

GEOSPHERE ENVIRONMENTAL

REPORT TYPE: Arboricultural Survey

REPORT NUMBER: 8421,AR,ARB,TC,TA,KL,01-05-24,V1

SITE: Hinckley & District Hospital, Phase 2, Mount Road,
Hinckley, LE10 1AG

DATE: 01/05/2024



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VERSION RECORD

Version:	Date:	Details:	Author(s):	Reviewed By:	Authorised By:
1	01-05-24	Original version	Tom Cox Senior Ecological and Arboricultural Consultant	Tracy Amies Ecological and Arboricultural Consultant	Katie Linehan Technical Director of Ecology

Executive Summary

Report Description	Geosphere Environmental Limited was commissioned by NHS Property Services Ltd to undertake an Arboricultural Survey of the land at Hinckley & District Hospital, Phase 2, Mount Road, Hinckley, LE10 1AG. The site is located at National Grid Reference (NGR) SP 4295 9372. The report relates to the assumed redevelopment of the site for use as a general hospital. At present a development plan has not been produced for the scheme. The site covers an area of approximately 0.4 hectares (ha). This and the immediate surrounding area were surveyed.
Summary of Main Findings	The Tree Constraints Plan, Drawing ref. 7257,EC,AR/001/Rev0 in Appendix 6, shows the locations of all the trees surveyed with the canopy and root protection area plotted on the plan. A total of nineteen trees and eleven groups were surveyed. Two trees and no groups were classed as category A trees. Ten trees and one group were classified as category B trees. Seven trees and ten groups were classified as category C trees. No trees or groups were categorised as category U trees. The BGS digital mapping indicated that the site comprised a bedrock layer of Mercia Mudstone Group - Mudstone, with a recorded superficial layer of Oadby Member - Diamicton. These soils potentially contain cohesive materials which could indicate a risk of shrink / swell that should be considered during foundation design. Hinckley and Bosworth Borough Council Online Planning map (ref. R.8) was consulted on 24 April 2024 and confirmed that there are no Tree Preservation Orders onsite; however, the north and part of the western ownership boundaries are adjacent to a Conservation Area; however, the designated development site boundaries do not abut the Conservation Area. This is shown on the Tree Preservation Order Plan, Drawing ref. 8421,AR/001/Rev0.
Preliminary Implications Assessment	The following trees will be impacted upon by development: • T8, G4, G5, G6 – Category C – These trees have been surveyed but are due to be removed as part of an adjacent development. • G9 – Category C – This group will likely need to be removed to facilitate the development. • T6, T7, T9, T10, G8 – Category B, C – These trees are located around the edges of the development zone and therefore should be possible for retention providing adequate tree protection measures are put in place. • T1-T5, T11-T19, G1-G3, G7, G10, G11 – Category A, B,C – Although these trees are within the ownership boundary of the site, they are outside of the development zone and will not be impacted by the development.
Recommendations	The Tree Constraints Plan should be consulted to ensure that the constraints posed by the trees are taken into account when designing the proposed development. For example, retained trees could be retained as part of open space within the wider ownership boundary.

A Tree Retention Plan and a Tree Protection Plan will need to be designed once the layout of the development area has been finalised. This will include locations of trees to be retained, finalised locations of protective barriers, construction exclusion zones, and any other protection that trees will require prior to commencement of construction. An Arboricultural Method Statement, Arboricultural Implications Assessment and Tree Management Plan should be supplied with the Tree Protection Plan.

This Executive Summary only provides a summary of the site data and its assessment. It is recommended that the reader reviews the report in its entirety and any material referenced therein.

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1. INTRODUCTION

1.1 General

Geosphere Environmental Limited was commissioned by NHS Property Services Ltd, to undertake an Arboricultural Survey of the site at Hinckley & District Hospital, Phase 2, Mount Road, Hinckley, LE10 1AG.

Any limitations and conditions pertaining to the report are stated within Appendix 1, with a full list of technical references provided within Appendix 2.

The red line development boundary covers an approximate area of 0.4 hectares (ha) and is located at National Grid Reference (NGR) SP 4295 9372.

The site boundary is shown on Figure 1 below:

