

Arboricultural Impact Assessment (AIA)

October 2022

Whiston Hospital
Warrington Road
Prescot
L35 5DR

U R B A N
G R E E N

QUALITY MANAGEMENT

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1. Executive Summary

- 1.1.1. Urban Green has been instructed by Whiston Hospital to carry out an Arboricultural Survey to British Standard 5837:2012 guidelines at Whiston Hospital, Warrington Road, Prescott, L35 5DR and produce our findings in a report.
- 1.1.2. Trees on and within influencing distance to the site have been assessed and the effect of the development proposal on trees evaluated in accordance with current best practice.
- 1.1.3. It is proposed to build an extension for Whiston Hospital alongside landscape improvements such as soft landscaping. Full details of the proposed site layout can be seen on the plans included in Appendix 4.
- 1.1.4. The proposed development necessitates the removal of four trees within the site boundary. However, it is noted that all of these are young to semi-mature specimens. These works will have only short-term impacts of the visual quality of the tree cover. Specific details regarding tree planting, as part of a landscape proposal plan, have been produced by Urban Green (UG_1809_LAN_SL_DRW_01).
- 1.1.5. All trees to be retained can be protected in accordance with current best practice guidelines.
- 1.1.6. Before any tree works are carried out trees should first be assessed for their suitability for protected species by a suitably qualified and experienced ecologist.
- 1.1.7. Tree protection fencing, will need to be installed at the alignment shown on the Tree Protection Plan in Appendix 4 before any construction activity takes place.
- 1.1.8. Information regarding the layout of new utilities and drainage and final site levels should be submitted to the Arboricultural Consultant so that the impact of these on the retained trees can be assessed.

2. Introduction

2.1. Instructions and references

- 2.1.1. Urban Green have been instructed by Whiston Hospital to carry out an Arboricultural Impact Assessment (AIA) in accordance with BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations at the site location and produce our findings in a report to be submitted with a detailed planning application.
- 2.1.2. All trees, regardless of their statutory status, are a material consideration in a planning application. BS 5837 recognises the potential conflict between trees and development. The standard sets out to assist those concerned with trees in relation to construction and aide with decision making. This is achieved by providing impartial and balanced information on trees and their potential impacts.
- 2.1.3. The site is located in the area shown in Figure 1. The OS Grid Reference is SJ 47951 91829.

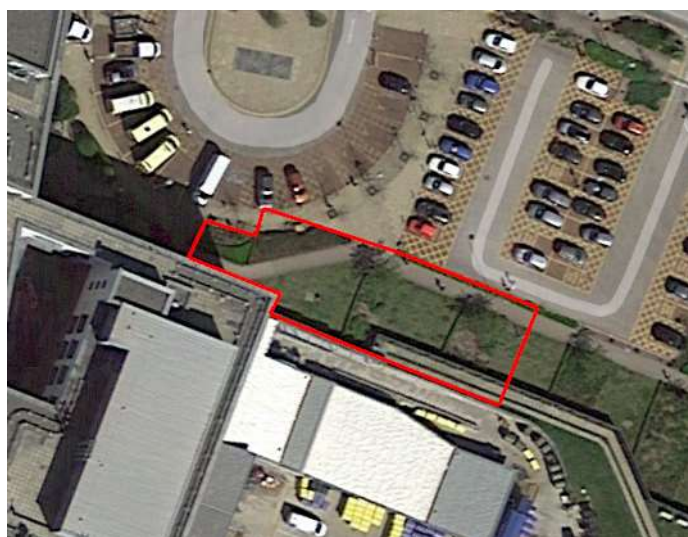


Figure 1 – Site Location Plan

2.2. Scope

- 2.2.1. The AIA takes into account any potential impacts on existing trees including the effect of any tree loss required to implement the design and recommendation for the establishment of new trees.
- 2.2.2. The AIA will also assess any potentially damaging activities proposed in the vicinity of retained trees and the effect that the retained trees may have on the development such as potential nuisance caused by excessive leaf/fruit litter, lighting levels and potential damage to structures.

2.3. Documents provided

- 2.3.1. A scaled plan has been provided with tree positions already plotted. Any extra trees found on site that were not included on the original plan have been plotted according to measurements taken on site and/or using aerial photography.
- 2.3.2. Tree locations which have been estimated are illustrated on the Tree Protection Plan in Appendix 4. The exact locations of these trees must be verified, and any discrepancies discussed with the Arboricultural Consultant before starting works on site.
- 2.3.3. A plan outlining the development proposals has been overlaid with the Tree Constraints Plan in order to assess the potential impacts.

2.4. Limitations

- 2.4.1. The report is based upon a visual inspection. The consultant shall not be responsible for events that happen after the date of the report due to factors that were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.
- 2.4.2. The consultant accepts no liability in respect of the trees unless the recommendations of this report are carried out under his supervision.
- 2.4.3. Assessing the potential influence of trees upon load bearing soils, beneath existing and proposed structures resulting from water abstraction by trees or rehydration of shrinkable soils was not included in the contract brief and is therefore not considered in the report. The consultant cannot be held responsible for damage arising from such action.
- 2.4.4. Trees are living organisms whose health, condition and structure can change over time. The contents of this report are valid for a period of one year from the date of the report.
- 2.4.5. Potentially hazardous trees are highlighted, and appropriate recommendations are made. However, this report is not a substitute for a full tree risk assessment or management plan which are specifically designed to minimise risk and liability associated with responsibility for trees.

