# Arboricultural Report

Tree Survey,

Arboricultural Impact Assessment &

Arboricultural Method Statement

In relation to the development proposal at:

**Swords Cultural Quarter**

**Main Street**

**Swords**

**Co. Dublin**

On behalf of:

**Fingal County Council**

**June 2022**

**SCQ-ZZ-RP-CMC-AB-00000**

CHARLES MCCORKELL
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# Section 1: Arboricultural Impact Assessment

## 1 Summary

1.1 This arboricultural report has been instructed by Fingal County Council (the 'Applicant').

1.2 The proposal is for the development of a new Cultural Quarter in Swords Co. Dublin (the 'Application Site').

1.3 This report includes:

- an assessment of the trees, their quality and value in accordance with BS 5837:2012 - Trees in relation to design, demolition and construction;
- the site context and observations on the trees;
- local planning policies relevant to the consideration of trees on the site;
- the impact of the proposed development upon the tree population in and around the site;
- methods of reducing impacts on trees; and
- measures to be taken to protect trees during the proposed works.

1.4 In conclusion, the proposed development will require the removal of eight trees of moderate quality and value (B Category), 11 trees and one group of young self-seeded trees of low quality and value (C Category), and two trees of poor quality (U Category)

1.5 The loss of trees has been taken into consideration and a detailed landscape plan that includes new high-quality tree and hedge planting has been proposed. The proposed new planting will mitigate the loss of trees and the overall landscape improvement works will have a positive impact on the amenities and visual appearance of the surrounding area.

1.6 The proposal will require working operations within the Root Protection Areas of retained trees. These works and associated impacts have been assessed and tree protection measures and special methods of construction have been specified in accordance with best practice. All working operations within tree rooting areas are required to be carried out under the supervision and guidance of the arboricultural consultant.

# 2 Introduction

## Instructions

2.1 This arboricultural report has been instructed by Fingal County Council to provide information to assist all parties involved in the planning process to make balanced judgements with regard to arboricultural features in relation to the proposed development of the Cultural Quarter in Swords, Co. Dublin.

## Qualification and experience

2.2 This report has been prepared by Charles McCorkell. Charles is a Chartered Arboricultural Consultant dealing with trees in relation to all forms of human activity, including the built environment. He is a Professional Member of the Institute of Chartered Foresters, a Professional Member of the Arboricultural Association, a qualified professional tree inspector (LANTRA), and has a BSc Honours Degree in Arboriculture from the University of Central Lancashire.

## Scope and limitations

2.3 The survey undertaken is not a health and safety assessment of trees; however, trees identified as imminently dangerous will have been highlighted and recommendations made, where appropriate.

2.4 The contents of this report are the copyright of Charles McCorkell Arboricultural Consultancy and may not be distributed or copied without the author's permission.

## Methodology and guidance

2.5 The author of this report has referred to *British Standard 5837: Trees in relation to design, demolition and construction (2012)* which provides a methodology for the assessment of trees and other significant vegetation on development sites.

2.6 BS 5837 (2012) is intended to assist decision-making with regard to existing and proposed trees and sets out the principles and procedures to be applied to achieve a harmonious relationship between existing and new trees and structures that can be sustained for the long term.

2.7 The BS 5837 (2012) recommends the National Joint Utilities Group (NJUG) document *Guidelines for the planning, installation and maintenance of utility apparatus in the proximity to trees.* Volume 4, issue 2. London: NJUG, 2007, as a normative reference for guidance on the installation of utilities within proximity to trees.

## Supporting information

2.8 This report should be read in conjunction with the following supporting documents attached to this report.

| Document | Reference | Location |
|---|---|---|
| Arboricultural Method Statement | N/A | Section 2 |
| Tree Schedule | - | Appendix A |
| Tree Work Schedule | - | Appendix A |
| Tree Survey & Constraints Plan | SCQ-ZZ-DR-CMC-AB-00001 | Appendix B |
| Tree Removals Plan | SCQ-ZZ-DR-CMC-AB-00002 | Appendix B |
| Tree Protection Plan | SCQ-ZZ-DR-CMC-AB-00003 | Appendix B |
| Stem Protection | - | Appendix C |
| Cellular Confinement System | - | Appendix D |

## Definitions

2.9 **Root Protection Area (RPA)** – a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree.

2.10 **Tree Protection Zone (TPZ)** – an area based on the RPA in $m^2$ identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

# 3 Observations & Context

## Site visit

3.1 The Application Site was visited by Charles McCorkell on 28 October 2021. The purpose of the visit was to survey trees that may be of significance to the proposed development. The survey was undertaken in accordance with *British Standard 5837: Trees in relation to design, demolition and construction (2012)*.

## Site location and description

3.2 The Application Site is located in Swords village, adjacent to the Swords Castle and Fingal County Council Civic Office (Image 1).

3.3 The tree cover assessed comprises London plane and Norway maple along Main Street and North Street; holm oak and cedar within the Fingal County Council Civic Office; hornbeam within the Fingal County Council Car Park, and lime and holm oak within Swords Community Park.

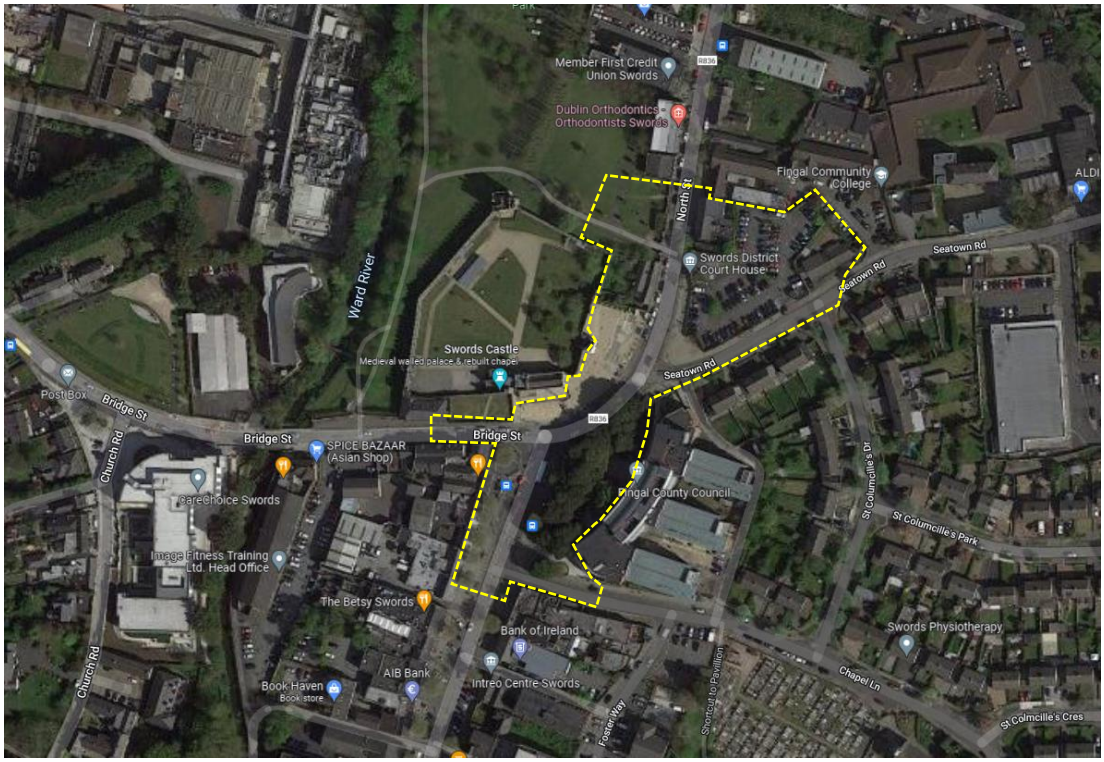


***Image 1 (Google 2022):*** *Dashed yellow line highlighting the location of the site boundary within the local area.*

## View of the site and trees

***Image 1:*** *View of the A Category cedar (T526) located at Fingal County Council Civic office.*

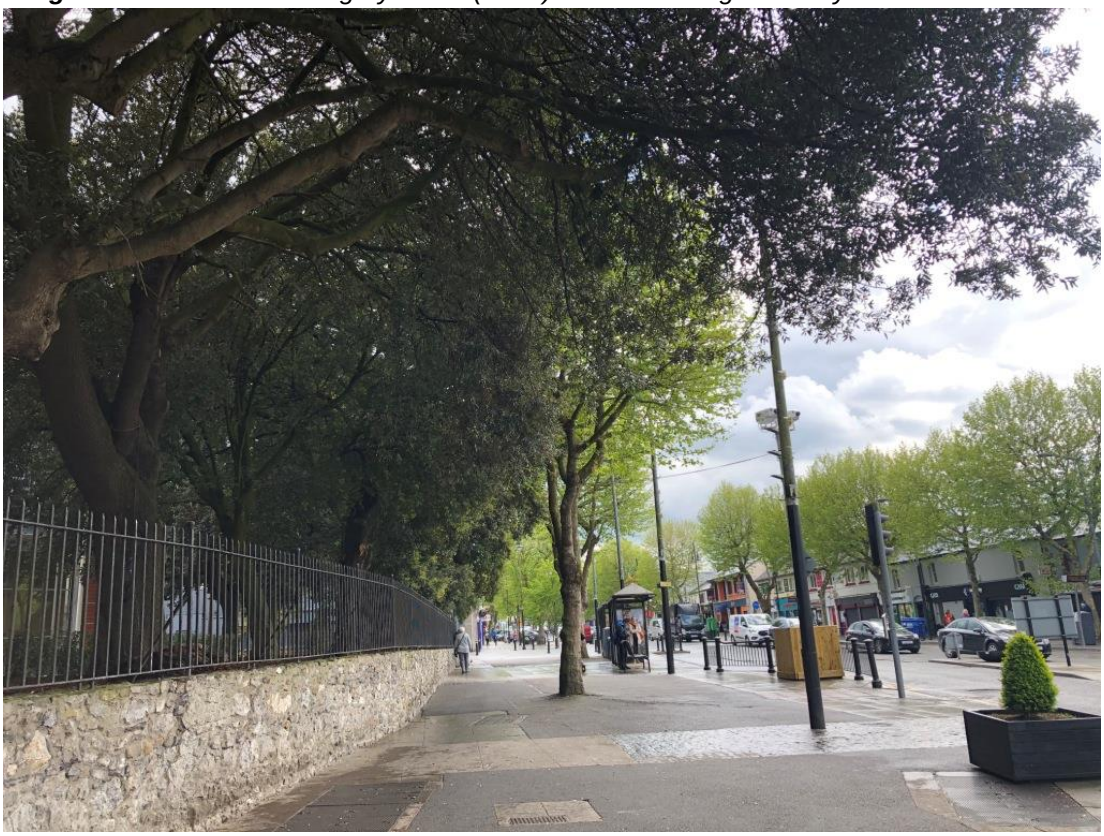

***Image 2:*** *View of Swords Main Street and the holm oak trees located at the front of the Fingal County Council Civic office.*

