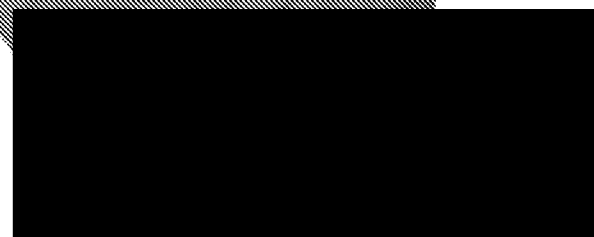




Arboricultural Impact Assessment

Land at Climping

26th August 2021



Arboricultural Impact Assessment

Land at Climping

26/08/2021

Vivid & Climping Homes

Unit 1, Station Industrial Park

Duncan Road

Park Gate

Hampshire, SO31 1BX

Document Control:

Project no.	Project
9709	Land at Climping

Ver/rev	Written By:	Checked by:	Authorised by:	Date
Rev0	Peter Davies	Abi St Aubyn	Paul Carter	26/08/2021

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Phlorum Limited

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Appendices

Appendix A – Tree Retention Plan

Appendix B – Tree Survey Schedule

Appendix C – Example No-dig Footpath Specification

1. Executive Summary

- 1.1 This report should be read in conjunction with arboricultural survey ref. 9709 Arb Rev0 and arboricultural method statement ref. 9709 AMS Rev0.

Site Location

- 1.2 The site is situated to the west of Church Lane, east of Yapton Road and north of the A259 Crookthorn Lane in Climping. It has a central national grid reference of TQ 00018 02030. The surrounding land use comprises suburban residential development directly north of the site, farmland a small number of agricultural and commercial buildings to the east, south and west. Climping Cricket Club and its grounds are located to the south-east of the site and a holiday park is located beyond the south-west corner. The location of the site within its environs is shown in figure 1.



Figure 1: Location of Site and Environs (Map data: © 2021 Google)

Proposal

- 1.3 Planning permission is being sought to construct a 300 plot residential development with associated landscaping and infrastructure, including a new round-a-bout at the junction of Church Lane and the A259.

Tree Removals

- 1.4 Trees T2, T4, G6 (part only), T7, G8, T9, G10, G11 (part only), G15, G16 (part only), T17, T24, T26, T31, T34, G53 (part only), T54, T55, T56, G59 (part only), T60, T61, T62, G64, G65, T70, G84 (part only) and T85 require removal to facilitate the proposals.

Access Facilitation Pruning

- 1.5 Groups G1, G21, G22, G63, G66 and G72 are expected to require access facilitation pruning to enable the proposals.

Works within Root Protection Areas

- 1.6 New hard standing that will need to be constructed to a 'no-dig' specification will encroach the root protection areas of groups G21, G22, G25 and G47.
- 1.7 Hard standing that will not be of a 'no-dig' specification due to existing levels and/or because it needs to be of a standard highway's specification will encroach the root protection areas of G13, G63, G66 and T73. It is still intended that these trees are retained despite the works within their root protection areas.
- 1.8 New swales/attenuation basins will partially encroach the root protection areas of T3, G6, T40 and G47. The excavation within these root protection areas will need to occur sensitively with arboricultural supervision. A new underground pipe connecting to an existing pipe will also be installed within the root protection area of third party tree group G86.

2. Introduction

Instruction

- 2.1 Phlorum has been instructed by Vivid & Climping Homes Ltd to provide an arboricultural impact assessment in accordance with BS5837: 2012 '*Trees in relation to design, demolition and construction - Recommendations*' for the proposed residential development at land at Climping.

Objectives of Report

- 2.2 This report has been undertaken with the following objectives:
- ❖ To identify the tree removals and pruning works that will be required because of the proposed development.
 - ❖ To assess the potential impact the proposed construction works will have on retained trees.
 - ❖ To provide recommendations for mitigation measures to reduce the impact of construction works on retained trees.
 - ❖ To assess the post development relationship between trees and the proposed development.

Scope of Report

- 2.3 This report is concerned with all significant trees and arboricultural features located within the site boundary. Additionally, trees located around the curtilage of the site have also been surveyed when they are considered likely to have the potential to impact on the development (in relation to root and crown protection or foundation design).

Contents of Report

- 2.4 This report includes the following:
- ❖ A schedule of trees to be retained/removed.
 - ❖ A schedule of access facilitation pruning required for the development.
 - ❖ An assessment of the impact construction works will have on retained trees and mitigation measures to be implemented.
 - ❖ An assessment of post development pressures on trees
 - ❖ Recommendations for post development arboricultural management.
 - ❖ Tree Retention Plan.

- ☛ Tree Survey Schedule including management recommendations related directly to the proposed development.

Documents and Information Provided

2.5 The following documents were used to aid the preparation of this report:

- ☛ V-300 S – Proposed Site Plan
- ☛ D1886-PL001-4 – Proposed Drainage Layout

Limitations of Report

2.6 The following arboricultural impact assessment has been prepared for the proposal stated in paragraph 1.3 and using the plans and information listed in paragraph 2.5. The report should not be relied upon if the stated proposal or proposed design changes unless the author confirms the changes do not have a bearing on the arboricultural impacts or recommended mitigation measures.

3. Arboricultural Impact Assessment

Tree Removals

- 3.1 Trees to be removed for the proposed development are shown with dashed outlines on the Tree Retention Plan in Appendix A and are shaded to indicate their BS5837 tree category. A summary of the tree removals is shown below.

Table 1: Tree removals summary

Tree number	Species	Category	TPO	Reason for tree removal
T2	Ash	U	No	Poor condition rather than conflict with proposals.
T4	Oak	A1	No	Extensive drainage works within root protection area.
G6	Mixed	B2	No	Part of G6 conflicts with diverted Church Lane.
T7	Horse chestnut	C1	No	Conflict with diverted Church Lane.
G8	Sycamore	B1+2	No	Conflict with diverted Church Lane.
T9	Ash	B2	No	Conflict with diverted Church Lane.
G10	Mixed	U	No	Poor condition and conflict with diverted Church Lane.
G11	Mixed	B2	No	Part of group conflicts with diverted Church Lane and new footpath link.
G15	Ash	B1+2	Yes	Conflict with new round-a-bout.

Tree number	Species	Category	TPD	Reason for tree removal
G16	Poplar	B2	Yes	Part of group conflicts with new round-a-bout.
T17	Ash	B1	Yes	Conflict with new round-a-bout.
T24	Ash	U	Yes	Poor condition rather than conflict with proposals.
T26	Oak	B2	Yes	Conflict with new round-a-bout.
T31	Oak	B2	Yes	Conflict with new round-a-bout.
T34	Oak	B1+2	Yes	Conflict with new round-a-bout.
G53	Mixed	C2	Yes	Part of group conflicts with new round-a-bout.
T54	Hawthorn	C1	Yes	Conflict with new round-a-bout.
T55	Oak	B1+2	Yes	Conflict with new round-a-bout.
T56	Oak	B1+2	Yes	Conflict with new round-a-bout.
G59	Mixed	C2	No	Conflict with new pavement south of A259.
T60	Oak	A2	Yes	Conflict with new layby.
T61	Ash	B2	No	Conflict with new pavement south of A259.
T62	Ash	B1+2	No	Conflict with new pavement south of A259.
G64	Mixed	B2	Yes	Conflict with new round-a-bout.

Tree number	Species	Category	TPO	Reason for tree removal
G65	Sycamore	C1+2	No	Conflict with new junction at Crookthorn Lane.
T70	Hornbeam	B1+2	No	Excavation expected at base of stem for new pavement.
G84	Mixed	C1	No	Part of group conflicts with new cycle lane adjacent to Church Lane.
T85	Oak	C1+2	No	Conflict with new cycle lane adjacent to Church Lane.

Access Facilitation Pruning

3.2 Trees expected to require access facilitation pruning to enable the proposed construction works (based on the information currently available) comprise groups G1, G21, G22, G63 and G72. A summary of access facilitation pruning is shown below.

Table 2: Summary of access facilitation pruning

Tree number	Species	Works required	Reason for works
G1	Sycamore	Crown lift to 3m above proposed footpath link.	To enable free pedestrian access beneath northern most tree in group.
G21	Mixed	Crown lift to 2.5m over new footpath link.	To enable free pedestrian access between site and A259.
G22	Mixed	Crown lift to 2.5m over new footpath link.	To enable free pedestrian access between site and A259.
G63	Mixed	Crown lift to 3m over new pavement.	To enable free pedestrian access along new pavement.

Tree number	Species	Works required	Reason for works
G66	Mixed	Prune back to edge of proposed pavement.	To enable free pedestrian access along new pavement.
G72	Hawthorn	Prune back to edge of proposed pavement.	To enable free pedestrian access along new pavement.

- 3.3 Based on the information currently available, it is anticipated that the crowns of all remaining retained trees will be located a sufficient distance from proposed construction activities and expected construction access routes so as not to require access facilitation pruning.
- 3.4 Any additional requirements for access facilitation pruning that cannot be predicted at this stage in the design process (e.g. for contractor compound or movement of large or specialist plant machinery) shall be discussed at the pre-commencement meeting with the project arboriculturist and agreed with the local authority arboricultural officer. No works to protected trees (trees covered by the TPO or by relevant planning condition) may be undertaken without permission from the local authority.
- 3.5 All tree works are to be undertaken in accordance with BS3998: 2010 'Tree works – recommendations'.

