of surveying.

- **Individual Tree:** T9, T11, T15, T17, T18, T21, T52, T100, T102, T103, T104, T105, T106, T107, T188, T189, T190, T192, T194, T195, T200, T201, T203, T207 and T208
- **Groups:** G11, G39 and G41

Category C = Trees of low quality and value which might remain for a minimum of 10 years or young trees with stems of less than 150mm diameter. There were 5 (five) individual trees, 6 (six) groups of trees and 9 (nine) hedges classified as low 'C' grade category at the time of surveying.

- **Individual Trees:** T12, T191, T198, T204 and T205
- **Groups:** G8, G9, G10 G42, G44 and G71
- **Hedges:** H4, H5, H6, H7, H8, H17, H18, H19 and H20

Note:

"Trees under these categories are trees that should be a material consideration in the development process; the subcategories are intended to reflect arboricultural, landscape and cultural values respectively."

4.6 G19 was classified as a C/U group

4.7 G20 was classified as a C/B group.

4.8 For more details of the existing tree stock, refer to the tree survey schedule (appended at CB1).

5.0 TREE PRESERVATION ORDER/CONSERVATION AREA

5.1 The interactive mapping facility on the Eastleigh Borough Council website indicates that the trees are not protected by Tree Preservation Order and that the site does not lie within a Conservation Area at the time of compiling this report.

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- 5.2 If it is intended to carry out works to trees on site prior to the granting of Full Planning Consent and Discharge of Planning Conditions it is advised that checks are made with Eastleigh Borough Council prior to tree works being completed to confirm the legal protection status of the trees on and adjacent to the site and that appropriate notifications/applications have been made and allowed/granted.

6.0 PROPOSED TREE RETENTION AND TREE LOSS

- 6.1 In accordance with the recommendations contained within BS5837:2012, an experienced arboriculturist has assessed the requirements for tree protection and the Root Protection Area (RPA). The implications of the proposed development are detailed below, along with any mitigating measures to ensure the retention of these trees.
- 6.2 As part of the assessment, dimensions have been scaled from the proposed drawing, prepared and modified to include the relevant Tree Survey data (Tree Protection Plan CBA11370QB.02C TPP appended at CB3).
- 6.3 Two individual trees, 1 group and 1 hedge will be removed for the development, a further 2 groups and 8 hedges are removed in part.
- 6.4 A total of 44 individual trees, 12 groups and 1 hedge are retained with 2 groups and 8 hedges retained in part. This includes all four of the veteran trees (Trees 8, 10, 14 and 19) in and immediately adjacent to the red line boundary of the Quobleigh Breach development phase.
- 6.5 A section of G95 and H17 are indicated for removal for the link road to the local centre. These are outside of the redline boundary of The Site and are shown for clarity and to demonstrate that this will occur as part of the wider development.
- 6.6 There are 2 individual U grade trees (101 and 196) plus the section of G94 within the red line boundary that will be reduced and made safer so that they can be retained for habitat value.

7.0 SUMMARY OF ARBORICULTURAL IMPLICATIONS

- 7.1 The following is a summary of arboricultural implications as indicated on Tree Protection Plan CBA11370QB.02C TPP.

Table 1: Arboricultural Implications

<i>Tree No.</i>	<i>Species</i>	<i>BS 5837:2012 Cat</i>	<i>Potential cause of harm</i>	<i>Implication</i>	<i>Mitigation</i>
T8	English Oak	A1.2.3	• Contractor working space • Drainage and utilities • Footpath link • General contractor movements • Material storage and mixing	• Retained	• Veteran • Protected as detailed within this report and as shown on tree protection plan • Drainage and footpath works on perimeter of rooting area to be arboriculturally supervised

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Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
T9	Ash	B2	- Contractor working space - Drainage and utilities - Footpath link - General contractor movements - Material storage and mixing	Retained	Protected as detailed within this report and as shown on tree protection plan
T10	English Oak	A1.2.3	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing	Retained	- Veteran - Protected as detailed within this report and as shown on tree protection plan - Drainage works on perimeter of rooting area to be arboriculturally supervised
T11	English Oak	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing	Retained	Protected as detailed within this report and as shown on tree protection plan
T12	Scots Pine	C1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing	Retained	Protected as detailed within this report and as shown on tree protection plan
T13	English Oak	U	Under footprint of footpath link	Removed	- Replacement planting - Poor quality tree
T14	English Oak	A1.2.3	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing	Retained	- Veteran - Protected as detailed within this report and as shown on tree protection plan
T15	English Oak	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T16	English Oak	A1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T17	English Oak	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T18	Ash	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T19	Field Maple	A1.2.3	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	- Veteran - Protected as detailed within this report and as shown on tree protection plan
T21	English Oak	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound - Bridle way works	Retained	Protected as detailed within this report and as shown on tree protection plan

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Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
T52	Stone Pine	B2	Under footprint of development	Removed	Replacement planting
T94	Ash	U	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing	Retained	Protected as detailed within this report and as shown on tree protection plan
T100	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T101	English Oak	U	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	- Protected as detailed within this report and as shown on tree protection plan - Tree to be reduced and made safer for ecological habitat
T102	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T103	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	- Protected as detailed within this report and as shown on tree protection plan - Drainage works within rooting area to be arboriculturally supervised
T104	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works	Retained	Protected as detailed within this report and as shown on tree protection plan
T105	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works - Garden boundary treatment - Private garden access path	Retained	Protected as detailed within this report and as shown on tree protection plan
T106	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works - Garden boundary treatment - Private garden access path	Retained	Protected as detailed within this report and as shown on tree protection plan

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Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
T107	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works - Garden boundary treatment - Private garden access path	Retained	Protected as detailed within this report and as shown on tree protection plan
T187	English Oak	A2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T188	English Oak	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T189	English Oak	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T190	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T191	English Oak	C1	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T192	English Oak	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T193	English Oak	A1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Proposed footpath link - Proposed car parking - Garden boundary treatment	Retained	- Protected as detailed within this report and as shown on tree protection plan - Footpath to be of a no/minimal dig design - Footpath works to be arboriculturally supervised
T194	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan

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Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
T195	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T196	Ash	U	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	- Protected as detailed within this report and as shown on tree protection plan - Reduced and made safer for ecological habitat
T197	English Oak	A1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Proposed footpath link - Proposed car parking - Garden boundary treatment	Retained	- Protected as detailed within this report and as shown on tree protection plan - Fit for purpose ground protection - Footpath to be of a no/minimal dig design - Footpath works to be arboriculturally supervised
T198	English Oak	A1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Proposed footpath link - Proposed car parking - Garden boundary treatment	Retained	- Protected as detailed within this report and as shown on tree protection plan - Fit for purpose ground protection - Footpath to be of a no/minimal dig design - Footpath works to be arboriculturally supervised
T199	English Oak	C1	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T200	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T201	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T202	English Oak	A1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Proposed footpath link - Proposed car parking - Garden boundary treatment	Retained	- Protected as detailed within this report and as shown on tree protection plan - Fit for purpose ground protection - Footpath to be of a no/minimal dig design - Footpath works to be arboriculturally supervised

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Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
T203	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T204	English Oak	C1	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T205	English Oak	C1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T206	English Oak	A1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Proposed footpath link - Proposed car parking - Garden boundary treatment	Retained	- Protected as detailed within this report and as shown on tree protection plan - Fit for purpose ground protection - Footpath to be of a no/minimal dig design - Footpath works to be arboriculturally supervised
T207	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
T208	English Oak	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
G8	English Oak, Field Maple	C1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound - Bridle way works	Retained	Protected as detailed within this report and as shown on tree protection plan
G9	Leyland Cypress, Cherry	C1.2	Under footprint of development	Removed	Replacement planting
G10	Leyland Cypress, Goat Willow, Hawthorn, Cherry, Ornamental shrubs	C1.2	- Part under footprint of footpath link for development - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Part retained	- Retained section protected as detailed within this report and as shown on tree protection plan - Section removed for footpath link

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Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
G11	Field Maple x 2	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan
G19	English Oak, Ash, Hawthorn, Hazel	C1.2/U	- Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound - Bridle way works	Retained	Protected as detailed within this report and as shown on tree protection plan
G20	Leyland Cypress, Raywood Ash, Yew, English Oak, Hazel, Holly, Hawthorn	C1.2/B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works	Retained	Protected as detailed within this report and as shown on tree protection plan
G38	English Oak, Ash, understorey	U, C, B and A	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Proposed footpath link - Proposed car parking - Garden boundary treatment	Retained	- Protected as detailed within this report and as shown on tree protection plan - Group consists of individual trees 189-206
G39	Alder, Ash, English Oak, Goat Willow	B1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works - Garden boundary treatment	Retained	Protected as detailed within this report and as shown on tree protection plan
G40	English Oak, Ash, understorey Hawthorn, Hazel	A1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works - Garden boundary treatment	Retained	Protected as detailed within this report and as shown on tree protection plan
G41	Norway Spruce	B2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound - Bridle way works - Garden boundary treatment	Retained	Protected as detailed within this report and as shown on tree protection plan
G42	Hawthorn, Ash, Goat Willow, Dogwood	C1.2	- Contractor working space - Drainage and utilities - General contractor movements - Material storage and mixing - Material mixing and storage - Contractor compound	Retained	Protected as detailed within this report and as shown on tree protection plan

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ARBORICULTURAL IMPLICATIONS ASSESSMENT

Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
G44	Fig, Cherry, various ornamentals	C1.2	- Part under footprint of development - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Part retained	- Sections to be removed under development - Protected as detailed within this report and as shown on tree protection plan
G71	Oak, Ash, Wild Cherry, Hazel	C2	Unaffected by development proposals for this parcel	Retained	Protected as detailed within this report and as shown on tree protection plan
G94	Elm	U	Unaffected by development proposals for this parcel	Retained	Reduce and make safe and retain for ecological habitat
G95	Ash, Elm	U	Unaffected by development proposals for this parcel but will be removed for local centre road as part of wider development	Retained*	Protected as detailed within this report and as shown on tree protection plan
H4	Blackthorn, Hawthorn, Goat Willow, Field Maple	C1.2	- Part under footprint of development - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Part retained	- Sections to be removed under development - Protected as detailed within this report and as shown on tree protection plan
H5	Field Maple, Hawthorn, Blackthorn	C1.2	- Part under footprint of development - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound - Bridle way works	Part retained	- Sections to be removed under development - Protected as detailed within this report and as shown on tree protection plan
H6	Ash, Leyland Cypress, Hazel	C1.2	- Part under footprint of development - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Part retained	- Section to be clipped back/removed for footpath link - Hedge to clipped and managed - Protected as detailed within this report and as shown on tree protection plan
H7	Goat Willow	C1.2	- Part under footprint of development - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Part retained	- Sections to be removed under development and road link - Protected as detailed within this report and as shown on tree protection plan
H8	Hawthorn, Blackthorn	C1.2	- Part under footprint of development for footpath links - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Part retained	- Section to be clipped back/removed for footpath link - Protected as detailed within this report and as shown on tree protection plan
H17	Field Maple, Elm, Hawthorn	C1.2	Unaffected by development proposals for this parcel but will be removed for local centre road as part of wider development	Part retained	- Section to be clipped back/removed for footpath link - Protected as detailed within this report and as shown on tree protection plan

PART 1

ARBORICULTURAL IMPLICATIONS ASSESSMENT

Tree No.	Species	BS 5837:2012 Cat	Potential cause of harm	Implication	Mitigation
H18	Hawthorn	C1.2	- Part under footprint of development for footpath links - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound	Part retained	- Sections to be removed under development and road link - Protected as detailed within this report and as shown on tree protection plan
H19	Hawthorn, Field Maple, Elm, Blackthorn	C1.2	- Part under footprint of development for footpath links - Contractor working space - Drainage and utilities - General contractor movements - Material mixing and storage - Contractor compound - Bridle way works	Part retained	- Section to be clipped back/removed for footpath link - Protected as detailed within this report and as shown on tree protection plan
H20	Lawson Cypress, Western Red Cedar	C1.2	Under footprint of development	Removed	Replacement planting

* A section of G95 and H17 are indicated for removal for the link road to the local centre. These are outside of the redline boundary of The Site and are shown for clarity and to demonstrate that this will occur as part of the wider development.

PART 2

ARBORICULTURAL / CONSTRUCTION METHOD STATEMENTS

8.0 PRE-COMMENCEMENT SITE MEETING

- 8.1 It is recommended that a pre-commencement site meeting is held prior to any works commencing on site, to agree all approved processes with the arboricultural consultant, the construction personnel and Eastleigh Borough Council Tree Officer. This meeting could be used to formally agree the methods of work, position of site offices, material storage, compounds, parking and tree protection measures prior to commencement of the development and the associated clearance work.

9.0 ADDITIONAL ARBORICULTURAL ADVICE FOR SITE PERSONNEL

- 9.1 To provide site personnel with additional information regarding the requirements of Tree Protection, a leaflet (appended at CB5) shall be issued to all staff at the time of their site induction. Spare copies of this leaflet shall be available in the site office as replacements.
- 9.2 In order to inform site personnel of the purpose of the barriers, information notices shall be fixed to the barriers at 5m intervals. These notices shall be of all-weather construction and shall be in the form of the specimen provided at appendix CB5 and replaced as and when necessary.

