



MARK WELBY
CONSULTING ARBORISTS

Arboricultural Report

Including a tree survey, impact assessment and method statement
for park homes at

31 Barkham Ride, Finchampstead, RG40 4EX

Reference: MW.2301.BRF.SK02.AIA
Client: Mr T Roberts
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Mark Welby DipArb(RFS), TechCert(ArborA), FArborA
01730 239 492 | mark@mwelby.com | www.mwelby.com
M Welby Ltd, trading as Mark Welby Consulting Arborists
Hampshire, UK



Executive Summary

Trees are a consideration in this planning application for park homes. Therefore, this report has been drafted to provide the information required to enable the local planning authority to meet the duty placed upon them by section 197 of the Town and Country Planning Act (as amended, 2021).

Included are a BS5837:2012 compliant tree survey, arboricultural impact assessment, and tree protection strategy that includes a method statement and tree protection plan.

There is recent consent for this site, Wokingham Borough Council reference 230791. This proposal retains more trees and requires less impact on root protection areas. Therefore, in arboricultural terms, it must be deemed acceptable.



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1. Instructions and Terms of Reference

- 1.1. In November 2024, I was instructed by Mr T Roberts to produce this report to accompany a planning application for a number of park homes at 31 Barkham Ride, Finchampstead, RG40 4EX.
- 1.2. On 28th June 2024, Wokingham Borough Council approved an application for residential dwellings on the site (ref: 230791).
- 1.3. Following the recommendations of the British Standard¹, this report includes the necessary information to enable the local planning authority to meet the duty placed upon them by section 197 of the Town and Country Planning Act (as amended, 2021).
- 1.4. It demonstrates that the proposal's impact, both direct and indirect, has been assessed, and mitigation, compensation, and tree protection have been proposed where appropriate.
- 1.5. Correctly implementing the tree protection specified in this report is critical for ensuring the retained trees are successfully protected throughout construction.
- 1.6. The assessment considers the proposal's impact on the constraints of trees retained within the site and those on adjacent land. Such impact can be caused directly through construction damage and indirectly from post-development resentment and pressure to detrimentally prune or remove the trees. The latter is often due to a poor juxtaposition between the proposal and the trees.
- 1.7. A tree's root protection area (RPA) represents a minimum area in m² that shall be left undisturbed around it. This is initially represented by a circle but is fundamentally an area of rooting volume. It is often adjusted to account for constraints to root growth within the site (primarily highways and buildings). The British Standard provides recommendations regarding the protection of existing trees during the construction process. This is achieved by ensuring a tree protection strategy is implemented before any demolition or construction on site.

Documents Supplied

- Proposed: 2680-06E.dwg
- Site survey: 7759.dwg
- Decision notice for the residential approval (ref: 230791)

¹BS5837:2012 Trees in relation to design, demolition and construction

2. Statutory & Other Relevant Constraints

- 2.1. According to Wokingham District Council's online service², there are no tree preservation orders on the site (checked at the time of writing), nor is the site within a conservation area.

3. Survey Scope & Methodology

- 3.1. Tree survey data can be found on the appended plan.
- 3.2. The tree survey has been carried out following the recommendations of The British Standard and the trees are assessed objectively and without reference to any site layout proposals. Categories are based on each tree's health and condition, together with an assessment of its life expectancy if its surroundings were to be unchanged.
- 3.3. The reference numbers of surveyed trees and groups of trees are shown on the tree reference plan, which is appended to this report and based on the supplied survey drawing. Stem locations within groups may be estimated, and indicative of canopy only.
- 3.4. The tree survey was carried out from ground level only, with the aid of binoculars as necessary, following the Visual Tree Assessment³ (VTA) method.
- 3.5. Where trees are located on neighbouring land, an estimated appraisal of their quality and dimensions has been made.
- 3.6. Where stems or branches are obscured by ivy or other materials a full assessment of those parts will not be possible.
- 3.7. Tree heights were measured with a clinometer or estimated in relation to those measured.
- 3.8. Trunk diameters are measured at 1.5m above ground level, where this is not possible, then Figure C.1 of the British Standard is followed.
- 3.9. Tree canopies were markedly asymmetrical, and were measured (or estimated by pacing) in four directions using a laser measure. Symmetrical canopies are measured in one direction only, with dimensions in the remaining directions assumed to be similar. For the canopies of groups of trees, the maximum radius for each compass point is measured (more complicated groups will have further notes taken and an accurate representation will be shown on the plan).
- 3.10. All estimated dimensions are noted in the data.

² <https://wokingham.maps.arcgis.com>

³ Mattheck, C. & Breloer, H., 1998. The Body Language of Trees: A Handbook for Failure Analysis. London: H.M.S.O.

4. Arboricultural Impact Assessment

Proposal

- 4.1. It is proposed to place a number of park homes on the site, the layout of which can be seen on the appended plan.

Tree Removals

- 4.2. Twenty-four trees are to be removed to facilitate this proposal. They are listed on the appended plan and comprise five of poor quality (category U), which would be removed regardless of this application, and nine of low quality (category C). All of these trees have been approved for removal within the existing consent for the site.
- 4.3. In addition to the above, the remaining line of nine trees in group #55 is now proposed for removal. These are comparatively small and inconsequential within the wider landscape.