***Image 3:*** *View of the London plane street trees (T495 to T499) located along Main Street.*

***Image 4:*** *View of the hornbeam trees (T585 & T586) located within the Fingal County Council Car Park*

***Image 5:*** *View of the semi-mature lime trees (T594 to T597) located within the Swords Community Park.*

# 4 Local Planning Policy

## The Fingal Development Plan 2017 – 2023

4.1 The Fingal Development Plan 2017 – 2023 was adopted in March 2017 and contains several policies that relate to trees, woodlands and hedgerows. Saved policies relating to this application include:

**Chapter 9. Natural Heritage – Ecological Corridors and Stepping-Stones Including Trees and Hedgerows**

Objective NH27

Protect existing woodlands, trees and hedgerows which are of amenity or biodiversity value and/or contribute to landscape character and ensure that proper provision is made for their protection and management.

**Chapter 12. Development Management Standards – Tree Policy**

Objective DMS77

Protect, preserve and ensure the effective management of trees and groups of trees.

Objective DMS78

Ensure, during the course of development, trees and hedgerows that are conditioned for retention are fully protected in accordance with '*BS5837 (2012) Trees in relation to the Design, Demolition and Construction – Recommendations*' or as may be updated.

# 5 Technical Information

## Tree data

5.1 The Tree Survey & Constraints Plan at Appendix B illustrates the location of trees, the extent of the spread of their crowns, and their root protection areas. Dimensions, comments, and information for each tree are given in the Tree Schedule at Appendix A.

## Life stage analysis

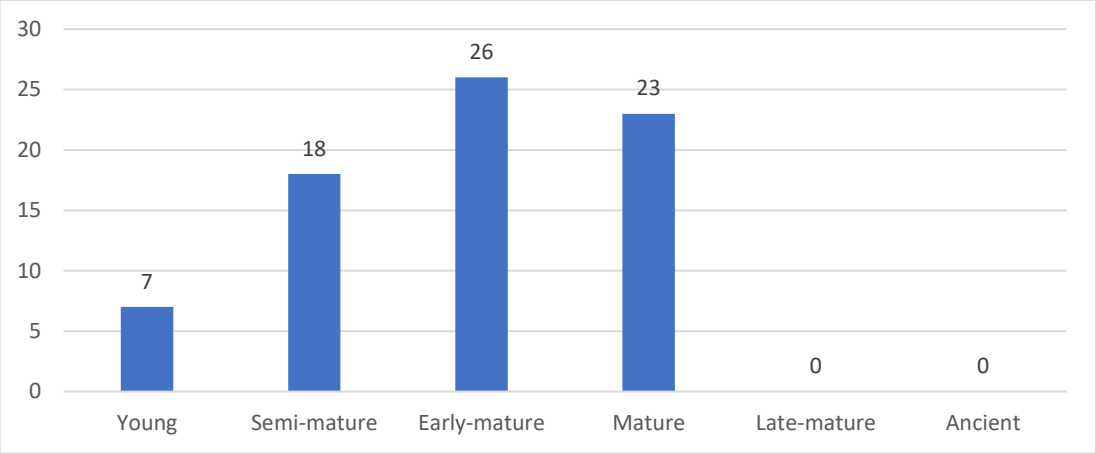


***Figure 1:*** *Life stage analysis of the 74 survey entries recorded.*

## BS5837 (2012) category breakdown

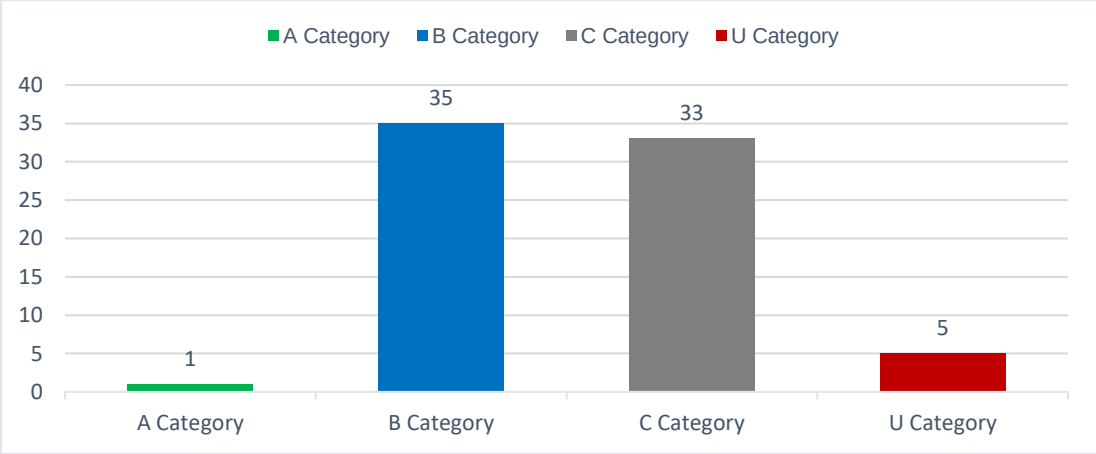


***Figure 2:*** *Breakdown of BS5837:2012 categories of the 74 survey entries recorded.*

# 6 Analysis of the Proposal in Respect of Trees

## Arboricultural Impacts

6.1 ***Loss of trees –*** The proposed development will require the removal of eight trees of moderate quality and value (B Category), 11 trees and one group of young self-seeded trees of low quality and value (C Category), and two trees of poor quality (U Category) The proposed removals are specified within the Tree Work Schedule at Appendix A and are highlighted on the Tree Removals Plan at Appendix B.

***Figure 3:*** *Breakdown of the tree removals required as part of the development.*

6.2 The proposed loss of trees will have an initial visual impact on the immediate surrounding area; however, this impact is not deemed to be significant, as the majority of these trees are of a young and semi-mature age and can be adequately replaced with new high-quality tree planting.

6.3 The landscape design has included new tree and hedge planting to mitigate the loss of trees. This new planting, along with the other landscape improvement works that have been proposed, will significantly enhance the visual appearance and character of the local surrounding area.

6.4 ***Pruning works –*** Tree works have been recommended for good tree management and health and safety reasons. These works are specified within the Tree Work Schedule at Appendix A.

6.5 ***Refurbishment of existing hard standing –*** The landscape proposal requires areas of existing hard standing to be refurbished within the RPAs of retained trees. These areas have been highlighted on the Tree Protection Plan at Appendix B.

6.6 The refurbishment of hard standing has the potential to impact the rooting environment of a retained tree. To minimise this impact, excavation works must not exceed the depth of the existing sub-base and must be carried out in a controlled manner using hand tools and a lightweight machine under the supervision and guidance of the arboricultural consultant.

6.7 The existing footpaths located within the rooting areas of the early-mature London plane trees have been damaged through direct damage from surface roots. The installation of the new surface must take this into consideration. The new surface material and levels must be reviewed in depth during detailed design and discussed with the Fingal County Councils Parks Department.

6.8 ***Excavation works within tree RPAs –*** The proposed alterations to the bus stop and a new cycle track will require excavation works within the RPAs of retained trees T496 to T499.

6.9 These works will require reducing levels 1-1.5m from the main stem of trees T496, T497, & T498. This is highly likely to result in the loss of large structural roots, which has the potential to have a negative impact on their overall health and condition.

6.10 The proposed excavation works within the RPAs of these trees must be carried out under arboricultural supervision and exposed roots will need to be cleanly pruned using a sharp sterile hand saw or secateurs. The arboricultural consultant must assess the extent of root loss and recommended any necessary remedial works to ensure the trees can remain structurally safe.

6.11 Considering the proximity and degree of excavation work required within the rooting areas of these trees (T496, T497, & T498), a more suitable longer-term option would be to remove and replace them with three new trees that would be planted within below-ground structural tree pits. The use of these tree pits would also reduce the likelihood of footpath damage reoccurring in the future as the trees mature.

6.12 ***No dig footpath with tree RPAs –*** The proposed footpaths and hard standing that are located within the grounds of the Fingal County Council Civic Offices and tree RPAs, must be constructed above ground level using methods of no-dig. These areas are highlighted on the Tree Protection Plan at Appendix B.

6.13 A no-dig design will involve constructing the proposed hard surface above existing ground level using a cellular confinement system or similar. The finishing surface material is required to be permeable to maintain water infiltration and gaseous exchange within the rooting areas of the trees.

6.14 The use of this system will ensure that damage does not occur to the roots of the trees concerned or the structure and function of the soil in which they are growing. Engineering details of these proposals must be reviewed and agreed by the arboricultural consultant prior to works commencing. An example of a cellular confinement system is provided at Appendix D of this report.