Mitigation Planting

- 3.6 A total of 17 individual trees and nine tree groups require removal to facilitate the proposed development. Of these, two trees are assessed to be category A, ten trees and six groups as category B, three trees and four groups as category C and two trees and one group as category U. Nine of the trees and four of the groups are protected by a tree preservation order. Most of the tree removals are required to facilitate the construction of the new round-a-bout at the junction of Church Lane and the A259.
- 3.7 The landscaping proposals for the development are to be confirmed on the date of this report and can readily be secured by condition. These should include extensive tree planting to mitigate the loss of the trees from the junction of Church Lane and the A259 and maintain the verdant character of the road.

Building footings in proximity to trees

- 3.8 All proposed buildings will be located outside the root protection areas of retained trees, therefore use of specialist foundations for root protection is not deemed necessary.

- 3.9 NHBC guidelines on foundation depth in proximity to trees should be followed. This will be determined by a structural engineer but should be guided by information in this report and appropriate sampling to determine soil profiles at the site.

Drainage Services

- 3.10 The proposed drainage layout is shown on the tree retention plan. This will include the excavation of swales/attenuation basins within the root protection areas of T3, G6, T40 and G47. The encroachments into these root protection areas are not considered to be great enough to warrant removal of the trees, however the excavation will need to occur sensitively with arboricultural supervision.
- 3.11 A new underground surface water pipe will encroach the root protection area of G86, beneath Church Lane. Given the size and proximity of the trees, the presence of roots beneath the existing road surface should be assumed, despite the likely unfavourable rooting conditions. As such, the pipe must be installed sensitively as described in the arboricultural method statement.

Utility Services

- 3.12 Details of the routing of non-drainage services (gas, electric, telecoms, clean water) for the proposed development are not currently available. All underground services should be located outside the root protection areas of retained trees and above ground services should be located outside the anticipated mature crown spreads. Sympathetic methodologies to enable the installation of services within root protection areas (in certain instances) are available, however there will always be a potential arboricultural impact and arboricultural advice must be sought regarding the suitability of these methods before they are relied upon. If it is achievable, root protection areas should always be completely avoided.
- 3.13 Once details of the routing of new services become available, prior to commencement, these shall be reviewed by the project arboriculturist. The arboriculturist shall then confirm either that no works will be carried out within root protection areas or provide details of the methodology required to ensure the works are carried out in accordance with NJUG4 '*Guidelines for the planning, installation and maintenance of utilities in proximity to trees*' and BS5837: 2012.

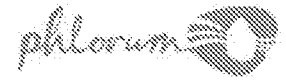
Hard Standing in Proximity to Trees

- 3.14 New hard standing footpaths will be constructed within the root protection areas of G21, G22, G25 and G47. The detailed specification (including levels) for the new footpaths to be constructed within these root protection areas shall be provided by an engineer but must be signed off by the project arboriculturist before implementation to ensure the roots and rooting medium are adequately protected. The specification for the footpaths must adhere to the following basic specification (see also Appendix C):

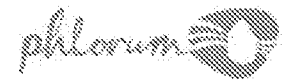
- ❖ Within the root protection areas, the footpaths shall be constructed directly onto the existing ground level without soil stripping. The surface vegetation (e.g. grass sward) shall be carefully removed using hand tools but the underlying soil must be fully retained and protected. If necessary, a layer of sharp sand (or other inert granular fill) may be used to fill divots to create a level surface onto which the footpaths can be constructed.
 - ❖ Within the root protection areas, the footpaths shall be constructed on a CellWeb TRP cellular confinement system filled with clean angular stone (Type 4/20mm). This will provide a permeable base for the footpaths that will spread the loads to reduce compaction of the soil beneath (compacted rooting medium can have a significant detrimental impact on root function).
 - ❖ CellWeb TRP is available from 75mm-200mm depth, depending on the soil conditions and the load it is designed to support (75mm is likely to be sufficient for these footpaths). Further guidance should be sought from the manufacturer when specifying the detailed surface designs.
 - ❖ The cellular confinement system shall be installed directly onto a TreeTex Geotextile membrane. A second membrane shall be installed above the cellular confinement system as well. These membranes will prevent soil, construction debris and other materials migrating through the cellular confinement system, which would otherwise impact on the porosity of the completed footpaths.
 - ❖ The wearing course for the new footpaths must be permeable (loose gravel, resin bound gravel, permeable tarmac or block paving with permeable spacers and bedding aggregate) to allow continued moisture ingress and gaseous diffusion with the rooting medium.
 - ❖ Kerbing that avoids the need for linear trenching shall be utilised, e.g. treated timber edging, aluminium L-shaped edging, galvanised metal edging or no fixed edging.
- 3.15 Further hard standing for the pavements surrounding the new round-a-bout at the junction of Church Lane and the A259 will encroach the root protection areas of G13, G63, G66 and T73. Within these root protection areas, the new hard standing will need to be constructed to an adoptable standard, and in most areas the existing levels will not facilitate a no-dig specification. Although the excavation within these root protection areas is likely to require root pruning, it is desirable to try and retain as many trees in this area as possible. As such, the excavation must occur under arboricultural supervision to confirm whether the retention of the affected trees will or will not be achievable.

Post Development Tree Pressures and Management

- 3.16 The proposed development has been assessed to determine the likely impact of tree shade, and also the likely future pressure to prune or remove additional trees.



- 3.17 Shade will be cast by groups G22 and G23 and to the dwellings in plots 46-69 and 213-223 for part of the day. However adequate separation has been left between the trees and the houses so that they should only be shaded for part of the day and not for prolonged periods. The gardens of these plots will not be shaded by the trees at all. No other plots will be shaded by existing trees.
- 3.18 Upon occupancy of the development, the frequency of access within the target areas of the woodland belts on the southern and western boundaries will significantly increase, therefore regular condition surveys should be undertaken of the trees on the north and east sides of these groups, and not just the road frontages. Installation of fencing around the edge of the woodlands is recommended to discourage non-maintenance related access into them other than on the proposed hard standing footpaths.



Figures and Appendices

Appendix A

Tree Retention Plan



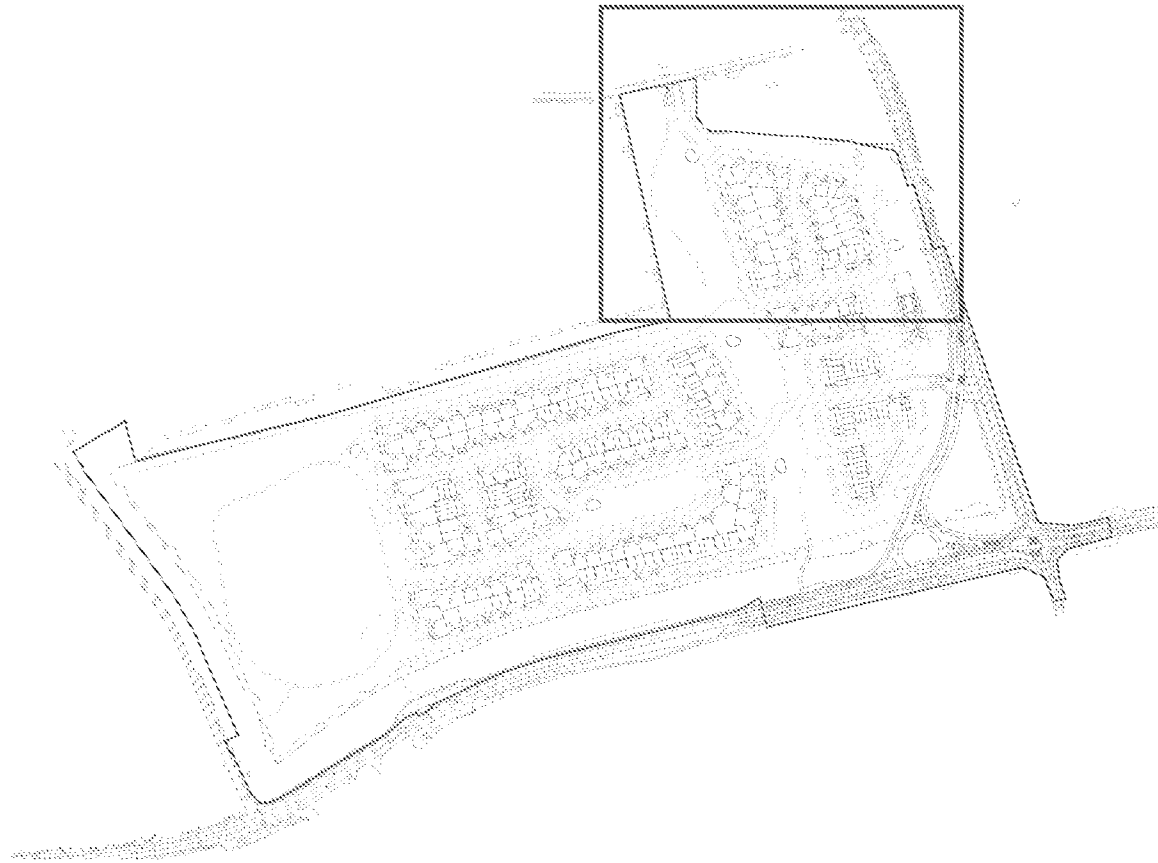
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 - ▨ Canopy of tree without TPO to be retained
 - ▨ Canopy of tree with TPO to be retained
 - Canopy of category A* tree to be removed
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 - Canopy of category C* tree to be removed
 - Canopy of category U* tree to be removed

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

Tree Survey Schedule contained within the arboricultural report contains further information for each tree.

This drawing should be viewed in colour.