Tree Surgery

- 4.4. There are no plans for any tree surgery work at this stage.

Construction Impact

- 4.5. All proposed construction occurs outside the RPAs of retired trees. This is an improvement from the approved consent.
- 4.6. Veteran and Ancient Trees
- 4.7. Within the consultation response from the council (dated 28.03.25), from B Crafer, it was stated that several trees were ancient or veteran and thus had greater constraints than recommended within the British Standard.
- 4.8. Specific mention was made of T20, T34 and T47, with a request made to accommodate the recommended 15m buffer, in accord with Natural England's current Standing Advice.
- 4.9. For T20, that 9m buffer was already accommodated within the scheme.
- 4.10. With regard to T34, a DBH of 750 mm (75 cm) places this tree firmly in the normal range for mature specimens of Lombardy poplar. It is not large enough by itself to indicate veteran or ancient status. Additionally, it is classified as category C and partially failed due to root heave. It is not a veteran or ancient tree, and therefore, the buffer has not been applied. The root protection area is, however, adequately protected.
- 4.11. T47 is a large, mature oak tree with ivy and some scattered deadwood. For a tree to be classed as a veteran, it must meet certain criteria. Primarily being large for its species and having distinct features such as crown retrenchment and internal hollowing. With a stem diameter of 1100mm

(a girth of 3.4m), this tree does not meet the recommended size (Fig. 1.3 of *Ancient and other veteran trees: further guidance on management by the Ancient Tree Forum*). An oak should have a girth of at least 4.5m. The crown architecture is not displaying a growth habit consistent with the senescence either (another prerequisite). The lack of any crown retrenchment and other veteran features supports the conclusion that the tree is not a veteran. Nonetheless, there can be no doubt that the tree is a great specimen (hence its A category) and that it must be protected as is proposed. Regardless of the above, a unit has been removed, and a larger area has been protected.

Barrier Type

4.12. As the proposed construction work is comparatively 'low impact', the default British Standard tree protection specification seems somewhat onerous. Therefore, it is my opinion that an adequate level of protection can be provided with a lesser specification.

4.13. Alternative specifications can be found in [Appendix i](#). TPF 2 or TPF 3 are proposed.

Service & Utility Provisions

4.14. There is adequate space to service the site whilst avoiding all RPAs.

Summary

4.15. Provided the tree protection strategy is implemented as outlined in the following method statement, this application has a low arboricultural impact and is thus acceptable.

5. Arboricultural Method Statement

- 5.1. The tree protection on this site is subject to implementation as detailed in the following sections.
- 5.2. The recommendations of the British Standard have been applied where viable. Where deviations from the preferred approach are required, the impact on any retained trees is minimised through a combination of supervision from an arboriculturist and adherence to the associated method statement.
- 5.3. Once permission is granted, the strategy must be followed to avoid impacting the trees and adhere to any planning conditions.
- 5.4. The information within this section must be passed to the site foreman and cascaded to all relevant personnel involved in the project.
- 5.5. Any questions about the content or its implementation shall be directed to **Mark Welby Consulting Arborists at 01730 239492** before action is taken.
- 5.6. A tree protection plan showing the types of tree protection and their locations is appended. It includes the tree survey data, existing site features and the approved construction. The plan must be read in conjunction with this method statement.

Phasing

- 5.7. It is essential that the following phasing is followed if trees are to be effectively protected throughout construction.

1	Tree removals
2	Installation of protection barriers (Appendix i: TPF 2 or 3)
3	Confirmation that tree protection barriers are installed to be sent to LPA
4	Demolition & site clearance phase
5	Construction Phase
6	Removal of tree protection barriers upon completion of work

Table 1: Timing of operations in relation to trees

- 5.9. The above has been drafted at the planning stage. Shall any of the protection measures prove incompatible with elements of the build program, contact the project arboriculturist to discuss options.

Pre-start Confirmation

5.10. The most important step in the tree protection process: confirmation that the tree protection barriers are in place must be forwarded to the LPA before any external work starts. This may be a photographic record sent via email.

Construction Exclusion Zone (CEZ)

5.11. The CEZ is a root-sensitive area where construction activities are to be excluded. The default method of doing so is through the installation of tree protection barriers. If construction access is required in the CEZ then ground protection can be used to facilitate this.

5.12. Everyone engaged in the construction process is responsible for respecting the tree protection measures and observing the necessary precautions within and adjacent to them.

5.13. Inside the exclusion zone, the following shall apply:

- No mechanical excavation whatsoever;
- No excavation by any other means without arboricultural site supervision;
- No hand digging without a written method statement having first been approved by the project arboriculturist;
- No lowering of levels for any purpose (except removal of grass sward using hand tools);
- No storage of plant or materials;
- No storage or handling of any chemical including cement washings;
- No vehicular access (unless ground protection is installed);
- No fire lighting.