6.15 ***Drainage and services*** – The location of proposed drainage and service runs is currently unknown. Where proposed underground services are required, these will need to avoid the root protection areas of retained trees. To ensure that trees are correctly considered, it will be necessary that arboricultural input is required during the detailed design of all proposed underground service and drainage runs.

6.16 If avoiding root protection areas is not possible, the installation of underground services and drainage runs must adhere to industry best practice. The BS 5837:2012 recommends the National Joint Utilities Group Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees Volume 4, issue 2: NJUG, 2007 as a normative reference in these instances.

6.17 To avoid impacting the trees and to adhere to industry best practice, all excavation works within tree RPAs must be carried out using hand-held tools such as an air-lance and small vacuum excavator. The main principles during the excavation works are that all roots greater than 25mm in diameter and all large clumps of fibrous roots are retained and protected with dry hessian. Rooting less than 25mm in diameter may be pruned, but only under the guidance of the arboricultural consultant. All excavation techniques and working methods must be discussed and agreed with the arboricultural consultant and supervised accordingly.

6.18 Where such excavation works are not considered to be achievable, trenchless techniques as outlined within Table 3 of BS5837:2012 are required to be explored and implemented where necessary to avoid significant damage to tree roots.

6.19 It is essential that as part of the final design, all soakaways, manholes, and inspection chambers are located outside the RPAs of retained trees, as the retention of roots will not be possible when installing these systems.

6.20 ***Tree protection measures –*** The retained trees can be successfully protected during the proposed development works by using a combination of fencing and stem protection measures that comply with the recommendations outlined within BS5837:2012. For details of all tree protection measures required during construction operations, please refer to the Tree Protection Plan located at Appendix B.

6.21 Stem protection must be fit for purpose to prevent physical damage to the outer bark of the retained street trees as indicated on the Tree Protection Plan. It will consist of wooden panels fixed to a frame that is positioned around the main stem of the tree and secured to the ground to ensure it remains rigid. An example of stem protection is shown at Appendix C.

6.22 The proposal requires numerous working activities within the RPAs of retained trees. To minimise damage and ensure their protection, ongoing site supervision and monitoring will be required by the arboricultural consultant.

# 7 Discussion & Conclusion

## General Change

7.1 The loss of trees will have an initial visual impact on the immediate surrounding area. This impact has been considered and is not deemed to be significant, as the majority of these trees are of a semi-mature age and can be adequately replaced with new high-quality tree planting over a relatively short space of time.

7.2 The landscape design includes new tree, hedge, and shrub planting, all of which will contribute to mitigating the loss of trees. Overall, the proposed landscape design will have a positive impact on the amenities and visual appearance of the local surrounding area.

## Proposal in relation to local planning policy

7.3 The proposal has taken into consideration local planning policies as they relate to trees. Although the removal of trees that are of amenity value is required, these losses have been taken into consideration as part of the landscape proposal, and new high-quality tree and hedge planting have been proposed to mitigate their loss.

7.4 The proposal has been assessed in accordance with best practice BS5837:2012 and provided the recommendations as detailed within this report are followed, all retained trees can be successfully protected for the duration of construction.

## Arboricultural impacts and mitigation

7.5 Constraints posed by trees have been assessed and where impacts occur, these have been identified specifically in this report and can be addressed using sensitive design and construction measures.

7.6 The protection of retained trees on this site during the proposed development works can be achieved by continuing to follow the recommendations in BS5837:2012 and by compliance with suitably drafted planning conditions.

# Section 2: Arboricultural Method Statement

| **Introduction** |
|---|
| This report has been prepared in accordance with British Standard 5837: Trees in relation to design, demolition and construction – Recommendations (2012) which provides a methodology for the assessment and protection of trees and other significant vegetation on development sites. |
| **Sequence of Operations** |
| • Proposed tree works.<br>• Installation of tree protection measures.<br>• Enabling works, including the installation of a site compound.<br>• Construction operations; and<br>• Landscaping.<br>*Alternative sequences can be discussed and agreed with the local authority and project manager if required.* |
| **Supervision** |
| All key / critical activities that will affect trees during construction will be inspected and monitored by the approved arboricultural consultant.<br>• Pre-commencement meeting with site manager and local planning authority to discuss tree protection measures;<br>• Inspection of tree works and protection measures prior to the commencement of works;<br>• Monthly site visits to inspect tree protection measures;<br>• Supervision during all construction works within the RPAs of retained trees; and<br>• Tree inspection upon completion. |

| Arboricultural Method Statement | |
|---|---|
| **Scope** | **Methodology** |
| **Pre-commencement meeting** | Prior to the commencement of works, a meeting between the arboricultural consultant, site manager, and local planning authority will be held to discuss the tree protection measures and proposed works required in close proximity to trees.<br><br>Contact details of all parties will be circulated to ensure all team members are able to communicate correctly.<br><br>The site manager will be responsible for the protection of all retained trees for the duration of the project. Whenever necessary, the site manager will engage the arboricultural consultant to ensure trees are adequately protected.<br><br>The appointed arboricultural consultant will be available for verbal advice throughout site works. |
| **Tree Works** | Please refer to the Tree Work Schedule at Appendix A for a list of all proposed tree works. The location of trees to be removed is highlighted on the Tree Removals Plan at Appendix B.<br><br>It is the responsibility of the Site Manager to ensure all tree works have been approved by the local planning authority.<br><br>All tree works will be carried out by a reputable arboricultural contractor in accordance with the recommendations given in BS 3998:2010 – Tree Work Recommendations.<br><br>All tree works should be carried out in accordance with Section 40 of the Wildlife Act 1976 and Section 46 of the Wildlife (Amendment) Act 2000.<br><br>It is the responsibility of the arboricultural contractor to ensure that no protected species are harmed whilst carrying out site clearance or tree surgery works. |
| **Tree Protection** | The position of tree protection measures for construction is shown on the Tree Protection Plan at Appendix B.<br><br>Protective fencing must be constructed and installed using the BS5837:2012 fencing specification as detailed on the Tree Protection Plan at Appendix B. Alternatives to those shown must be agreed in advance by the client-approved, arboricultural consultant. |

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|---|---|
| | Stem protection is required to safeguard street trees and must be fit for purpose to prevent physical damage to the outer bark of the tree. It will consist of wooden panels fixed to a frame that is positioned around the main stem of the tree and secured in place to remain rigid during construction. An example of stem protection is shown at Appendix C.<br><br>No materials or equipment other than those required to erect protective fencing will be delivered to the site before the fencing is installed.<br><br>Signs will be fixed to every third panel stating, *'Tree Protection Area Keep Out – Any incursion into the protected area must be with the agreement of the local authority or arboricultural consultant'*.<br><br>The main contractor will inform the local authority and the arboricultural consultant that tree protection is in place before site clearance works commence.<br><br>No alteration, removal or repositioning of the tree protection will take place during construction without the prior consent of the arboricultural consultant. |
| **Compound Area** | The site compound must be located outside the designated TPZs as highlighted on the Tree Protection Plan at Appendix B.<br><br>No excavation works within tree RPAs are permitted to install temporary services for site cabins and facilities. Any temporary services within tree RPAs must be above ground and protected accordingly.<br><br>No operating generators or toxic liquids will be stored within the RPAs of retained trees during construction.<br><br>Overhanging tree canopies must be taken into consideration when transporting, installing, and removing site cabins near tree crowns. A banksman will be present during this process to ensure that all operations are carried out in a controlled manner and that no part of the cabin meets overhanging tree crowns. |
| **Refurbishment of existing hard standing** | The removal and replacement of existing hard standing from within the RPAs of retained trees must be carried out under the supervision of the arboricultural consultant using the following methodology:<br><br>The upper surface of the existing hard standing will be fractured with a machine or using hand tools, and all lose material will be removed.<br><br>The removal of the sub-base material must only be carried out using hand-held tools and works must not exceed beyond the depth of the sub-base |

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| | layer into virgin soil. Where possible, the existing sub-base should remain in place and be made good.<br><br>Where it is deemed necessary, temporary ground protection/tree protection barriers will be installed to protect newly exposed roots until practical completion. |
| **Excavation works within tree RPAs** | Excavation works required within the RPAs of trees T495 to T499 must be carried out under the supervision of the arboricultural consultant using the following methodology:<br><br>The existing hard standing and kerb line will be removed with the use of a lightweight machine. Once the subbase layer is exposed, manual excavation with hand tools will be carried out to expose any surface roots.<br><br>Exposed roots will be pruned under the guidance of the arboricultural consultant using sharp, sterile tools suitable to the size of the root to be cut.<br><br>Once the depth of excavation has been reached, the edge of the new kerb will be lined using 1000-gauge polythene to prevent concrete from leaching into the surrounding soil. |
| **Areas of No-Dig Construction** | Proposed new footpaths and areas hard standing within the RPAs of retained trees must be installed using a cellular confinement system, or similar approved. All works will be carried out under arboricultural supervision using the following methodology;<br><br>The existing mulch layer within the footprint of the new hard surface will be raked back to expose the natural ground level.<br><br>If levelling of this is required, it will be carried out through the spreading of lawn sand or good quality topsoil.<br><br>Once levelled, the area will be covered by a permeable membrane onto which the cellular system will be laid. This will then be infilled with 20-40mm angular non-fine aggregate and edged with pressure-treated pegged timber board or similar.<br><br>The system must be installed in accordance with the manufactures specification. |
| **Drainage and Service Installation** | All methods of work for the installation of drainage runs or services within the RPAs of retained trees will follow the guidance within Table 3 of BS 5837 (2012), or National Joint Utilities Group (NJUG) *Guidelines for the* |

| | |
|---|---|
| | *planning, installation and maintenance of utility apparatus in proximity to trees*. Volume 4, issue 2, London NJUG 2007.<br><br>Any approved works within the TPZ will be carried out using either hand tools such as an air lance and vacuum excavator or trenchless techniques as outlined within Table 3 of BS5837:2012.<br><br>For excavation works, all roots greater than 25mm in diameter will be retained and will be immediately wrapped in dry hessian to prevent desiccation and temperature fluctuations. Roots will be pushed aside to allow for runs to be installed.<br><br>In some cases, individual roots less than 25mm in diameter may be pruned, making a clean cut with a suitable sharp sterile tool (e.g. secateurs or hand saw). Prior to root pruning taking place, the contractor will consult the arboricultural consultant.<br><br>Trenches should not remain open for more than one day. If this is unavoidable, any exposed roots should be watered and covered with hessian until the area is backfilled with soil.<br><br>No machinery will be permitted within the TPZ at any time unless ground protection is installed and agreed with the arboricultural consultant beforehand. The requirement for temporary ground protection must be installed in accordance with Section 6.2.3.3 of BS 5837:2012.<br><br>Prior to drainage or service installation works commencing within RPAs, the arboricultural consultant will be contacted, and a date agreed for a site meeting to run through the proposed methods of work on site with the site manager and relevant site operatives. |
| **General Principals to Avoid Damage to Trees** | All tree works will be carried out in accordance with the recommendations given in BS 3998 (2010).<br><br>No fires will be permitted within 20m of the crown of any tree.<br><br>No changes in soil levels will take place within the tree protection zones without prior written consent of the local authority.<br><br>No materials, vehicles, plant or personnel will be permitted into the tree protection zones at any time without the prior consent of the arboricultural consultant.<br><br>Any liquid materials spilled on site will be immediately cleared up and removed from the site. If liquid fuel or cement products are spilled within |