2.5. The Site

- 2.5.1. The site is Whiston Hospital and comprises of a working hospital. The site is bounded by Warrington Road and residential properties to the north, Stoney Lane, with residential properties. and an industrial estate to the south; and residential properties to the east and west boundaries.

2.6. Geology

- 2.6.1. Reference to the British Geological Survey (<https://www.bgs.ac.uk/>) indicates that the underlying geology of the site is Till, Devensian.
- 2.6.2. Further reference to the Cranfield Soil and AgriFood Institute Soilscales viewer (www.landis.org.uk) suggests that the soil present within the site is likely to have a loamy and clayey texture, the soils are further described as slowly permeable, seasonally wet, slightly acidic with moderate fertility.
- 2.6.3. The presence of a clay element within the soil is important in terms of both tree protection and foundation design. Clay soils can be subject to considerable volume changes when vegetation extracts moisture from the ground (subsidence) and they are also prone to compaction when wet. On this basis it is essential that all recommended tree protection measures are implemented in full and are not eased at any point throughout the course of the development. Any foundations should also be designed in accordance with NHBC chapter 4.2 and should account for the possibility of both subsidence and heave.

3. Legislation

3.1. Tree protection status

- 3.1.1. A Tree Preservation Order (TPO) is an order made by a Local Authority to protect specific trees, groups of trees or woodlands in the interests of amenity. A TPO prohibits the cutting down, topping, lopping, uprooting and wilful damage or destruction of trees without the Local Authority's written consent.
- 3.1.2. A check was made with Knowsley Council interactive planning map on 27/10/2022, the map shows that there is a TPO within the grounds of Whiston Hospital (Ref No: 05/00007/TPO), the TPO is approximately 135m from the provided site boundary and is therefore outside of any potential influencing distance of the site. It has been further confirmed that the site is not located within a Conservation Area.
- 3.1.3. It is recommended that the Local Authority is consulted before any tree works are undertaken, as new TPOs may have been created since the time of enquiry, and heavy fines exist for unauthorised works to protected trees.
- 3.1.4. All works to trees covered by a TPO require permission from the Local Authority, including any pruning. However, this does not include trees that are dead or have become dangerous. The removal of dead branches is also excluded from a TPO. Although the above exceptions exist, it is advisable to give the Local Authority five days' notice in writing of any intended removal. Permission is not needed where tree work is required to implement an approved planning application.
- 3.1.5. It is an offence to remove more than 5m³ of timber in any one calendar quarter without having first obtained a felling licence from the Forestry Commission. It must be noted, however, that this excludes sites where planning permission has already been granted.

3.2. Wildlife

- 3.2.1. Prior to the commencement of any tree works, the trees should be assessed for the presence of protected species, some of which are subject to the *Wildlife and Countryside Act 1981* (as amended) and the *Conservation of Habitats and Species Regulations 2017*.
- 3.2.2. Where there is evidence that bats, birds or other protected species are present, the advice of a suitably qualified ecologist should be sought.
- 3.2.3. If tree works are carried out during the bird nesting season (March to September inclusive), trees would need to be inspected by a qualified ecologist no more than 48 hours prior to the commencement works.

4. Arboricultural Impact Assessment (AIA)

4.1. Summary of the development

- 4.1.1. It is proposed to build an extension for Whiston hospital alongside landscape improvements such as soft landscaping. Full details of the proposed site layout can be seen on the plans included in Appendix 4.

4.2. Tree constraints

- 4.2.1. BS 5837:2012 recognises that conflicting requirements of the planning system for development means that trees are only one factor which need to be taken into consideration. Although there may be certain specimens that can pose significant constraints to development due to their importance, it is essential that inappropriate tree retention is avoided.
- 4.2.2. Trees can be adversely affected on development sites if their protection is not factored into the wider project management of onsite operations. We have transposed the tree survey plan over plans detailing current proposals in order to assess the impact on surveyed trees.
- 4.2.3. It is essential that roots are protected from construction works including physical damage from excavation and changes in soil structure from compaction and changes in ground levels.

4.3. Root Protection Areas (RPAs) explained

- 4.3.1. The RPA is an area of ground around the base of a retained tree, which is calculated in relation to the stem diameter, where disturbance should be kept to a minimum and avoided if at all possible.
- 4.3.2. The majority of tree roots grow within the upper 600mm of the soil profile where most nutrients are available as the result of the decomposition of organic matter close to the surface. Rooting conditions become less favourable at depth as the soil density increases, creating anaerobic conditions.

4.4. Surveyed Trees

- 4.4.1. The survey assessed seven individual trees, the quality and value of which are summarised below.
- 4.4.2. Two trees were assessed as BS 5837: 2012 `Moderate Quality` retention category B and five trees were assessed as `Low Quality` retention category C, as detailed in the survey schedule at Appendix 1.
- 4.4.3. All of the surveyed trees are either within or on the boundaries of the application site.
- 4.4.4. The tree cover comprises mainly of young, low quality ornamental planting with the exception of T5 and T6 which are more mature and have a higher visual amenity.