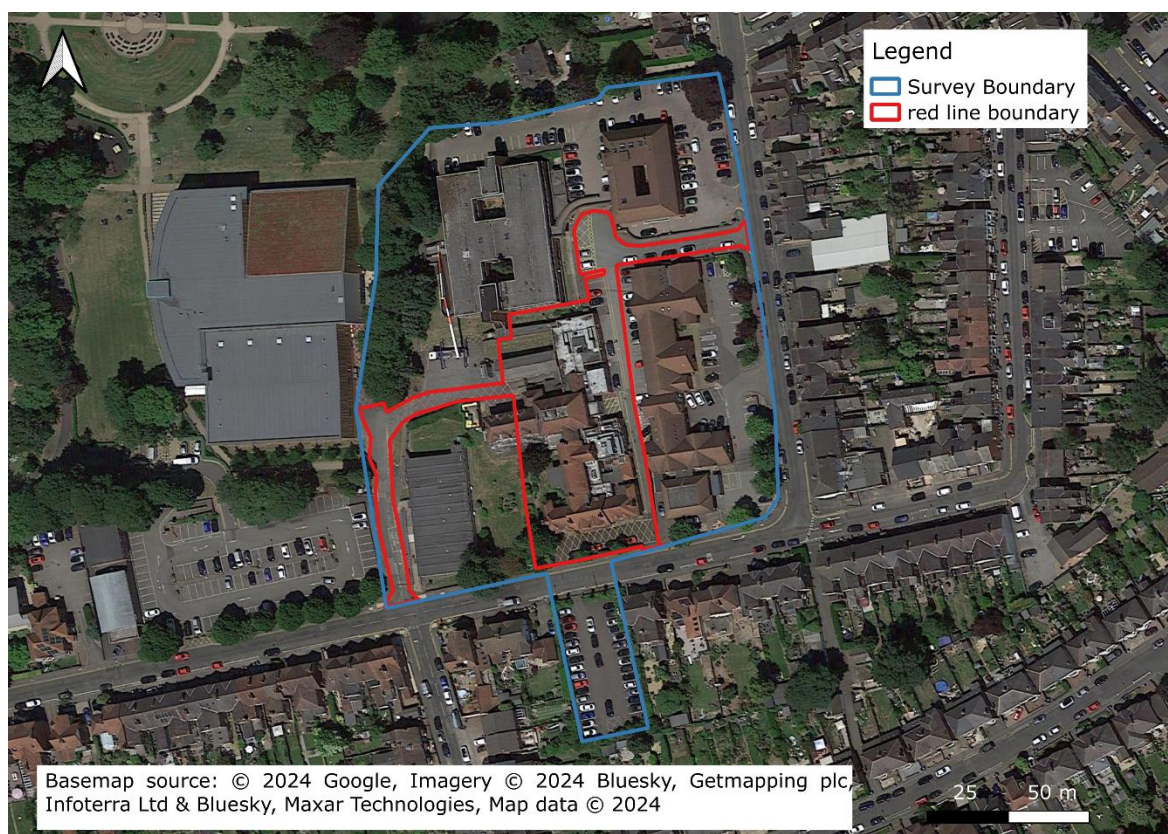


Figure 1 – Application boundary (red outline), client ownership (blue outline)

1.2 Aims

This report has been prepared to support a planning application. It provides baseline data for an arboricultural assessment of the site and identifies the tree constraints and root protection areas of trees on or near the site, which may be affected by future development.

2. TECHNICAL APPROACH

2.1 Personnel

This report was produced by Tom Cox HND TechArborA Senior Ecological and Arboricultural Consultant, who is experienced in Arboricultural consultancy including surveys and impact assessments. This report was reviewed by Tracy Amies BSc Ecological and Arboricultural Consultant and approved by Katie Linehan BSc (Hons) MSc PIEMA MCIEEM (Technical Director), who is experienced in both ecological and arboricultural consultancy including the production of reports and impact assessments.

All surveyors used to establish baseline information are suitably qualified and experienced; surveyors' names and qualifications, if not detailed above, are included below.

2.2 Arboricultural Survey

The arboricultural survey has been undertaken in general accordance with BS 5837:2012 (ref. **R.1**). The recommendations for tree remediation works are in accordance with current legislation and guidance, including BS 3998: 2010, 'Tree work – Recommendations' (ref. **R.2**).

The data collected during this survey is based entirely upon arboricultural grounds and reflects the condition of the trees on the day the survey was undertaken. The locations of the trees were detailed on a topographical survey provided by the client. All locations of trees are assumed to be correct. Any trees not noted on the topographical plan have been added where appropriate during the tree survey.

Scientific names and common names of plant species identified are as they appear in Stace (ref. **R.3**). For species not listed in Stace, scientific and common names were taken from Johnson and More (ref. **R.4**).

The survey was undertaken by Tom Cox on 25 April 2024 to record data relevant to the assessment of the trees on and adjacent to the site.

2.3 Soil Assessment

A desk-based assessment of the soil was undertaken to determine potential for volume changing soils onsite, using BGS mapping (ref. **R.5**).

2.4 Site Specific Limitations

Trees were surveyed without undertaking vegetation clearance.

Some trees were covered with ivy which limited the visibility of the stem size and structure. This may have increased the margin of error when recording measurements and assessing the quality of the trees. In cases where the trees were obscured or inaccessible, the parameters which could not be accurately measured were estimated as per BS 5837: 2012 (ref. **R.1**).

3. TREE SURVEY

3.1 Site Description

The site comprises a district hospital with associated buildings, parking and hardstanding, the majority of the trees onsite are located around the boundaries.

The site was bordered to the north by Argents Mead Park. To the west is Hinckley Leisure Centre and to the east and south the site is surrounded by residential development.