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



Drawing no: 5646/21/B	Rev: -	Sheet number: 1 of 7
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Drawing title: Tree Retention Plan		
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Checked by: LW		



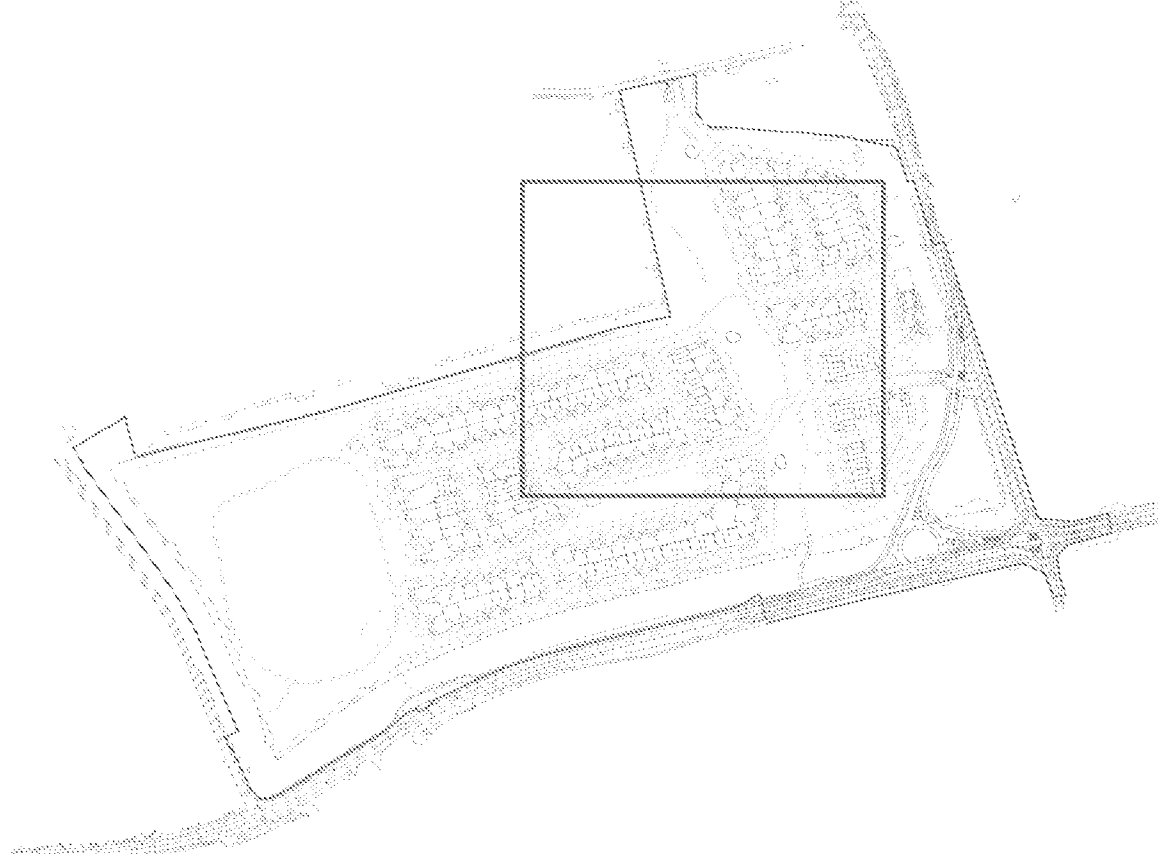
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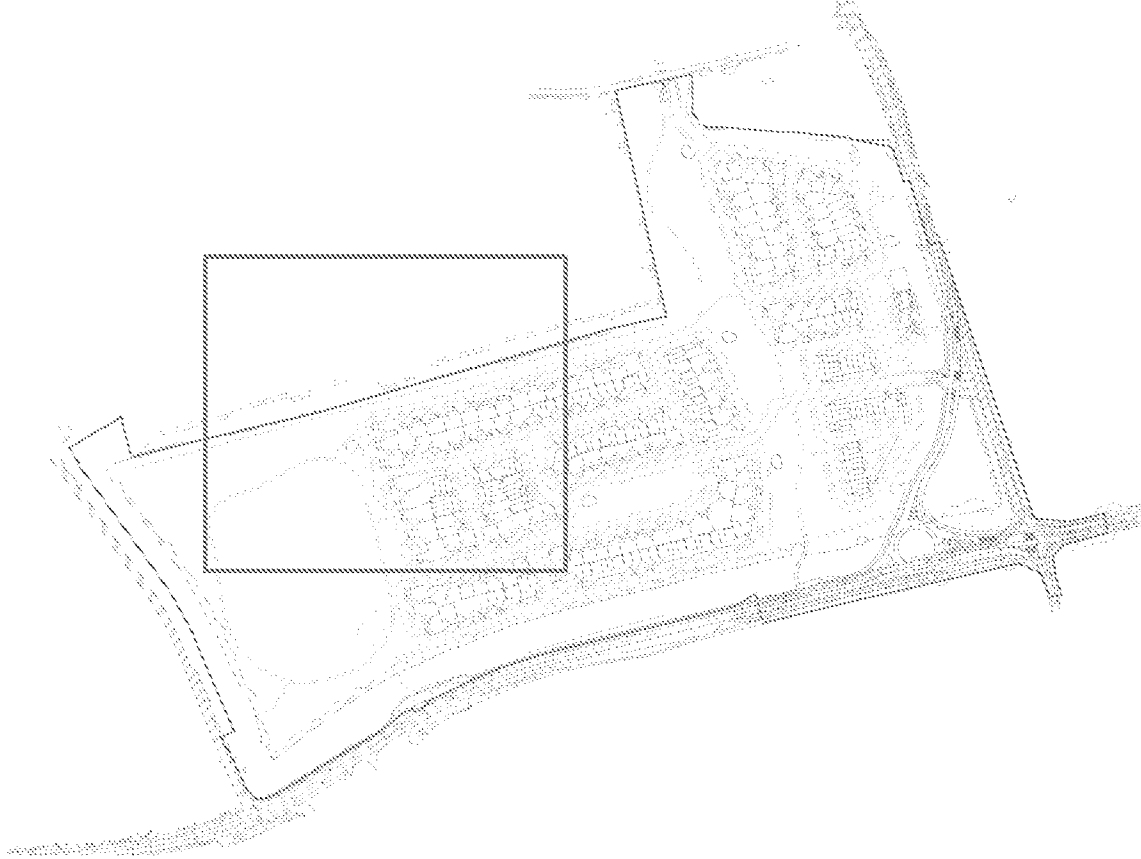
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Site:

Land at Climping
Littlehampton

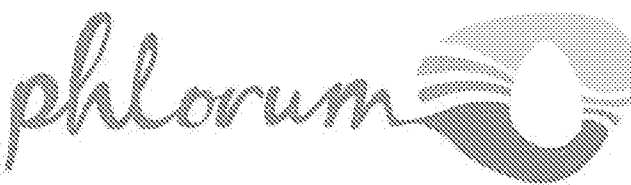
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Date drawn: 18/08/2021

Scale: 1:500 at A1

Drawn by: PD

Checked by: LW



Scale (m)
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H30

G28-PA

G27-PA

G25-PA

Area for potential
future
infrastructure
project by WSCC

Key:

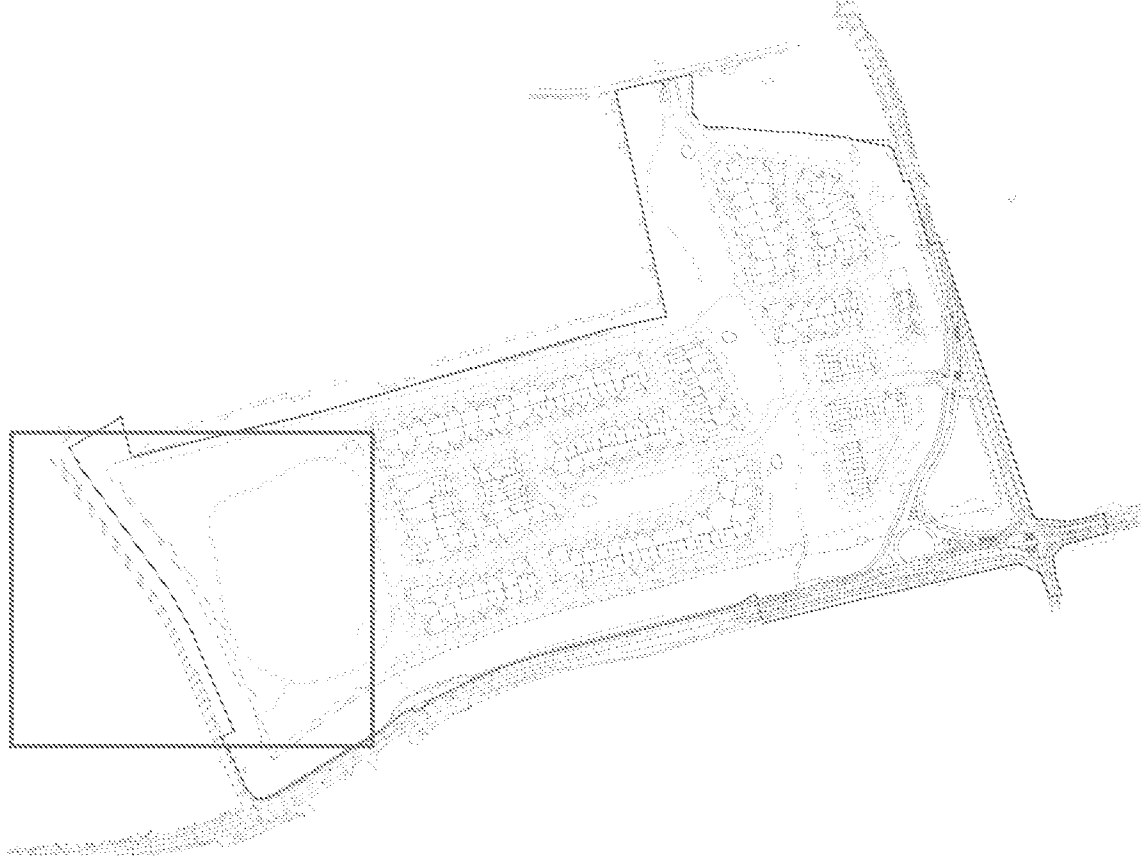
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Land at Climping
Littlehampton