4.5. Impacts of development

- 4.5.1. `Moderate Quality` B category trees T5 and T6, `Low Quality` C category trees T1 and T2 will require removal to facilitate the development. Full Details of all removals can be found in the Tree Work Schedule attached as Appendix 4.
- 4.5.2. The removals are associated with the current land use and are relatively new ornamental planting located internal to the site. There will be some localised loss of visual amenity in the short-term which will be mitigated by the provision of new trees and landscaping.
- 4.5.3. Specific details regarding tree planting, as part of a landscape proposal plan, have been produced by Urban Green (UG_1809_LAN_SL_DRW_01) which provides suitable mitigation for the tree losses as a result of this development.
- 4.5.4. In addition to any new planting, consideration should be given to transplanting T1, T2, T5 and T6 instead of removal as all trees are a suitable size for transplanting, this would allow the retention of these trees whilst moving them to a more suitable location elsewhere on site.
- 4.5.5. All remaining vegetation can be protected in accordance with best practise.
- 4.5.6. Existing hard surfaces within the RPAs of T3 and T4 can be retained as temporary ground protection.

4.6. Tree surgery works

- 4.6.1. Tree works that are recommended within the Tree Works Schedule (Appendix 4) are works required to facilitate development and also include details or remedial works. Tree works stated in the Tree Data Schedule (Appendix 1) are of a general maintenance nature and can be carried out at any time as per recommendations.
- 4.6.2. Tree works required to facilitate the development will be carried out prior to the commencement of any onsite operations. This should allow sufficient space for approved construction to be carried out.
- 4.6.3. Any unforeseen tree works that become apparent during the construction process will require written consent from the Local Authority Tree Officer.

4.7. Protective fencing

- 4.7.1. Temporary protective fencing will need to be installed at the alignment indicated on the Tree Protection Plan in Appendix 4, prior to the commencement of any construction activities on site including the delivery of materials and site facilities.
- 4.7.2. Any fencing that is damaged so that it is no longer able to protect retained trees must be replaced/repared immediately with appropriate fencing.
- 4.7.3. The required specification for protective fencing is illustrated in the Tree Protection Plan (Insert 1).
- 4.7.4. The 'in-ground' system involves driving vertical scaffold poles approximately 0.6m into the ground onto which are affixed horizontal scaffold poles and bracing struts. 2m high anti-climb weldmesh panels are then wired to the scaffold framework. The vertical scaffold poles should be at a maximum of 3m apart.
- 4.7.5. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to the tree roots when locating uprights.
- 4.7.6. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" shall be fixed to every 10m of protective fencing, as illustrated on the Tree Protection Plan (Insert 2).

4.8. Ground protection for pedestrians or light vehicles

- 4.8.1. The primary method of ground protection is the installation of a compressible layer (e.g. woodchip) over a geotextile fabric with side butting scaffold boards.
- 4.8.2. Ground protection measures whilst working the RPA must be capable of supporting the expected loads and avoid compaction of the soil.
- 4.8.3. The boarding will be left in place until the construction works are finished.
- 4.8.4. Scaffolding may first be erected with the uprights on spreader boards and the ground protection installed around the uprights.

4.9. Temporary tree guard

- 4.9.1. Where space is limited, it is sometimes necessary to construct a temporary tree guard to physically protect the main stem of the tree.
- 4.9.2. It may be possible to utilise a temporary tree guard around T3 and T4 during the development as the existing hard standing within their RPAs can act as suitable ground protection.
- 4.9.3. This should be made by joining together 4 X 25mm Exterior Grade pieces of plywood to 47mm X 47mm treated timber posts to create a box shaped frame which is attached to the ground or adjacent structures. No fixings are to be made to the tree and suitable ground protection should be employed within the RPA of the tree.

4.10. Temporary site cabins

- 4.10.1. All storage facilities and deliveries will make use of existing hard surfaces to avoid unnecessary compaction within RPAs. The locations will be agreed in writing with the LPA prior to delivery and will remain in the agreed locations unless approved by the LPA.
- 4.10.2. If storage facilities require siting within RPAs, every effort will be made to ensure that any damage to aerial parts of retained trees is avoided and that appropriate footings are used to avoid root damage or compaction of the soil.

4.11. Utilities

- 4.11.1. At the time of writing Urban Green have not been made aware of any new utilities or service runs that will be associated with the development. Where utilities need to be brought onto the site, these should be routed away from the RPAs of retained trees. Where this is not possible, methodologies on the installation of underground services without damaging the tree roots should be considered.

4.12. Recommendations

- 4.12.1. All operations that could affect trees on and adjacent to the site must be considered as part of the project management of the Proposed Development. It is therefore recommended that an Arboricultural Consultant is appointed as part of the design and management team to advise on pre-development issues and supervise on-site operations.
- 4.12.2. The Arboricultural Consultant may also have an advisory role in the preparation of site including tree surgery works and the protection of trees during demolition processes.
- 4.12.3. The Arboricultural Consultant shall be responsible for inspecting all protective fencing prior to the commencement of all onsite activity.

Appendix 1 – Tree Data Schedule

The following pages contain information gathered during the site survey. The reader should refer to Appendices 2 and 3 in order to correctly interpret the tree data.