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| | 2m of the tree protection zone, the contractor will report the incident to the arboricultural consultant immediately.<br><br>The contractor will report any damage to trees or shrubs, whether caused by construction activities or from any other cause, to the arboricultural consultant immediately. |
| **Landscape Operations** | All landscape operations within the protected area will be carried out by hand, using hand tools only, unless otherwise agreed with by the arboricultural consultant.<br><br>All tree roots within the RPAs greater than 25mm diameter will be retained and worked around.<br><br>Soil levels will not be increased or reduced within the RPAs of trees without prior agreement from the arboricultural consultant. |

# Appendix A - Schedule

| Document | Reference | Revision |
|---|---|---|
| Tree Schedule | - | - |
| Tree Work Schedule | - | - |

# Tree schedule

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## 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T437 | 1 | Acer platanoides (Norway Maple) | 10.0 | 28 | 1 | 3.0 | | 3.5 | | 3.5 | | 3.0 | | 2.5 | | Early Mature | Structural condition Fair. Physiological condition Fair. Branch - Broken. Excavation within root zone - Historic. Root environment - Restricted. Root damage - Suspected. Structural impact - Footpath / highway / drive disturbance. Tree canopy has sufficient clearance from building. Minor damage to concrete footpath. Trench was excavated on southern side of stem and refilled with concrete which is now lifting. | 25/05/2021 | 35.5 | 3.4 | 20-40 | B2 |
| Tree T438 | 1 | Acer platanoides (Norway Maple) | 7.0 | 24 | 1 | 4.0 | | 3.0 | | 3.0 | | 2.0 | | 2.5 | | Early Mature | Structural condition Poor. Physiological condition Fair. Branch - Broken. Bark wound - Minor. Crown conflict - Structure / boundary / wire / tree. Deadwood - Major. Girdling roots - Major. Structural impact - Footpath / highway / drive disturbance. Shedding limb / limbs - Minor. Unbalanced crown - Major. Concrete path is significantly girdling stem base. Major root girdling also occurring with significant footpath and kerb damage. Tree is stressed and showing signs of decline. Inappropriate long term retention. Removal and replacement planting proposed. | 25/05/2021 | 26.1 | 2.9 | 0-10 | U |
| Tree T439 | 1 | Acer platanoides (Norway Maple) | 9.0 | 26 | 1 | 3.0 | | 3.0 | | 3.0 | | 3.5 | | 2.5 | | Early Mature | Structural condition Fair. Physiological condition Fair. Branch - Broken. Branch - Suspended. Bark wound - Major. Decay entry points. Deadwood - Minor. Fork - Weak with included bark. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Concrete path is girdling stem base. Minor damage to footpath as a result of root growth. Major damage to stem base due to vehicles colliding with it. Tree crown in conflict with adjacent roof. Included union at 2.5m with ingrown cable tie. | 19/05/2021 | 30.6 | 3.1 | 10-20 | C2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.