5.14. In addition to the above, further precautions are necessary adjacent to trees:

- No substances injurious to tree health, including fuels, oil, bitumen, cement (including cement washings), builder's sand, concrete mixing and other chemicals shall be stored or used within or directly adjacent to the protection area of retained trees;
- No fire shall be lit such that flames come within 5m of tree foliage.

5.15. Variations from the above may be specified in the following sections of this method statement.

This is only acceptable where detailed and will typically be subject to supervision by the arboriculturist.

Protection Barriers

5.16. Barriers must be fit to exclude construction activity and appropriate to the degree and proximity of work around the retained tree(s). Barriers shall be maintained to ensure that they remain rigid and complete.

5.17. See Appendix i for barrier specifications.

5.18. On this project, types TPF 2 or TPF 3 are to be used.

Ground Protection

5.19. If required to facilitate access within the CEZ (or as shown on the appended tree protection plan), ground protection is to be installed. If not already included on the tree protection plan, it must be approved in writing by the local planning authority before implementation. The ground protection must be capable of supporting the expected loads and avoiding rutting, compaction and damage to the soil: as advised in section 6.2.3 of the British Standard.



GP1: Tree protection barriers and scaffold ground protection



GP2: Tree protection barriers & trackmat ground protection

5.20. Stages of ground protection installation:

1. If required, dismantle barriers and re-erect them to protect any newly exposed CEZ not to be covered by ground protection;
2. Any shrubs, saplings or trees to be removed, are to be cut or ground out to just below ground level rather than grubbed or winched out, which can damage the roots of retained trees;
3. Lay woven geotextile over the existing ground surface by hand;
4. Cover the area with a compressible layer (200mm of woodchip, for example), using hand tools only;
5. Cover compressible layer with side butting scaffold boards, plywood boards or proprietary trackway/trackmats;
6. Confirm surface is acceptable for use with the project arboriculturist;
7. Area ready for construction access;
8. Any scaffolding required within the area will be erected with the uprights placed on spreader boards;
9. The boarding will be left in place until the construction works are finished.

5.21. A single thickness of boarding laid on the soil surface will provide sufficient protection for pedestrian loads. However, for wheeled or tracked construction traffic movements within the RPA, ground protection will involve the use of temporary geocell/cellular confinement systems, reinforced concrete slabs or track-board systems details of which are to be specified by the project engineer and approved for use by the project arboriculturist and local authority before construction commences.

5.22. Track-boards can be sourced from Trakmats, 0800 622 6838, www.trakmats.co.uk, or GroundGuards, 0113 209 3685, www.ground-guards.co.uk.

5.23. There is to be no excavation within the ground protection area whatsoever. This includes the installation of services and associated utilities, without prior approval.

Site Induction

5.24. All site staff are to be briefed on the tree protection strategy for the site as part of the general site induction procedure. This can be carried out by the site manager once he has been briefed by the project arboriculturist.

5.25. In general, this will include the following:

1. Explanation of the purpose of the tree protection barriers and any ground protection
2. Explanation of the demolition procedures near trees
3. Explanation of the sensitive/supervised excavation areas
4. What to do if access is needed within a protected area for any reason
5. What to do if damage occurs to any tree protection barriers and how to contact the project arboriculturist if necessary.

Tree Surgery

5.26. Should any pruning work be required, the following must be adhered to once any requisite permissions are obtained.

5.27. All work will be carried out under BS3998⁴ industry best practice and in line with any works already agreed upon with the council.

5.28. The statutory protection^{5 6} will be adhered to. If further advice is required, particularly if bats are discovered during tree work, it will be obtained from Natural England or other competent persons and recommendations adhered to.

⁴ BS3998:2010- *Recommendations for Tree Work*. London: British Standards Institute

⁵ *Wildlife and Countryside Act*. (1981) London: HMSO.

⁶ *Conservation of Habitats and Species Regulations (2017)* London: HMSO.

- 5.29. The stumps of any trees removed from within the Construction Exclusion Zone or the RPAs of retained trees will be either cut flush to ground level and left in situ or ground out using a stump grinder. They will not be winched out.
- 5.30. All operations shall be carefully carried out to avoid damage to the trees being treated or neighbouring trees. No trees to be retained shall be used for anchorage or winching purposes.

Installation of Underground Services

- 5.31. Mechanical trenching for the installation of underground apparatus and drainage severs any roots present and can change the local soil hydrology in a way that adversely affects the health of the tree. For this reason, particular care must be taken in the routeing and methods of installation of all underground apparatus. Wherever possible, apparatus must be routed outside RPAs. Where this is not possible, it is preferable to keep the apparatus together in common ducts. Inspection chambers shall be sited outside the RPA.
- 5.32. Where underground apparatus is to pass within the RPA, detailed plans showing the proposed routeing must be drawn up in conjunction with the project arboriculturist. In such cases, trenchless insertion methods shall be used: Microtunnelling, Surface-launched directional drilling, Pipe ramming or Impact moling (see BS5837:2012 Table 3), with entry and retrieval pits being sited outside the RPA. Provided that roots can be retained and protected, excavation using hand-held tools might be acceptable for shallow service runs. If this is the case, the following methodology must be followed:
- 5.33. Stages for installing services:
1. Contact project arboriculturist to hold pre-start site meeting and 'toolbox' talk before starting work.
 2. Remove just enough tree protection fencing to allow access to the area and facilitate trenching.
 3. Remove any surface vegetation or existing hard surfaces using hand tools.
 4. Using an air-pick excavate the trench, keeping to the minimum dimensions required.
 5. Roots occurring in clumps of 25 mm diameter and over are encountered they will be retained and kept damp by covering with hessian (re-wetted as required). If required, these shall be severed only following consultation with an arboriculturist; as such roots might be essential to the tree's health and stability.
 6. Feed in services.
 7. Backfill the trench with 200-300mm depth of excavated soil, or a mixture of excavated and imported topsoil to BS3882: 2015, firming down with heels.
 8. Repeat step 7 until the trench is filled.