3.2 Tree Survey Results

The results of the tree survey are shown within the Tree survey schedule in Appendix 3. A full description of the surveyed parameters is included in the survey schedule description in Appendix 4. A key to the scientific names used is attached within Appendix 5. The results are summarised below:

- A total of nineteen trees and eleven groups were surveyed.
- Two trees and no groups were classed as Category A trees. This is the highest classification available under BS 5837:2012. These trees are of high quality and confer particular visual importance on the landscape. These trees are likely to be required to be protected during the development.
- Ten trees and one group were classified as Category B trees. These trees are of moderate quality and confer considerable importance on the landscape. These trees should be retained where possible during development.
- Seven trees and ten groups were classified as Category C trees. These trees are of low quality and confer lower levels of benefits to the landscape. The local authority may find it acceptable to remove these trees during development.
- No trees or groups were categorised as Category U trees. These trees are of poor condition and are unlikely to provide significant value to the landscape for more than 10 years. The local authority should find it acceptable to remove these trees during development.
- Any trees with issues of calculations of RPAS e.g., if roots are in unfavourable conditions such as Made Ground or within planters.

3.3 Tree Constraints Plan

A Tree Constraints Plan, Drawing ref. 7257,EC,AR/001/Rev0 has been prepared for the site and is attached within Appendix 6.

The Tree Constraints Plan describes the constraints that the trees may place on the development. The tree canopy and root protection area have been calculated using the stem diameter as per BS 5837:2012 (ref. **R.1**).

3.4 Soil Assessment

The BGS digital mapping (ref. **R.5**) indicated that the site comprised a bedrock layer of Mercia Mudstone Group – Mudstone, with a recorded superficial layer of Oadby Member - Diamicton. These soils potentially contain cohesive materials and therefore there is a risk of shrink swell soil present onsite. A further site investigation should be undertaken to confirm the findings of the BGS digital maps.

The combination of shrinkable soils and trees, hedgerows or shrubs represents a hazard to structures that requires special consideration. Trees and hedgerows can take moisture out of the ground. In cohesive soils this can cause volume change resulting in ground movement, and damage to building foundations.

In order to minimise the risk, foundations should be designed in accordance with NHBC Standards Chapter 4.2 Building near Trees, (ref. **R.6**).

3.5 Permissions and Council Restrictions

Hinckley and Bosworth Borough Council Online Planning Map (ref. **R.8**) was consulted on 24 April 2024 and confirmed that while there are no Tree Preservation Orders onsite, the north and part of the western ownership boundaries are adjacent to a Conservation Area; however, the designated development site boundaries do not abut the Conservation Area. This is shown on the Tree Preservation Order Plan, Drawing ref. 8421/001/Rev0 in Appendix 6.

It is advisable to contact the local authority regarding Tree Preservation Orders and Conservation Areas before any tree works are conducted, as new Tree Preservation Orders can be made subsequent to the issuing of this report.

4. PRELIMINARY ARBORICULTURAL IMPACT ASSESSMENT

4.1 Proposed Development

A proposed development plan has not been completed at this stage of the design process. The impacts outlined below are preliminary and should be used to inform future designs for the site.

4.2 Priorities for Retention

The Category A trees, T11 and T12 should be retained as part of any new development on the site. These trees are predominantly located around the site margins or offsite so this should be possible for them to remain in place.

The Category B trees, T1 to T7 and G10 should also be retained where possible. The root protection areas of these trees will have to be considered when designing the proposed development to avoid impacting as many trees as possible.

Some of the Category C trees will need to be removed to facilitate development. If possible, these trees could be retained as part of open space within the wider ownership boundary.

4.3 Impact of Development

Table 1 below, shows the likely impacts of development on the trees identified during the survey:

Table 1 – Proposed Impact of Construction on Trees		
Tree Number	Category	Impact on Tree
T8, G4, G5, G6	C	These trees are due to be removed as part of an adjacent development.
G9	C	This group will likely need to be removed to facilitate the development.
T6, T7, T9, T10, G8	B, C	These trees are located around the edges of the development zone and therefore should be possible for retention providing adequate tree protection measures are put in place.
T1-T5, T11-T19, G1-G3, G7, G10, G11	A, B, C	Although these trees are within the ownership boundary of the site, they are outside of the development zone and will not be impacted by the development.

4.4 Tree Management

Standard avoidance measures to reduce the impact of development on trees as required by BS 5837:2012, (ref. **R.1**), is simplified as follows for any development type:

- A Consultant Project Arboriculturist should be appointed to oversee the arboricultural aspects of the development project.
- The Root Protection Areas and above ground structures for retained trees must be protected during construction work with barriers as prescribed by BS 5837:2012, (ref. **R.1**). The locations of barriers should be determined once a finalised development plan has been produced.
- Once the protection areas have been finalised and the protective barriers have been erected, then these areas are to be considered construction exclusion zones. Any work within these zones will need prior agreement with the Consultant Project Arboriculturist.
- Changes to the shape of the canopy of retained trees must be agreed with the Consultant Project Arboriculturist before any works are undertaken; however, all construction within the canopy extent of a tree is best avoided to avoid potential damage to future buildings, and to avoid recurring pruning regimes.
- Tree planting should form part of the soft landscaping onsite to offset any trees which are removed during the development process. An appropriate after care scheme should be implemented to ensure the newly planted trees reach maturity.