10.0 PRE-DEVELOPMENT TREE WORKS

- 10.1 All tree works will be undertaken prior to the commencement of site preparation and construction works once full planning permission has been granted and any detail for planning conditions have been agreed with the Planning Case Officer/Tree Officer of Eastleigh Borough Council.
- 10.2 **All permitted or approved tree work** should be carried out in accordance with the British Standard “*Recommendations for Tree Work*” BS3998:2010, by suitably qualified and experienced professional arborists. Under no circumstances shall site personnel undertake any tree pruning operations. All tree surgery works should be carried out prior to the development of the site, and erection of protective barriers.
- 10.3 Consideration should be given to the timing of any tree works to avoid the active growing period of trees. Therefore, all tree work should ideally be carried out during the dormant period from November through to February and then again from June to August.
- 10.4 Due to the bird-nesting season, considered to be from 1st March through to the 31st July (Natural England) depending on weather conditions, consideration must also be given to the potential for nesting birds. It is advised that, where tree work is to be carried out within these months that an ecologist be consulted to:
- Complete or advise on a pre-works survey that needs to be carried out by a suitably competent person. As a general rule, it should be assumed that birds will be nesting in trees, and it is down to contractors to assess, record and confirm that any works carried out in the management of trees and other vegetation has not disturbed actively nesting birds.

- Ground vegetation, and therefore ground nesting birds, can often be overlooked by tree workers so additional care and controls should be taken when access and egress to the work site may also cause disturbance or damage to a nesting site. This is also true for retained trees on site as the removal of adjacent trees or remedial works on a tree may lead to an established nest being abandoned, exposed to the elements or predation. This action is also a breach of the Act and therefore could lead to prosecution due to the infringement of the Wildlife and Countryside Act 1981 and breaching the Conservation of Habitats and Species Regulations 2010 (as amended).
- 10.5 Although not apparent at the time of the site visit, consideration should also be given to the presence of bats, and a full visual assessment should be undertaken before any works are carried out on the trees. Where bats are identified as a serious concern, a bat survey should be undertaken by qualified and trained personnel to identify the needs of the bats (roosts, resting place etc) and no tree works can be carried out until the 'all clear' is given, or a programme of recommendations is received in writing.
- 10.6 The project Ecologists will be continually consulted throughout the tree works.
- 10.7 Should additional tree works become apparent during the construction process; written consent will be required from Eastleigh Borough Council tree team prior to these additional works being undertaken.
- 10.8 All tree works that are required to facilitate the development are detailed within the Tree Works Schedule appended at CB4.

11.0 TREE PROTECTION MEASURES

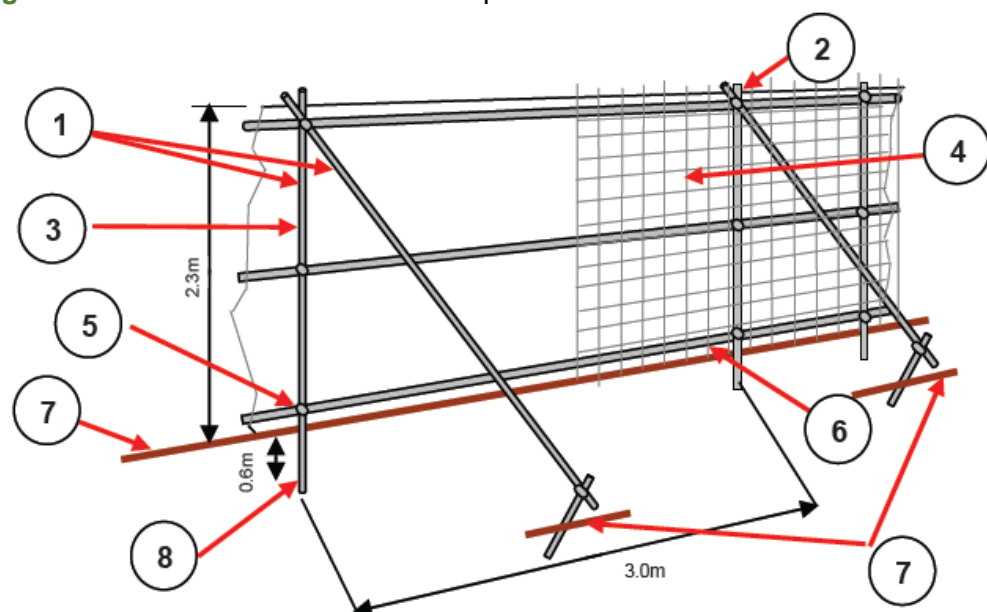
- 11.1 All site operations will be planned, implemented and supervised to prevent the following unless otherwise agreed within this report:
- Unplanned root severance
 - Damage to the bark, branches and trunks
 - Compaction of the soil within the Construction Exclusion Zone
 - Alterations in soil level
 - Soil contamination by phytotoxic materials such as herbicides, petrol, oils, diesel, cement and concrete washings or other construction additives
- 11.2 Before starting any site works in relation to this development proposal, tree protection measures will be installed in accordance with Tree Protection Plan CBA11370QB.02C TPP (appended at CB3). This will occur immediately following the completion of tree works and prior to any site preparation works starting.
- 11.3 It is of paramount importance that the fit for purpose ground protection is established on soft ground prior to site occupation or any other preliminary/enabling works relating to the development of the site.

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ARBORICULTURAL / CONSTRUCTION METHOD STATEMENTS

- 11.4 A copy of the Tree Protection Plan CBA11370QB.02C TPP will be displayed in the site office and canteen as a point of reference for all site operatives.
- 11.5 Installing the following protective barrier and fit for purpose ground protection as indicated on Tree Protection Plan CBA11370QB.02C TPP will protect retained trees. The barrier is to comprise of a vertical and horizontal framework, well braced to resist impacts, with vertical tubes spaced at a maximum interval of 3m. Onto this, weldmesh panels should be securely fixed with wire or scaffold clamps.
- 11.6 In accordance with Section 6.2.2.4 of BS5837:2012, weldmesh panels on rubber or concrete feet are not resistant to impact and will not be used for tree protection purposes.

Figure 1: Tree Protective Barrier example



1. Standard scaffold poles
2. Uprights to be driven into the ground
3. Panels secured to uprights with wire ties and where necessary standard scaffold clamps
4. Weldmesh wired to the uprights and horizontals
5. Standard clamps
6. Wire twisted and secured on inside face of barriers to avoid easy dismantling
7. Ground level
8. Approximately 0.6m driven into the ground

Example of protective barriers:

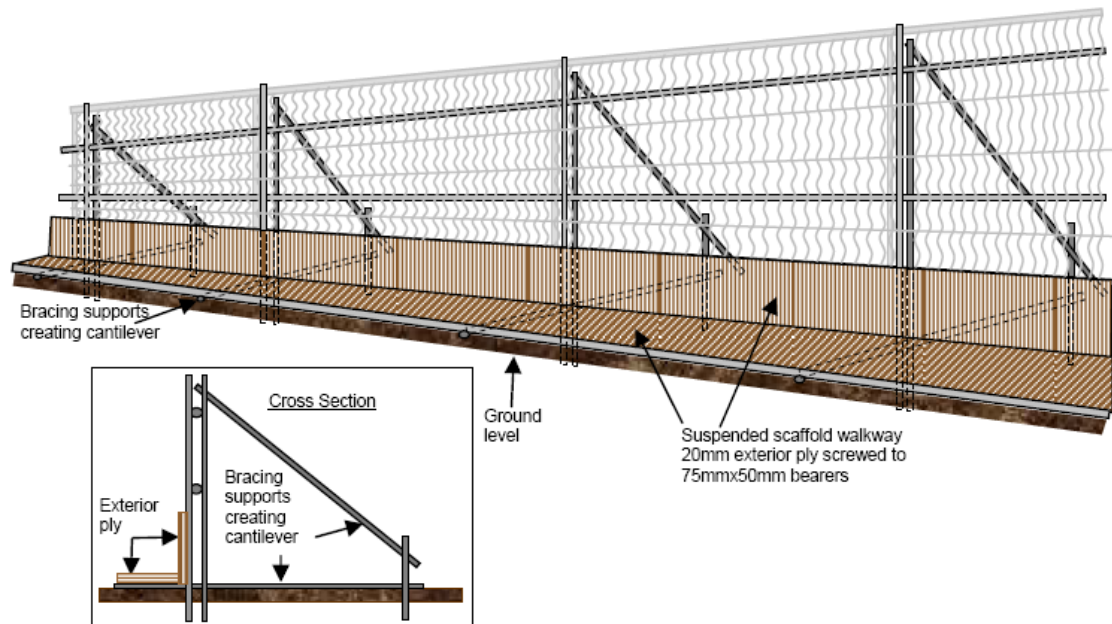


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ARBORICULTURAL / CONSTRUCTION METHOD STATEMENTS

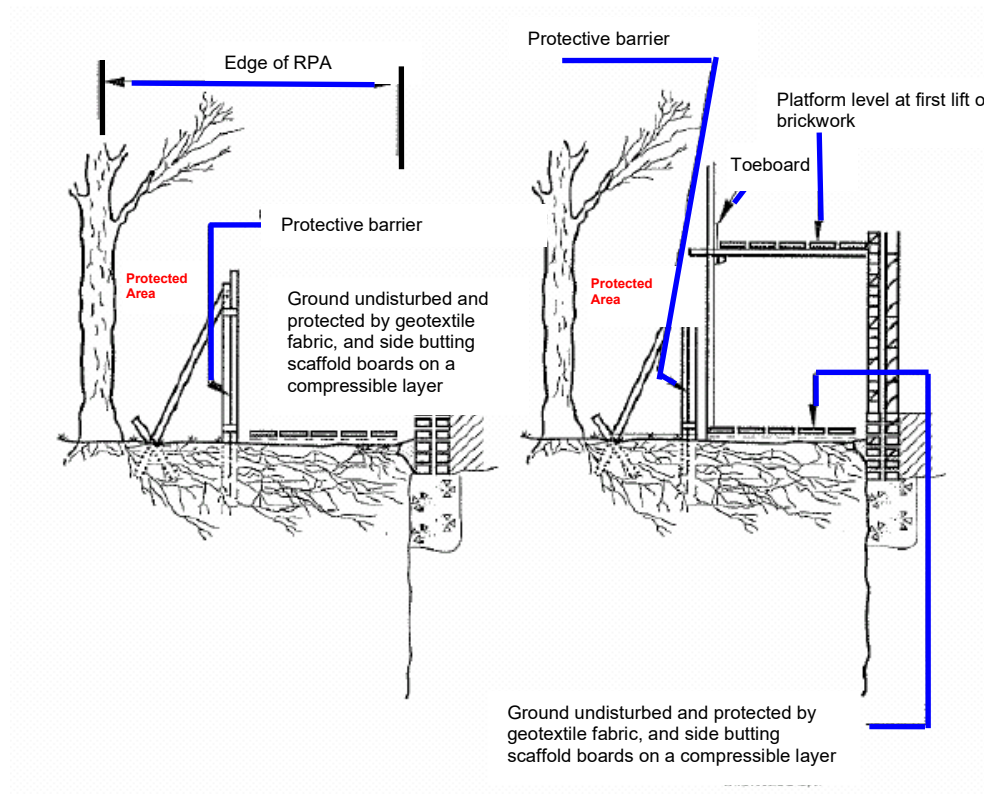
- 11.7 Trees 197 and 198 require construction activity within the identified Construction Exclusion Zone (CEZ). Ground protection will be implemented as per the Tree Protection Plan CBA11370QB.02C TPP.
- 11.8 Ground protection will be constructed in accordance with Figure 2 below, and consist of a suspended walkway decked with 20mm exterior grade Plyboard supported on 75 x 50mm bearers. The specification provides for pedestrian access only.

Figure 2: Pedestrian walkway within the Root Protection Area



- 11.9 An alternative approach is provided (Figure 3 below), the method will allow for construction and working space within the rooting area of trees. This method will consist of a single thickness of butt jointed scaffold boards supported on a 150mm thick layer of composted woodchip which is prevented from mixing with the underlying soil by geotextile separation layer.

Figure 3: Ground Protection Specification
(shown on next page)



12.0 EXISTING SERVICES

- 12.1 No information has been provided on the location and size of existing services. However, if there are any existing services within the RPA and CEZ of retained trees will not be chased out but cut at the edge of any structure and left *in-situ*.
- 12.2 Cabling will only be recovered from beneath a CEZ where it is located in ducting, and can be removed by winching from an existing service manhole beyond the CEZ.
- 12.3 Service pipes and ducts, where they are located within the CEZ or RPA of retained trees, will be made redundant either by pipe bursting or by filling with an inert material such as foamed concrete.

13.0 AVOIDING DAMAGE TO STEMS AND BRANCHES

- 13.1 Care shall be taken when planning site operations, to ensure that wide, tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact could result in serious damage to them, and might make their safe retention impossible. Consequently, any transit or traverse of plant in close proximity to trees, will be conducted under the supervision of a banksman, in order to ensure adequate clearance from trees is maintained at all times.

14.0 VEHICULAR MOVEMENTS

- 14.1 There should be minimal vehicular movement in the potential rooting zone and outside the CEZ formed by the tree protection barriers identified on Tree Protection Plan CBA11370QB.02C TPP.

15.0 SITING OF TEMPORARY OFFICES, TOILETS AND MATERIAL STORAGE COMPOUNDS

- 15.1 It is anticipated that all storage materials and deliveries shall make use of the existing driveway area as required at the site frontage, in order to avoid unnecessary damage to tree roots.
- 15.2 The locations shall be agreed in writing with the Planning Case Officer/Tree Officer of Eastleigh Borough Council prior to the commencement of works on site and will remain in only those agreed locations throughout the construction phases. If an alternative location is required, this must be agreed in writing with the Planning Case Officer/Tree Officer of Eastleigh Borough Council. This will also include the delivery, storage and movement of all essential facilities, as well as aspects such as temporary contractor vehicle parking and site location of chemical mixing (e.g. concrete). All such locations will be outside of the RPAs and avoid areas where 'run off' of chemicals may flow into RPAs.

15.3 Site Huts

All site huts that are to be situated on ground that is not existing hard surfacing, shall have appropriate footings or be situated on a temporary surface, which will aid in reducing the potential for compaction of the ground, where they are in close proximity to the existing tree protective barrier line. Site huts can be used as part of the protective barrier boundary, and in some cases, can be beneficial where installation does not conflict with the aerial parts of the tree.