Reference T = Tree G = Group H = Hedge W = Woodland	Age & Species	Height (m)	Crown Ht (m)	DBH (mm)	Crown Spread (m) N W E S	Notes	Recommendations		Physiological Condition	Life Expectancy (yrs)	RPA Radius
							Priority	Inspect Freq (yrs)	Structural Condition	Retention Category	(m)
T1	Young Red Oak Quercus rubra	6	3	100	2.5 2	1: Growing within tree pit. 2: Pruning wounds noted on stem due to crown raising. 3: No major visible defects.	No action required.		Good	40+	1.20
							n/a	3	Good	C1	
T2	Young Red Oak Quercus rubra	6	2.5	80	3 2 1.5	1: Growing within tree pit. 2: Pruning wounds noted on stem due to crown raising. 3: No major visible defects.	No action required.		Good	40+	0.96
							n/a	3	Good	C1	
T3	Young Red Oak Quercus rubra	6	2	90	1.5 2	1: Growing within tree pit. 2: Pruning wounds noted on stem due to crown raising. 3: No major visible defects.	No action required.		Good	40+	1.08
							n/a	3	Good	C1	
T4	Young Sessile Oak Quercus petraea	6	3	90	1.5 2 1.5	1: Growing within tree pit. 2: Pruning wounds noted on stem due to crown raising. 3: No major visible defects. 4: Northern canopy spread encroaching utility light and sign, 100mm clearance at present.	No action required.		Good	40+	1.08
							n/a	3	Good	C1	
T5	Semi-Mature Wild Cherry Prunus avium	6.5	2	190	4 3 3	1: Planted specimen growing within ornamental rose bed. 2: No major visible defects. 3: Currently poses no significant. 4: Canopy overhangs footpath with 2.5m clearance at present.	No action required.		Good	40+	2.28
							n/a	3	Good	B1	
T6	Semi-Mature Wild Cherry Prunus avium	6.5	3	180	3 3.5 3	1: Planted specimen growing within ornamental rose bed. 2: No major visible defects. 3: Currently poses no significant. 4: Canopy overhangs footpath with 2.5m clearance at present. 5: Pruning wounds noted due to crown raising.	No action required.		Good	40+	2.16
							n/a	3	Good	B1	

Reference T= Tree G = Group H = Hedge W = Woodland	Age & Species	Height (m)	Crown Ht (m)	DBH (mm)	Crown Spread (m) W N E S	Notes	Recommendations		Physiological Condition	Life Expectancy (yrs)	RPA Radius
							Priority	Inspect Freq (yrs)	Structural Condition	Retention Category	(m)
T7	Semi-Mature Wild Cherry Prunus avium	6	2	140	2.5 3.5 3	1: Growing within ornamental planting bed. 2: No major visible defects. 3: Currently poses no significant. 4: Canopy overhangs footpath with 2.5m clearance at present. 5: Small pruning wounds noted.	No action required.		Good	40+	1.68
							n/a	3	Good	C1	

Appendix 2 - Tree Schedule Definition of Terms

Tree Referencing	Individual Trees T (+number) Grouped Trees G (+number) Hedgerows H (+number) Woodlands W(+number)
Age Category	Young Usually <15 years Semi-mature Significant growth expected, approximately one third of life expectancy complete Early-Mature Full height achieved with further significant growth possible, up to two thirds of life expectancy complete Mature Full height has been achieved with possible spreading of the canopy, usually past two thirds of overall life expectancy Veteran Usually a tree of significant age with characteristics that give additional cultural, landscape and conservation benefits, Over-mature A tree declining due to age as indicated by deterioration in the health and condition of its crown and trunk.
Species	Botanical Name conforming to the International Code of Nomenclature for algae, fungi, and plants (ICN). For universal plant recognition. Common Name commonly used names usually on a local and national scale.
Tree Height	The vertical distance between the base of the tree (where soil and buttress meet) and the tip of the highest branch on the tree.
Crown Height	Measured from ground level to the height at which the main crown begins.
Stem Diameter (DBH)	Stem diameter is measured at 1.5 m above ground level
Crown	Measurements taken from all four cardinal points in metres.
Notes	Notes are made to inform of any possible defects, peculiarities or points of interest that may relate to the trees position, physiology, safety and possible effects on developments.
Recommendations	Recommendations are made in accordance to good arboricultural practice. Recommendations are made regardless to the end usage of the site.
Priority Scale	Priority is given dependant on the perceived threat and the likelihood of failure given to a possible hazard. The priority of work is given regardless of the end usage of the site. Urgent To be carried out as soon as possible. Very High To be carried out within 1 month. High To be carried out within 3 months. Moderate To be carried out within 1 year. Low To be carried out within 3 years.
Physiological Condition:	Good Usually healthy with no symptoms of poor health or disease. Fair Exhibiting signs of poor health or minor disease infections that are not considered to be hazardous. Poor Disease present in considerable quantities or with very poor physiological vigour. Very Poor Tree is in a moribund state in extremely poor condition, usually with little chance of recovery.
Structural Condition:	Good A tree with no significant structural defects. Fair Minor defects may have been observed but are not considered to be immediately hazardous. Poor Significant defects found. Tree requires monitoring or remedial works. Very Poor Major defects that require immediate remedial work or the removal of the tree.
Visual Amenity	General significance in the landscape (1 - Low, 2 - Moderate, 3 - High 4 - Very high)
Life Expectancy:	The estimated number of years before the tree may require removal should no unexpected mechanical or environmental impacts occur to the tree.
Retention Category:	Please refer to Tree retention categorisation table on the next page.