9. Re-erect tree protection fencing as per the approved plan.

5.34. The method of excavation above, for trenching within RPAs, is using air excavation. This tool utilises compressed air to remove soil from around tree roots causing minimal damage and can be run off a typical site compressor. I can provide details of contractors supplying air excavation services if required.

5.35. Alternatively, trenchless technology, such as thrust boring can be used in some instances and is particularly effective as it can pass directly under the tree, at a depth which is likely to avoid almost all impact on the roots of the subject tree. As no access/thrust pits will be located within the RPAs of the subject trees, the need for arboricultural supervision is limited.

5.36. Reference can be made to NJUG Vol 4⁷ for guidance, but any approach must be approved by the project arboriculturist and brought to the attention of the local authority tree officer.

Fencepost/Hoarding Installation in RPA

5.37. Stages for installing wooden posts:

No plant machinery is to be used in the area for whatever reason

1. Remove TPF to allow access to the area. If working inside the tree's RPA, ground protection boarding must be used to avoid compaction and contamination of the root zone.
2. Dig postholes using hand tools, avoiding damage to the protective bark covering larger roots. Roots smaller than 25mm in diameter may be pruned back using either secateurs or a hand saw, leaving a clean cut.
3. Damage or severance of roots above 25mm diameter must be avoided. If roots of this size are discovered, the hole shall be relocated. If there are a large number of such roots it may be necessary to relocate the hole by half a fence panels length and adjust the fence panels accordingly.
4. Line holes with non-porous lining, for example, a durable polyethene bag.
5. Insert post and fill post-hole with concrete to just below ground level.
6. Trim polyethene to ground level and fill with clean topsoil.
7. Reinstall TPF as approved.

⁷ National Joint Utilities Group. (2010). Volume 4: NJUG Guidelines For The Planning, Installation And Maintenance Of Utility Apparatus In Proximity To Trees (Issue 2) – Operatives Handbook. NJUG.

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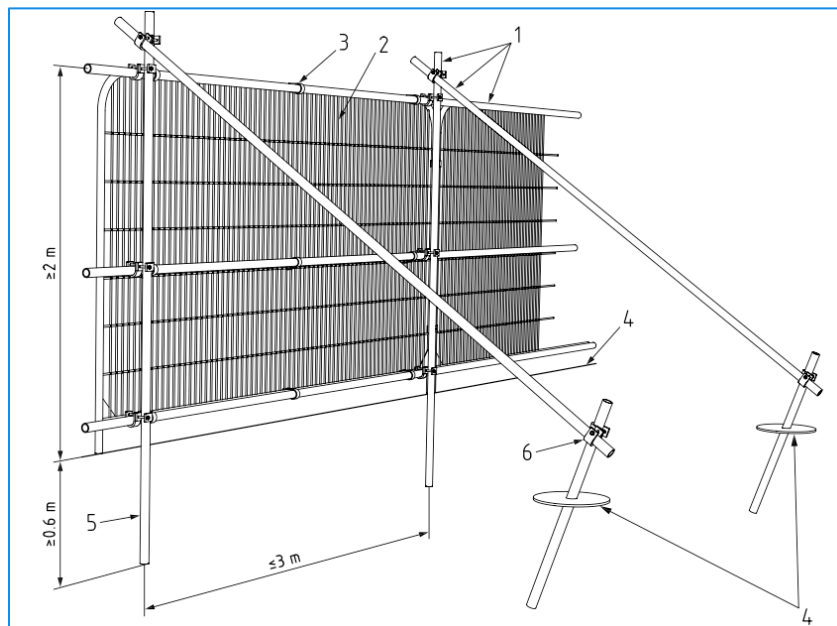


Appendix



i.

Tree Protection Barriers



1 Standard scaffold poles

2 Heavy gauge 2 m tall galvanised tube and welded mesh infill panels

3 panels secured to up rights and cross members with wire-ties

4 ground level

5 uprights driven into the ground until secure (minimum depth 0.6 m)

6 Standard scaffold clamps

TPF1: Default specification for protective barrier (Fig 2 from BS5837:2012)



TPF 2: Alternative fencing option: scaffold uprights with backstay



TPF 3: Alternative fencing option: on boots with backstay



TPF 4: Plastic barrier for low intensity areas of construction



TPF 5: Chain-link for low intensity areas on large projects

ii.