Generated By MyTREES tree management software

# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T440 | 1 | Acer platanoides (Norway Maple) | 11.5 | 36 | 1 | 5.0 | | 3.5 | | 5.0 | | 4.5 | | 2.0 | | Early Mature | Structural condition Fair. Physiological condition Fair. Bark wound - Major. Die-back - Mid crown. Decay entry points. Deadwood - Minor. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Shedding limb / limbs - Major. Concrete path is girdling stem base. Major damage to kerb and minor damage to footpath as a result of root growth. Tree crown in conflict with building. Tree is showing some signs of stress. | 19/05/2021 | 58.6 | 4.3 | 10-20 | C2 |
| Tree T442 | 1 | Acer platanoides (Norway Maple) | 9.0 | 36 | 1 | 3.5 | | 5.5 | | 3.5 | | 3.0 | | 2.5 | | Early Mature | Structural condition Poor. Physiological condition Dead. Dead tree / trees. Root decay - Suspected. Concrete path is girdling stem base. Tree has only died this year. Minor damage to footpath as a result of previous root growth. | 19/05/2021 | 58.6 | 4.3 | 0-10 | U |
| Tree T443 | 1 | Acer platanoides (Norway Maple) | 8.0 | 22 | 1 | 3.0 | | 2.5 | | 3.0 | | 1.5 | | 2.0 | | Early Mature | Structural condition Fair. Physiological condition Fair. Crown conflict - Structure / boundary / wire / tree. Root environment - Restricted. Structural impact - Potential. No notable damage to footpath as a result of root growth. Upper crown in conflict with overhead cables. Lower canopy is dense and more typical of Acer platanoides Globosum. | 19/05/2021 | 21.9 | 2.6 | 10-20 | C2 |
| Tree T444 | 1 | Acer platanoides (Norway Maple) | 10.0 | 32 | 1 | 4.5 | | 4.5 | | 5.5 | | 4.5 | | 2.5 | | Early Mature | Structural condition Good. Physiological condition Good. Arboricultural work - Historic. Crown conflict - Structure / boundary / wire / tree. Root environment - Restricted. Structural impact - Potential. Concrete path is girdling stem base. No notable damage to footpath. Tree canopy within 0.5m of building. | 19/05/2021 | 46.3 | 3.8 | 20-40 | B2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T445 | 1 | Acer platanoides (Norway Maple) | 10.0 | 25 | 1 | 3.5 | | 3.5 | | 3.0 | | 3.5 | | 3.0 | | Early Mature | Structural condition Fair. Physiological condition Poor. Arboricultural work - Historic. Crown conflict - Structure / boundary / wire / tree. Die-back - Mid crown. Decline - Evident / observed. Decay / structural defect in crown limb / limbs - Minor. Deadwood - Minor. Root environment - Restricted. Structural impact - Potential. Concrete slabs lifting within 1-2m of northern side of tree stem. Electrical pole within 1.5m south of stem, canopy conflict with wires. Tree is showing signs of physiological stress. More suitable footpath surface would be required to reduce ongoing damage. Consider removing and replacing in the future due to inappropriate location. | 19/05/2021 | 28.3 | 3.0 | 0-10 | U |
| Tree T446 | 1 | Platanus x hispanica (London Plane) | 14.0 | 41 | 1 | | 4.5 | | 1.5 | | 4.5 | | 4.0 | 4.0 | | Early Mature | Structural condition Fair. Physiological condition Good. Competition - Adjacent trees. Crown reduction - Historic. Deadwood - Minor. Pollard - Lapsed / Mature stems. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Suppressed crown - Minor. Unbalanced crown - Minor. Tarmac layer within rooting environment of tree is lifting and cracking, not significant at present. Consider breaking out area around stem and possibly increasing level of tarmac as part of future repair works. Manage at a reduced size to reduce root growth and footpath damage. Consider flexible surface close to stem base. | 19/05/2021 | 76.0 | 4.9 | 40+ | B2 |
| Tree T447 | 1 | Platanus x hispanica (London Plane) | 14.0 | 52 | 1 | | 4.5 | | 4.5 | | 4.0 | | 4.0 | 5.0 | | Mature | Structural condition Good. Physiological condition Good. Crown reduction - Historic. Pollard - Lapsed / Mature stems. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer within rooting environment of tree is lifting and cracking, not significant at present. Consider breaking out area around stem and possibly increasing level of tarmac as part of future repair works. Manage at a reduced size to reduce root growth and footpath damage. Consider flexible surface close to stem base. | 19/05/2021 | 122.3 | 6.2 | 40+ | B2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T448 | 1 | Tilia sp. (Lime sp.) | 7.5 | 18 | 1 | | 3.0 | | 3.0 | | 3.0 | | 3.0 | 2.0 | | Semi Mature | Structural condition Good. Physiological condition Fair. Deadwood - Minor. Tree planted within suspended modular footpath system. No damage to surrounding footpath observed. | 19/05/2021 | 14.7 | 2.2 | 40+ | **B2** |
| Tree T449 | 1 | Platanus x hispanica (London Plane) | 14.0 | 60 | 1 | | 5.0 | | 5.0 | | 4.5 | | 4.5 | 5.0 | | Mature | Structural condition Good. Physiological condition Good. Crown reduction - Historic. Pollard - Lapsed / Mature stems. Pruning wounds - Decayed. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer within rooting environment of tree is lifting and cracking, not significant at present. Consider using a flexible surface as part of future repair works. Manage at a reduced size to reduce root growth and footpath damage. | 19/05/2021 | 162.9 | 7.2 | 40+ | **B2** |
| Tree T450 | 1 | Platanus x hispanica (London Plane) | 12.0 | 38 | 1 | | 4.0 | | 4.0 | | 4.0 | | 4.0 | 4.0 | | Early Mature | Structural condition Good. Physiological condition Good. Crown reduction - Historic. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer within rooting environment of tree is lifting and cracking, mainly around stem base. Manage at a reduced size to reduce root growth and footpath damage. Consider using a flexible surface around stem base as part of footpath repair works. Lamp post within tree crown. | 19/05/2021 | 65.3 | 4.6 | 40+ | **B2** |
| Tree T491 | 1 | Platanus x hispanica (London Plane) | 13.5 | 76 | 1 | 4.5 | | 5.0 | | 4.0 | | 4.0 | | 3.0 | | Mature | Structural condition Fair. Physiological condition Good. Crown reduction - Historic. Pollard - Lapsed / Mature stems. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base is has some minor cracks.Consider changing to flexible surface in the future. Sufficient crown clearance from building. Streetlight at crown extents. | 25/05/2021 | 261.3 | 9.1 | 40+ | **B2** |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T492 | 1 | Acer platanoides cv. (Norway Maple cv.) | 9.0 | 21 | 1 | 3.0 | | 3.0 | | 3.0 | | 3.0 | | 3.0 | | Early Mature | Structural condition Fair. Physiological condition Good. Bark wound - Major. Decay entry points. Decay / structural defect - Base. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Minor damage to tarmac layer around stem base and concrete pavers. Consider changing to flexible surface in the future. Sufficient crown clearance from building. Streetlight within crown extent. | 25/05/2021 | 20.0 | 2.5 | 10-20 | C2 |
| Tree T493 | 1 | Platanus x hispanica (London Plane) | 13.5 | 41 | 1 | 4.0 | | 5.0 | | 5.0 | | 4.0 | | 3.0 | | Early Mature | Structural condition Fair. Physiological condition Poor. Crown reduction - Historic. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base is cracked. Root crown and structural roots are raised. Tree immediately adjacent to kerb, minor displacement occurring. Sufficient crown clearance from building. Streetlight at crown extents. Browning of leaves, cause unknown. | 25/05/2021 | 76.0 | 4.9 | 20-40 | B2 |
| Tree T494 | 1 | Platanus x hispanica (London Plane) | 14.0 | 63 | 1 | 5.0 | | 5.0 | | 4.5 | | 4.0 | | 6.0 | | Mature | Structural condition Poor. Physiological condition Fair. Crown reduction - Historic. Decay / structural defect in crown limb / limbs - Localised. Pruning wounds - Decayed. Root decay - Evident / observed. Root environment - Restricted. Root damage - Evident / observed. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base is cracked. Sufficient crown clearance from building. Streetlight within crown extents. Removal and replacement planting due to tree's poor condition and proximity with streetlight. | 25/05/2021 | 179.6 | 7.6 | 10-20 | C2 |
| Tree T495 | 1 | Platanus x hispanica (London Plane) | 12.5 | 35 | 1 | 4.5 | | 5.0 | | 4.0 | | 3.5 | | 5.0 | | Early Mature | Structural condition Fair. Physiological condition Good. Crown reduction - Historic. Decay / structural defect in crown limb / limbs - Localised. Leaning trunk - Minor. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base has some minor cracking. Sufficient crown clearance from building. Defect located on main stem. Monitor going forward. | 25/05/2021 | 55.4 | 4.2 | 20-40 | C2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T496 | 1 | Platanus x hispanica (London Plane) | 12.5 | 42 | 1 | 4.0 | | 4.0 | | 4.0 | | 3.5 | | 4.0 | | Early Mature | Structural condition Good. Physiological condition Good. Crown reduction - Historic. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base is significantly lifted. Root crown and structural roots raised above ground level. Crown within 1m of building. Streetlight at crown extents. | 25/05/2021 | 79.8 | 5.0 | 40+ | **B2** |
| Tree T497 | 1 | Platanus x hispanica (London Plane) | 12.0 | 35 | 1 | 3.5 | | 3.5 | | 3.5 | | 3.5 | | 5.0 | | Early Mature | Structural condition Good. Physiological condition Good. Crown reduction - Historic. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base is lifting due to raised root crown. Sufficient crown clearance from building at present. | 25/05/2021 | 55.4 | 4.2 | 40+ | **B2** |
| Tree T498 | 1 | Platanus x hispanica (London Plane) | 13.5 | 40 | 1 | 3.0 | | 4.0 | | 4.0 | | 4.5 | | 2.5 | | Early Mature | Structural condition Good. Physiological condition Good. Crown reduction - Historic. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base is lifting but not significantly. Consider changing tarmac around stem base with a flexible surface in the future. Crown immediately adjacent to building and streetlight within canopy. | 25/05/2021 | 72.4 | 4.8 | 40+ | **B2** |
| Tree T499 | 1 | Platanus x hispanica (London Plane) | 14.0 | 60 | 1 | 5.5 | | 6.0 | | 5.0 | | 4.5 | | 4.0 | | Mature | Structural condition Good. Physiological condition Good. Crown reduction - Historic. Pollard - Lapsed / Mature stems. Root environment - Restricted. Structural impact - Footpath / highway / drive disturbance. Tarmac layer around stem base is lifting but not significantly. Consider changig tarmac around stem base with a flexible surface in the future. Sufficient crown clearance from building. Street light within canopy. | 25/05/2021 | 162.9 | 7.2 | 40+ | **B2** |
| Tree T500 | 1 | Quercus ilex (Holm Oak) | 14.0 | 77 | 1 | 4.5 | | 4.5 | | 5.5 | | 7.0 | | 2.0 | | Mature | Structural condition Fair. Physiological condition Good. Arboricultural work - Historic. Branch weight - Heavy. Foreign object - Ingrown metal. Pruning wounds - Decayed. Root environment - Restricted. Tree growing within retaining bed. Heavy lateral extending towards public footpath to the south-west. | 25/05/2021 | 268.2 | 9.2 | 20-40 | **B2** |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T501 | 1 | Quercus x hispanica (Lucombe Oak) | 14.0 | 42 | 1 | 4.0 | | 4.0 | | 4.0 | | 3.0 | | 1.0 | | Early Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Crown reduction - Historic. Deadwood - Minor. Tree growing within retaining bed. | 25/05/2021 | 79.8 | 5.0 | 20-40 | B2/B3 |
| Tree T502 | 1 | Quercus ilex (Holm Oak) | 18.0 | 82 | 1 | 3.0 | | 6.5 | | 8.0 | | 4.0 | | 2.5 | | Mature | Structural condition Fair. Physiological condition Good. Arboricultural work - Historic. Branch weight - Heavy. Competition - Adjacent trees. Girdling roots - Minor. Root environment - Restricted. Root damage - Evident / observed. Shedding limb / limbs - Minor. Unbalanced crown - Minor. Tree growing within retaining bed. | 25/05/2021 | 304.2 | 9.8 | 20-40 | B2 |
| Tree T503 | 1 | Quercus ilex (Holm Oak) | 15.0 | 53 | 1 | 3.0 | | 3.0 | | 5.0 | | 4.5 | | 2.0 | | Mature | Structural condition Fair. Physiological condition Good. Arboricultural work - Historic. Competition - Adjacent trees. Decay / structural defect in crown limb / limbs - Minor. Pruning wounds - Decayed. Shedding limb / limbs - Minor. Tree growing within retaining bed. | 25/05/2021 | 127.1 | 6.4 | 20-40 | B2 |
| Tree T504 | 1 | Quercus ilex (Holm Oak) | 11.5 | 33 | 1 | 2.5 | | 2.5 | | 3.0 | | 3.0 | | 2.0 | | Early Mature | Structural condition Poor. Physiological condition Fair. Arboricultural work - Historic. Bark wound - Major. Competition - Adjacent trees. Decay / structural defect - Base. Sheltered crown. Major bark wound on stem base but decay is not extensive. Tree is well sheltered and has been reduced in the past. Tree does not pose a significant risk to footpath users. | 25/05/2021 | 49.3 | 4.0 | 10-20 | C2 |
| Tree T505 | 1 | Quercus ilex (Holm Oak) | 18.0 | 66 | 1 | 7.0 | | 6.0 | | 3.0 | | 5.5 | | 2.5 | | Mature | Structural condition Fair. Physiological condition Good. Branch weight - Heavy. Decay / structural defect in crown limb / limbs - Localised. Pruning wounds - Decayed. Decayed pruning wounds at crown break with heavy laterals growth. Tree is well sheltered. | 25/05/2021 | 197.1 | 7.9 | 20-40 | B2 |
| Tree T506 | 1 | Quercus ilex (Holm Oak) | 4.0 | 12 | 1 | 2.5 | | 2.5 | | 2.5 | | 3.0 | | 1.0 | | Young | Structural condition Good. Physiological condition Good. Competition - Adjacent trees. | 25/05/2021 | 6.5 | 1.4 | 40+ | C2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T507 | 1 | Quercus ilex (Holm Oak) | 17.0 | 65 | 1 | 5.0 | | 6.0 | | 5.0 | | 7.0 | | 3.0 | | Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Branch weight - Heavy. Competition - Adjacent trees. Pruning wounds - Decayed. Root environment - Restricted. | 25/05/2021 | 191.1 | 7.8 | 20-40 | **B2** |
| Tree T508 | 1 | Quercus ilex (Holm Oak) | 4.0 | 11 | 1 | 2.0 | | 2.0 | | 2.0 | | 3.0 | | 1.5 | | Young | Structural condition Fair. Physiological condition Good. Bark wound - Mechanical. Competition - Adjacent trees. Suppressed crown - Minor. Unbalanced crown - Minor. Strimmer damage at stem base. | 25/05/2021 | 5.5 | 1.3 | 20-40 | **C2** |
| Tree T509 | 1 | Quercus ilex (Holm Oak) | 16.0 | 59 | 1 | 3.0 | | 8.0 | | 4.5 | | 4.0 | | 3.0 | | Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Decay / structural defect in crown limb / limbs - Localised. Excavation within root zone - Suspected. Pruning wounds - Decayed. Root environment - Restricted. Unbalanced crown - Minor. Inspect degradation at crown break and as a minimum reduce lateral growth on eastern side of canopy by 2-2.5m. Do not thin or reduce tree height. If additional reduction required contact arboricultural consultant. | 25/05/2021 | 157.5 | 7.1 | 20-40 | **B2** |
| Tree T510 | 1 | Quercus ilex (Holm Oak) | 12.0 | 46 | 1 | 3.5 | | 3.0 | | 4.0 | | 6.0 | | 4.0 | | Early Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Bark wound - Minor. Competition - Adjacent trees. Excavation within root zone - Historic. Fungal fruiting body - structural decay suspected. Pruning wounds - Decayed. Root environment - Restricted. Suppressed crown - Minor. Unbalanced crown - Major. Ganoderma australe fungal fruiting bodies on southern side of stem base. | 25/05/2021 | 95.7 | 5.5 | 20-40 | **C2** |
| Tree T511 | 1 | Quercus ilex (Holm Oak) | 16.0 | 46 | 1 | 6.0 | | 8.0 | | 4.5 | | 5.5 | | 2.5 | | Mature | Structural condition Fair. Physiological condition Fair. Competition - Adjacent trees. Deadwood - Minor. Leaning trunk - Minor. Root environment - Restricted. Unbalanced crown - Minor. Low target area within falling distance of tree. | 25/05/2021 | 95.7 | 5.5 | 20-40 | **B2** |