15.4 Material Storage

This shall be accommodated outside of the CEZ formed by the tree protective barriers, particularly to avoid harmful spillages of fuel, or phytotoxic substances that may damage the health of retained trees.

16.0 GENERAL CONSIDERATIONS WITHIN AND OUTSIDE THE CONSTRUCTION EXCLUSION ZONE

- 16.1 Inside the CEZ formed by the tree protective measures, the following prohibitions shall apply:
- No construction activity will occur within the CEZ unless otherwise stated in this report or agreed in writing with the Planning Case Officer/Tree Officer of Eastleigh Borough Council prior to the specific activity taking place.

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16.2 In addition to the above, further precautions are necessary adjacent to trees outside the CEZ:

- Materials which will contaminate the soil e.g. concrete mixing, diesel oil and vehicle washings, shall not be discharged within 10 metres of the tree stem. This should take into consideration the topography of the site and slopes, to avoid materials such as concrete washings running towards trees.
- Fires shall not be lit in a position where their flames can extend to within 5 metres of foliage, branches or trunk. This will depend on the size of the fire and the wind direction.
- Notice boards, telephone cables or other services shall not be attached to any part of the tree (see appendix CB5 Common Causes of Damage During Construction Works)

17.0 GROUND LEVEL ALTERATIONS

17.1 There will be no increases or decreases to the ground levels within the root protection areas of the retained trees, group and hedges unless otherwise stated within this report. If levels adjacent to the RPAs are affected, then retaining structures must be designed to account for the retention of ground levels to avoid root loss through battering ground back.

18.0 REPORT DAMAGE TO TREES AND TREE PROTECTION BARRIERS

18.1 Should any damage be caused to the trees, group or hedges noted for retention, either by the above works or as the result of any other action, the damage should be reported to the site supervisor immediately. The site supervisor shall report up the chain of responsibility to the retained consultant arboriculturist, or in the absence of such an appointment, to an appropriately qualified arboriculturist, to enable remedial measures to be implemented as necessary and as agreed with the Eastleigh Borough Council's Tree Officer.

18.2 Should damage occur to a protective barrier to impair its function in protecting the trees, all work will cease near the damage, until the barrier has been returned to standard.

19.0 UTILITY SERVICE CONNECTIONS

19.1 Limited details of service location proposals have been forwarded to CBA Trees at the time of compiling this assessment. It is however assumed, given the location of the trees, that services will be installed outside the RPAs of retained trees, and connected to the existing where practicable, this will avoid disturbance of tree roots and ensure their healthy retention.

19.2 A proposed header wall and drainage run is proposed within the rooting area of T103. The position has been located to minimise the impact on the tree and the drainage run is on the opposite side of an existing ditch and it is therefore thought that the

impact on the tree will be limited. However, the works within the theoretical rooting area of the tree will be arboriculturally supervised.

20.0 INSTALLATION OF HARD SURFACING IN CLOSE PROXIMITY TO RETAINED TREES

20.1 Tree Protection Plan CBA11370QB.02C TPP indicates where no-dig hard surfaces are to be installed within the RPA of retained trees 193, 197, 198, 202 and 206. These surfaces must comply with the following requirements:

- The proposed hard surface will consider site-specific factors and will be designed in accordance with advice from a structural engineer drainage engineer and arboricultural consultant. This will result in a design which is fit for purpose, adequate for the task and sympathetic to the biological requirements of the trees.
- If ground levels are to be raised, this should be achieved with a granular material which does not inhibit gaseous exchange (such as no-fines gravel, washed aggregate or cobbles).
- Sub-base will consist of a non-binding, no fines granular material which does not inhibit water percolation or gaseous exchange.
- If a substantial area of fill is to be installed, provision will be made for the installation of irrigation and aeration system within the RPA of retained trees. Distance between pipes will not exceed 400mm, irrigation pipes will be connected to the surface water drainage system. Aeration pipes will be installed in between and will be protected by paving mounted grills.
- Depending on the load-bearing capacity of the soil determined through engineering testing, and the expected loads to be exerted on the soil, it may be necessary to incorporate a load suspension layer such as a 3 dimensional cellular confinement system. This layer must allow gaseous exchange both vertically and horizontally. Any load suspension system should only be used in accordance with the manufacturer's guidelines, and its installation should comply with any relevant health and safety guidance. CBA Trees can provide further information relating to appropriate systems on request.
- If the proposed area of no-dig hard surfacing is greater than 3 metres wide on one side of the tree, or it covers more than 20% of the RPA, it will be finished with a surface treatment which is permeable to gaseous and water movements.
- If water logging is likely to be a concern on a site, any proposed no-dig hard surfacing should be designed to direct water away from the base of the tree or provision made for the inclusion of surface water drainage.
- Any proposed no-dig hard surfacing will be designed to allow future growth of the roots and the base of the trunk, and as such should be no closer than 500mm from the trunk base. This will avoid future damage, both to the tree and engineered surface.

20.2 Wearing courses which could be installed over the granular material include:

- Washed Gravel – This is particularly useful as it retains its porosity (unless excessively consolidated), and can accommodate irregular shapes and changes in level. It is rarely suitable where vehicle or heavy pedestrian access is expected. Any gravel should have a low fines content to avoid low permeability resulting from consolidation.
- Paving Slabs and Pavers – These can be installed with infiltration spaces between the slabs, and should be installed dry-jointed and on a sharp sand-foundation.
- In-situ Concrete – This is an impermeable surface, so would require holes of at least 50mm diameter at 300-600mm spacings, (under advice from a structural engineer), which when filled with a no-fines gravel would allow for the movement of both water and gases to the rooting zone.
- Bitumen Paving – If implemented, this must be of a porous construction however, such surfaces will eventually become clogged with silt, and provision must be made for regular vacuum sweeping within the future maintenance of the surface or be installed in a similar way to the in-situ concrete, or be limited to less than 20% of the RPA.
- Other surfaces may be used but the final design of any no-dig hard surface should always be in agreement with a structural engineer and the retained arboriculturist.

20.3 If edge supports are required, they will be designed so as not to require any excavation of the existing soil surface, and should be in the form of either wooden or other edging materials, approved by a structural engineer and the retained arboriculturist. These edgings should be pinned in place, and the location of the pins should seek to avoid exposed surface or structural roots exceeding 25mm diameter. Construction of the surface will be considered at the design stage. All work will need to be completed, either from existing hard surface, or as rolling construction working from the finished hard surface to avoid the need for additional ground protection. This will prevent damage to the roots and rooting environment of retained trees.

20.4 All works within the rooting areas of the trees will be arboriculturally supervised.

21.0 INSTALLATION OF BOUNDARY FENCES

21.1 Tree roots extend well in excess of the RPA of retained trees and are mainly located in the upper 600mm of soil. As such, even minor levelling and excavation can result in extensive damage to the root system. Inappropriate access within the Construction Exclusion Zone formed by the tree protection measures for fence construction purposes can result in soil compaction and deterioration of the soil structure. Concrete used to support the posts is poisonous to plants and, if not controlled, can leach into the surrounding soil.

21.2 Fencing will be designed and constructed in accordance with the following specification:

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ARBORICULTURAL / CONSTRUCTION METHOD STATEMENTS

- Fencing will be designed so as to minimise the need for excavation and allow minor variations of up to 300mm between post spacings to allow repositioning of posts to permit the retention of all roots which are greater than 25mm which are discovered during the excavation of postholes within the RPA of retained trees.
- Fencing will be installed during period of dry weather so as to maintain soil structure and prevent compaction of the rooting environment.
- Fit for purpose ground protection will be placed along the line of construction to prevent compaction of the rooting environment of retained trees.
- Postholes within the RPA will be carefully excavated by hand to locate roots greater than 25mm in diameter. Postholes will be relocated to ensure that all roots over 25mm diameter are retained.
- Postholes within the RPA of retained trees will be poured as dry as possible and use a rapid set mix to reduce the contamination of the rooting environment.

21.3 Bracing of posts off retained trees will not be permitted under any circumstances.

22.0 SOFT LANDSCAPING WORKS

22.1 Any soft landscaping works within the development area will be in accordance with the approved landscape plan, and any specification of such works approved by the Eastleigh Borough Council.

22.2 CBA Trees has not been provided with the final landscaping proposals; however, all landscaping will accord with following requirements:

- Where landscaping works are to be carried out within the rooting areas of Trees after the main phase of construction has been completed, it will be necessary to alter the line of/remove protective barriers in order to facilitate the landscaping works.
- The construction exclusion zone will remain off limits for all site plant and machinery unless fit for purpose ground protection is installed. Pedestrian traffic must be kept to an absolute minimum only permitted for the ground preparation and landscape installation works
- The landscaping works will need to be undertaken in such a way as to avoid level changes, deep digging or mechanical rotovating. Excavation of planting pits within the RPA can cause serious harm to the root system of retained trees. Planting pits within the RPA of retained trees will be excavated by hand to avoid roots greater than 25mm and masses of smaller roots.



Figure 4:
Root severance as a result
of planting within RPA

Planting Trees and Shrubs. Watson G. W. and Himelick E. B. 1997

- If any planting pits are required within the rooting areas of retained trees these will be dug by hand and with care avoiding roots greater than 25mm diameter or masses of smaller roots.

22.3 Any surface mulch will consist of well-composted material such as bark or wood chips. This is necessary to avoid potential nutrient loss from the soil, such as Nitrogen, as the mulch breaks down, as nutrient loss can be detrimental to the health and longevity of retained trees.

23.0 SITE MONITORING AND SUPERVISION

- 23.1 It is recommended that on-going arboricultural site monitoring takes place for the duration of the proposed development, to be carried out by a qualified and experienced arboriculturist at pre-determined and agreed time intervals, and governed by the type, timing, location and intensity of site works. Eastleigh Borough Council to Condition site monitoring if required.
- 23.2 If Conditioned, it will take the form of regular inspections (to be agreed, but at least one visit per month during the construction phase of the development is advised, together with additional visits to supervise works with the CEZ of retained tree/s), the aim of the visits is to maintain on-going liaison with all personnel involved in the site development, Eastleigh Borough Council and its Tree Officer.
- 23.3 Any defects requiring rectification shall be notified to the Contractor/Site Manager and the client.
- 23.4 In addition, a site logbook for tree protection measures is kept recording all stages of the development from the erection of the protective barriers, right through to the completion of the project. This will be made available to the arboricultural consultant and Eastleigh Borough Council if required, to show evidence of continuous site monitoring.

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ARBORICULTURAL / CONSTRUCTION METHOD STATEMENTS

Example pro-forma:

Date	Activity	Checked	Comments/ damage noted	By whom	Signed	Action taken
	Erection of protective barriers					
	Inspection of protective barriers					

- 23.5 The Eastleigh Borough Tree Officer (or appropriate representative) will have agreed access to the site and will report on any problem areas directly to the developer's retained arboriculturist, who will then visit the site and make recommendations to the developer on how best to rectify the situation and ensure the implementation.

24.0 REMOVAL OF PROTECTIVE BARRIERS

- 24.1 When the site preparation, ground works and external construction phases for the new extension are complete and all site machinery has been removed from site, the protective barriers will be dismantled.
- 24.2 This barrier dismantling must be undertaken with great care and will need to be supervised to avoid heavy machinery being used within the Root Protection Areas. Hoarding, scaffolding and other barrier materials will need to be removed from site immediately.

25.0 CONCLUSIONS

- 25.1 There is a development proposal for the Quobleigh Breach phase of the One Horton development consisting of new residential dwellings, access roads, footpaths, garden and open space alongside infrastructure; the proposal has been assessed broadly in accordance with BS5837:2012 *"Trees in Relation to Design, Demolition and Construction – Recommendations"*.
- 25.2 Two individual trees, 1 group of trees and 1 hedge will be removed for the development, a further 2 groups and 8 hedges are removed in part.
- 25.3 A total of 44 individual trees, 15 groups and 1 hedge are retained with 2 groups and 8 hedges retained in part. This includes all four of the veteran trees in and immediately adjacent to the red line boundary of the Quobleigh Breach development phase.
- 25.4 Of the U grade trees within the red line boundary, trees 101 and 196 plus the section of G94 within the red line boundary will be reduced and made safe so that they can be retained for habitat value.
- 25.5 It is our opinion that the trees, group and hedges identified for retention can be afforded due respect and provided adequate protection, ensuring their safe and healthy retention during the development process.

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- 25.6 Provided the recommendations included within this report are strictly adhered to, CBA Trees believes the trees highlighted for retention within this report can be retained without undue stress on their long-term health.

26.0 CONTACT LIST

- 26.1 It is suggested that points of contact and lines of communication are established prior to commencement of the works on site including:

- Arboricultural Consultant
- Project Architect
- Eastleigh Borough Council's Tree Officer
- Eastleigh Borough Council's Planning Case Officer
- Site Supervisor and Foreman

- 26.2 It is advised that the site supervisor establishes their own listing of contact details at the pre-start site meeting and displays this in their office for general use as necessary.

27.0 BIBLIOGRAPHY

- British Standard 5837:2012 –
"Trees in Relation to Design, Demolition and Construction - Recommendations"
- British Standard 3998:2010 –
"Recommendations for Tree Work"
- National Joint Utilities Group Publication Volume 4 –
"Guidelines for the planning, installation and maintenance of utility services in proximity to trees"
- Wildlife and Countryside Act 1981
- Conservation of Habitats and Species Regulations 2010 (as amended)
- Town and Country Planning Acts







A tree survey was completed in accordance with BS5837 by a third party (Tyler Grange) in September 2018 and was revisited in October 2020 and November 2022.

CBA Trees undertook a site walkover in April 2023 to review the tree survey carried out by Tyler Grange.