Tree Categories Explained

BS5837:2012 Table 1 -Cascade chart for tree quality assessment			
Category and definition	Criteria (including subcategories where appropriate)		
Trees unsuitable for retention (see Note)			
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	<p>*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 (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</p> <p>*Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline</p> <p>*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</p> <p><i>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7.</i></p>		
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation
Trees to be considered for retention			
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)
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 remediable 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 value
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 only temporary/transient landscape benefits	Trees with no material conservation or other cultural value



iii.

Protection Plan



See the following page

BS5837 Tree Survey: Trees & Groups to be Retained

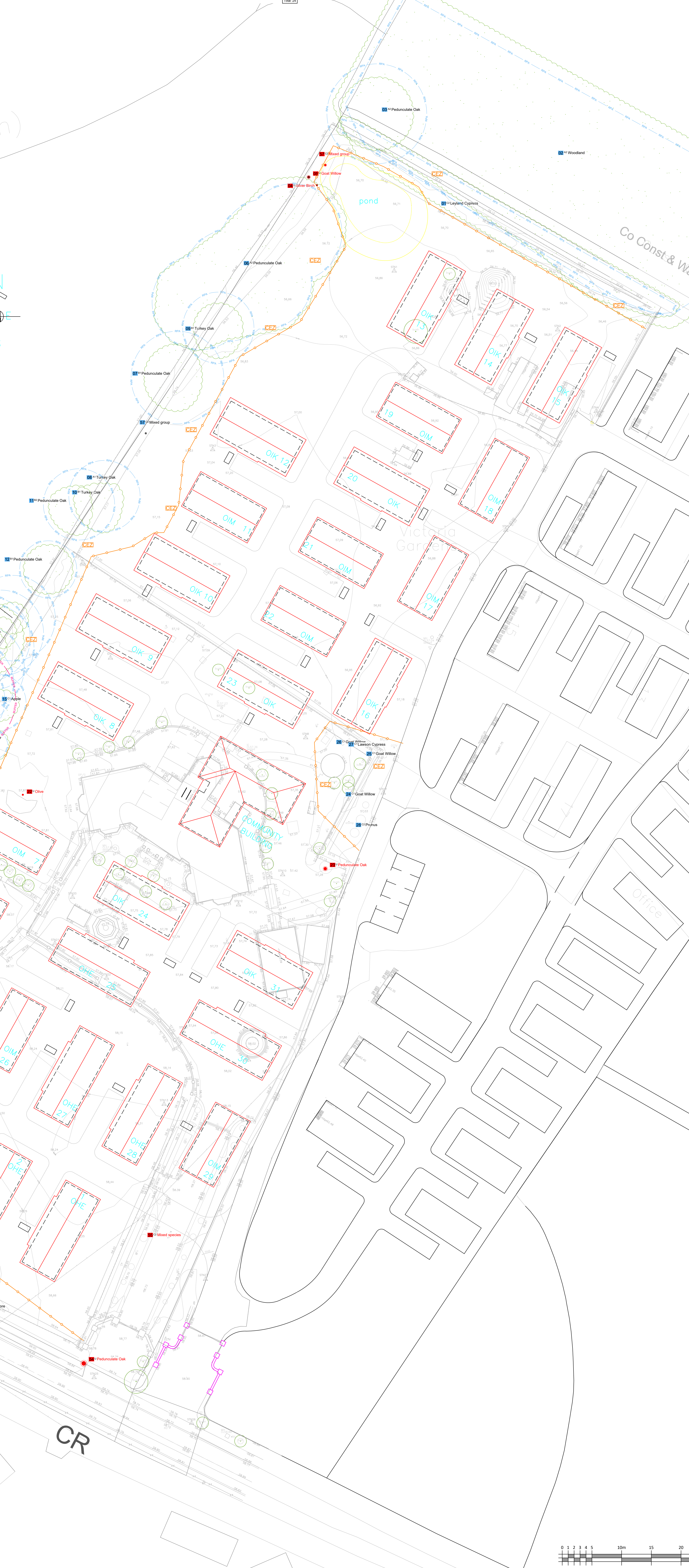
Plant Types / Groups											
Plant ID	Species	Common Name	Height	Span Diameter	Capacity (M3)	Crown Spread	Age Class	Observations	Tree Supply	Cost (€)	Remarks/Notes
01	Corymborhiza sp.	Redwood Tree	7m	200mm	10	10m	Mature	Boundary screen	40 Years	100000	C1
02	Yucca sp.	Yucca	800mm	800mm	2m	2m	Mature	Small tree without canopy. Comprising 10-15 plants, 10-15m high, planted in small circular spaces.	40 Years	100000	C2
03	Quercus robur	Pedunculata Oak	10m	700mm	40 M3 of 40 x 50 x 50	4m	Mature	Old trees and new ones. Comprising 10-15 plants, 10-15m high, planted in small circular spaces.	40 Years	100000	C3
06	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2.5m	Mature	Boundary screen. Used as a green infrastructure feature. Individual tree canopy 10-15m high.	40 Years	100000	C4
07	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Boundary screen. Used as a green infrastructure feature. Individual tree canopy 10-15m high.	20 Years	100000	C5
08	Quercus emra	Turkey Oak	2m	600mm/700mm	10 M3 of 10 x 10 x 10	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	40 Years	100000	C6
09	Quercus emra	Turkey Oak	2m	500mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C7
10	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	1.5m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C8
11	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	40 Years	100000	C9
12	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C10
15	Malus sp.	Apple	4m	400mm	20 M3 of 20 x 20 x 20	1m	Mature	Small tree with 10-15m high canopy.	10 Years	100000	C11
16	Pyrus sp.	Pear	3m	300mm	20 M3 of 20 x 20 x 20	1m	Mature	Small tree with 10-15m high canopy.	10 Years	100000	C12
17	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C13
18	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	40 Years	100000	C14
19	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C15
20	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	40 Years	100000	C16
21	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C17
22	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	40 Years	100000	C18
23	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C19
24	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	40 Years	100000	C20
25	Salix caprea	Goat Willow	3m	300mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C21
26	Salix caprea	Goat Willow	3m	400mm	20 M3 of 20 x 20 x 20	2m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C22
27	Salix caprea	Goat Willow	3m	500mm	10 M3 of 10 x 10 x 10	2m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C23
28	Chamaenerion sp.	Lanceolus Cypripedium	3m	200mm	10 M3 of 10 x 10 x 10	1m	Early/Mature	Small number of limited value.	10 Years	100000	C24
29	Salix caprea	Pear	4m	200mm	20 M3 of 20 x 20 x 20	2m	Early/Mature	Three trees of limited quality only.	10 Years	100000	C25
30	Pyrus sp.	Pear	4m	200mm	30 M3 of 30 x 30 x 30	2m	Early/Mature	Three trees of limited quality only.	10 Years	100000	C26
31	Pyrus sp.	Pear	4m	200mm	30 M3 of 30 x 30 x 30	2m	Early/Mature	Three trees of limited quality only.	10 Years	100000	C27
32	Cornus sp.	Spindle Tree	3m	200mm	30 M3 of 30 x 30 x 30	2m	Early/Mature	Three trees of limited quality only.	10 Years	100000	C28
33	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C29
34	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C30
35	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C31
36	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C32
37	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C33
38	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C34
39	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C35
40	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C36
41	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C37
42	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C38
43	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C39
44	Quercus robur	Pedunculata Oak	7m	700mm	40 M3 of 40 x 50 x 50	2m	Early/Mature	Controlled due to competition with other trees. Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	10 Years	100000	C40
45	Ulmus sp.	Birch	3m	100mm	20 M3 of 20 x 20 x 20	2m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	5 Years	100000	C41
46	Ulmus sp.	Birch	3m	200mm	30 M3 of 30 x 30 x 30	2m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	5 Years	100000	C42
47	Quercus robur	Pedunculata Oak	7m	110mm	10 M3 of 10 x 10 x 10	2m	Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	5 Years	100000	C43
48	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C44
49	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C45
50	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C46
51	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C47
52	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C48
53	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C49
54	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C50
55	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C51
56	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C52
57	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C53
58	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C54
59	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C55
60	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C56
61	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C57
62	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C58
63	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C59
64	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C60
65	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C61
66	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C62
67	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C63
68	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C64
69	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C65
70	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C66
71	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C67
72	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C68
73	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C69
74	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C70
75	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C71
76	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C72
77	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C73
78	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C74
79	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C75
80	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C76
81	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C77
82	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C78
83	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C79
84	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C80
85	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C81
86	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C82
87	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C83
88	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C84
89	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C85
90	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C86
91	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C87
92	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C88
93	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C89
94	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C90
95	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C91
96	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C92
97	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C93
98	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.	20 Years	100000	C94
99	Quercus robur	Pedunculata Oak	7m	400mm	50 M3 of 50 x 50 x 50	3m	Early/Mature	Good crown development and healthy. Good crown development and healthy. Good crown development and healthy.			