Appendix 3 – Tree Retention Category

The following table provides an explanation of retention categories used.

Trees to be removed		Colour on Plan
Category U Includes trees of very low quality that offer little or no amenity value.	Trees that are in such a condition that they should be removed as a matter of good arboricultural practice regardless of given proposals.	RED
Trees to be considered for retention		
Category A Trees of a high quality, with an estimated life of expectancy of at least 40 years	Trees that are excellent examples of their species, usually mature, especially if rare or unusual including veteran trees. Category A trees are likely to enhance a development and should be retained wherever possible.	GREEN
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	Trees that are good examples of their species. B category trees are usually mature or younger trees with the potential to reach A category in the future. Although the retention of these trees is desirable, some losses may be acceptable.	BLUE
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm.	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories.	GREY

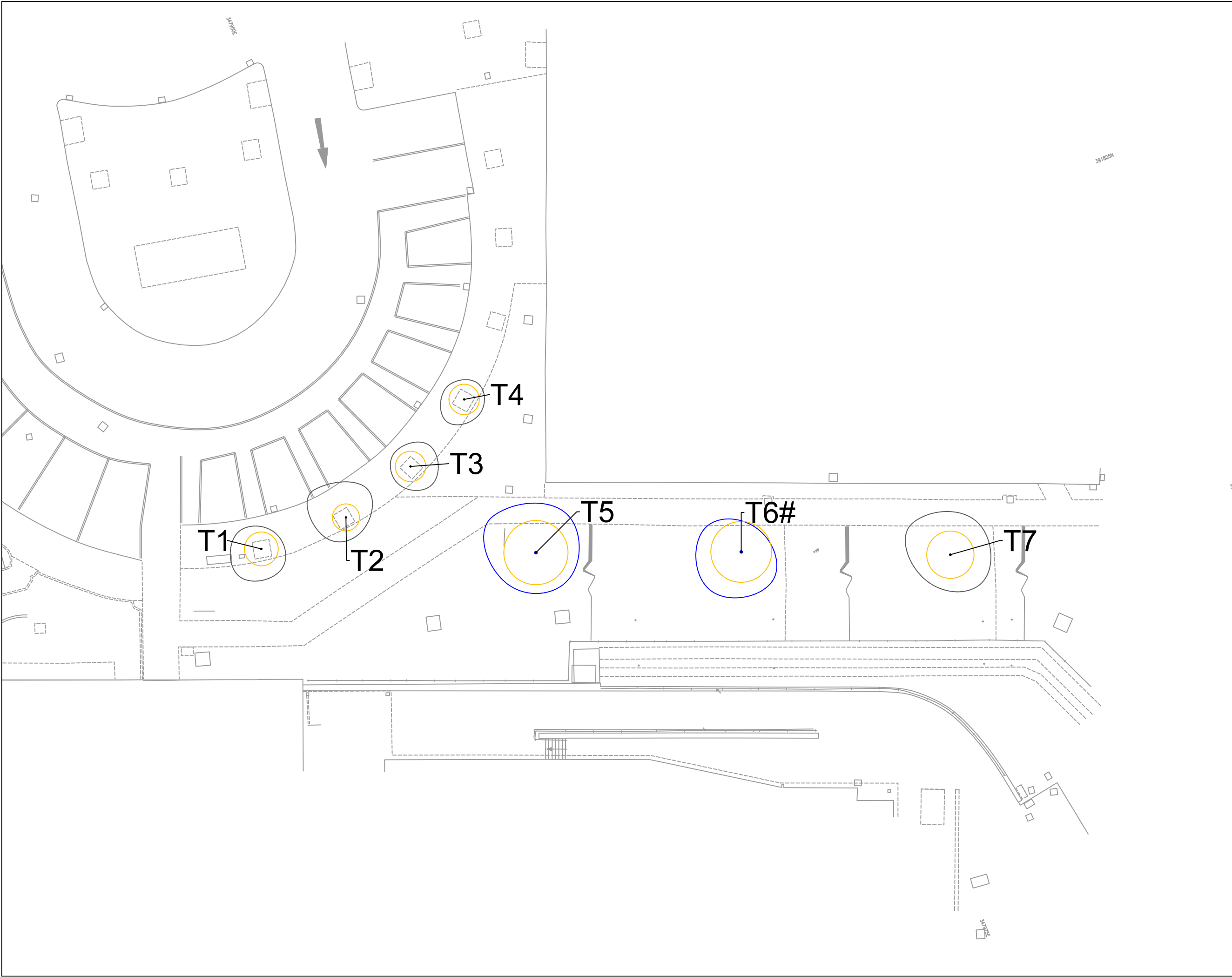
NOTE: Trees that are viewed as borderline and do not fit neatly into either of the categories are given a plus or minus rating (+/-) in the tree data schedule. Therefore, C+ would denote a tree being borderline C/B although C is deemed to be the most appropriate category. Similarly, B- would denote a tree being borderline B/C with B seen as the most appropriate category.