Following the initial tree survey across the whole of the One Horton site, trees, groups and hedges for this phase of work for Quobleigh Breach totals 46 individual trees, 15 groups of trees and 9 hedges as follows:

Individual trees: 8-19, 21, 52, 94, 100-107, 187-208

Groups of trees: Grp 8-Grp 11, Grp 19, Grp 20, Grp 38-Grp 42, Grp 44, Grp 71, Grp 94 and Grp 95

Hedges: H4-H8, H17-H20

The tree survey schedule and tree constraints plan by Tyler Grange (November 2022) are appended following, at CB1 and CB2 respectively.

The Tyler Grange tree survey schedule identifies veteran trees across the whole of the One Horton site with a pink box. Trees 8, 9, 10 and 14 were identified as veteran trees within the Tyler Grange survey and are within or adjacent to the red line boundary for this phase of work for Quobleigh Breach.

Appendix 4: Cascade Chart for Tree Quality Assessment

TREES FOR REMOVAL				
Category and Definition		Criteria		Identification on Plan
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years		Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning). Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline. Trees infected with pathogens of significance to the health and/or safety of other trees nearby or very low-quality trees suppressing adjacent trees of better quality. (NOTE: Category U trees can have existing or potential conservation value which it might be desirable to preserve)		DARK RED
TREES TO BE CONSIDERED FOR RETENTION				
Category and Definition	Criteria - Subcategories			Identification on Plan
	1.Mainly Arboricultural Values	2. Mainly Landscape Values	3. Mainly Cultural Values, including Conservation	
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)	‘LIGHT GREEN
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remedial defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural benefits.	MID BLUE
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or temporary/transient landscape benefit.	Trees with no material conservation or other cultural value.	GREY



Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T1									Removed						
T2									Removed						
T3	English Oak	11m	880	6.00	7.25	6.25	6.75	4.50	Mature	Good	Good	A1.2	10.6	350	n/a
T4	Common Alder	8m	2x 225	4.00	4.00	4.00	4.00	3.50	Early Mature	Good	Fair	C1.2	3.8	45	n/a
T5	English Oak	13m	800	9.75	9.75	9.75	9.75	4.75	Mature	Fair	Good	B1.2	9.6	289	n/a
T6	English Oak	17m	1200		9.00 into site			6.5 site	Veteran	Good	Good	A1.2.3	14.4	651	18
T7	English Oak	17m	1200		11.00			2.75 site	Veteran	Good	Good	A1.2.3	14.4	651	18
T8	English Oak	18m	2x 850		10.00			4.50	Veteran	Good	Good	A1.2.3	14.4	651	18
T9	Ash	15m	675#		5.50			7.00 site	Mature	Fair	Fair	B2	8.1	206	n/a
T10	English Oak	16m	1250+		9.25			4.75 site	Veteran	Good	Good	A1.2.3	15.0	707	18.75
T11	English Oak	14m	850	6.50	9.25	7.00	8.50	5.00 site	Mature	Good	Fair	B1.2	10.2	327	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T12	Scots Pine	14m	780	5.00	8.75	5.00	4.00	8.00	Mature	Poor	Poor	C1.2	9.4	275	n/a
T13	English Oak	8m	350, 450	4.00	4.00	4.00	4.00	-	Dead	Dead	Dead	U	n/a	n/a	n/a
T14	English Oak	12m	1250+	6.00	16.00	12.00	11.75	5.00	Veteran	Fair	Fair	A1.2.3	15.0	707	18.75
T15	English Oak	13m	800	9.00	7.00	8.00	8.25	5.00	Mature	Fair	Fair	B1.2	9.6	289	n/a
T16	English Oak	14m	990	10.00	10.00	11.00	10.75	5.00	Mature	Good	Good	A1.2	11.9	443	n/a
T17	English Oak	15m	850	8.00	4.50	11.25	9.50	5.00	Mature	Good	Fair	B1.2	10.2	327	n/a
T18	Ash	15m	450, 350, 300, 500	4.00	6.25	8.00	4.50	8.00	Mature	Fair	Poor	B2	9.8	302	n/a
T19	Field Maple	10m	3x 500		8.25			1.50	Veteran	Good	Fair	A1.2.3	10.4	340	13
T20	English Oak	17m	1250+		11.50			3.00 site	Veteran	Good	Good	A1.2.3	15.0	707	18.75

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T21	English Oak	14m	980	10.00	10.00	10.00	10.00	6.00	Mature	Fair	Fair	B1.2	11.8	434	n/a
T22	English Oak	12m	780	8.00	9.50	7.00	3.00	2.75	Mature	Fair	Fair	B1.2	9.4	275	n/a
T23	English Oak	13m	750	7.00	7.00	7.00	7.00	1.50	Mature	Good	Good	B1.2	9.0	254	n/a
T24	English Oak	15m	1250+		9.00			4.50	Veteran	Fair	Fair	A1.2.3	15.0	707	18.75
T25	Hawthorn	5m	6x 180	3.25	3.50	2.75	3.50	1.00	Mature	Fair	Fair	C1.2	5.3	88	n/a
T26	English Oak	17m	900	8.00	8.00	8.00	8.00	5.50 site	Veteran	Good	Good	A1.2	10.8	366	13.5
T27	English Oak	13m	1000	10.75	10.75	10.75	10.75	2.50	Mature	Fair	Good	A1.2	12.0	452	n/a
T28	English Oak	11m	800	7.00	7.25	8.00	6.00	4.00	Mature	Fair	Fair	B1.2	9.6	289	n/a
T29	English Oak	14m	1150	9.00	8.50	10.00	8.00	5.00 site (N)	Mature	Fair	Fair	A1.2	13.8	598	n/a
T30	English Oak	7m	300	4.00	4.00	4.00	4.00	4.00	Semi Mature	Good	Fair	C1.2	3.6	41	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T31	Ash	8m	13x 250 ave	8.25	6.00	7.50	5.00	1.50	Mature	Fair	Fair	C1	10.8	366	n/a
T32	Holly	6m	3x 200	2.00	2.00	2.00	2.00	0.00	Mature	Poor	Poor	C1.2	4.2	55	n/a
T33	English Oak	9m	650	6.00	4.75	8.25	8.75	4.00 (S)	Mature	Fair	Fair	B2	7.8	191	n/a
T34	Field Maple	8m	425, 380	8.00	4.75	4.50	3.00	4.00 (S)	Mature	Fair	Fair	B2	6.8	145	n/a
T35	English Oak	8m	500	6.75	7.25	6.50	4.50	4.50 (S)	Mature	Fair	Fair	B2	6.0	113	n/a
T36	English Oak	13m	1250+	6.75	9.25	8.25	8.25	4.00	Veteran	Fair	Good	A1.2.3	15.0	707	18.75
T37	English Oak	11m	1250+	9.50	6.00	6.00	7.00	3.00	Veteran	Fair	Fair	A1.2.3	15.0	707	18.75
T38	Removed														
T39	Oak	12m	800	6.50	8.00	8.50	5.50	3.00	Mature	Fair	Fair	B1.2	9.6	289	n/a
T40	English Oak	12m	1000	7.50	6.50	6.50	5.50	4.00	Veteran	Fair	Fair	A1.2.3	12.0	452	15

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T41	English Oak	9m	575	7.50	7.00	5.00	5.00	4.50	Mature	Fair	Fair	B2	6.9	149	n/a
T42	English Oak	19m	1250+	11.00	11.00	11.00	11.00	4.00	Veteran	Good	Good	A1.2.3	15.0	707	18.75
T43	English Oak	15m	850	8.25	8.25	8.25	8.25	4.00	Veteran	Fair	Good	A1.2.3	10.2	327	12.75
T44	English Oak	15m	1000	7.00	8.75	9.00	8.00	5.00	Veteran	Good	Good	A1.2.3	12.0	452	15
T45	English Oak	14m	980	10.00	8.00	10.00	8.00	5.00	Mature	Fair	Good	A1.2	11.8	434	n/a
T46	English Oak	15m	1300	7.50	8.25	9.00	8.00	5.00 (N) 3.00 (S) ave	Veteran	Good	Good	A1.2.3	15.0	707	19.5
T47	English Oak	11m	800	8.00	7.00	7.00	7.00	4.00	Mature	Fair	Fair	A1.2	9.6	289	n/a
T48	English Oak	15m	1300	9.00	9.50	10.00	10.00	4.50 (N) 5.50 (S)	Mature	Poor	Poor	C1.2/U	15.0	707	n/a
T49	English Oak	15m	860	10.00	12.00	11.00	2.00	5.00 (S)	Mature	Fair	Poor	C1.2	10.3	334	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T50	English Oak	14m	750	8.00	9.00	8.00	9.00	6.00 (S)	Mature	Fair	Fair	B1.2	9.0	254	n/a
T51	Ash	11m	775	4.75	5.00	6.00	8.00	5.00	Mature	Dead	Dead	U	9.3	272	n/a
T52	Stone Pine	6m	6x 200	4.50	4.50	4.50	4.50	1.50	Mature	Good	Good	B2	5.9	109	n/a
T53	Hawthorn	6m	380	4.00	4.00	3.00	2.50	4.00 (S)	Mature	Poor	Fair	C1.2	4.6	65	n/a
T54	Ash			Collapsed								N/a	N/a	N/a	N/a
T55	Ash	8m	350	3.50	3.50	3.50	3.50	3.00 (S)	Mature	Poor	Poor	C1.2	4.2	55	n/a
T56	Common Alder	15m	750, 600	6.00	8.50	8.00	8.50	4.50 (E)	Mature	Fair	Fair	B1.2	11.5	415	n/a
T57	Ash	17m	650	8.00	4.00	3.00	3.00	8.00 (E)	Mature	Poor	Poor	C1.2	7.8	191	n/a
T58	English Oak	18m	1250+	12.00	10.50	11.00	10.00	4m	Veteran	Good	Good	A1.2.3	15.0	707	18.75

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T59	English Oak	10m	500	5.50	5.00	3.00	3.00	4.00	Mature	Fair	Fair	B2	6.0	113	n/a
T60	Hawthorn	5m	250	2.00	2.00	2.00	2.00	2.00	Mature	Fair	Fair	C1.2	3.0	28	n/a
T61	English Oak	12m	1250+	9.25	9.25	9.25	9.25	5.50	Dead	Dead	Poor	U	n/a	n/a	n/a
T62	Ash	9m	200, 300	6.00	6.00	6.00	6.00	4.00	Mature	Fair	Fair	C1.2	4.3	58	n/a
T63	English Oak	11m	500	5.00	5.00	5.00	5.00	4.00	Mature	Fair	Fair	B2	6.0	113	n/a
T64	English Oak	12m	680	6.00	8.00	10.00	10.00	5.00	Mature	Good	Fair	B1.2	8.2	209	n/a
T65	English Oak	12m	1150	6.50	7.75	8.50	7.75	5.00 (N) 3.00 (S)	Mature	Fair	Fair	B2.3	13.8	598	n/a
T66	English Oak	14m	930	7.75	7.00	8.25	6.00	3.00, 5.00 (W)	Mature	Good	Fair	B1.2	11.2	391	n/a
T67	English Oak	16m	1200	11.00	10.50	11.00	7.50	2.00 tips, 6.00 limbs	Veteran	Good	Good	A1.2.3	14.4	651	18