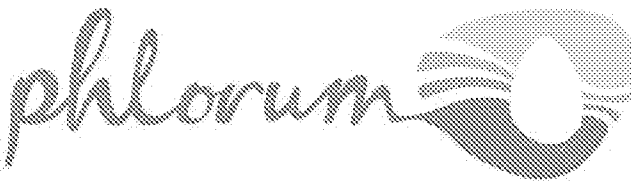
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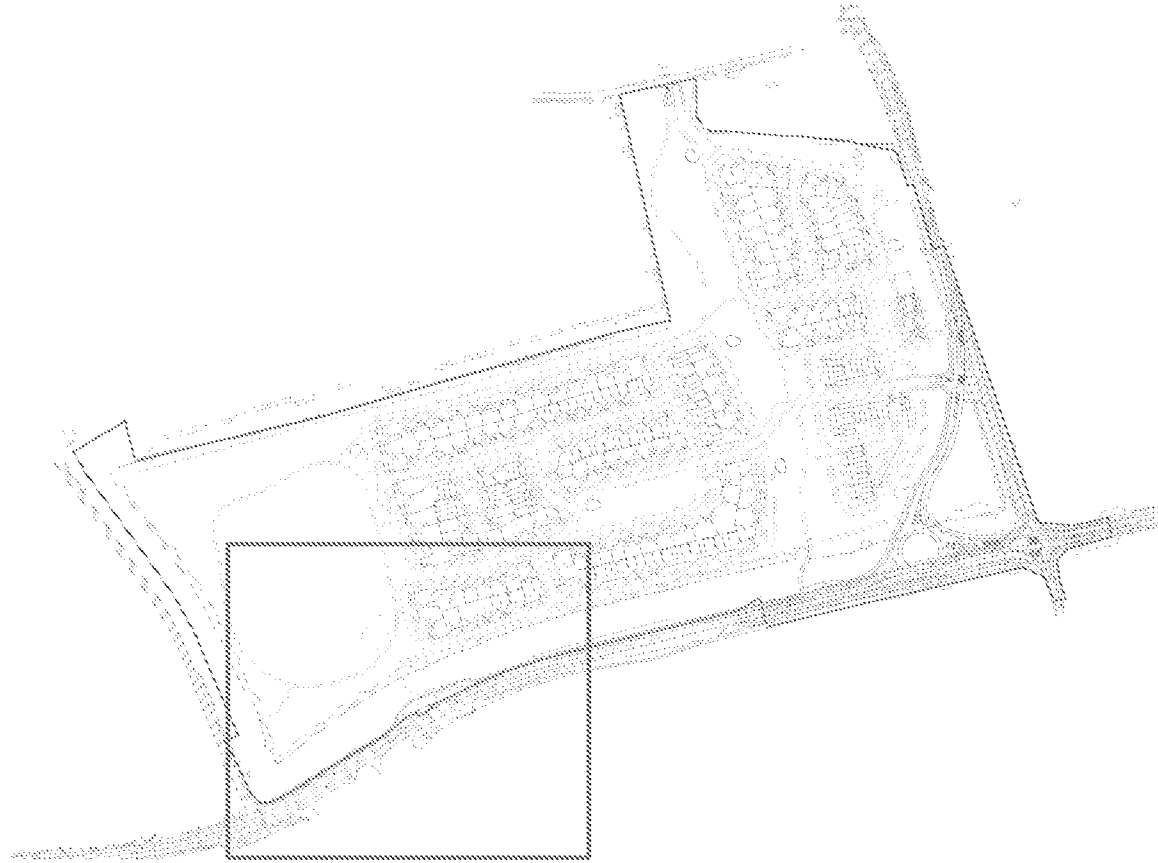
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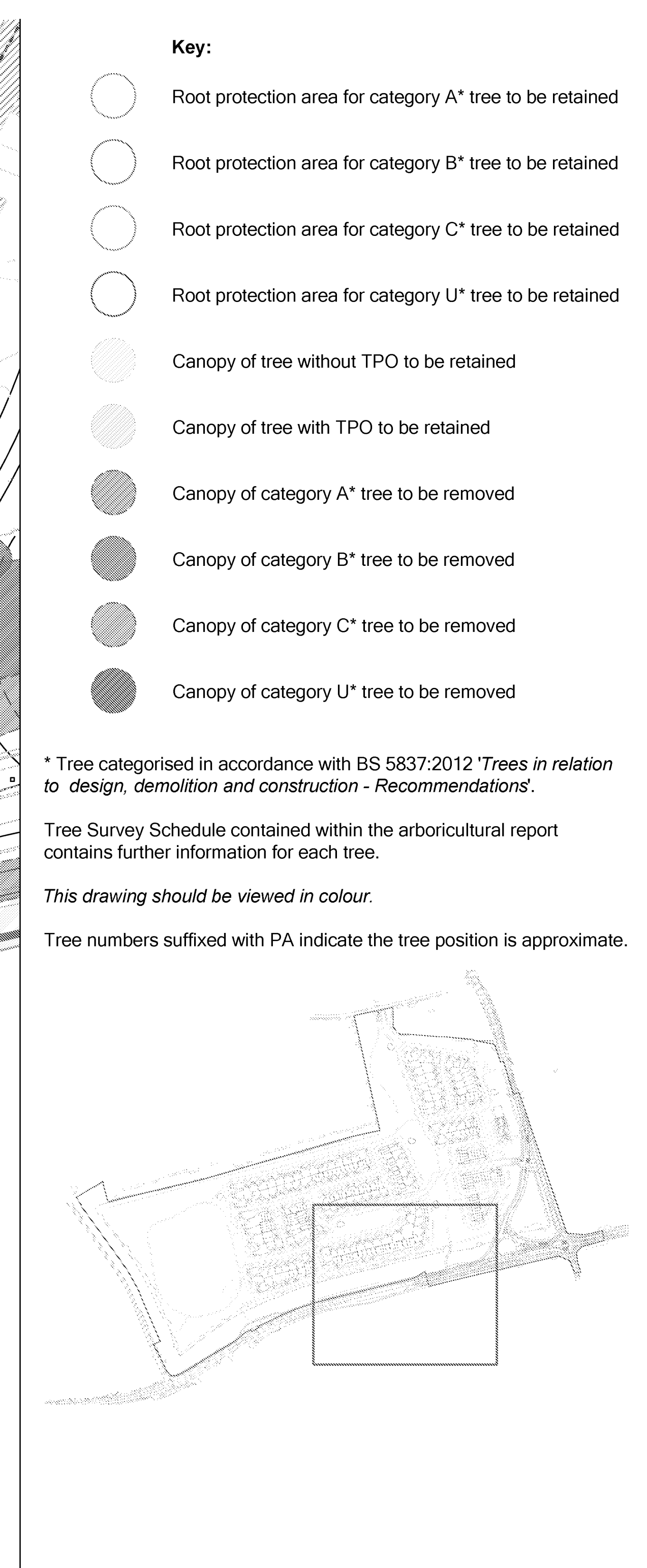
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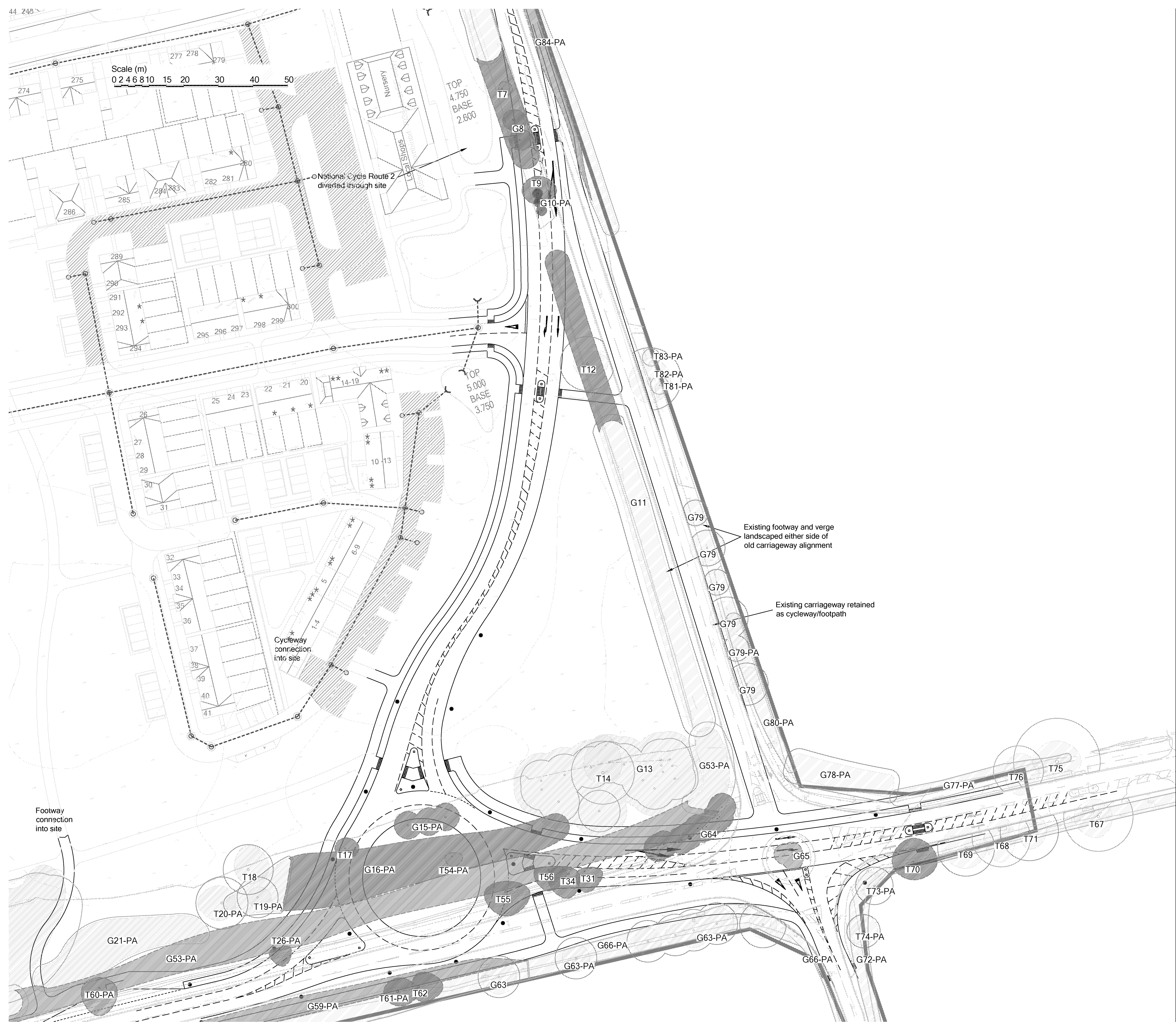
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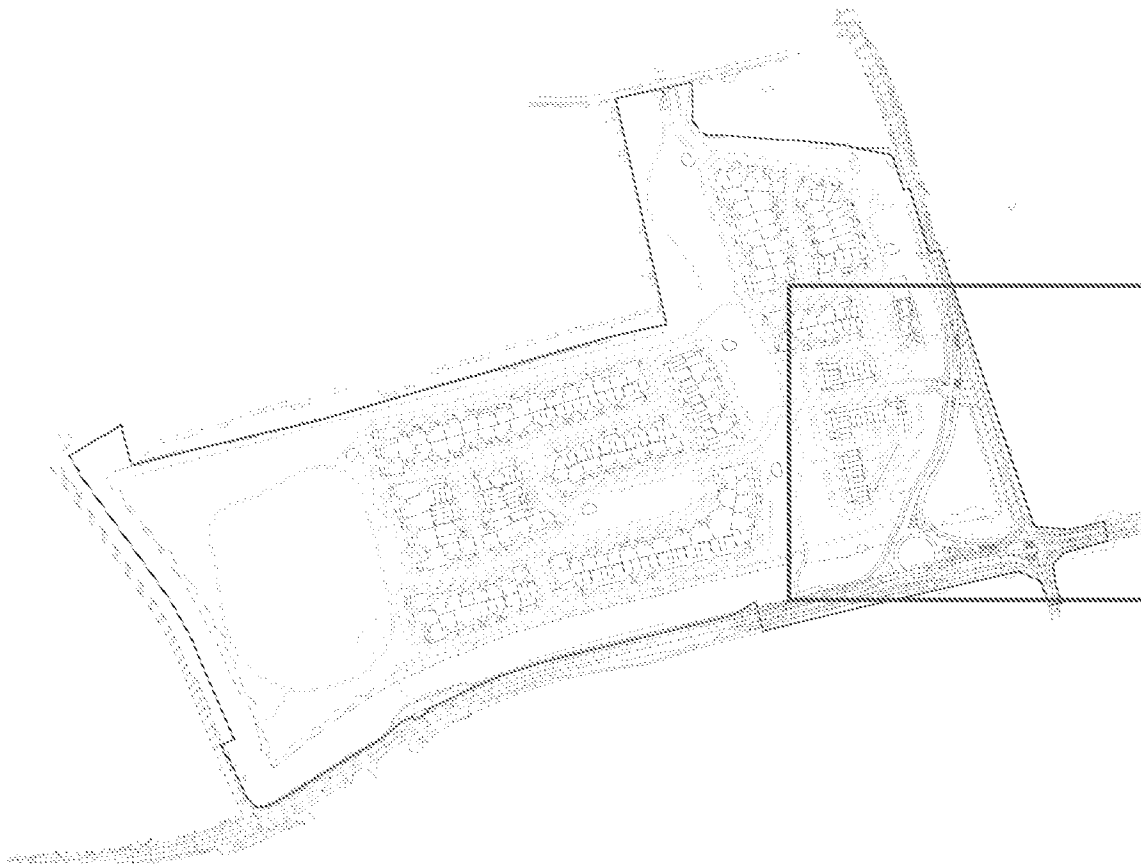
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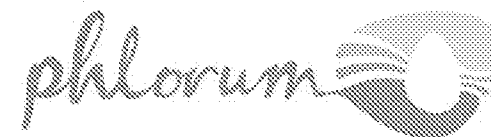
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Date drawn: 18/08/2021		
Scale: 1:500 at A1		
Drawn by: PD	Checked by: LW	