4.4.1 Tree Pruning

The site contains a number of trees in various stages of maturity, containing deadwood and fungal infections, usual for trees of their age. Any hazards should be removed prior to the commencement of construction.

The canopies of the trees are likely to require pruning to accommodate new construction. Once the layout of the development area has been finalised, a tree management plan should be completed advising on remedial action required for health and safety and facilitation pruning for construction needs.

All tree work is to be carried out in general accordance with BS 3998:2010 Tree work – Recommendations (ref. **R.2**) by a professional and specialist arboricultural contractor, who carries the appropriate experience and insurance cover.

Tree planting should form part of the soft landscaping onsite to offset any trees which are removed during the development process.

4.4.2 Tree Planting

If any trees, scrub or hedgerows are to be removed to facilitate the development, there is potential to provide mitigation for the loss by either planting new hedgerows around the boundary or new trees within any open space available.

Trees should be selected and planted following BS 8545:2014 Trees: From nursery to independence in the landscape – recommendations (ref. **R.7**).

Any new hedgerow planting should be protected with stock fencing, and appropriate tree guards, to protect the new planting from browsing mammals. It should be expected that some trees will not survive after being planted, so trees should be replaced on a more than 1:1 basis, and an appropriate after care program should be put in place to ensure that any dead trees are replaced. Trees should be selectively thinned and formatively pruned where appropriate after the trees have established. After care should also include mulching and irrigation.

5. RECOMMENDATIONS

The Tree Constraints Plan, Drawing ref. 7257,EC,AR/001/Rev0, in Appendix 6 should be consulted to ensure that the constraints posed by the trees are taken into account when designing the proposed development. For example, retained trees could be incorporated within any proposed open space.

Further arboricultural planning is required following the production of a proposed development plan. The formal planning process with regards to trees will require the following additional information:

- A Tree Retention Plan should be designed once the layout of the development area has been finalised, and a final proposed development plan is available. This will show the locations of trees which will remain throughout the development works, and the trees which will be removed prior to the commencement of development.
- A Tree Protection Plan should be designed based upon the Tree Retention Plan. This will include finalised locations of protective barriers; construction exclusion zones and any other protection measures that trees will require prior to commencement of construction.
- An Arboricultural Impact Assessment, Arboricultural Method Statement, and Tree Management Plan should be supplied with the Tree Protection Plan. A Consultant Project Arboriculturist should be appointed by the developer, to ensure all the arboricultural aspects of the redevelopment project are considered, from the planning stage onwards.

APPENDICES

Appendix 1 – Report Limitations and Conditions

General Limitations and Exceptions

This report was prepared solely for our Client for the stated purposes only and is not intended to be relied on by any other party or for any other use. No extended duty of care to any third party is implied or offered. Third parties should not rely on the facts, matters or opinions set out in this report without the express written permission of Geosphere Environmental Ltd.

Geosphere Environmental Ltd does not purport to provide specialist legal advice.

The Executive Summary, Conclusions and Recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon until considered in the context of the whole report.

Interpretations and recommendations contained in the report represent our professional opinions, which were arrived at in accordance with currently accepted industry practices at the time of reporting and based upon current legislation in force at that time.

Arboricultural Limitations and Exceptions

This report is prepared and written within the context stated in the introduction to this report and should not be used in a differing context. Furthermore, new information, improved practices and legislation may necessitate an alteration to the report in whole or in part after its submission. Therefore, with any change in circumstances or after the expiry of one year from the date of the report, the report should be referred to us for re-assessment and, if necessary, re-appraisal.

The trees were not climbed but surveyed from ground level. The survey recorded any defects which were observed, but a full tree health and safety inspection for the site is beyond the scope of this survey.

Any physical changes that happen to the site after the tree survey was undertaken have the potential to invalidate or change the findings of this report. Therefore, the consultant shall not be responsible for any event that may happen after the survey was undertaken due to factors that were not apparent at the time.

Any hazards that were visible on the day of the survey have been noted within the tree management recommendations section of the tree survey schedule. However, this report should not be considered a substitute for a tree risk assessment or management plan, which would be required to minimise the risk and liability associated with the trees found onsite.

Appendix 2 – References

- R.1.** BSI (2012). BS 5837:2012 Trees in relation to design, demolition and constructions- Recommendations.
- R.2.** BSI (2010). BS 3998:2010 Trees work- Recommendations.
- R.3.** Stace, C. A. (2010). New Flora of the British Isles (third edition), Cambridge University Press.
- R.4.** Johnson and More (2006). Tree Guide, Harper Collins Publishers Ltd.
- R.5.** British Geological Survey (accessed 24 April 2024) Geology of Britain Viewer website: <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>.
- R.6.** National House-Building Council, Standards, Chapter 4.2, 2003 'Building Near Trees'.
- R.7.** BSI (2014). BS 8545:2014 Trees: from nursery to independence in the landscape – Recommendations.
- R.8.** Hinckley and Bosworth Borough Council Online Planning map (accessed 24 April 2024) website - <https://www.hinckley-bosworth.gov.uk/tpomap?redirect=tpo>