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T68	English Oak	15m	1200	5.25	12.50	12.00	11.00	8.00 (N), 4.00 (W)	Veteran	Fair	Poor	A3	14.4	651	18
T69	Ash	14m	650	11.50	2.00	2.00	11.50	4.50 (N)	Mature	Poor	Poor	U	n/a	n/a	n/a
T70	English Oak	13m	750	5.00	2.50	10.00	11.00	4.00 (N)	Mature	Fair	Poor	B2	9.0	254	n/a
T71	Weeping Willow	12m	775	4.75	5.00	8.25	6.50	0.50 tips, 2.50 limbs	Mature	Good	Fair	B1.2	9.3	272	n/a
T72	English Oak	14m	1150	11.00	10.00	10.50	8.75	5.00, 1.50 (E)	Veteran	Good	Good	A1.2.3	13.8	598	17.25
T73	Silver Birch	9m	320	4.75	4.75	4.75	4.75	1.25	Mature	Good	Good	B1.2	3.8	46	n/a
T74	Pear	11m	750	7.00	7.00	7.00	6.00	2.75	Mature	Good	Good	B1.2	9.0	254	n/a
T75	English Oak	13m	1100	8.00	10.75	10.75	10.75	3.00	Veteran	Good	Good	A1.2.3	13.2	547	16.5
T76	English Oak	14m	1060	4.00	8.00	10.00	10.50	3.00	Mature	Fair	Fair	B1.2	12.7	508	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T77	English Oak	15m	1040	9.25	10.50	4.00	11.50	3.00	Mature	Poor	Fair	C1	12.5	489	n/a
T78	Sycamore	15m	890	9.00	10.00	9.00	9.50	4.00	Mature	Fair	Good	B1.2	10.7	358	n/a
T79	English Oak	17m	1600	10.00	6.00	8.00	8.00	6.00	Veteran	Fair	Good	A1.2.3	15.0	707	24
T80	English Oak	12m	540	6.00	4.00	3.00	6.00	7.50	Mature	Poor	Fair	C1	6.5	132	n/a
T81	English Oak	16m	900	7.00	8.00	8.00	9.00	4.50	Mature	Fair	Fair	A1.2	10.8	366	n/a
T82	Field Maple	6m	300#	5.00	5.00	5.00	5.00	3.00	Mature	Fair	Fair	B2	3.6	41	n/a
T83	English Oak	12m	350	4.00	3.00	6.00	6.00	4.50	Early Mature	Fair	Fair	B2	4.2	55	n/a
T84	Horse Chestnut	9m	750	7.00	6.00	4.00	6.00	3.00	Mature	Good	Fair	B1.2	9.0	254	n/a
T85	English Oak	12m	650, 500	7.75	7.00#	7.00#	9.00	4.00	Mature	Good	Fair	B1.2	9.8	302	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
T86	English Oak	9m	300, 400	7.00	6.00	5.00	5.00	4.50	Early Mature	Good	Good	B2	6.0	113	n/a
T87	Japanese cedar	10m	450		2.50			0.00	Mature	Good	Good	B2	5.4	92	n/a
T88	Cherry	7m	170;240;300	6.25	4.50	5.50	4.25	3.50	Mature	Good	Good	B2	5.0	79	n/a
T89	Yew	7m	700	1.50	3.50	4.00	4.75	2.25	Mature	Fair	Good	A2	8.4	222	n/a
T90	Yew	11m	850	4.50	4.50	2.75	5.50	2.50	Mature	Good	Good	A1.2	10.2	327	n/a
T91	Silver birch	5m	290	3.00	4.25	3.50	3.00	1.50	Mature	Good	Good	C2	3.5	38	n/a
T92	Norway spruce	14m	520	1.00	4.75	5.50	3.75	3.00	Mature	Fair	Poor	U	6.2	122	n/a
T93	Plum	6m	250 x 3	3.75	5.25	4.25	0.50	1.25	Mature	Fair	Fair	C2	5.2	85	n/a
T94	Black locust	12m	320;500	7.25	10.25	6.00	2.00	1.25	M	Good	Fair	B2	7.1	158	n/a
T95	Sweet gum	7m	250		4.00			0.50	Semi mature	Good	Fair	C1	3.0	28	n/a
T96	Apple	4m	300;200;150;150	3.00	3.00	3.00	4.50	2.00	M	Good	Fair	B2	5.0	79	n/a
G1	English Oak x 1	11m	620	10.00	7.00	8.00	5.50	5.00	Mature	Fair	Fair	B1.2	10.2	327	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G2	English Oak, Ash, Hawthorn, Silver Birch, Lawson Cypress	11m max	500 max			6.00 max into site		3.00 site	Early Mature to Mature	Fair	Fair	C1.2/B2	6.0	113	n/a
G3	Common Alder, Ash, Hawthorn, Hazel	13m max	2x 400, 2x 600 max, 350 ave			6.25 ave		6.00	Mature	Poor to Good	Poor to Good	U/C1/B2	n/a	n/a	n/a
G4	English Oak, Common Alder	13m ave	1200 max 450 ave			11.00 max 8.00 ave		4.00 ave	Mature	Good	Fair	B1.2	n/a	n/a	n/a
G5	English Oak, Ash, Scots Pine	13m	900 max			8.00 ave		3.00 ave	Early Mature to Mature	Fair to Good	Fair to Good	B1.2	n/a	n/a	n/a
G6	English Oak x 3	11m max	875 max			9.25 max into site		4.00 site	Mature	Good	Fair to Good	A1.2	n/a	n/a	n/a
G7	English Oak x 4, Ash x 1	11m max	625 max			8.00 max		4.00 ave	Mature	Poor to Good	Poor to Good	B2/U	n/a	n/a	n/a
G8	English Oak, Field Maple	7m max	250 ave			4.25		4.00	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G9	Leyland Cypress, Cherry	4m max	100 max			2.00 ave		0.00	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G10	Leyland Cypress, Goat Willow, Hawthorn, Cherry, Ornamental shrubs	4m	100			1.00		0.00	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G11	Field Maple x 2	8m	5x200 max			7.50 max		0.50	Mature	Fair	Fair	B2	n/a	n/a	n/a
G12	English Oak, Ash, understorey Hawthorn, Holly, Hazel	16m ave	500 ave 850 max			11.00 ave		1.00 ave	Mature	Fair to Good	Fair to Good	A1.2	n/a	n/a	n/a
G13	Elm, Blackthorn, Hawthorn, Hazel	8m ave	200 ave			4.00 ave		1.00 ave	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G14	English Oak, Ash	18m ave 20m max	1250+ max			12.00 max		1.50 ave	Veteran	Fair to Good	Fair to Good	A1.2.3	n/a	n/a	n/a
G15	English Oak	15m ave	1250+ max			11.75 max 8.50 ave		1.50 ave	Mature / Veteran	Fair to Good	Fair to Good	A1.2 / A1.2.3	n/a	n/a	n/a
G16	Ash, Hazel, Blackthorn	7m	400 max			4.50		0.50	Mature	Good	Fair	B2	n/a	n/a	n/a
G17	Elm, Hawthorn, Blackthorn	8m ave	275 max			4.50 ave		2.50 ave	Early Mature	Poor to Fair	Poor to Fair	C1.2/B2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G18	Hazel, Field Maple, English Oak, Ash, understorey Holly, Hawthorn, Hazel	8-16m	900 max 350 ave			7.50 ave		1.00 ave	Mature	Fair to Good	Fair to Good	B1.2	n/a	n/a	n/a
G19	English Oak, Ash, Hawthorn, Hazel	13m	450 ave			6.00 ave		5.00 ave	Mature	Poor to Fair	Poor to Hazardous	C1.2/U	n/a	n/a	n/a
G20	Leyland Cypress, Raywood Ash, Yew, English Oak, Hazel, Holly, Hawthorn	8m ave	475 max 250 ave			4.00 ave		2.00 ave	Young to Mature	Fair	Fair	C1.2/B2	n/a	n/a	n/a
G21	Hazel, English Oak, Ash, Cherry	5m ave	475 max 250 ave			3.00 ave		1.00 ave	Early Mature to Mature	Fair	Fair	C1.2/B1.2	n/a	n/a	n/a
G22	English Oak	13m max	600 max			10.00 max		2.00 ave	Mature	Fair to Good	Fair to Good	B1.2	n/a	n/a	n/a
G22a	English Oak	17m	800	4.00	9.00	9.00	9.00	1.00 site	Mature	Good	Poor	B2	n/a	n/a	n/a
G23	English Oak x 3	4m	200 ave			3.00 ave		1.00 ave	Semi Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G24	Ash, English Oak, Cherry, understorey Blackthorn, Hawthorn	13m max	500 ave			8.00 ave		4.00 ave	Early Mature to Mature	Fair	Fair	B2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G25	Goat Willow, Ash, Hawthorn, Blackthorn, Hazel, Elm	5m	150			3.00 ave		0.00	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G26	Ash, English Oak	15m	600 max			6.50 ave		4.00	Mature	Fair	Fair	B2	n/a	n/a	n/a
G27	Blackthorn, Hazel, Elm, Hawthorn, Goat Willow, Holly	4m ave	100 ave			2.00 ave		0.00	Early Mature to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G28	Elm, Hawthorn, Hazel, Holly	8m ave	200 ave			2.50 ave		4.00 ave	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G29	Goat Willow	9m ave	400 max			5.00 ave		0.00	Mature	Fair	Poor	C1.2	n/a	n/a	n/a
G30	Goat Willow, English Oak, Ash, Hawthorn	12m	400 ave			5.00 ave		3.00 ave	Young to Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a
G31	Raywood Ash, Silver Birch, English Oak, Ash, Goat Willow, Grey Poplar	14m ave	600 max 500 ave			6.00 ave		3.00 ave	Young to Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a
G32	Removed.														
G33	English Oak, Ash, Goat Willow, understorey Hazel, Elm, Goat Willow	13m trees ave 8m understorey	see plan			6.00 ave		3.00 ave	Young to Veteran	Fair to Good	Fair to Good	C1.2 B2/B1.2 A1.2/A1.2.3	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G34	English Oak, Hawthorn, Goat Willow	13m	400 max			6.50 ave		3.00 ave	Mature	Fair	Fair	B1.2	n/a	n/a	n/a
G35	English Oak, Holly, Hawthorn, goat willow	3-4m	100-200			3.00 ave		0.00	Semi Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G36	Blackthorn, English Oak, Hawthorn, Hazel	5m ave	75 ave			2.00 ave		0.00	Young to Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G37	English Oak, Ash	14m ave	600 max			72.00 ave into site		3.00 site	Mature	Fair to Good	Fair to Good	B1.2	n/a	n/a	n/a
G38	English Oak, Ash, understorey	16m max	1380 max			11.50 max		4.00 ave	Early Mature to Mature	Poor to Good	Poor to Good	U/C1.2/B2/A2	n/a	n/a	n/a
G39	Alder, Ash, English Oak, Goat Willow	15m ave	850 max (trees) 300 (understorey)			3.00 ave (understorey) 8.00 ave (trees)		0.00 understorey 3.00 trees	Young to Mature	Fair	Fair	B1.2	n/a	n/a	n/a
G40	English Oak, Ash, understorey Hawthorn, Hazel	18m max	750 max			10.00 max (trees)		2.50 ave trees	Mature	Good	Fair	A1.2	n/a	n/a	n/a
G41	Norway Spruce	12m max	275			4.50 max		3.00 ave	Early Mature	Fair	Fair	B2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G42	Hawthorn, Ash, Goat Willow, Dogwood	7m ave	150 ave			3.00 ave		2.50	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G43	English Oak x 4	10m ave	500 ave			7.75 ave 8.75 max		3.00 ave	Mature	Fair to Good	Good	B1.2	n/a	n/a	n/a
G44	Fig, Cherry, various ornamentals	4m ave	150 ave			2.00 ave		2.00 ave	Early Mature	Good	Good	C1.2	n/a	n/a	n/a
G45	Goat Willow, Alder, Ash, English Oak, Hawthorn	11m ave	750 max 475 ave			6.00 ave		2.00 ave	Young to Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a
G46	Ash	8m	200 max			3.00		4.00	Semi Mature	Poor	Poor	C1.2	n/a	n/a	n/a
G47	Ash x1, English x 2	16m max	860x2 max			9.00 max		4.00 ave	Mature	Poor to Fair	Fair	B1.2	n/a	n/a	n/a
G48	Hawthorn, Ash, Hazel, Goat Willow	7m ave	200 max			4.00 ave		3.00 ave	Young to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G49	English Oak x 2	9m	720			5.00 ave (9.00 max to S of the tree to W)		4.00 ave	Mature	Poor to Fair	Poor to Fair	B2	n/a	n/a	n/a
G50	English Oak	15m max	800 max			8.50 max		4.00	Mature	Good	Good	A1.2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G51	Hawthorn, Blackthorn, English Oak	4m	75			2.00 ave		1.00 ave	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G52	Alder	5m	280 max			4.00 ave		2.50 ave	Early Mature	Fair	Fair	B1.2	n/a	n/a	n/a
G53	English Oak x 4, Hawthorn x 1	13m max 7m min	450, 500 max 500 ave 200 min			6.75 ave		4.25 ave	Mature	Good	Fair	B1.2	n/a	n/a	n/a
G54	English Oak x 2, Goat Willow x 1, Hazel, Hawthorn, Blackthorn	3m ave	400 max 200 ave			1.75 ave		0.00	Young to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G55	Goat Willow, Hawthorn	7m	300			3.00 ave		1.50 ave	Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G56	Bay, Pear, Western Red Cedar, Ash, Lawson Cypress, Laurel	9m max 4m ave	300 max 150 ave			3.00 ave		1.00 ave	Early Mature to Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G57	Ash, Goat Willow, Sycamore, Hazel, Sumac, Magnolia, Birch	4m ave 9m max	300 max			3.00 ave		1.50 ave	Young to Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G58	English Oak	18m ave	1400 max			12.00 ave		2.00 ave	Mature to Veteran	Fair to Good	Fair to Good	A1.2.3 / B2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G59	English Oak, Lime	18m max	1000 max			6.75 max		6.00 ave	Mature	Good	Good	A1.2	n/a	n/a	n/a
G60	Hybrid Black Poplar	18m max	350 max			5.50 ave		8.00 ave	Early Mature	Fair	Fair	B2	n/a	n/a	n/a
G61	Ash, English Oak, understorey Hawthorn, English Oak, Plum, Hazel, Western Red Cedar	8-12m	500 max 200 ave			3.00 ave		3.00 ave	Young to Mature	Fair	Fair	C1.2/B2	n/a	n/a	n/a
G62	English Oak x 5, Beech x 2, Ash x 2	12m	500 max			5.50 max		3.00 ave	Young to Mature	Fair	Fair	B1.2	n/a	n/a	n/a
G63	English Oak x 3	14m max	1000 max			8.75 max		3.50 ave	Mature	Good	Good	A1.2	n/a	n/a	n/a
G64	Silver Maple, Ash, Sycamore, Leyland Cypress, Alder	10m ave	200 max			3.00 ave		2.00	Early Mature	Fair to Good	Fair to Good	B2	n/a	n/a	n/a
G65	Hawthorn, English Oak, Cherry	6m	250			3.00 ave		1.50	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G66	Sycamore, Elm	10m	300 max			3.50 ave		3.00 ave	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a
G67	Field Maple, Sycamore	8m	200			3.00 ave		3.50	Early Mature	Fair	Fair	C1.2	n/a	n/a	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
G68	Crack Willow, Ash, Alder, English Oak	10m ave	350, 200 max			6.00 ave		2.00 ave	Mature	Poor to Fair	Poor to Fair	C1.2	n/a	n/a	n/a
G69	English Oak, Ash	14m	650 max			6.00 (S)		3.00	Mature	Good	Good	A1.2	n/a	n/a	n/a
G70	Removed.														
G71	Various ornamental shrubs and small stature trees	3 av.	150 ave			n/a		n/a	Mature	Fair	Fair	C1.3	1.8	n/a	n/a
H1	Hawthorn, Ash, Elm, Field Maple, Dogwood	2-6m 2m ave	100 max			0.50		0.00	Early Mature to Mature	Fair	Fair	C1.2	1.2	5	n/a
H2	Hawthorn, Elm	2m	75			0.25		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H3	Blackthorn, Hawthorn, Goat Willow, Field Maple	1-4m	75			0.50		4.00, 2.00 ave	Mature	Fair	Fair	C1.2	.9	3	n/a
H4	Blackthorn, Hawthorn, Goat Willow, Field Maple	1-2m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H5	Field Maple, Hawthorn, Blackthorn	2m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H6	Ash, Leyland Cypress, Hazel	2-6m	200			3.00 ave		2.00 ave	Early Mature	Fair	Fair	C1.2	2.4	18	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
H7	Goat Willow	2m	75			0.50		0.00	Early Mature	Fair	Fair	C1.2	.9	3	n/a
H8	Hawthorn, Blackthorn	3m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H9	Elm, Ash, Hawthorn	2m	100			1.00		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H10	Hazel, Elm, Goat Willow	2m	100 ave			0.25		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H11	Elm, Blackthorn, Plum	4m ave	100 ave			1.00		0.00	Early Mature to Mature	Poor to Fair	Poor to Fair	C1.2	1.2	5	n/a
H12	Elm, Hawthorn, Goat Willow, Hazel, Ash, Holly	3m ave	75 ave 250 max			0.50 ave 3.00 max		0.00	Young to Mature	Fair	Fair	C1.2	3.0	28	n/a
H13	Hazel, Blackthorn, Hawthorn	3m	100			2.00 ave		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H14	Hazel, Elm, Hawthorn	3m ave	100 ave			2.50 ave		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H15	Hazel, Elm, Blackthorn	3m ave	75			1.50 ave		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H16	Ash, Elm, Hawthorn, Field Maple	3m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
H17	Field Maple, Elm, Hawthorn	2-4m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H18	Hawthorn	3m	75			1.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H19	Hawthorn, Field Maple, Elm, Blackthorn	2-3m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H20	Lawson Cypress, Western Red Cedar	1m	75			1.00		0.00	Early Mature	Good	Good	C1.2	.9	3	n/a
H21	Hawthorn, Blackthorn, Hazel, Field Maple, Ash	1-2m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H22	Hawthorn, Blackthorn, Hazel, Field Maple, Ash	1-2m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H23	Blackthorn, Ash, Hawthorn, Field Maple, Elder	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H24	Blackthorn, Ash, Hawthorn, Field Maple, Elder, Hazel	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H25	Blackthorn	1m	75			0.50		0.00	Young	Fair	Fair	C1.2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
H26	Blackthorn, Ash, Hawthorn, Field Maple, Elder, English Oak	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H27	Hazel, Hawthorn, Blackthorn, Holly	2m	75			1.00		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H28	Blackthorn, Ash, Hawthorn, Field Maple, Elder, English Oak, European Cranberry, Goat Willow, Hazel	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H29	Blackthorn, Ash, Hawthorn, Field Maple, Elder, English Oak, Goat Willow, Hazel	2m	75			1.50		0.00	Young to Mature	Fair	Fair	C1.2	.9	3	n/a
H30	Blackthorn, Hazel, Alder, Field Maple	9m max	200 max			3.00 ave		1.00	Young to Mature	Good	Good	B2	2.4	18	n/a
H31	Blackthorn, Field Maple, Hawthorn	2m	75			1.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H32	Hawthorn, Blackthorn, Field Maple, Dogwood, Crab Apple	3m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
H33	Goat Willow, Hawthorn, English Oak, Blackthorn	4m	100			2.50		0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a
H34	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H35	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H36	Goat Willow, Hawthorn	2m	75			1.50		0.00	Early Mature	Fair	Fair	C1.2	.9	3	n/a
H37	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H38	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow	13m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H39	Blackthorn, Hawthorn, Field Maple, English Oak, Hazel, Ash, Goat Willow, Holly	13m ave	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
H40	Hawthorn, Blackthorn, Hazel, Goat Willow	2m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H41	Hawthorn, Blackthorn, Hazel	2m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H42	Hawthorn, Blackthorn, Hazel	2m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H43	Hawthorn, Blackthorn	2m	75			1.00		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H44	Hawthorn, Blackthorn, Hazel	2m	75			0.75		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H45	Hawthorn	4m	100			2.00 ave		2.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H46	Hawthorn, Hazel, Sycamore, Dogwood	2m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
H47	Hazel, Sycamore, Blackthorn, English Oak	3m	100			1.50		0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a
H48	Field Maple, Hawthorn, Crack Willow, Ash, Elder, Blackthorn, Goat Willow	4m ave	100 ave			2.00 ave		0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
H49	Hawthorn, Hazel	3m	100			2.00		0.00	Young to Mature	Fair	Fair	C1.2	1.2	5	n/a
H50	Hazel, Hawthorn, Goat Willow, Beech, Blackthorn, English Oak, Field Maple, Elm	4m	100			1.00		0.00	Mature	Fair	Fair	C1.2	1.2	5	n/a
H51	Blackthorn, Hazel, Hawthorn	2m	75			0.50		0.00	Mature	Fair	Fair	C1.2	.9	3	n/a
W1	Ash, Field Maple, English Oak, understorey Hazel, Hawthorn	16m ave	1200 max			8.00 ave		3.00 ave	Young to Mature	Fair to Good	Fair to Good	A1.2.3	-	-	n/a
W2	English Oak, Field Maple, Ash, Blackthorn, Sycamore	8-17m max	1200 max 300 ave			2.75 ave		4.00 ave	Young to Mature	Fair to Good	Fair to Good	A/B/C1.2.3/ U	-	-	n/a
W3	English Oak, Ash, Goat Willow, Beech, understorey Hazel, Hawthorn, Holly, Field Maple	16m ave	75-700 max			8.00 max (trees) 4.00 (understorey)		2.00 ave 0.00 understorey	Young to Mature	Good	Good	A1.2.3	-	-	n/a