Survey by Mark Welby DipAvt(RFS), TechCert(ArborA), FArborA
Arboricultural Association Registered Consultant
www.mwelby.com

denotes estimated dimension. Typically due to the tree being inaccessible.
Where dimensions are not listed please refer to the plan graphics for an indicative representation (typically for groups).

BS5837 Tree Survey: Trees & Groups to be Removed

Species	Common Name	Height	Stem Diameter	Canopy NE/SW	Open Space	Age Class	Observations	CS Remaining	Date Surveyed	PS	ES
Bottle pine	Strawberry	5m	200mm	3 x 1 E 2 W 2 W	3 W	Mature	Pine bark specimen bearing north-south lenticels	0 Years	10/02/2018	1	U
Slack spruce	Slack Birch	5m	400mm	2 x E 2 E 2 W	3 W	Mature	Slack spruce with North-south quality lenticels	0 Years	10/02/2018	1	U
Quarry oregon	Oregon	3.5m	200mm	1 x N 1 E 1 S 1 S 1 W	1 W	Mature	Quarry oregon with North-south quality lenticels on lower stem	0 Years	10/02/2018	1	U
Quarry oregon	Polychrome Oak	1.5m	200mm	0 x N 0 S 0 E 0 W	0 W	Mature	Quarry oregon with North-south quality lenticels on lower stem	0 Years	10/02/2018	1	U
Quarry oregon	Polychrome Oak	1.5m	200mm	0 x E 0 E 0 S 0 W	0 W	Mature	Displaying extensive stem lenticels. No bark specimen collected. The bark has deep cracks. The bark has a deep crack	<10 Years	10/02/2018	1	U
Mixed group	Mixed group	3.5m	100mm	2 x E 2 E 2 W	1 W	Early-Mature	Mixed group. Bark specimen collected. The bark has a deep crack	10 Years	10/02/2018	1	C2
Mixed group	Mixed group	6m	300mm	0 x N 0 S 0 E 0 W	0 W	Mature	Slack spruce. Bark specimen collected. The bark has a deep crack	10 Years	10/02/2018	1	C2