Appendix 3 – Tree Survey Schedule

TREE SURVEY SCHEDULE

Project Number: 7257,EC,AR

Project Name: Hinckley & District Hospital, Mount Road, Hinckley, LE10 1AE

Survey

Date: 25/04/2024

1	2	3	4	5	6				7	8	9	10	11	12	13	14	15	16
Tree No.	Species	Height (m)	Stem Diameter (mm)	No. of Stems	Branch Spread (m)				First Branch Height (m)	Canopy Height (m)	Life Stage	Physiological Conditions	Structural Conditions	Remaining Contribution (years)	Category Grading	RPA (m2)	RPA Radius (m)	Tree Work Recommendations / Comments
					N	E	S	W										
# Denotes estimated values due to lack of access																		
T1	Large leaved Lime	10	450	1	1	1	1	1	6	5	M	G	G	40+	B	91.61	5.40	Pollarded
T2	Large leaved Lime	10	450	1	1	1	1	1	6	5	M	G	G	40+	B	91.61	5.40	Pollarded
T3	Large leaved Lime	10	450	1	1	1	1	1	6	5	M	G	G	40+	B	91.61	5.40	Pollarded
T4	Large leaved Lime	10	450	1	1	1	1	1	6	5	M	G	G	40+	B	91.61	5.40	Pollarded
T5	Large leaved Lime	10	450	1	1	1	1	1	6	5	M	G	G	40+	B	91.61	5.40	Pollarded
T6	Large leaved Lime	12	500	1	1	1	1	1	4	6	M	G	G	40+	B	113.10	6.00	Pollarded
T7	Large leaved Lime	12	500	1	1	1	1	1	4	6	M	G	G	40+	B	113.10	6.00	Pollarded
T8	Cedar	15	627.55	4	2.5	2.5	2.5	2.5	8	10	SM	F	F	20+	C	178.16	7.53	
T9	Fir sp	15	370	1	2.5	2.5	2.5	2.5	8	10	SM	G	G	20+	C	61.93	4.44	
T10	Red Maple	11	260	1	3	3	3	3	4	4	SM	G	G	20+	B	30.58	3.12	Memorial Tree
T11	Sycamore	15	500	1	5	5	5	5	10	10	M	G	G	40+	A	113.10	6.00	
T12	Sycamore	15	500	1	5	5	5	5	10	10	M	G	G	40+	A	113.10	6.00	
T13	Copper Beech	12	560	1	4	4	4	4	6	6	M	G	G	40+	B	141.87	6.72	
T14	Copper Beech	12	560	1	4	4	4	4	6	6	M	G	G	40+	B	141.87	6.72	

TREE SURVEY SCHEDULE

Project Number: 7257,EC,AR

Project Name: Hinckley & District Hospital, Mount Road, Hinckley, LE10 1AE

Survey

Date: 25/04/2024

1	2	3	4	5	6				7	8	9	10	11	12	13	14	15	16
Tree No.	Species	Height (m)	Stem Diameter (mm)	No. of Stems	Branch Spread (m)				First Branch Height (m)	Canopy Height (m)	Life Stage	Physiological Conditions	Structural Conditions	Remaining Contribution (years)	Category Grading	RPA (m2)	RPA Radius (m)	Tree Work Recommendations / Comments
					N	E	S	W										
# Denotes estimated values due to lack of access																		
T15	Maple	7	310	1	2	2	2	2	2	2	SM	G	G	20+	C	43.47	3.72	
T16	Maple	8	360	1	2.5	2.5	2.5	2.5	1.5	1.5	SM	G	G	20+	C	58.63	4.32	
T17	Maple	8	360	1	2.5	2.5	2.5	2.5	1.5	1.5	SM	G	G	20+	C	58.63	4.32	
T18	Maple	8	360	1	2.5	2.5	2.5	2.5	1.5	1.5	SM	G	G	20+	C	58.63	4.32	
T19	Maple	8	360	1	2.5	2.5	2.5	2.5	1.5	1.5	SM	G	G	20+	C	58.63	4.32	
G1	Laurel	2	100	1	1	1	1	1	0	0	SM	G	G	20+	C	4.52	1.20	
G2	Leyland Cypress	3	100	1	1	1	1	1	0	0	SM	G	G	20+	C	4.52	1.20	
G3	Introduced Shrubs, Holly, Privet, Ash	5	250	1	2	2	2	2	0	0	SM	G	G	20+	C	28.27	3.00	
G4	Holly, Laurel, Introduced Shrub, Hawthorn, Fir	10	300	1	2	2	2	2	0	0	SM	G	G	20+	C	40.72	3.60	
G5	Box, Laurel, Introduced Shrub	2	150	1	1	1	1	1	0	0	SM	G	G	20+	C	10.18	1.80	
G6	Field Maple, Holly, Box	1.5	100	1	1	1	1	1	0	0	SM	G	G	20+	C	4.52	1.20	
G7	Fir, Leyland Cypress	12	300	1	2	2	2	2	0	0	SM	G	G	20+	C	40.72	3.60	
G8	Holly	1.5	150	1	1	1	1	1	0	0	SM	G	G	20+	C	10.18	1.80	
G9	Box, Leyland Cypress, Holly	1.5	150	1	1	1	1	1	0	0	SM	G	G	20+	C	10.18	1.80	