Appendix B

Tree Survey Schedule

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



Survey date: 02/12/2020

Surveyor: Peter Davies

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
G1	2x sycamore (Acer pseudoplatanus)	8-9 average	Up to 320 average	N: 4 E: 3 S: 2 W: 2	0 average	Early mature	Good	Good	Flailed from field. No major visible defects.	Crown lift to 3m over new footpath link.	ZZ	46.3 average	3.8 average
T2	Ash (Fraxinus excelsior)	6	100 average x7 stems	N: 3 E: 3 S: 2 W: 2	Crown: 0 north Branch: 1 average	Semi mature	Poor	Poor	Previously coppiced at 1m. Coppice stand decayed. Bacterial canker throughout crown and stems.	Fell to ground level.	U	31.7	3.2
T3	Ash (Fraxinus excelsior)	8	230	N: 4 E: 4 S: 1 W: 1	Crown: 1 north Branch: 2 east	Semi mature	Good	Good	Small tree of reasonable condition. Slightly suppressed on south side by oak.	No action required.	ZZ	23.9	2.8
T4	Pedunculate oak (Quercus robur)	10	500	N: 5 E: 6 S: 6 W: 5	Crown: 2 south Branch: 2 south	Early mature	Good	Good	Previously crown lifted over road. No major visible defects. Good retention potential.	Fell and remove stump.	A1	113.1	6.0 (amended on Tree Constraints Plan)
T5	Horse chestnut (Aesculus hippocastanum)	7	100 average x 6 stems	N: 3 E: 2 S: 3 W: 2	Crown: 0 average Branch: 0 average	Semi mature	Fair	Fair	Multi-stemmed. Compression fork in primary union. Hawthorn growing near base of stem.	No action required.	O1	27.1	2.9
G6	Mixed (sycamore dominant, hawthorn)	4-8 average	Up to 400 average	2-4 average	0 average	Early mature	Good	Fair	Linear tree belt. Previously flailed from field and reduced from road. Multi-stemmed trees present.	Fell part of group as shown on tree retention plan.	ZZ	72.4 average	4.8 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule

Survey date: 02/12/2020

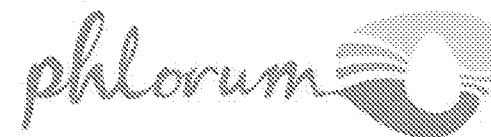
Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T7	Horse chestnut (Aesculus hippocastanum)	6	300	N: 2 E: 3 S: 2 W: 1	Crown: 1 average Branch: 1 east	Semi mature	Fair	Fair	Damage to foliage from leaf miner and Guignardia aesculi in 2018 survey (tree not in leaf in 2020 survey). Mechanical damage to stem bark.	Fell and remove stump.	C1	40.7	3.6
G8	2x sycamore (Acer pseudoplatanus)	10–11 average	Up to 450 average	N: 3 E: 4 S: 3 W: 3	0–1 average	Mature	Good	Fair	Multi-stemmed trees. Crowns flailed from field.	Fell and remove stumps.	U1+2	91.6 average	5.4 average
T9	Ash (Fraxinus excelsior)	10	430	N: 4 E: 6 S: 4 W: 4	Crown: 0 north Branch: 2 north	Mature	Fair	Fair	Reduced from field and crown lifted over road. Minor deadwood throughout crown.	Fell and remove stump.	U2	83.6	5.2 (amended on Tree Constraints Plan)
G10	Mixed (2x ash and 1x sycamore)	6–7 average	250 average	1–2 average	0 average	Semi mature	Poor	Poor	Ash exhibiting significant crown dieback. Sycamore suppressed by T9 resulting in drawn up habit.	Fell and remove stumps.	U	28.3 average	3.0 average
G11	Mixed (sycamore dominant, ash, pedunculate oak, hawthorn)	4–14 average	Up to 400 average	N: 3 E: 4 S: 3 W: 3	0–3 average	Semi mature–mature	Good	Fair	Line of mostly sycamore with hawthorn under-storey. Slightly drawn up habits due to close spacing (in places).	Fell part of group as shown on tree retention plan.	U2	72.4 average	4.8 average
T12	Poplar (Populus canadensis)	18	630	N: 4 E: 6 S: 4 W: 4	Crown: 1 east Branch: 3 south	Mature	Good	Good	Under-storey inhibits inspection. No major visible defects.	No action required.	U1+2	179.6	7.6 (amended on Tree Constraints Plan)