Tree Number	Common Species Name	Height (m)	Trunk Diameter (mm)	Crown Spread (m)				Height of Crown Clearance (m)	Age Class	Physiological Condition	Structural Condition	BS5837 Category	RPA Radius (m)	Root Protection Area (m2)	Veteran Tree Development Buffer (m)
				N	E	S	W								
W4	English Oak, Alder, Ash, Norway Spruce, Field Maple, Holly, Hazel, Hawthorn, Blackthorn	16m	700 (trees) 200 ave (understorey)		10.00 max 8.00 ave			0.00 understorey 3.00 trees	Young to Mature	Good	Good	A1.2.3	-	-	n/a
W5	Alder, English Oak, Ash, understorey Hawthorn, Hazel, Blackthorn	16m	850 max		7.00 ave			4.75 (E)	Young to Mature	Good	Good	A1.2.3	-	-	n/a
W6	Ash, English Oak, Alder, understorey Goat Willow, Hazel, Hawthorn, Blackthorn, Holly	16m ave	750 max 500 ave		7.00 ave			4.50 ave	Young to Mature	Good	Good	A1.2.3	-	-	n/a
W7	English Oak, Ash, Alder, understorey Hawthorn, Hazel, Blackthorn	15m ave	750 max 500 ave		8.00 ave into site			2.50 ave	Young to Mature	Good	Good	A1.2.3	-	-	n/a
W8	English Oak, Beech, understorey Hazel, Silver Birch	15m ave	750 max		8.00 ave			1.75	Mature	Good	Good	A1.2.3	-	-	n/a

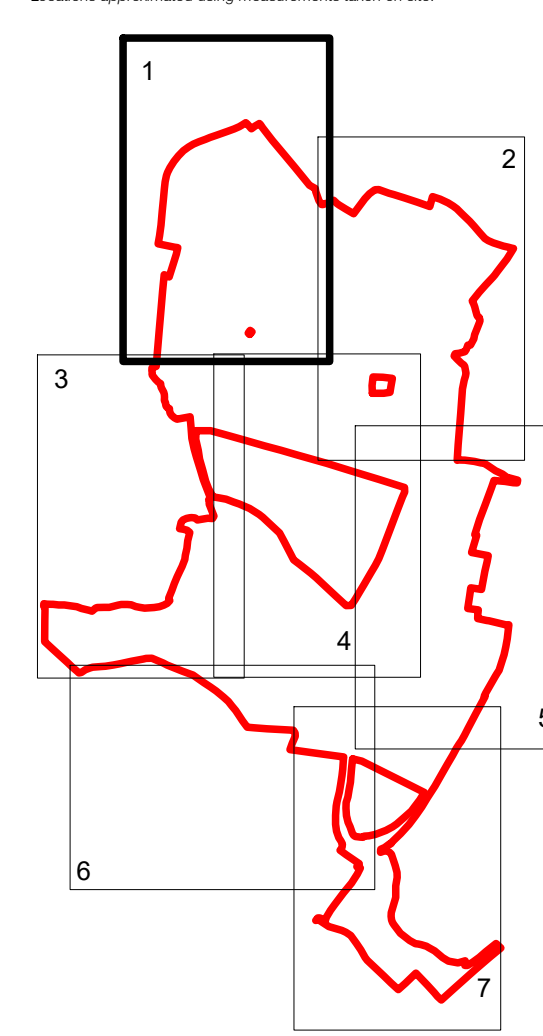




Key:

- Site Boundary
- Category A - Trees of High Quality and Value
- Category B - Trees of Moderate Quality and Value
- Category C - Trees of Low Quality and Value
- Category U - Trees Recommended for Removal
- Approximate Extent of BS5837 Calculated Root Protection Areas (RPAs)
- Veteran Tree and Ancient Woodland Buffer Zones
- BS 5837 Calculated Tree Shadow Constraints
- Approximate Locations of the Trees Covered by a TPO

*Overlaps trees and groups not identified on topographical. Locations approximated using measurements taken on site.



Approximate location of trees covered by a Tree Preservation Order (TPO). Exact location to be confirmed.

Rev C - updates to survey data and all buffers added.
Rev B - update data following October 2020 walkover.
Rev A - additional trees added 16.10.19 LB.

Project Name
Land at Horton Heath

Drawing Title
Tree Constraints Plan

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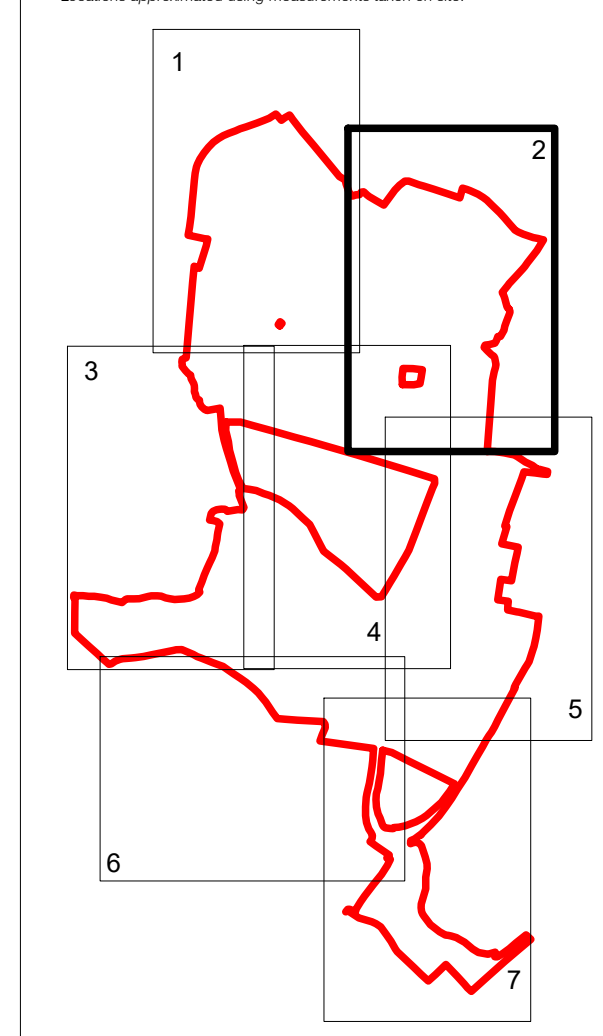
Scale	Date
1:750 @ A0	December 2020
Drawn by LB/JP	Checked by JP
Drawing No. 11705/P01	Revision C



Key:

- Site Boundary
- Category A - Trees of High Quality and Value
- Category B - Trees of Moderate Quality and Value
- Category C - Trees of Low Quality and Value
- Category U - Trees Recommended for Removal
- Approximate Extent of BS5837 Calculated Root Protection Areas (RPAs)
- Veteran Tree and Ancient Woodland Buffer Zones
- BS 5837 Calculated Tree Shadow Constraints
- Approximate Locations of the Trees Covered by a TPO

*Overlaps trees and groups not identified on topographical. Locations approximated using measurements taken on site.



Approximate location of trees covered by a Tree Preservation Order (TPO). Exact location to be confirmed.

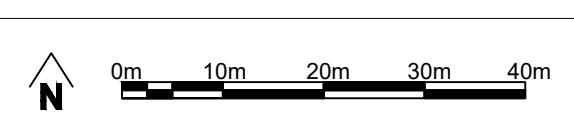
Rev C - updates to survey data and ARI buffers added.
Rev B - update data following October 2020 walkover.
Rev A - additional trees added 16.10.19 LB.

Project Name
Land at Horton Heath

Drawing Title
Tree Constraints Plan

Tyler Grange
Merrill House, Redditch, Cheshire, GU7 7EX
T: 01825 831 804 E: info@tylergrange.co.uk
W: www.tylergrange.co.uk

Scale	Date
1:750 @ A0	December 2020
Drawn by	Checked by
LS/JP	JP
Drawing No.	Revision
11705/P01	C







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Rev C - updates to survey data and All buffers added.
Rev B1 - update data following October 2020 walkover. 16.11.20 JP
Rev A - additional trees added 16.10.19 LB

Project Name
Land at Horton Heath

Drawing Title
Tree Constraints Plan

Tyler Grange
Merriden Estate, Herefordshire, Herefordshire, GL2 7JEX
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Scale 1:750 @ A0	Date December 2020
Drawn by LB/JP	Checked by JP
Drawing No. 11705/P01	Revision C

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Rev C - update to survey data and All buffers added.
Rev B - update data following October 2020 walkover.
Rev A - additional trees added 16.10.19 LB.