TREE SURVEY SCHEDULE



Project Number: 7257,EC,AR

Project Name: Hinckley & District Hospital, Mount Road, Hinckley, LE10 1AE

Survey Date: 25/04/2024

1	2	3	4	5	6				7	8	9	10	11	12	13	14	15	16
Tree No.	Species	Height (m)	Stem Diameter (mm)	No. of Stems	Branch Spread (m)				First Branch Height (m)	Canopy Height (m)	Life Stage	Physiological Conditions	Structural Conditions	Remaining Contribution (years)	Category Grading	RPA (m2)	RPA Radius (m)	Tree Work Recommendations / Comments
					N	E	S	W										
# Denotes estimated values due to lack of access																		
G10	Oak, Hornbeam, Leyland Cypress, Copper Beech	16	400	1	3	3	3	3	5	5	SM	G	G	40+	B	72.38	4.80	
G11	Copper Beech, Field Maple, Introduced Shrub, Cherry	8	200	1	1.5	1.5	1.5	1.5	0	0	SM	G	G	20+	C	18.10	2.40	

Appendix 4 – Survey Schedule Descriptions

TREE SURVEY SCHEDULE DESCRIPTIONS



Tree Survey Schedule Description		
Column Number	Heading	Description
1	Tree No.	Sequential reference number (as recorded on the tree constraints plan).
2	Species	Species listed by common name.
3	Height (m)	Total height of the tree.
4	Stem Diameter (mm)	Stem diameter measured at 1.5 m above ground level in accordance to BS 5837:2012.
5	No of stems	Total number of stems of a tree.
6	Branch spread (m)	Branch spread, taken at the four cardinal points, to derive an accurate representation of the crown (plotted on the tree constraints plan).
7	First branch hgt (m)	Existing height above ground level of first branch measured at the union with the stem.
8	Canopy hgt (m)	Existing height of the average clearance of the canopy above ground level.
9	Life stage	The age of the tree determined by life stage category: Y- young, SM- semi-mature, EM- early mature, M- mature, OM- over mature, V- veteran.
10	Physiological condition	The physiological condition of a tree based on a tree health assessment: G- good, F- fair, P- poor, D- dead.
11	Structural condition	The structural condition of a tree based on structural integrity and signs of structural defects which may cause failure: G- good, F- fair, P- poor, D- dead.
12	Remaining contribution (yrs)	Estimated remaining contribution in years that the trees will have on the landscape in their current context. A tree will not necessarily remain safe for the entirety of the remaining years. The remaining contribution has been categorised as follows: <10, 10+, 20+ and 40+.
13	Category grading	The trees have been graded as per BS 5837: 2012 recommendations. The grading is formed by a letter and a number. The letter denotes the quality grading of the tree, the number represents one of three sub categories. Sub categories 1, 2 and 3 reflect arboricultural, landscape and cultural qualities respectively. The primary letter grading is as follows: U- Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. A- Trees of high quality with an estimated remaining life expectancy of at least 40 years. B- Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. 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.
14	RPA radius (m)	The root protection area radius calculated following BS 5837: 2012.
15	RPA (m ²)	The root protection area calculated following BS 5837: 2012.
16	Tree work recommendations/ comments	Work which is recommended for a tree to improve its longevity and safety in its present context. The recommendations are recorded primarily to assist with the categorisation of the trees. Please see Section 6, Tree Management for further limitations.

TITLE
Tree Survey Schedule Descriptions

DATE
01/05/2024

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Appendix 5 – Key to Scientific Names

SCIENTIFIC NAMES KEY

Common Name	Scientific Name
Fir sp.	<i>Abies sp.</i>
Field Maple	<i>Acer campestre</i>
Sycamore	<i>Acer pseudoplatanus</i>
Red Maple	<i>Acer rubrum</i>
Maple	<i>Acer sp.</i>
Box	<i>Buxus sempervirens</i>
Hornbeam	<i>Carpinus betulus</i>
Cedar	<i>Cedrus sp.</i>
Hawthorn	<i>Crataegus monogyna</i>
Copper Beech	<i>Fagus sylvatica Purpurea</i>
Ash	<i>Fraxinus excelsior</i>
Holly	<i>Ilex aquifolium</i>
Garden Privet	<i>Ligustrum ovalifolium</i>
Cherry Laurel	<i>Prunus laurocerasus</i>
Cherry	<i>Prunus sp.</i>
Pedunculate Oak	<i>Quercus robur</i>
Common Lime	<i>Tilia x europaea</i>
Leyland Cypress	<i>Cupressus x leylandii</i>

REFERENCE

Common and scientific names based on Stace (2010) New flora of the British Isles (3rd Edition), Cambridge University Press. For species not present in Stace, scientific and common names were taken from Johnson and More (2006). Tree Guide, Harper Collins Publishers Ltd.