Appendix 4 - Site Plans

The site plans referred to in the report follow this page which include the following:

- Tree Constraints Plan
- Tree Removal Plan
- Tree Works Schedule
- Tree Protection Plan
- Tree Protection Inserts

Although included plans are usually to scale, they are only intended to indicate positions of surveyed trees and dimensions should not be taken from these drawings.



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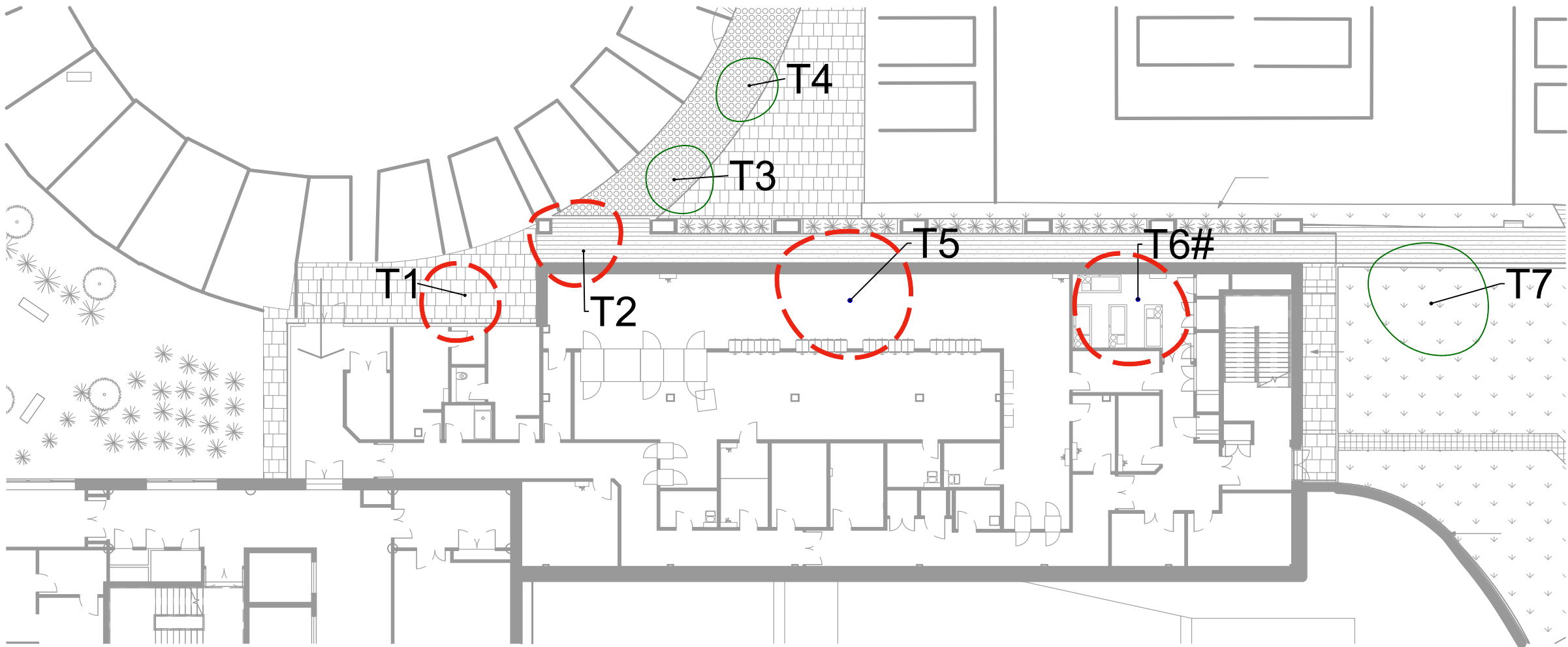
Graphical representations of equipment on this drawing have been co-ordinated, but are approximations only. Please refer to the specifications and / or details for actual sizes and / or specific contractor construction information.

Notes:-



Category A tree, group or hedge
Category B tree, group or hedge
Category C tree, group or hedge
Category U tree, group or hedge
Root Protection Area (RPA)
Position estimated on site

REV.	DATE	DESCRIPTION	DRAWN	CHK'D	
U R B A N G R E E N A: Ground Floor, The Tower, Deva City Office Park, Trinity Way, Manchester M3 7BF T: +44 (0) 161 312 3131 weareurbangreen.co.uk					
Client:		WHINSTON HOSPITAL			
Project:		WHINSTON HOSPITAL			
Title:		TREE CONSTRAINTS PLAN			
Issue:		PLANNING			
Drawn:	RH	Checked:	MK	Approved:	MK
Project:	UG1809	Scale @ A3:	1:250	Date:	27/10/22
Dwg No:	UG_1809_ARB_TCP_01			Revision:	00



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Notes:-



-  Category A tree, group or hedge
-  Category B tree, group or hedge
-  Category C tree, group or hedge
-  Category U tree, group or hedge
-  Retained tree
-  Removed tree
-  Position estimated on site