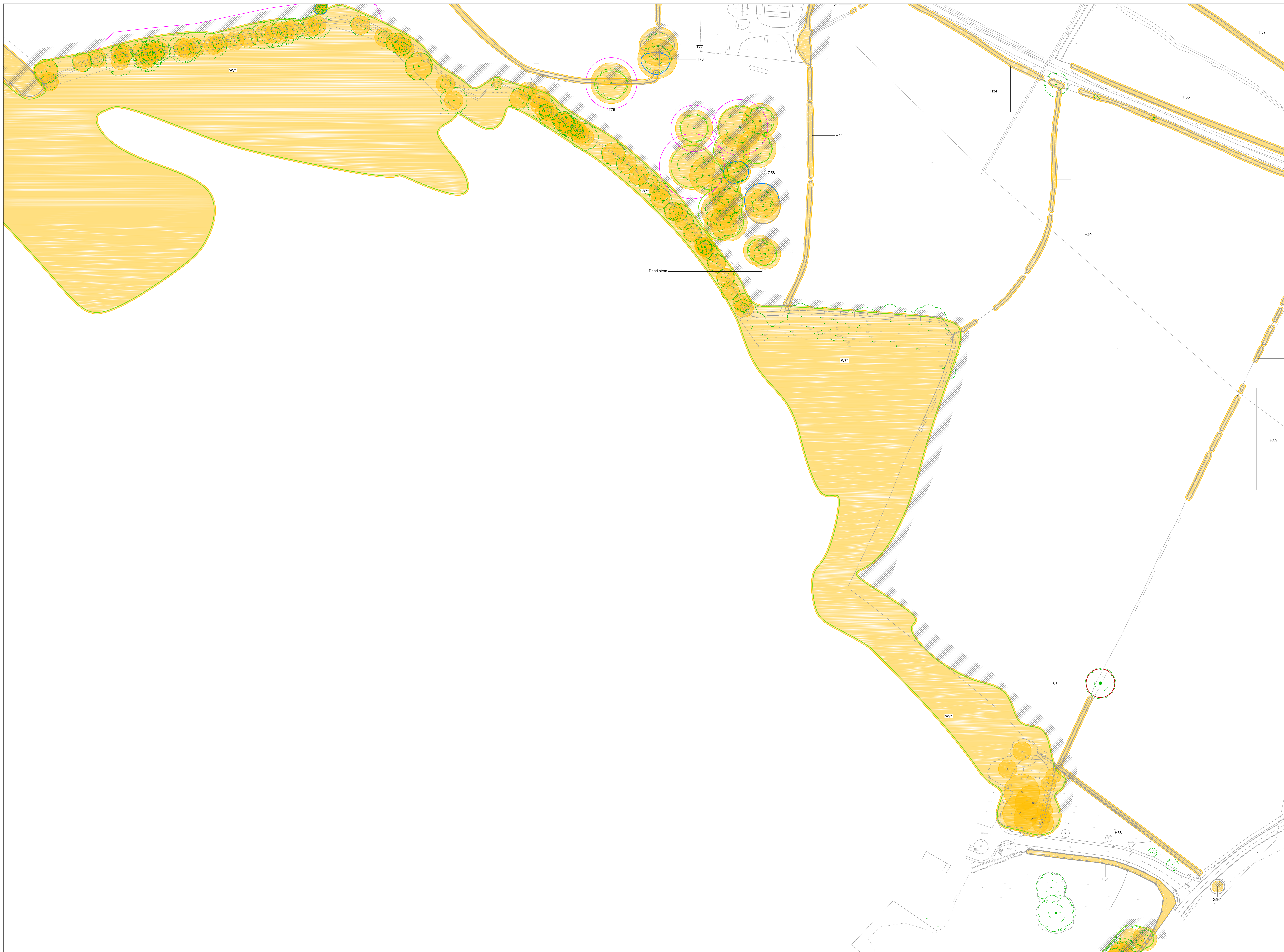
Project Name
Land at Horton Heath

Drawing Title
Tree Constraints Plan

Tyler Grange
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Scale 1:750 @ A0	Date December 2020
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Drawing No 11705/P01	Revision C

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Category C - Trees of Low Quality and Value

Category U - Trees Recommended for Removal

Approximate Extent of BS5837 Calculated Root Protection Areas (RPAs)

Vulnerable Tree and Ancient Woodland Buffer Zones

BS 5837 Calculated Tree Shadow Constraints

Approximate Locations of the Trees Covered by a TPO

Overlaid trees and ground not detailed for topographic. Locations approximate using requirements shown on site.

1

2

3

4

5

6

7

Rev C - update to survey data and AMI buffers added.

Rev B - update data following October 2020 walkover.

Rev A - additional trees added 16.10.19 LB.

Project Name

Land at Horton Heath

Drawing Title

Tree Constraints Plan

Tyler Grange

Marple Estate, Rochford, Cheshire, GL7 7EX

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W: www.tylergrange.co.uk

Scale

1:750 @ A0

Date

December 2020

Drawn by

LB/JP

Checked by

JP

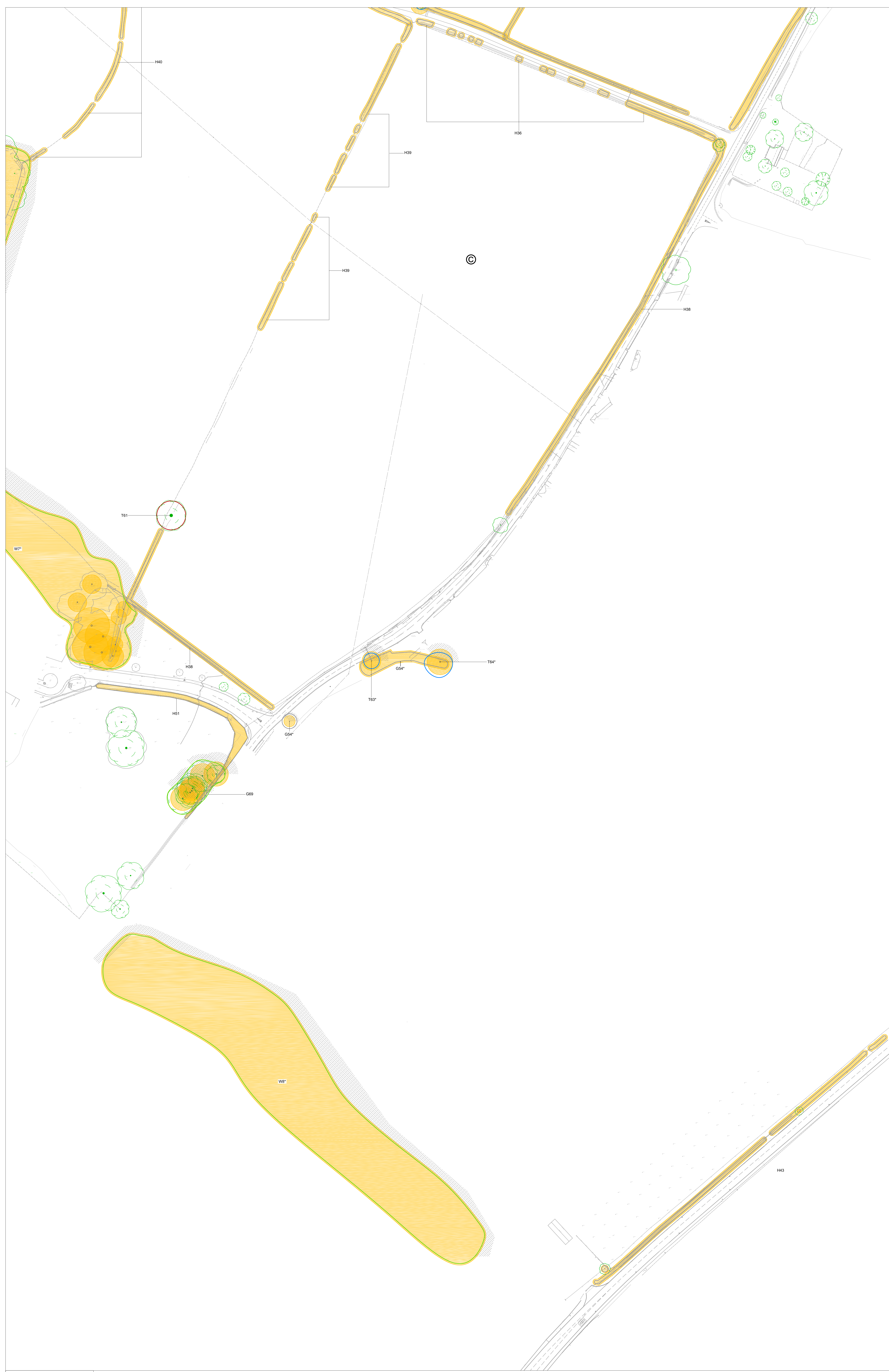
Drawing No.

11705P01

Revision

C

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*Overhead trees and groups not identified on topographical. Locations approximated using measurements taken on site.

new L - updates to survey data and new owner's assets.
Rev B - update data following October 2020 walkover.
Rev A - additional trees added 16.10.19 LB.

Project Name
Land at Horton Heath

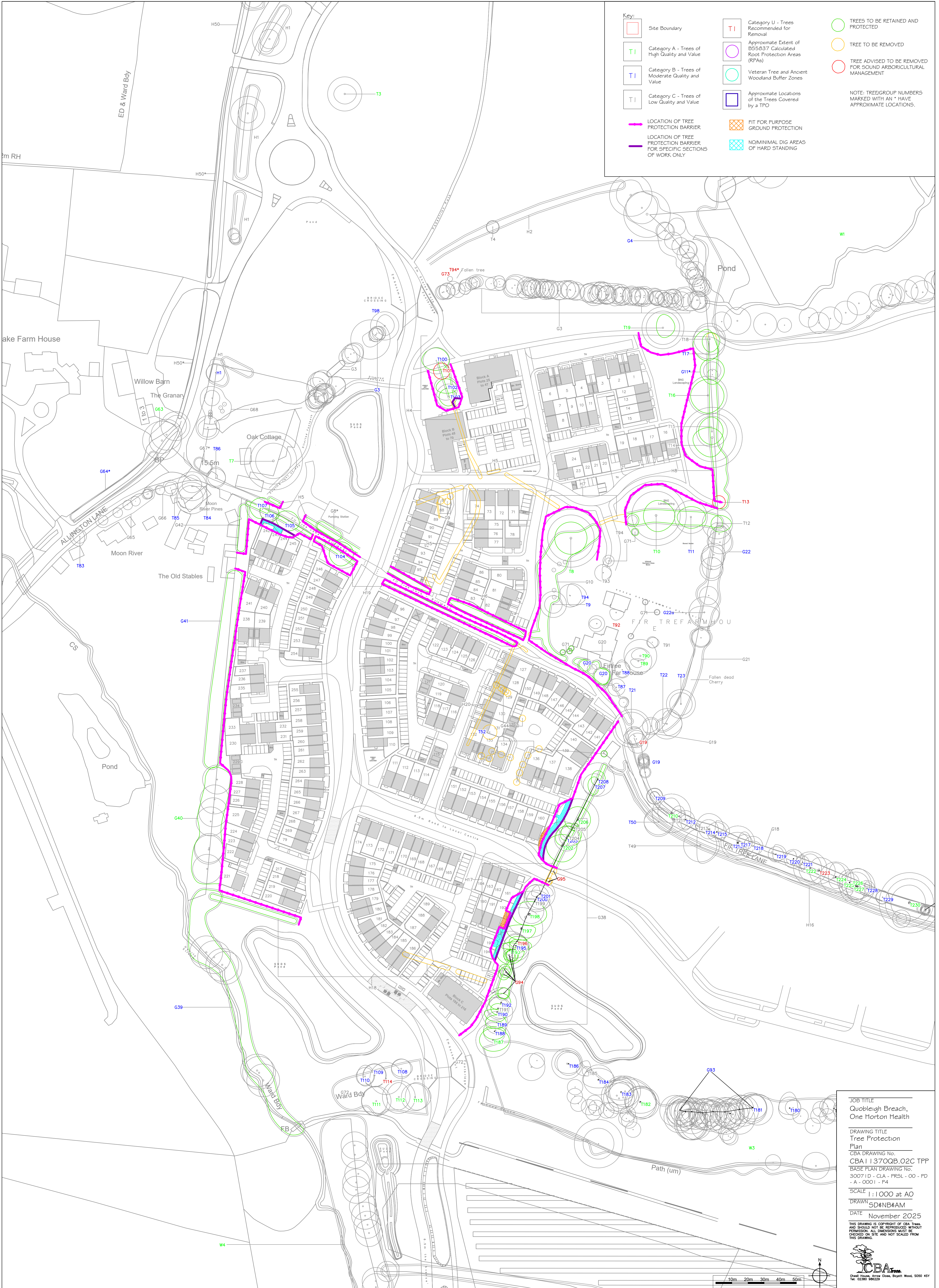
Drawing Title
Tree Constraints Plan

Tyler Grange
Mansel House, Boscawen, Cornwall, PL2 7EX
T: 01505 851 804 E: info@tylergrange.co.uk
W: www.tylergrange.co.uk

Scale 1:750 @ A0	Date December 2020
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Key:

Site Boundary

Category A - Trees of High Quality and Value

Category B - Trees of Moderate Quality and Value

Category C - Trees of Low Quality and Value

LOCATION OF TREE PROTECTION BARRIER

LOCATION OF TREE PROTECTION BARRIER FOR SPECIFIC SECTIONS OF WORK ONLY

Category U - Trees Recommended for Removal

Approximate Extent of B55B37 Calculated Root Protection Areas (RPAs)

Veteran Tree and Ancient Woodland Buffer Zones

Approximate Locations of the Trees Covered by a TPO

FIT FOR PURPOSE GROUND PROTECTION

NOMINIMAL DIG AREAS OF HARD STANDING

TREES TO BE RETAINED AND PROTECTED

TREE TO BE REMOVED

TREE ADVISED TO BE REMOVED FOR SOUND ARBORICULTURAL MANAGEMENT

NOTE: TREE/GROUP NUMBERS MARKED WITH AN * HAVE APPROXIMATE LOCATIONS.