TITLE
Scientific Names Key

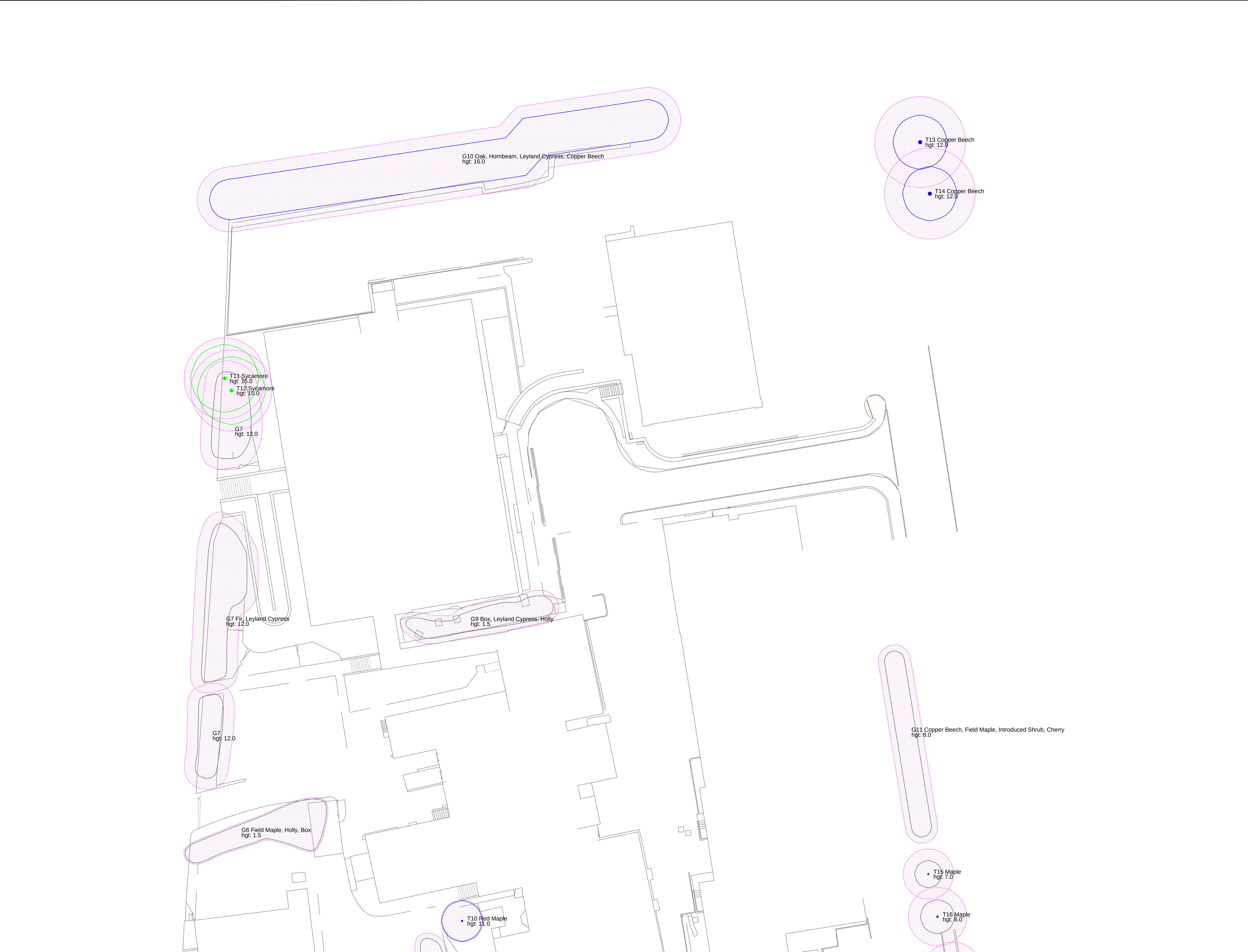
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Appendix 6 – Drawings