Construction Exclusion Zone

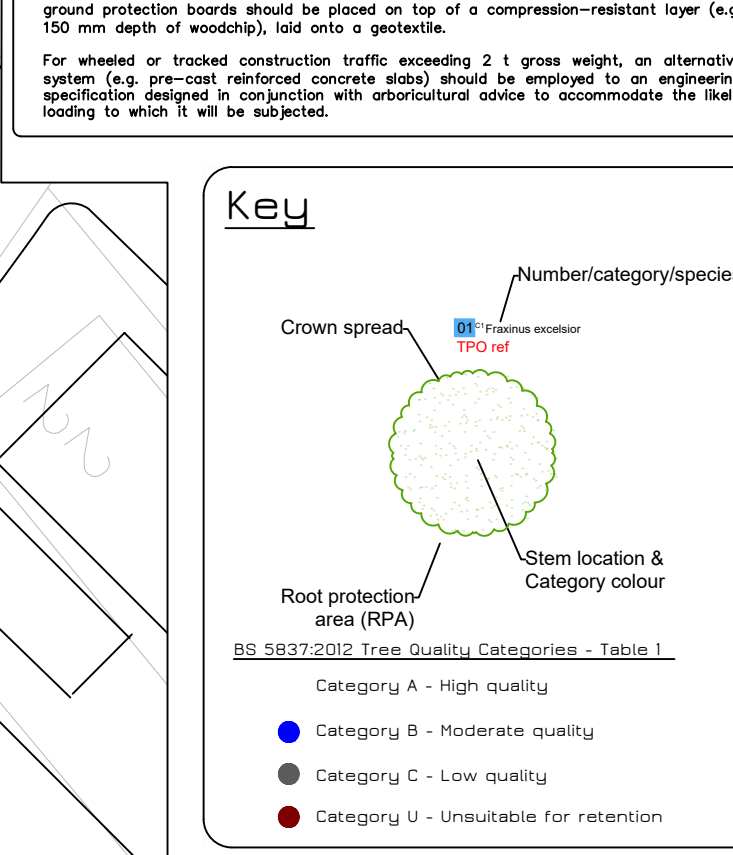
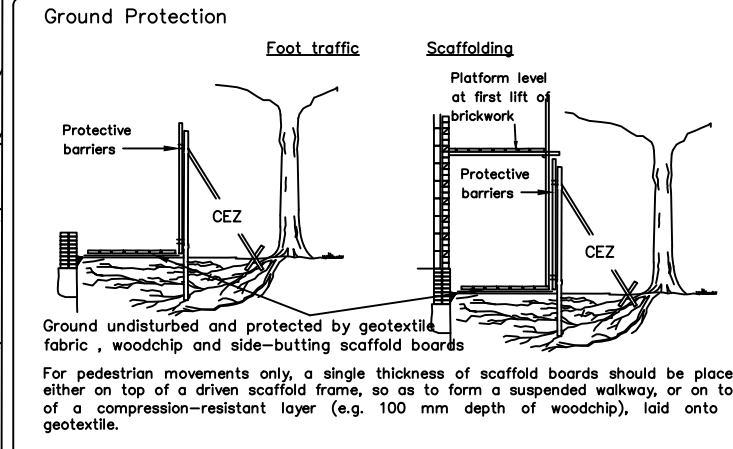
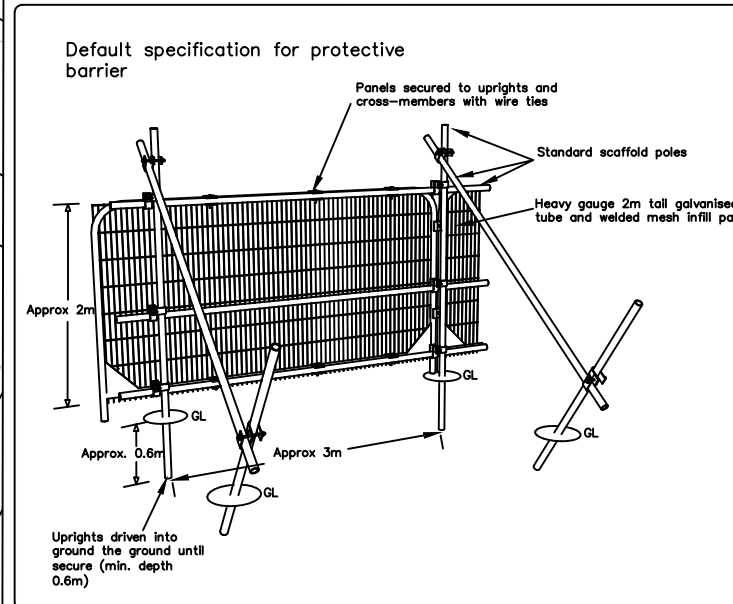
It is the responsibility of everyone engaged in the construction process to respect the tree protection measures and observe the necessary precautions to ensure the safety of the trees.