REV.	DATE	DESCRIPTION	DRAWN	CHK'D



A: Ground Floor, The Tower,
Deva City Office Park, Trinity Way,
Manchester M3 7BF

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weareurbangreen.co.uk

Client: **WHINSTON HOSPITAL**

Project: **WHINSTON HOSPITAL**

Title: **TREE REMOVAL PLAN**

Issue: PLANNING		
Drawn: RH	Checked: MK	Approved: MK
Project: UG1809	Scale @ A3: 1:250	Date: 27/10/22
Dwg No: UG_1809_ARB_TRP_01	Revision: 00	

TREE WORKS SCHEDULE

Tree Number	BS5837: 2012 Category	Species	Works Required	Reason
T1	C	Red Oak	Fell to ground level and grind out stumps	To facilitate development
T2	C			
T5	B	Wild Cherry		
T6	B			

REV.	DATE	DESCRIPTION	DRAWN	CHK'D

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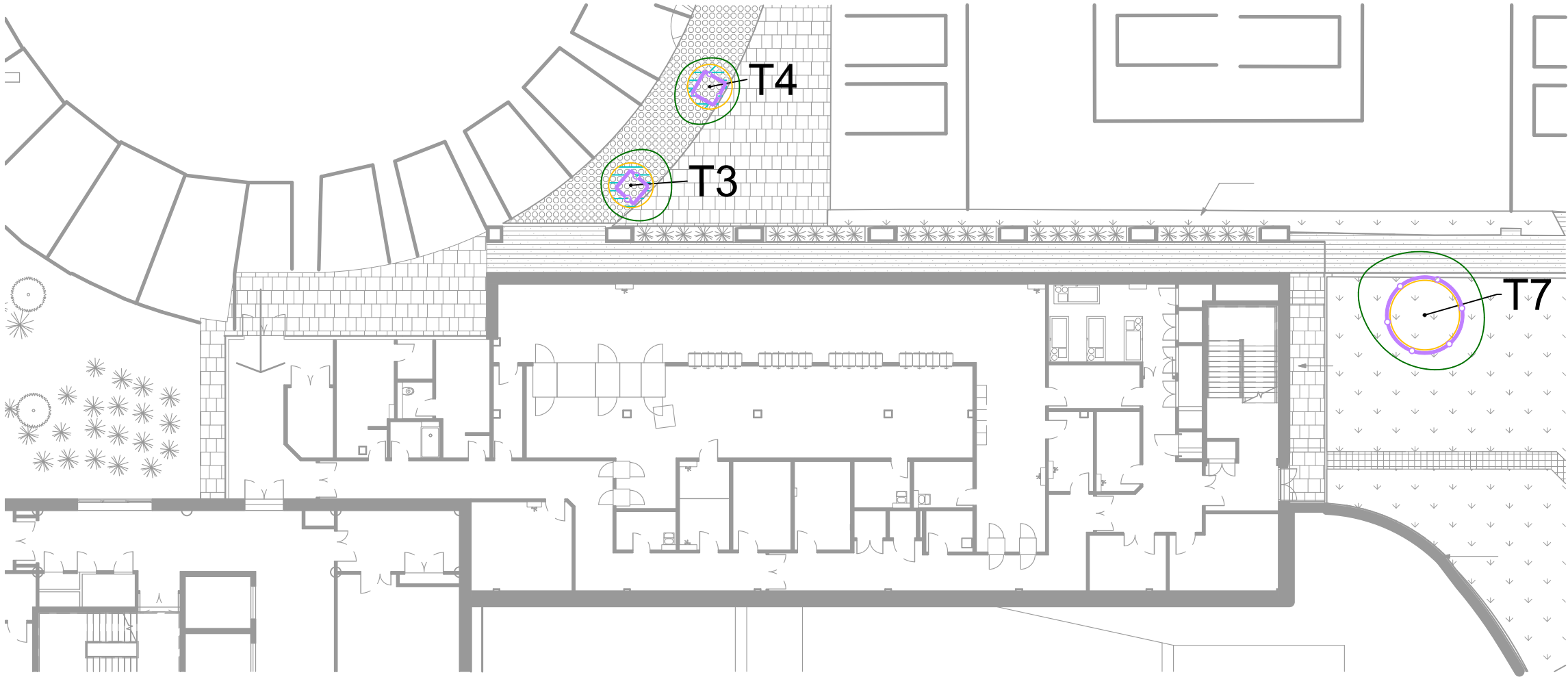
Client:
WHINSTON HOSPITAL

Project:
WHINSTON HOSPITAL

Title:
TREE WORKS SCHEDULE

Issue:
PLANNING

Drawn:	RH	Checked:	MK	Approved:	MK
Project:	UG1809	Scale @ A3:	NTS	Date:	27/10/22
Dwg No:	UG_1809_ARB_TWS_01			Revision:	00



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Graphical representations of equipment on this drawing have been co-ordinated, but are approximations only. Please refer to the specifications and / or details for actual sizes and / or specific contractor construction information.