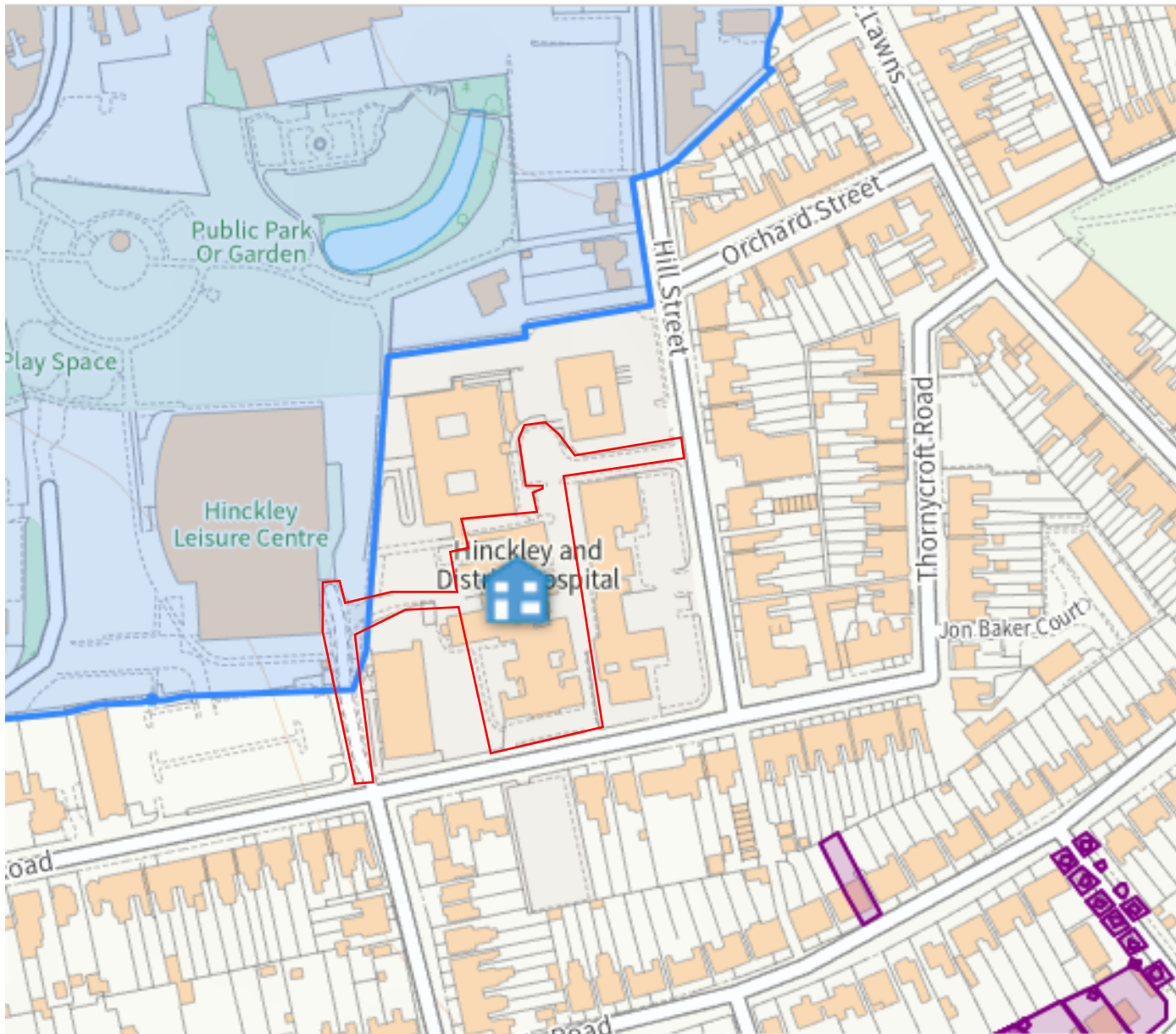
Tree Constraints Plan – Drawing ref. 7257,EC,AR/001/Rev0
Tree Preservation Order Plan – Drawing ref. 8421,AR/001/Rev0



REV	DATE	DESCRIPTION
LEGEND		
	Category U	
	Category A	Trees of high quality
	Category B	Trees of moderate quality
	Category C	Trees of low quality
	RPA using formula in accordance with BS5837:2012	
# denotes estimated values due to lack of access		
Trees categorised in accordance with BS5837:2012 "Trees in relation to design, demolition and construction 1 Recommendations"		
The original of this drawing was produced in colour i a monochrome copy should not be relied upon		
LOCATIONS ARE APPROXIMATE.		
PROJECT Hinckley & District Hospital, Mount Road, Hinckley, LE10 1AG		
TITLE Tree Constraints Plan		
DRAWING NUMBER 7257,EC,AR/001-1/Rev0		
CLIENT NHS Property Services Ltd		
SCALE 1:250 @ A1 DATE 15/05/23		



REV	DATE	DESCRIPTION
LEGEND		
	Category U	
	Category A	Trees of high quality
	Category B	Trees of moderate quality
	Category C	Trees of low quality
	RPA using formula in accordance with BS5837:2012	
# denotes estimated values due to lack of access		
Trees categorised in accordance with BS5837:2012 "Trees in relation to design, demolition and construction 1 Recommendations"		
The original of this drawing was produced in colour if a monochrome copy should not be relied upon		
LOCATIONS ARE APPROXIMATE.		
PROJECT Hinckley & District Hospital, Mount Road, Hinckley, LE10 1AG		
TITLE Tree Constraints Plan		
DRAWING NUMBER 7257,EC,AR/001-2/Rev0		
CLIENT NHS Property Services Ltd		
SCALE	1:250 @ A1	DATE 15/05/23



LEGEND

- Redline boundary
- Conservation Area

PROJECT

Hinckley & District Hospital, Phase 2, Mount Road, Hinckley, LE10 1AG

TITLE

Tree Preservation Order Plan

DRAWING NUMBER

8421,AR/001/Rev0

SCALE

As marked

DATE

24/04/2024

DRAWN BY

TC

CHECKED BY

KL



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