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T512 | 1 | Quercus ilex (Holm Oak) | 17.0 | 88 | 1 | 8.0 | | 12.0 | | 7.5 | | 7.5 | | 2.5 | | Mature | Structural condition Fair. Physiological condition Good. Arboricultural work - Historic. Branch weight - Heavy. Decay / structural defect in crown limb / limbs - Localised. Deadwood - Minor. Excavation within root zone - Historic. Pruning wounds - Decayed. Root environment - Restricted. Structural defect on western primary lateral and pruning wound on upper side of eastern heavy extended lateral. | 25/05/2021 | 350.3 | 10.6 | 20-40 | **B2** |
| Tree T513 | 1 | Quercus ilex (Holm Oak) | 15.0 | 79 | 1 | 11.0 | | 8.0 | | 2.5 | | 6.5 | | 2.5 | | Mature | Structural condition Poor. Physiological condition Fair. Arboricultural work - Historic. Branch weight - Heavy. Bark wound - Minor. Decay / structural defect in crown limb / limbs - Extensive. Pruning wounds - Decayed. Large decaying pruning wounds at crown break and on central leader. Central leader contains multiple decay lesions and is partially sheltered. Heavy lateral to the north. Deadwood above footpath. | 25/05/2021 | 282.3 | 9.5 | 10-20 | **C2** |
| Tree T514 | 1 | Quercus ilex (Holm Oak) | 14.0 | 59 | 1 | 4.0 | | 4.0 | | 5.5 | | 7.5 | | 3.0 | | Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Branch weight - Heavy. Competition - Adjacent trees. Decay / structural defect in crown limb / limbs - Localised. Deadwood - Minor. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. Suppressed crown - Minor. Unbalanced crown - Major. | 25/05/2021 | 157.5 | 7.1 | 20-40 | **C2** |
| Tree T515 | 1 | Quercus ilex (Holm Oak) | 9.0 | 45 | 1 | | 3.5 | | 2.0 | | 4.0 | | 8.0 | 4.0 | | Early Mature | Structural condition Poor. Physiological condition Fair. Arboricultural work - Historic. Branch weight - Heavy. Competition - Adjacent trees. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. Suppressed crown - Major. Unbalanced crown - Major. | 25/05/2021 | 91.6 | 5.4 | 10-20 | **C2** |
| Tree T516 | 1 | Quercus ilex (Holm Oak) | 15.0 | 65 | 1 | | 7.5 | | 6.0 | | 2.5 | | 7.0 | 4.0 | | Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Branch weight - Heavy. Competition - Adjacent trees. Deadwood - Minor. Pruning wounds - Decayed. Suppressed crown - Major. Unbalanced crown - Major. | 25/05/2021 | 191.1 | 7.8 | 20-40 | **B2** |

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| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T517 | 1 | Quercus ilex (Holm Oak) | 15.0 | 65 | 1 | | 7.5 | | 7.5 | | 3.0 | | 9.0 | 3.0 | | Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Bark exudation. Branch weight - Heavy. Decay / structural defect in crown limb / limbs - Localised. Deadwood - Minor. Streetlight within crown extent. | 25/05/2021 | 191.1 | 7.8 | 20-40 | C2 |
| Tree T518 | 1 | Quercus ilex (Holm Oak) | 5.0 | 12 | 1 | | 2.0 | | 2.0 | | 3.5 | | 2.5 | 2.0 | | Young | Structural condition Good. Physiological condition Good. Competition - Adjacent trees. | 25/05/2021 | 6.5 | 1.4 | 40+ | C2 |
| Tree T519 | 1 | Quercus ilex (Holm Oak) | 5.0 | 12 | 1 | | 2.5 | | 2.5 | | 3.0 | | 3.0 | 2.0 | | Young | Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Competition - Adjacent trees. | 25/05/2021 | 6.5 | 1.4 | 40+ | C2 |
| Tree T520 | 1 | Quercus ilex (Holm Oak) | 15.0 | 63 | 1 | | 7.0 | | 8.5 | | 9.0 | | 5.0 | 2.5 | | Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Branch weight - Heavy. Bark wound - Minor. Pruning wounds - Decayed. Unbalanced crown - Minor. Decayed pruning wound at crown break. Tree weighted to the east towards building. | 25/05/2021 | 179.6 | 7.6 | 20-40 | B2 |
| Tree T521 | 1 | Quercus ilex (Holm Oak) | 15.0 | 59 | 1 | | 4.5 | | 7.0 | | 8.0 | | 7.0 | 2.5 | | Mature | Structural condition Fair. Physiological condition Fair. Branch weight - Heavy. Competition - Adjacent trees. Deadwood - Minor. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. | 25/05/2021 | 157.5 | 7.1 | 20-40 | B2 |
| Tree T522 | 1 | Quercus ilex (Holm Oak) | 16.0 | 67 | 1 | | 4.0 | | 3.0 | | 6.0 | | 11.0 | 2.5 | | Mature | Structural condition Fair. Physiological condition Fair. Branch weight - Heavy. Branch - Broken. Competition - Adjacent trees. Deadwood - Minor. Fork - Weak with included bark. Leaning trunk - Major. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. Tree leaning in direction of road and heavy lateral extending above road. | 25/05/2021 | 203.1 | 8.0 | 20-40 | C2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.