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



Survey date: 02/12/2020

Surveyor: Peter Davies

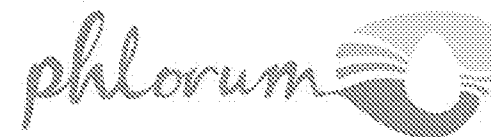
Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
G13	Mixed (oak dominant, ash, field maple, poplar, hawthorn, elder)	2-16 average	Up to 500 average	1-8 average	0-6 average	Mature	Good	Good	Mature native deciduous woodland. Drawn up habits, typical of woodland specimens. Minor defects throughout.	TPO -- Detailed condition survey should be undertaken.	A1+2	113.1 average	6.0 average
T14	Pedunculate oak (Quercus robur)	15	760	N: 11 E: 5 S: 3 W: 5	Crown: 3 south Branch: 5 south	Mature	Good	Good	Notably large specimen within woodland. North lean.	TPO -- No action required.	A1	261.3	9.1
G15	Ash (Fraxinus excelsior)	16-20 average	Up to 500 average	4 average	2 average	Mature	Fair	Good	3x adjacent trees. East tree heavily decayed at base. Relatively sparse crown in west tree.	TPO -- Fell and remove stumps.	B1+2	113.1 average	6.0 average
G16	Hybrid black poplar (Populus X canadensis)	8-14 average	Up to 300 average	1-4 average	0 average	Semi-early mature	Good	Good	Relatively densely spaced belt of poplars. Most multi-stemmed with drawn up growth habits.	TPO -- Remove part of group as shown on tree retention plan.	B2	40.7 average	3.6 average
T17	Ash (Fraxinus excelsior)	15	460	N: 3 E: 4 S: 3 W: 3	Crown: 0 average Branch: 2 south	Mature	Fair	Fair	Dense under-storey inhibits inspection. Dieback in upper crown.	TPO -- Fell and remove stump.	B1	95.7	5.5
T18	Ash (Fraxinus excelsior)	16	540, 260	N: 7 E: 6 S: 4 W: 4	Crown: 3 north Branch: 3 west	Mature	Good	Good	Multi-stemmed from 3m. Crown lifted over field. Decay at base of secondary stem weighted over woodland to south.	TPO -- No action required.	B1+2	162.5	7.2

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule

Survey date: 02/12/2020

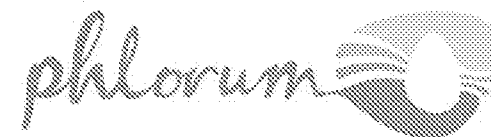
Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
T19	Ash (Fraxinus excelsior)	15	490	N: 3 E: 4 S: 3 W: 3	Crown: 7 north Branch: 7 west	Mature	Good	Fair	Drawn up habit and high crown clearance due to suppression. Moderate dead wood in crown.	TPO -- No action required.	S1	108.6	5.9
T20	Ash (Fraxinus excelsior)	14	520, 260, 220	N: 5 E: 4 S: 5 W: 7	Crown: 1 north Branch: 2 east	Mature	Fair	Good	Some dieback on north side of crown (not overhanging field). Multi-stemmed.	TPO -- No action required.	S1	174.8	7.5
G21	Mixed (elm dominant, cherry, ash, poplar)	4-6 average	Up to 200 average	1-4 average	0 average	Semi mature	Fair	Fair	Predominantly elm suckers with other small trees. Evidence of Dutch Elm Disease observed.	TPO -- Monitor for Dutch elm disease and clear as necessary. Reduce clear of new footpath link.	C1	4.5 average	1.2 average
G22	Mixed (beech and ash dominant) hawthorn, elder, pedunculate oak)	Up to 25 average	Up to 600 average	Up to 6 over field	0-7 average	Mature	Fair	Good	Mature native deciduous woodland. Dieback in most trees on south side of group (possibly associated with wind burn).	TPO -- Crown lift to 2.5m over new footpath link.	A1+2	162.9 average	7.2 average
G23	Ash (Fraxinus excelsior)	15 average	300 average	3 average	4 average	Mature	Poor	Poor	Group of ash. Most exhibiting significant dieback. Located within falling distance of field. Possible ash dieback (Hymenoscyphus fraxineus).	TPO -- No action required.	C1+2	40.7 average	3.6 average
T24	Ash (Fraxinus excelsior)	17	520	N: 5 E: 4 S: 3 W: 3	Crown: 6 north Branch: 7 north	Mature	Fair	Poor	Co-dominant stems from 4m – potential decay in compression fork at primary union at 4m. Bramble inhibits inspection.	TPO -- Fell to ground level.	U	122.3	6.2

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



Survey date: 02/12/2020

Surveyor: Peter Davies

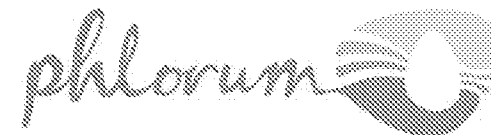
Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
G25	Mixed (oak dominant, sycamore, ash, hawthorn, hazel, elm, holly)	14-25 average	Up to 500 average	Up to 6 over field	1-7 average	Mature	Good	Fair	Mature native deciduous woodland. Drawn up habits. Multiple decay cavities and other defects observed.	TPO -- No action required.	A1+2	113.1 average	6.0 average
T26	Pedunculate oak (Quercus robur)	7	330	N: 0 E: 3 S: 5 W: 3	Crown: 2 south Branch: 3 south	Early mature	Good	Fair	Strong south lean. Previously crown lifted over drainage ditch.	TPO -- Fell and remove stump.	B2	49.3	4.0
G27	Mixed (beech, dominant, ash, oak)	14-20 average	Up to 700 average	Up to 5 over field	0-6 average	Mature	Good	Fair	Trees planted in linear belts. Limited under-storey. Minor dieback in some beech specimens. Several are multi-stemmed. Numerous defects.	TPO -- No action required.	B1+2	221.7	8.4 average
G28	Mixed (beech, ash, oak, poplar)	8-15 average	Up to 400 average	Up to 7 over field	0-6 average	Semi mature-mature	Good	Good	Mixed deciduous woodland block. Some ash exhibiting dieback, particularly at the north end of the group (possible Hymenoscyphus fraxineus).	TPO -- No action required.	B2	72.4 average	4.8 average
G29	Mixed (ash, sycamore, hawthorn)	5-16 average	Up to 350 average	2-5 average	1-4 average	Semi mature-mature	Good	Fair	Moderately dense belt of trees on road frontage. One dead, partially failed ash in falling distance of road.	Remove dangerous ash stem (suggestion only as third party trees).	B2	55.4 average	4.2 average
H30	Cypress (Cupressus X leylandii)	3-4 average	Up to 150 average	1-3 average	0 average	Semi mature	Fair	Fair	Third party topped cypress tree line. Some sparse areas on south side, clad with bramble and bindweed.	No action required.	C2	10.2 average	1.8 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule

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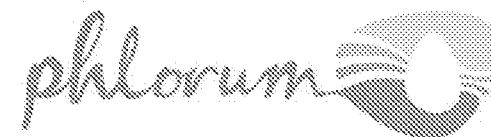
Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m²)	Root Protection Radius (m)
T31	Pedunculate oak (Quercus robur)	7	370	N: 1 E: 5 S: 6 W: 2	Crown: 2 south Branch: 2 average	Semi mature	Good	Fair	Asymmetric crown bias south.	TPO -- Fell and remove stump.	§2	61.9	4.4
T32	Flowering cherry (Prunus spp.)	5	200 est	N: 2 E: 2 S: 2 W: 2	Crown: 1 average Branch: 1 south	Young	Good	Good	Third party tree. No major visible defects.	No action required.	§1	18.1	2.4
T33	Silver birch (Betula pendula)	8	150, 150, 150, 150 est	N: 4 E: 4 S: 2 W: 3	Crown: 2 south Branch: 1 average	Early mature	Good	Good	Small third party tree. Multi-stemmed. Previously crown lifted.	No action required.	§1	50.9	4.0
T34	Pedunculate oak (Quercus robur)	11	530	N: 2 E: 3 S: 7 W: 6	Crown: 2 south Branch: 3 south	Mature	Good	Good	Low deadwood. Slight south lean. No major visible defects.	TPO -- Fell and remove stump.	§1+2	127.1	6.4
H35	Cherry laurel (Prunus laurocerasus)	1.5 average	130 average est	0.5 average	0 average	Semi mature	Good	Fair	Third party clipped hedgerow.	No action required.	§2	7.6 average	1.6 average
T36	Eucalyptus (Eucalyptus spp.)	7	320	N: 4 E: 3 S: 2 W: 2	Crown: 1 south Branch: 1 average	Semi mature	Good	Good	Potentially third party tree. No major visible defects.	No action required.	§1	46.3	3.8