JOB TITLE

Quobleigh Breach, One Horton Health

DRAWING TITLE

Tree Protection Plan

CBA DRAWING No.

CBA I J 370QB.02C TPP

BASE PLAN DRAWING NO.

30071D - CLA - PRSL - 00 - PD - A - 0001 - P4

SCALE

1:1000 at A0

DRAWN

SD#NB#AM

DATE

November 2025

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CBA Trees

Chess House, Arrow Close, Boyett Wood, 5000 457

Tel: 02380 988229



	TREE WORKS SCHEDULE	
	Site:	One Horton – Quobleigh Breach
	Date:	October 2025
	Consultant:	Stefan Rose <i>BSc (Hons), TechCert (Arbor A), TechArbor.A</i>

The tree survey was originally carried out by Tyler Grange in December 2020.
CBA Trees conducted a site walkover in April 2023 assessing the viability of the tree survey.
Trees listed below are within and adjacent to the red line boundary for this phase of works.

Tree No	Species	Recommended Works
T8	English Oak	No works required
T9	Ash	No works required
T10	English Oak	No works required
T11	English Oak	No works required
T12	Scots Pine	No works required
T13	English Oak	Fell to ground level and remove stump
T14	English Oak	No works required
T15	English Oak	No works required
T16	English Oak	No works required
T17	English Oak	No works required
T18	Ash	Remove major deadwood over footpath
T19	Field Maple	No works required
T21	English Oak	Remove major deadwood over bridleway
T52	Stone Pine	Fell to ground level and remove stump
T94	Ash	No works required
T100	English Oak	Remove major deadwood over footpath
T101	English Oak	Reduce and make safer and retain for habitat
T102	English Oak	Remove major deadwood over footpath
T103	English Oak	Remove major deadwood over footpath
T104	English Oak	Remove major deadwood
T105	English Oak	Remove major deadwood
T106	English Oak	Remove major deadwood
T107	English Oak	Remove major deadwood
T187	English Oak	No works required
T188	English Oak	No works required
T189	English Oak	No works required
T190	English Oak	No works required
T191	English Oak	No works required
T192	English Oak	No works required
T193	English Oak	No works required

Tree No	Species	Recommended Works
T194	English Oak	Remove major deadwood within 5m of footpath
T195	English Oak	Remove major deadwood within 5m of footpath
T196	Ash	Reduce and make safer and retain for habitat
T197	English Oak	Remove major deadwood within 5m of footpath
T198	English Oak	Remove major deadwood within 5m of footpath
T199	English Oak	Remove major deadwood within 5m of footpath
T200	English Oak	Remove major deadwood within 5m of footpath
T201	English Oak	Remove major deadwood within 5m of footpath
T202	English Oak	Remove major deadwood within 5m of footpath
T203	English Oak	Remove major deadwood within 5m of footpath
T204	English Oak	Remove major deadwood within 5m of footpath
T205	English Oak	Remove major deadwood within 5m of footpath
T206	English Oak	Remove major deadwood within 5m of footpath
T207	English Oak	No works required
T208	English Oak	No works required
G8	English Oak, Field Maple	No works required
G9	Leyland Cypress, Cherry	Fell to ground level and remove stumps
G10	Leyland Cypress, Goat Willow, Hawthorn, Cherry, Ornamental shrubs	Section to be removed as shown on tree protection plan
G11	Field Maple x 2	No works required
G19	English Oak, Ash, Hawthorn, Hazel	No works required
G20	Leyland Cypress, Raywood Ash, Yew, English Oak, Hazel, Holly, Hawthorn	No works required
G38	English Oak, Ash, understorey	See individual trees 189-206
G39	Alder, Ash, English Oak, Goat Willow	No works required
G40	English Oak, Ash, understorey Hawthorn, Hazel	Remove major deadwood within 5m of garden boundaries that overhangs the site boundary
G41	Norway Spruce	Remove major deadwood within 5m of garden boundaries that overhangs the site boundary
G42	Hawthorn, Ash, Goat Willow, Dogwood	No works required
G44	Fig, Cherry, various ornamentals	Fell to ground level and remove stumps as shown on tree protection plan
G71	Oak, Ash, Wild Cherry, Hazel	No works required
G94	Elm	Reduce and make safer and retain for habitat
G95	Ash, Elm	Section will be removed as shown on tree protection plan for new local centre link road but outside of the red line boundary
H4	Blackthorn, Hawthorn, Goat Willow, Field Maple	Section to be removed as shown on tree protection plan Clipped and managed annually to maintain a more formal hedge shape for duration of build
H5	Field Maple, Hawthorn, Blackthorn	Sections to be removed as shown on tree protection plan Clipped and managed annually to maintain a more formal hedge shape for duration of build

Tree No	Species	Recommended Works
H6	Ash, Leyland Cypress, Hazel	Sections to be removed as shown on tree protection plan Clipped and managed annually to maintain a more formal hedge shape for duration of build
H7	Goat Willow	Sections to be removed as shown on tree protection plan Clipped and managed annually to maintain a more formal hedge shape for duration of build
H8	Hawthorn, Blackthorn	Sections to be removed as shown on tree protection plan Clipped and managed annually to maintain a more formal hedge shape for duration of build
H17	Field Maple , Elm, Hawthorn	Sections to be removed as shown on tree protection plan Clipped and managed annually to maintain a more formal hedge shape for duration of build
H18	Hawthorn	Sections to be removed as shown on tree protection plan Clipped and managed to annually maintain a more formal hedge shape for duration of build
H19	Hawthorn, Field Maple, Elm, Blackthorn	Section to be removed as shown on tree protection plan Clipped and managed annually to maintain a more formal hedge shape for duration of build
H20	Lawson Cypress, Western Red Cedar	Fell to ground level and remove stumps

- All tree works are advised to be carried out between July and September or November and February. Tree works should also avoid the season for nesting birds.
- All tree works should be carried out in accordance with current best practice guidelines and BS3998:2010 – Tree Work Recommendations.
- We recommend the use of an Arboricultural Association Approved Contractor or an ISA Certified Arborist/Tree Worker that is suitably insured and experienced to carry out the tree works.





SUMMARY OF TREE PROTECTION MEASURES

Introduction

This leaflet shall be issued to all site personnel as part of their induction briefing.

It describes in summary form, the precautions that site personnel shall at all times follow, to ensure that the existing trees on the site come to no harm.

The precautions described are neither arbitrary nor reducible and must be adhered to in full.

These precautions are necessary because unprotected trees are very vulnerable to damage during demolition and construction works.

Furthermore, many of the trees on the site are under LEGAL PROTECTION and damaging them can result in heavy fines.

Two common misconceptions about trees:

MYTH: Trees have deep taproots and so shallow excavations will not harm the tree.

FACT: 90% of all tree's roots are found in the top 600mm of soil; all excavations near to trees are likely to cause root damage which can kill the tree.

MYTH: Trees will quickly heal over any bark wound, with no ill effect.

FACT: Bark wounds take years to heal and larger ones never do; missing bark can lead to disease and even the death of the tree.

Tree Protection

All trees adjacent to unsupervised work areas have been protected by fencing.

This fencing must be respected at all times and no attempts shall be made to damage, bypass or ignore it.

In areas designated for supervised working, no works shall be undertaken without the supervisor being present or without him/her issuing a "carry on" chit.

Prohibitions Adjacent to Trees

Inside the exclusion area of the tree protection, the following prohibitions shall apply.

- No digging or scraping
- No storage of plant or materials
- No vehicular access
- No fire lighting
- No handling, discharge or spillage or any chemical substance
- No water-logging

In addition to the above, further precautions shall be taken near to trees.

- A 10m separation distance shall be observed between trees and any substance injurious to their health, including fuels, oil, bitumen, cement (including washings) builders' sand, concrete mixing and other chemicals.
- No fire shall be lit such that flames come within 5m of any foliage; this shall be taken to mean a fire separation distance to the leaves of 20m.

Avoiding Damage to Stem and Branches

Care shall be taken when planning site operations to ensure that wide or tall loads or plant with booms, jibs and counterweights, can operate without coming into contact with trees.

Consequently, any transit or traverse of plant in proximity to trees shall be conducted under the supervision of a spotter to ensure that adequate clearance is at all times maintained.

In some circumstances, it may be impossible to achieve this, necessitating the pruning of the tree.

If this is necessary, a specialist team shall be called in following referral to the project Arboriculturist.

No tree pruning shall be undertaken by demolition or construction personnel.

Asking for Help

If you see any damage to a tree or its protective fencing, or if you need a tree pruning for plant clearance, contact **CBA Trees** as follows:

Office Telephone: 02380 986229

**REMEMBER:
ALL TREE DAMAGE
IS AVOIDABLE –
SO AVOID IT!**



**PROTECTIVE BARRIERS.
THESE BARRIERS MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



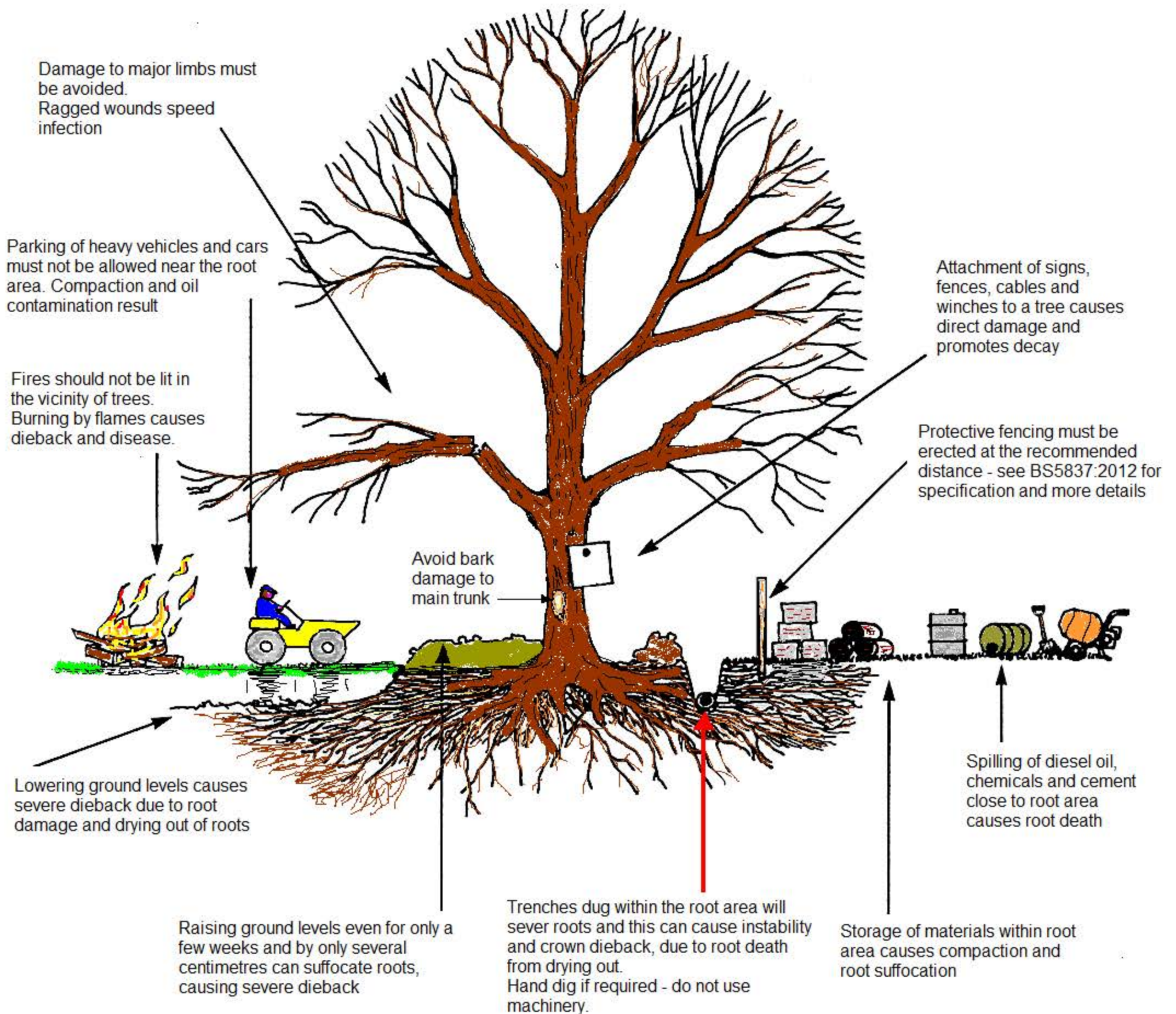
**TREE PROTECTION AREA
KEEP OUT !**

**(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION**

**ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL
PLANNING AUTHORITY**

COMMON CAUSES OF TREE DEATH

The use of properly positioned protective barriers can prevent tree deaths occurring.







The Professional Arboricultural Consultancy

Qualifications of Stefan Rose Principal Consultant

Stefan Rose *BSc (Hons), TechCert (Arbor.A), TechArbor.A*, joined CBA Trees in 1998 as a junior surveyor and having gained extensive knowledge and a wealth of experience over the years including Professional Tree Inspectors Certification (LANTRA), has progressed to Principal Consultant. He has considerable experience in working as a locum for Local Authorities, assessing new and extant Tree Preservation Orders, and continues to work on a number of major development projects nationwide.

As our Principal Consultant Stefan undertakes a full range of arboricultural services from health and safety audits to BS5837:2012 tree surveys, providing expert advice and guidance on initial feasibility site assessments to full scale planning applications. He is accomplished at producing implication assessments and method statements for the submission of planning applications, working with both individual home owners and within multi-disciplinary teams to achieve successful arboricultural outcomes.