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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T523 | 1 | Quercus ilex (Holm Oak) | 15.0 | 48 | 1 | | 4.0 | | 5.0 | | 4.0 | | 6.5 | 2.0 | | Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Competition - Adjacent trees. Deadwood - Minor. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. Unbalanced crown - Minor. | 25/05/2021 | 104.2 | 5.8 | 20-40 | B2 |
| Tree T524 | 1 | Quercus ilex (Holm Oak) | 14.0 | 40 | 1 | | 3.0 | | 5.0 | | 2.5 | | 3.5 | 2.0 | | Early Mature | Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Bark exudation. Competition - Adjacent trees. Deadwood - Minor. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. Light within crown extent. | 25/05/2021 | 72.4 | 4.8 | 20-40 | B2 |
| Tree T525 | 1 | Quercus ilex (Holm Oak) | 9.0 | 50 | 1 | | 4.0 | | 3.0 | | 4.0 | | 8.0 | 2.0 | | Mature | Structural condition Poor. Physiological condition Fair. Arboricultural work - Historic. Competition - Adjacent trees. Deadwood - Minor. Leaning trunk - Major. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. Unbalanced crown - Major. | 25/05/2021 | 113.1 | 6.0 | 10-20 | C2 |
| Tree T526 | 1 | Cedrus deodara (Deodar) | 17.0 | 83 | 1 | 8.5 | | 8.0 | | 10.0 | | 8.5 | | 1.5 | | Mature | Structural condition Good. Physiological condition Fair. Arboricultural work - Historic. Branch weight - Heavy. Deadwood - Minor. Rubbing limbs. | 25/05/2021 | 311.7 | 10.0 | 40+ | A2 |
| Tree T583 | 1 | Sorbus aucuparia (Rowan/Mountain Ash) | 6.0 | 27 | 1 | | 3.0 | | 3.0 | | 3.5 | | 3.0 | 0.0 | | Early Mature | Structural condition Poor. Physiological condition Poor. Die-back - Throughout crown. Decline - Evident / observed. Tree is located on neighbouring site and is in decline. | 28/10/2021 | 33.0 | 3.2 | 0-10 | U |
| Tree T584 | 1 | Pittosporum tenuifolium | 5.5 | 23 | 1 | 2.5 | | 2.5 | | 2.5 | | 2.5 | | 0.0 | | Early Mature | Structural condition Fair. Physiological condition Fair. Tree is located on neighbouring site. | 28/10/2021 | 23.9 | 2.8 | 10-20 | C2 |
| Tree T585 | 1 | Carpinus betulus (Hornbeam) | 5.0 | 13 | 1 | 2.5 | | 3.0 | | 2.0 | | 2.0 | | 2.0 | | Semi Mature | Structural condition Fair. Physiological condition Fair. Root environment - Restricted. | 28/10/2021 | 7.6 | 1.6 | 20-40 | C2 |
| Tree T586 | 1 | Carpinus betulus (Hornbeam) | 9.0 | 22 | 1 | 4.0 | | 4.0 | | 3.5 | | 3.5 | | 1.5 | | Semi Mature | Structural condition Good. Physiological condition Good. Root environment - Restricted. Light within canopy. | 28/10/2021 | 21.9 | 2.6 | 40+ | B2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T587 | 1 | Carpinus betulus (Hornbeam) | 5.5 | 18 | 1 | 3.0 | | 3.0 | | 2.5 | | 3.0 | | 2.0 | | Semi Mature | Structural condition Good. Physiological condition Good. Root environment - Compacted. Root environment - Restricted. | 28/10/2021 | 14.7 | 2.2 | 40+ | C2 |
| Tree T588 | 1 | Carpinus betulus 'Fastigiata' (Fastigiate Hornbeam) | 8.0 | 25 | 1 | 3.0 | | 3.0 | | 3.0 | | 3.0 | | 0.0 | | Early Mature | Structural condition Good. Physiological condition Good. Root environment - Restricted. | 28/10/2021 | 28.3 | 3.0 | 40+ | B2 |
| Tree T589 | 1 | Carpinus betulus 'Fastigiata' (Fastigiate Hornbeam) | 3.5 | 8 COM | 2 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 2.0 | | Young | Structural condition Fair. Physiological condition Fair. Physiological stress. Root environment - Restricted. | 28/10/2021 | 3.3 | 1.0 | 10-20 | C2 |
| Tree T590 | 1 | Carpinus betulus 'Fastigiata' (Fastigiate Hornbeam) | 3.0 | 6 | 1 | 0.5 | | 0.5 | | 0.5 | | 0.5 | | 2.0 | | Young | Structural condition Fair. Physiological condition Fair. Physiological stress. Root environment - Restricted. | 28/10/2021 | 1.6 | 0.7 | 10-20 | C2 |
| Tree T591 | 1 | Carpinus betulus 'Fastigiata' (Fastigiate Hornbeam) | 4.5 | 10 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 2.0 | | Young | Structural condition Fair. Physiological condition Fair. Physiological stress. Root environment - Restricted. | 28/10/2021 | 4.5 | 1.2 | 10-20 | C2 |
| Tree T592 | 1 | Carpinus betulus 'Fastigiata' (Fastigiate Hornbeam) | 9.0 | 29 | 1 | 3.0 | | 4.5 | | 4.5 | | 4.5 | | 0.0 | | Early Mature | Structural condition Good. Physiological condition Good. Competition - Adjacent trees. Root environment - Restricted. | 28/10/2021 | 38.0 | 3.5 | 40+ | B2 |
| Tree T593 | 1 | Carpinus betulus 'Fastigiata' (Fastigiate Hornbeam) | 9.0 | 26 | 1 | 4.0 | | 4.5 | | 3.0 | | 4.5 | | 0.0 | | Early Mature | Structural condition Good. Physiological condition Good. Competition - Adjacent trees. Root environment - Restricted. | 28/10/2021 | 30.6 | 3.1 | 40+ | B2 |
| Tree T594 | 1 | Tilia sp. (Lime sp.) | 9.5 | 21 | 1 | 3.5 | | 3.0 | | 3.0 | | 3.5 | | 2.5 | | Semi Mature | Structural condition Good. Physiological condition Good. Arboricultural work - Historic. | 28/10/2021 | 20.0 | 2.5 | 40+ | B1/B2 |
| Tree T595 | 1 | Tilia sp. (Lime sp.) | 9.5 | 18 | 1 | 3.5 | | 3.0 | | 3.0 | | 3.0 | | 2.5 | | Semi Mature | Structural condition Good. Physiological condition Good. Arboricultural work - Historic. | 28/10/2021 | 14.7 | 2.2 | 40+ | B1/B2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T596 | 1 | Tilia sp. (Lime sp.) | 9.5 | 18 | 1 | 3.5 | | 3.0 | | 3.0 | | 3.0 | | 2.5 | | Semi Mature | Structural condition Good. Physiological condition Good. Arboricultural work - Historic. | 28/10/2021 | 14.7 | 2.2 | 40+ | B1/B2 |
| Tree T597 | 1 | Tilia sp. (Lime sp.) | 9.5 | 19 | 1 | 3.5 | | 3.0 | | 3.0 | | 3.0 | | 2.5 | | Semi Mature | Structural condition Good. Physiological condition Good. Arboricultural work - Historic. | 28/10/2021 | 16.3 | 2.3 | 40+ | B1/B2 |
| Tree T598 | 1 | Quercus ilex (Holm Oak) | 3.5 | 8 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | Semi Mature | Structural condition Good. Physiological condition Good. Staked tree / trees. | 28/10/2021 | 2.9 | 1.0 | 40+ | C1/C2 |
| Tree T599 | 1 | Quercus ilex (Holm Oak) | 3.5 | 8 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | Semi Mature | Structural condition Good. Physiological condition Good. Staked tree / trees. | 28/10/2021 | 2.9 | 1.0 | 40+ | C1/C2 |
| Tree T600 | 1 | Quercus ilex (Holm Oak) | 3.5 | 8 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | Semi Mature | Structural condition Good. Physiological condition Good. | 28/10/2021 | 2.9 | 1.0 | 40+ | C1/C2 |
| Tree T601 | 1 | Quercus ilex (Holm Oak) | 3.5 | 9 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | Semi Mature | Structural condition Good. Physiological condition Good. Staked tree / trees. | 28/10/2021 | 3.7 | 1.1 | 40+ | C1/C2 |
| Tree T602 | 1 | Quercus ilex (Holm Oak) | 3.0 | 8 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 0.0 | | Semi Mature | Structural condition Fair. Physiological condition Poor. Die-back - Upper crown. Deadwood - Major. Staked tree / trees. | 28/10/2021 | 2.9 | 1.0 | 0-10 | U |
| Tree T603 | 1 | Quercus ilex (Holm Oak) | 4.0 | 8 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | Semi Mature | Structural condition Good. Physiological condition Good. Staked tree / trees. | 28/10/2021 | 2.9 | 1.0 | 40+ | C1/C2 |
| Tree T604 | 1 | Quercus ilex (Holm Oak) | 3.5 | 8 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | Semi Mature | Structural condition Good. Physiological condition Good. Staked tree / trees. | 28/10/2021 | 2.9 | 1.0 | 40+ | C1/C2 |
| Tree T605 | 1 | Quercus ilex (Holm Oak) | 3.5 | 8 | 1 | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | | Semi Mature | Structural condition Good. Physiological condition Good. Staked tree / trees. | 28/10/2021 | 2.9 | 1.0 | 40+ | C1/C2 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.



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# 210901 - Swords Cultural Quarter

| Tree ID | No. | Species | Height (m) | Stem diameter (cm) | No. of Stems | CROWN SPREAD (m) N | NE | E | SE | S | SW | W | NW | Crown clearance (m) | L.B. (m) | Life stage | Condition Notes | Survey date | RPA ($m^2$) | RPR (m) | Life expectancy (yrs) | BS Category |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tree T606 | 1 | Pyrus sp. (Pear sp.) | 9.0 | 15 | 1 | 2.5 | | 2.5 | | 2.5 | | 2.5 | | 0.0 | | Semi Mature | Structural condition Fair. Physiological condition Good. Access to inspect base - Not possible. Unable to inspect tree closely as located in neighbouring property. | 28/10/2021 | 10.2 | 1.8 | 10-20 | C1 |
| Group G607 | 1<br>1 | Fraxinus excelsior (Ash)<br>Buddleja davidii (Buddleja) | 4.0 | 10 AVE | 1 | | | | | | | | | 0.0 | | Semi Mature | Structural condition Fair. Physiological condition Fair. Natural regeneration. Height and stem diameter are average for group. Group of self-seeded young ash and buddleia. Garden area has been neglected and is overgrown. Quantities not recorded, only species mix. | 28/10/2021 | 4.5 | 1.2 | 10-20 | C1 |

Stem **green** Estimated value
Stem **AVE** Average stem diameter for tree groups
Stem **COM** Combined stem diameter in accordance with BS5837
L.B. Height of lowest branch attachment (m) - where relevant

The survey information in this schedule has been gathered following a BS5837 survey for planning purposes. Where hazardous trees have been noted recommendations for works may have been made but this survey cannot be relied upon as a full health and safety assessment of the trees.



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Table 1 of BS5837 (2012) **Cascade chart for tree quality assessment**

| Category and definition | Criteria (including subcategories where appropriate) | | | Identification on plan |
|---|---|---|---|---|
| **Trees unsuitable for retention (see note)** | | | | |
| **Category U**<br><br>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years | * Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)<br>* Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline<br>* Trees infected with pathogens of significance to health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality<br><br>NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7 | | | **RED** |
| | **1 Mainly arboricultural qualities** | **2 Mainly landscape qualities** | **3 Mainly cultural values, including conservation** | |
| **Trees to be considered for retention** | | | | |
| **Category A**<br><br>**Trees of high quality**<br><br>with an estimated remaining life expectancy of at least 40 years | Tree 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 arboricutural and/or landscape features. | Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture). | **GREEN** |
| **Category B**<br><br>**Trees of moderate quality**<br>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. | **BLUE** |
| **Category C**<br><br>**Trees of low quality**<br>with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm | 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. | **GREY** |