Notes:-



-  Category A tree, group or hedge
-  Category B tree, group or hedge
-  Category C tree, group or hedge
-  Category U tree, group or hedge
-  Retained tree
-  Root Protection Area (RPA)
-  Position estimated on site
-  Protective fencing (See Insert 1 & Insert 2)
-  Ground protection (Existing hard standing)

REV.	DATE	DESCRIPTION	DRAWN	CHK'D



A: Ground Floor, The Tower,
Deva City Office Park, Trinity Way,
Manchester M3 7BF

T: +44 (0) 161 312 3131

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Client: **WHINSTON HOSPITAL**

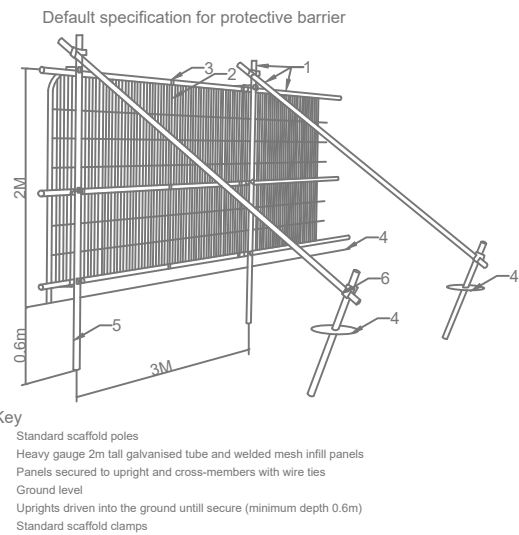
Project: **WHINSTON HOSPITAL**

Title: **TREE PROTECTION PLAN**

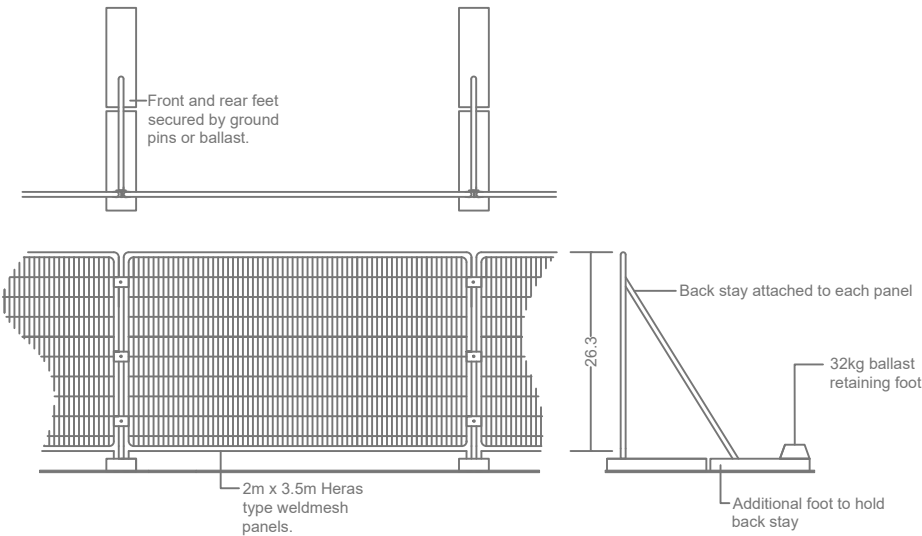
Issue: **PLANNING**

Drawn:	RH	Checked:	MK	Approved:	MK
Project:	UG1809	Scale @ A3:	1:250	Date:	27/10/22
Dwg No:	UG_1809_ARB_TPP_01			Revision:	00

Insert 1: Tree protective fencing specification



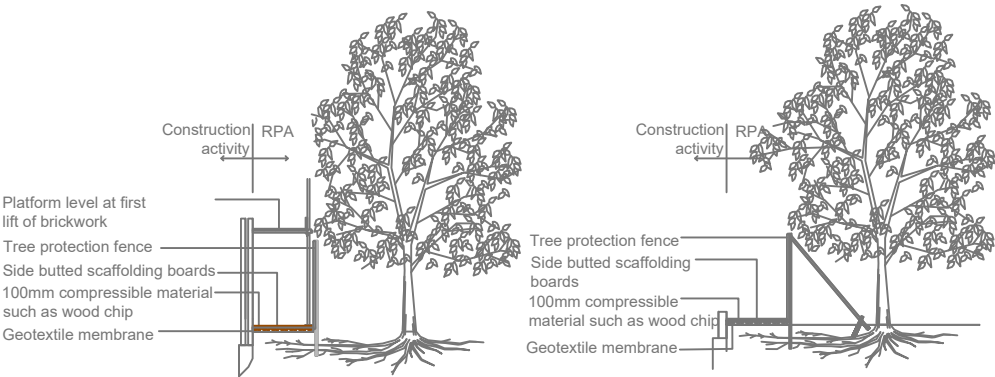
Back-stay support



Insert 2: Tree protection notice



Insert 3: Ground protection specification



Do not scale this drawing (printed or electronic version).

Contractors must check all dimensions from site

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Notes:-

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Client:	WHINSTON HOSPITAL		
Project:	WHINSTON HOSPITAL		
Title:	TREE PROTECTION INDEX		
Issue:	PLANNING		
Drawn:	RH	Checked:	MK
Project:	UG1809	Scale @ A3:	NTS
Dwg No:	UG_1809_ARB_TPI_01	Date:	27/10/22
		Revision:	00