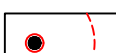
Inside the exclusion zones, the following shall apply:

- No mechanical excavation whatsoever;
- No excavation by any other means without arboricultural advice;
- No tree felling or any other tree work;
- No hand digging without a written method statement having been approved by the arboricultural consultant;
- No lowering of levels for any purpose (except removal of grass and weeds) without a written method statement;
- No storage of plant or materials;
- No storage or handling of any material including cement or plaster;
- No vehicular access;
- No fire lighting.

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

- No substances injurious to tree health, including fuels, oil, paint, etc.;
- No materials including cement, wearings, ballast, nuclear concrete mixing and other chemicals shall be stored or used immediately adjacent to the protection area of retained trees;
- No materials shall be stored such that the frames come within 5m of tree foliage.



	Construction Exclusion Zone (CEZ)
	CEZ extent. To be protected with temporary protective barriers or ground protection to allow construction access. See insets at method statement for details.
	Tree to be removed

NOTES

Visual Tree Survey has been undertaken within the recommendations of British Standards BS5837:2012.

• The reference to 'all' surveyed trees and groups of trees are shown in the locations within the map. It is not estimated, and indicative of canopy only (not the tree survey).

• The tree survey is recorded to ground level only, with the aid of a laser level.

• The Visual Tree Assessment (VTA) method (where trees and groups of trees in neighbouring land are estimated) are based on the same ground level dimensions.

• Where stems or branches are obscured by ivy or other materials a full assessment of those trees is not possible.

• Height dimensions are estimated and are given in metres.

• Trunkstem dimensions are measured in mm at 1.35 metres above ground level, as this otherwise allows for the measurement of the trunkstem diameter is not possible, then Figure CL of the British Standard is followed.

• Tree canopies, where marked, are estimated by pacing in four directions.

• The tree survey and the tree canopies are measured in one direction only, with dimensions in four directions assumed to be similar. For the radius for each compass point is estimated and more compass points will have further notes taken and an estimation will be given.

Base plan/site survey reference:
7759.dwg

Statutory Tree Protection
Tree Protection Orders: none four
with online LPA search

Conservation Area: NO

Felling licence: Garden areas are
exempt.

Guidance on the implementation
and use of this information, along
with its limitations and more can
be downloaded here:
<http://bit.ly/BSGuidance>

This plan has been drafted in
colour. A monochrome version
must not be relied upon

BS5837:2012 Cascade chart for tree quality assessment

Category & Definition	Criteria (including subcategories where appropriate)
Category 0 Trees in a suitable for retention	<ul style="list-style-type: none"> Trees that have a serious, immediate, structural defect, such that their early loss is expected due to collapse including those that have become unstable after removal of other category 1 trees (i.e. where, for whatever reasons, the loss of companion trees cannot be mitigated by pruning). Trees that are dead or showing signs of significant decay, immediate and irreversible decline Trees that are in poor health due to the presence of a pest or disease to the health and/or safety of other trees nearby or any tree posing a significant adjacent trees or better quality Trees that are in poor health due to an overvalued, inappropriate value which is not likely to be possible to preserve
Trees to be considered for retention	1. Mainly arboricultural qualities 2. Mainly landscape qualities 3. Mainly cultural values, including conservation
Category A Trees of high quality with an estimated remaining life expectancy of at least 20 years	<p>Trees that are particularly good examples of their species, especially those that are unusual, or those that are essential to the character of a group of trees or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)</p> <p>Trees, groups or woodlands of particular visual importance as arboricultural or landscape features</p> <p>Trees, groups or woodlands of significant historical, cultural, scientific, or other value (e.g. veteran trees or wood pasture)</p>
Trees of moderate quality Trees with an estimated remaining life expectancy of at least 20 years	<p>Trees that might be included in Category A, but are downgraded because of present condition or present or potential future pest management (and/or past management and/or storm damage), such that they are unlikely to be suitable for retention for beyond 40 years</p> <p>Trees posing the special quality necessary to merit the Category A designation</p> <p>Trees present in numbers, usually growing in groups or woodlands, such that they attract a higher collective rating than they might as individuals, or contribute to the overall character but do not stand out as so make life quality contributions to the wider locality</p> <p>Trees with natural conservation or other cultural value</p>
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with stem diameter below 150mm	<p>Unremovable trees of very limited merit or of such impaired condition that they do not carry a higher category</p> <p>Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value than the individual trees</p> <p>Trees with no natural conservation or other cultural value</p> <p>Trees posing landscape landscape benefits</p>