# Planning Tree Works Schedule

## 210901 - Swords Cultural Quarter

CHARLES MCCORKELL
ARBORICULTURAL CONSULTANCY

| ID | No. / Species | BS5837 Category | Purpose of works<br>Recommended works | Status |
|---|---|---|---|---|
| T444 | 1 *Acer platanoides*<br>Norway Maple | B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T445 | 1 *Acer platanoides*<br>Norway Maple | U | To facilitate development<br>Fell - Ground level. | Proposed |
| T446 | 1 *Platanus x hispanica*<br>London Plane | B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T447 | 1 *Platanus x hispanica*<br>London Plane | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce to previous points. Maintain at a reduced size. | Proposed |
| T495 | 1 *Platanus x hispanica*<br>London Plane | C2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce to previous points. Maintain at a reduced size. | Proposed |
| T496 | 1 *Platanus x hispanica*<br>London Plane | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce to previous points. Maintain at a reduced size. | Proposed |
| T497 | 1 *Platanus x hispanica*<br>London Plane | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce to previous points. Maintain at a reduced size. | Proposed |
| T498 | 1 *Platanus x hispanica*<br>London Plane | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce to previous points. Maintain at a reduced size. | Proposed |
| T499 | 1 *Platanus x hispanica*<br>London Plane | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce to previous points. Maintain at a reduced size. | Proposed |
| T500 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce extended lateral growth on the western and south-western side of canopy by 1.5m to bring back in line with main crown spread. Crown lift over footpath to 2.5-3m above ground level. | Proposed |
| T502 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce lenght of extended laterals above footpath by 1.5m to alleviate end weight and loading on union and help with crown imbalace. Do not reduce tree height. | Proposed |
| T505 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce heavy lateral growth to the northern canopy by 1.5m in height and 1m in width. | Proposed |
| T507 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce upper lateral growth on footpath side by 1m and reduce extended northern lateral by 1.5m. | Proposed |
| T509 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce lateral growth on eastern side of canopy by 2-2.5m. Do not thin or reduce tree height. | Proposed |

| ID | No. / Species | BS5837 Category | Purpose of works<br>Recommended works | Status |
|---|---|---|---|---|
| T510 | 1 *Quercus ilex*<br>Holm Oak | C2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce lateral growth on footpath side by 1.5m and reduce height by 1-1.5m. | |
| T512 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce defected lateral on western side of canopy by 1.5m and reduce heavy lower lateral on eastern side of canopy by 2.5m to bring in line with main crown spread. If necessary, tip reduce lateral growth in the mid canopy on eastern side by 1m to balance crown and reduce the end weight of heavy laterals. Stabilse deadwood, do not remove completely. | Proposed |
| T513 | 1 *Quercus ilex*<br>Holm Oak | C2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce northern heavy lateral by 2m and defected lateral on eastern side of canopy by 2-2.5m and western lateral growth by 1-1.5m, reduce height by 1.5m and remove deadwood. Check extent of decay on central leader and carry out further reduction if required to stabilse. Remove deadwood over footpath in eastern canopy. | Proposed |
| T514 | 1 *Quercus ilex*<br>Holm Oak | C2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce western lateral growth in the mid to low canopy overhanging the footpath by 1.5-2m and remove deadwood. | Proposed |
| T515 | 1 *Quercus ilex*<br>Holm Oak | C2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce western lateral overhanging the footpath by 3m. | Proposed |
| T516 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce western lateral overhanging the footpath by 1.5m and remove deadwood. | Proposed |
| T517 | 1 *Quercus ilex*<br>Holm Oak | C2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce western lateral growth overhanging the footpath by 2.5-3m ensuring it is clear of streetlight. | Proposed |
| T520 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce eastern lateral growth by 1-1.5m. | Proposed |
| T521 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce north-western lateral growth over footpath by 1.5m. | Proposed |
| T522 | 1 *Quercus ilex*<br>Holm Oak | C2 | Good arboricultural practice<br>Reduce crown by - Specified extent. Reduce the lenght of the heavy north-western lateral over footpath by 5-6m, ensuring low hanging growth is also reduced and install an 8T flexible brace at a point 2/3rds the height from the main union to the top of the tree, connecting the central leader with the heavy weighted limb above the road. Inspect annually. Remove deadwood. | Proposed |
| T523 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce the lowest north-western lateral growth over footpath back to growth point 1m from main stem, reduce upper lateral growth over road by 1.5m and remove deadwood. | Proposed |

| ID | No. / Species | BS5837 Category | Purpose of works<br>Recommended works | Status |
|---|---|---|---|---|
| T524 | 1 *Quercus ilex*<br>Holm Oak | B2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce eastern lateral growth to provide a 1m clearance from light. | Proposed |
| T525 | 1 *Quercus ilex*<br>Holm Oak | C2 | Good arboricultural practice<br>Reduce lateral limb / limbs. Reduce lenght extending over footpath by 3m. | Proposed |
| T526 | 1 *Cedrus deodara*<br>Deodar | A2 | Good arboricultural practice<br>Deadwood - Remove. Remove deadwood greater than 3cm diameter. | Proposed |
| | | | Good arboricultural practice<br>Cable - Insert flexible bracing system. Install two 4T flexible cable braces at a point least two-thirds up the main central stem, connecting to each of the heavy vertical laterals in the southern and south-eastern side of the canopy. | Proposed |
| T585 | 1 *Carpinus betulus*<br>Hornbeam | C2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T586 | 1 *Carpinus betulus*<br>Hornbeam | B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T587 | 1 *Carpinus betulus*<br>Hornbeam | C2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T588 | 1 *Carpinus betulus 'Fastigiata'*<br>Fastigiate Hornbeam | B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T589 | 1 *Carpinus betulus 'Fastigiata'*<br>Fastigiate Hornbeam | C2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T590 | 1 *Carpinus betulus 'Fastigiata'*<br>Fastigiate Hornbeam | C2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T591 | 1 *Carpinus betulus 'Fastigiata'*<br>Fastigiate Hornbeam | C2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T592 | 1 *Carpinus betulus 'Fastigiata'*<br>Fastigiate Hornbeam | B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T593 | 1 *Carpinus betulus 'Fastigiata'*<br>Fastigiate Hornbeam | B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T594 | 1 *Tilia sp.*<br>Lime sp. | B1/B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T595 | 1 *Tilia sp.*<br>Lime sp. | B1/B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T596 | 1 *Tilia sp.*<br>Lime sp. | B1/B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T597 | 1 *Tilia sp.*<br>Lime sp. | B1/B2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T598 | 1 *Quercus ilex*<br>Holm Oak | C1/C2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T599 | 1 *Quercus ilex*<br>Holm Oak | C1/C2 | To facilitate development<br>Fell - Ground level. | Proposed |

| ID | No. / Species | BS5837 Category | Purpose of works<br>Recommended works | Status |
|---|---|---|---|---|
| T602 | 1 *Quercus ilex*<br>Holm Oak | U | To facilitate development<br>Fell - Ground level. | Proposed |
| T603 | 1 *Quercus ilex*<br>Holm Oak | C1/C2 | To facilitate development<br>Fell - Ground level. | Proposed |
| T606 | 1 *Pyrus sp.*<br>Pear sp. | C1 | To facilitate development<br>Fell - Ground level. | Proposed |
| G607 | 1 *Buddleja davidii*<br>Buddleja | C1 | To facilitate development<br>Fell - Ground level. | Proposed |
| | 1 *Fraxinus excelsior*<br>Ash | | | |

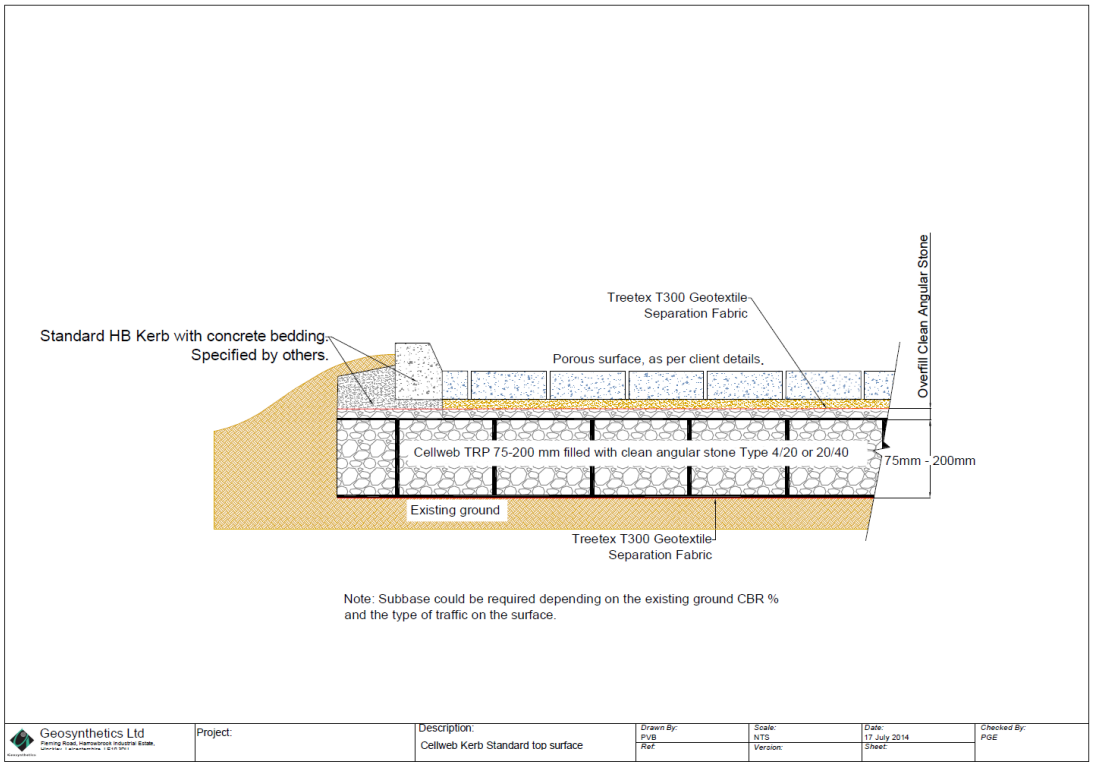
# Appendix B - Plans

| Document | Reference | Revision |
|---|---|---|
| Tree Survey & Constraints Plan | SCQ-ZZ-DR-CMC-AB-00001 | - |
| Tree Removals Plan | SCQ-ZZ-DR-CMC-AB-00002 | - |
| Tree Protection Plan | SCQ-ZZ-DR-CMC-AB-00003 | - |

# Appendix C – Stem Protection

***Image 6:*** *Example of timber stem protection.*

# Appendix D – Cellular Confinement System



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