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



Survey date: 02/12/2020

Surveyor: Peter Davies

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
G37	Mixed (silver birch, cherry laurel, cherry)	3–6 average	Up to 180 average	2–3 average	0–1 average	Young–semi mature	Good	Good	Third party, small trees and shrubs.	No action required.	C1+2	14.7 average	2.2 average
G38	Mixed (garden ornamentals, silver birch, blackthorn, hawthorn)	2–4 average	Up to 100 average	Up to 2 average	0 average	Young–semi mature	Good	Good	Small trees and shrubs.	No action required.	C1	4.5 average	1.2 average
G39	Mixed (hawthorn, elm)	2–6 average	Up to 100 average	1–2 average	0 average	Semi mature	Fair	Fair	Self set trees – some smothered with bramble. Evidence of Dutch Elm Disease observed.	Monitor for Dutch elm disease and clear as necessary.	C2	4.5 average	1.2 average
T40	Sycamore (Acer pseudoplatanus)	12	730 at 1m	N: 4 E: 5 S: 5 W: 5	Crown: 3 west Branch: 1.5 north	Mature	Good	Good	Under–storey and ivy inhibit inspection. Previously crown lifted over field. No major visible defects.	No action required.	B1+2	241.1	8.8 (amended on Tree Constraints Plan)
T41	Scots pine (Pinus sylvestris)	8	390	N: 6 E: 5 S: –1 W: 2	Crown: 4 north Branch: 4 north	Early mature	Good	Fair	Minor basal wound. North east lean due to suppression from adjacent sycamore. Small stem cavity.	No action required.	C1+2	68.8	4.7
G42	Mixed (birch, willow, Norway maple, oak, cypress)	Up to 8 average	Up to 300 average	2–6 average	1–2 average	Semi mature–mature	Good	Good	Third party trees in private garden. Only viewed from site. Appear of reasonable condition.	No action required.	B1+2	40.7 average	3.6 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



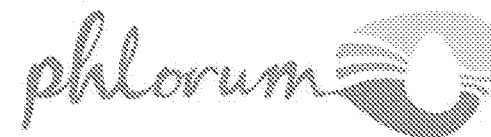
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Surveyor: Peter Davies

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
G43	Silver birch (Betula pendula)	6-7 average	Up to 150 average	2-3 average	1 average	Semi mature	Fair	Fair	Line of birch flailed laterally to 3-4m. 1x tree flailed since 2018 survey.	No action required.	C1	10.2 average	1.8 average
T44	Goat willow (Salix caprea)	5	340, 190, 320, 290 over ivy	N: 3 E: 3 S: 6 W: 6	Crown: 2 south Branch: 1 average	Mature	Good	Fair	Multi-stemmed. Possible third party specimen. Asymmetric crown. Previously crown lifted. Ivy clad.	No action required.	C1	153.0	7.0
G45	Mixed (birch, rowan, beech, willow, ash, cypress, elder, ornamentals)	6-7 average	Up to 250 average	Up to 3 over field	2 over site	Semi-early mature	Fair	Fair	Third party trees along field boundary. Previously flailed to 3m and topped.	No action required.	C2	28.3 average	3.0 average
T46	Horse chestnut (Aesculus hippocastanum)	8	350, 200, 200 est	N: 4 E: 4 S: 4 W: 4	Crown: 2 west Branch: 2 west	Early mature	Fair	Good	Third party tree only viewed from site. Leaf miner moth damage to the foliage observed in 2018 survey. Previously crown lifted.	No action required.	S1+2	91.6	5.4
G47	Mixed (Leyland cypress dominant and Monterey cypress)	12-15 average	Up to 500 average	2-5 average	0 average	Mature	Good	Fair	Third party tree belt, flailed along field boundary to 4m.	No action required.	S2	113.1 average	6.0 average
G48	Mixed (elm dominant, hawthorn, silver birch)	Up to 6 average	Up to 75 average	1-2 average	0 average	Semi mature	Good	Fair	Third party elm suckers. Evidence of Dutch Elm Disease observed in 2018 survey.	Monitor for Dutch elm disease and clear as necessary.	C1	2.5 average	0.9 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



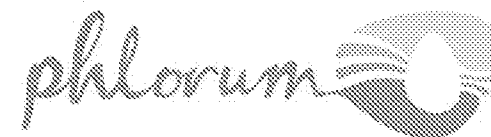
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Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T49	Whitebeam (Sorbus aria)	5	130	N: 2 E: 1 S: 2 W: 1	Crown: 1.5 average Branch: 2 average	Semi mature	Good	Good	Third party tree. No major visible defects.	No action required.	C1	7.6	1.6
G50	2x Bay (Laurus nobilis)	3 average	Up to 120 average	1 average	1 average	Early mature	Good	Good	Third party shrubs pruned to formal shapes.	No action required.	C1	6.5 average	1.4 average
G51	Mixed (ash, willow, elm, hawthorn)	3-7 average	Up to 150 average	1-3 average	0 average	Semi mature	Fair	Fair	Scrub and small trees viewed from north side of road. Dense bramble.	No action required.	C2	10.2 average	1.8 average
T52	Elder (Sambucus nigra)	3	170	N: 0 E: 1 S: 3 W: 1	Crown: 1 south Branch: 1 east	Mature	Fair	Fair	Minor crown dieback. Bark damage to stem. Unlikely to be present in 10 years.	No action required.	U	13.1	2.0
G53	Mixed (hawthorn, blackthorn, elder)	2-7 average	Up to 200 average	1-4 average	0-3 average	Semi mature-mature	Good	Fair	Scrub (sporadic in places) and small trees along road frontage. Most under 150mm stem diameter. Areas smothered by bramble or ivy.	TPO -- Remove part of group as shown on tree retention plan.	C2	18.1 average	2.4 average
T54	Hawthorn (Crataegus monogyna)	8	320	N: 1 E: 3 S: 3 W: 2	Crown: 0 west Branch: 1 south	Over mature	Fair	Good	Dieback in upper and west side of crown (tree not suppressed).	TPO -- Fell and remove stump.	C1	46.3	3.8

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



Survey date: 02/12/2020

Surveyor: Peter Davies

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T55	Pedunculate oak (Quercus robur)	11	510	N: 3 E: 7 S: 7 W: 6	Crown: 2 east Branch: 2 east	Mature	Good	Good	One sided crown and slight south lean. Located on road frontage. Crown lifted over sign.	TPO -- Fell and remove stump.	B1	117.7	6.1
T56	Pedunculate oak (Quercus robur)	9	370, 220	N: 1 E: 5 S: 6 W: 4	Crown: 2 east Branch: 2 west	Early mature	Good	Fair	Dual stemmed. Tree leans south towards road. Previously crown lifted over drainage ditch and cycle path.	TPO -- Fell and remove stump.	B1	83.8	5.2
T57	Pedunculate oak (Quercus robur)	6	200 est	N: 1 E: 3 S: 3 W: 2	Crown: 1 average Branch: 1 average	Semi mature	Good	Fair	Small tree of reasonable condition. Flailed from field.	No action required.	B2	18.1	2.4
T58	Ash (Fraxinus excelsior)	6	140, 100	N: 1 E: 3 S: 2 W: 1	Crown: 1 east Branch: 1 south	Semi mature	Good	Fair	Dual stemmed from base. Likely self seeded. Flailed from field.	No action required.	C2	13.4	2.1
G59	Mixed (elm, poplar, dominant, hawthorn, elder)	3-8 average	Up to 150 average	1-3 average	0 average	Semi mature	Good	Fair	Dense tree belt on south side of road. Viewed from north side of road.	Clear part of group as shown on tree retention plan.	C2	10.2 average	1.8 average
T60	Pedunculate oak (Quercus robur)	11	500 est	N: 3 E: 5 S: 8 W: 5	Crown: 3 south Branch: 3 average	Mature	Good	Good	South lean. Previously crown lifted over cycle path. Ivy clad. Prominent specimen. Understorey inhibits inspection.	TPO -- Fell and remove stump.	A2	113.1	6.0

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule

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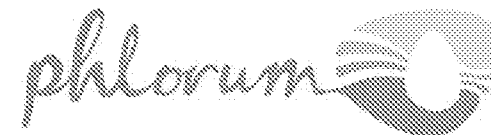
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Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T61	Ash (Fraxinus excelsior)	14	350, 350, 300, 300 est	N: 4 E: 6 S: 4 W: 4	Crown: 2 north Branch: 2 south	Mature	Fair	Fair	Viewed from north side of road. Multi-stemmed. Minor dead wood. Crown appears sparse in comparison with adjacent ash T62.	Fell and remove stump.	☒☒	192.3	7.8 (amended on Tree Constraints Plan)
T62	Ash (Fraxinus excelsior)	10	400, 400 est	N: 4 E: 7 S: 4 W: 2	Crown: 1 average Branch: 2 east	Mature	Good	Fair	Asymmetric crown due to suppression from T61. Viewed from north side of road. Good crown density in comparison to T61.	Fell and remove stump.	☒☒☒	144.8	6.8
G63	Mixed (ash, beech)	8-12 average	Up to 500 average	3-5 average	0-1 average	Early mature-mature	Good	Fair	Third party trees along south side of road. Viewed from north side of road. Multi-stemmed. Some ivy clad. Sporadic under-storey.	Crown lift to 3m over new pavement.	☒☒☒	113.1 average	6.0 average
G64	Mixed (oak, ash)	8-10 average	Up to 250 average	3-5 average	4-6 average	Early mature	Good	Fair	Linear belt of oak and ash adjacent to cycle path. Bacterial canker on some ash.	TPG -- Fell and remove stumps.	☒☒	28.3 average	3.0 average
G65	Sycamore (Acer pseudoplatanus)	3-7 average	Up to 150 average	3 average	2 average	Semi mature	Good	Fair	Three small trees in centre of round-a-bout.	Fell and remove stumps.	☒☒☒	10.2 average	1.8 average
G66	Mixed (hawthorn, elm)	4-6 average	Up to 100 average	1-2 average	0 average	Semi-early mature	Good	Fair	Lapsed hedgerow viewed from far side of road.	Reduce clear of new pavement.	☒☒	4.5 average	1.2 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



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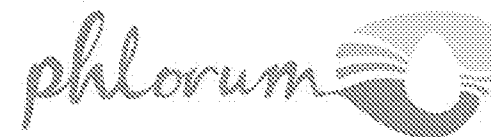
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T67	Lime (Tilia X europaea)	16	700 est	N: 5 E: 4 S: 6 W: 7	Crown: 1 average Branch: 0 average	Mature	Good	Good	Multi-stemmed from 2.5m. Basal epicormic shoots. Prominent specimen. Reduced over field to south. No major visible defects.	No action required.	A2	221.7	8.4 (amended on Tree Constraints Plan)
T68	Pedunculate oak (Quercus robur)	16	600 est	N: 6 E: 4 S: 7 W: 5	Crown: 3 west Branch: 4 average	Mature	Good	Good	Ivy encroaches crown. Good retention potential.	No action required.	A1+2	162.9	7.2 (amended on Tree Constraints Plan)
T69	Ash (Fraxinus excelsior)	14	600 est	N: 7 E: 6 S: 6 W: 7	Crown: 2 south Branch: 2 average	Mature	Good	Good	Broad growth habit. Ivy encroaches crown. Crown lifted over road.	No action required.	B1+2	162.9	7.2 (amended on Tree Constraints Plan)
T70	Hornbeam (Carpinus betulus)	15	600 est	N: 7 E: 7 S: 5 W: 6	Crown: 0 south Branch: 0 south	Over mature	Good	Good	Broad growth habit. Ivy encroaches crown. Crown lifted over road.	Fell and remove stump.	B1+2	162.9	7.2 (amended on Tree Constraints Plan)
T71	Ash (Fraxinus excelsior)	15	600 est	N: 6 E: 5 S: 5 W: 3	Crown: 5 east Branch: 4 average	Mature	Good	Good	Under-storey inhibits inspection of stem. Minor dead wood. Light ivy cover.	No action required.	B1+2	162.9	7.2 (amended on Tree Constraints Plan)
G72	Hawthorn (Crataegus monogyna)	2-4 average	Up to 100 average	1-2 average	0 average	Semi mature	Good	Fair	Scrub belt along field boundary.	Reduce clear of new pavement.	C2	4.5 average	1.2 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule

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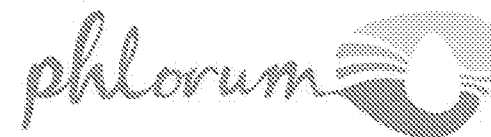
Surveyor: Peter Davies



Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T73	Ash (Fraxinus excelsior)	14	450 est	N: 4 E: 3 S: 3 W: 5	Crown: 2 north Branch: 3 north	Mature	Fair	Fair	Minor dieback in upper crown on south side. Ivy encroaches crown.	Sever ivy around base. Monitor for ash dieback in 2021 growing season.	☹☹	91.6	5.4
T74	Pedunculate oak (Quercus robur)	14	400 est	N: 5 E: 4 S: 4 W: 5	Crown: 1 west Branch: 3 west	Mature	Good	Fair	Under-storey inhibits inspection. Reduced from phone line. Failed primary limb at primary branch junction.	No action required.	☹☹	72.4	4.8
T75	Lime (Tilia X europaea)	18	900 est	N: 6 E: 7 S: 5 W: 7	Crown: 3 north Branch: 6 south	Mature	Good	Good	Ivy and basal growth inhibit inspection of stem. Good overall form and condition.	No action required.	A1+☹	366.5	10.8 (amended on Tree Constraints Plan)
T76	Pedunculate oak (Quercus robur)	14	560 over ivy	N: 5 E: 6 S: 7 W: 4	Crown: 4 north Branch: 4 north	Mature	Good	Good	Ivy clad stem. Previously crown lifted on south side. No major visible defects.	No action required.	A1+☹	141.9	6.7
G77	Mixed (hawthorn, willow, elm)	4-7 average	Up to 200 average	1-3 average	0-2 average	Semi-early mature	Good	Fair	Scrub on road frontage. Provides screening between road and park. Ivy clad.	No action required.	☹☹	18.1 average	2.4 average
G78	Mixed (sycamore, Leyland cypress)	10-12 average	Up to 400 average	2-4 average	0-4 average	Early mature-mature	Fair	Fair	Third party tree group in corner of park. Some cypresses exhibiting dieback.	No action required.	☹☹	72.4 average	4.8 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



Survey date: 02/12/2020

Surveyor: Peter Davies

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
G79	Mixed (lime x2, birch, sycamore x3)	10-14 average	Up to 450 average	4-5 average	2-4 average	Mature	Good	Good	Evenly and broadly spaced line of trees on east side of Church Lane. Reasonable condition and good visual amenity value.	No action required.	C1 C2	91.6 average	5.4 average
G80	Mixed (elm, sycamore)	2-6 average	Up to 100 average	1-3 average	0-2 average	Young-semi mature	Good	Fair	Moderately dense group of small self set trees.	No action required.	C2	4.5 average	1.2 average
T81	Sycamore (Acer pseudoplatanus)	8	220	N: 1 E: 2 S: 4 W: 1	Crown: 4 south Branch: 3 south	Semi mature	Good	Fair	Suppressed growth habit. No major visible defects.	No action required.	C1 C2	21.9	2.6
T82	Lime (Tilia X europaea)	10	610 at 1m	N: 6 E: 6 S: 7 W: 6	Crown: 2 south Branch: 2 average	Mature	Good	Good	Multi-stemmed from 1.5m. Previously crown lifted. Minor dead wood.	No action required.	C1 C2	168.3	7.3 (amended on Tree Constraints Plan)
T83	Sycamore (Acer pseudoplatanus)	7	100, 100, 100, 90, 80 est	N: 3 E: 1 S: 2 W: 3	Crown: 1 north Branch: 0 average	Semi mature	Good	Fair	Self-seeded. Multi-stemmed. Conflicts with third party chain-link fence.	Suggest removing to protect fence (not required for development).	C1	20.1	2.5
G84	Mixed (ash, sycamore, hawthorn, oak, Italian alder)	2-6 average	Up to 200 average	1-4 average	0-1 average	Young-semi mature	Good	Fair	Small ash and sycamores on road frontage with dense alder and oak saplings behind.	Clear part of group as shown on tree retention plan.	C1	18.1 average	2.4 average

Site: Land adjacent Church Lane, Climping

Tree Survey Schedule



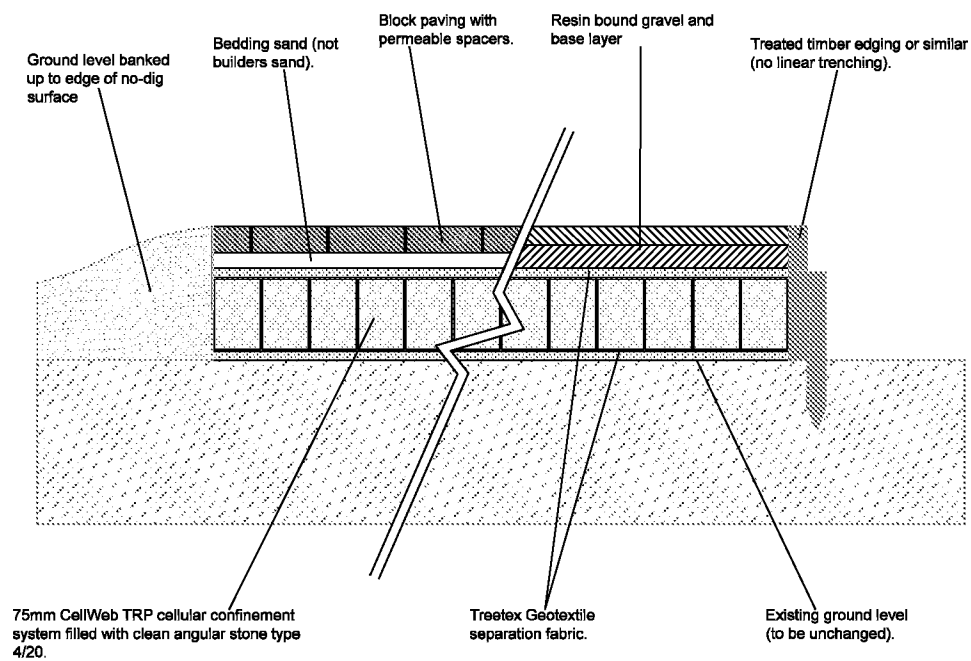
Survey date: 02/12/2020

Surveyor: Peter Davies

Tree ref.	Species	Height (m)	Stem diameter (mm)	Branch spread (m)	Crown clearance (m)	Age class	Physiological condition	Structural condition	Comments	Management recommendation	Category grading	Root Protection Area (m ²)	Root Protection Radius (m)
T85	Pedunculate oak (Quercus robur)	7	150, 160, 100 est	N: 4 E: 4 S: 3 W: 4	Crown: 1 north Branch: 1 north	Semi mature	Good	Fair	Reasonable condition but smothered by ivy.	Fell and remove stump.	C1+2	26.3	2.9
G86	Mixed (holm oak, horse chestnut)	16-18 average	Up to 600 average	N: 9 E: 8 S: 9 W: 8	2-3 average	Mature	Good	Fair	Group of third party trees in private garden. Prominent specimens. Previously crown lifted.	No action required.	A2	162.9 average	7.2 average
G87	Leyland cypress (Cupressus X leylandii)	15 average	Up to 450 average	3-4 average	2 average	Mature	Good	Fair	Two third party Leyland cypress above low brick retaining wall. Previously crown lifted.	No action required.	B2	91.6 average	5.4 average
G88	Mixed (ash, apple, laburnum, plum)	5-7 average	Up to 300 average	3-6 average	1-3 average	Early mature-mature	Good	Fair	Third party trees in private garden. Ash has extensive bacterial cankers.	No action required.	C1+2	40.7 average	3.6 average

Appendix C

Example No-dig Footpath Specification



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