Jane Roylance

From: Anna.Irwin@gov.wales
Sent: 02 November 2022 11:18
To: Jane Roylance
Cc: glyn.chaplin@wrexham.gov.uk; jonathon.gammond@wrexham.gov.uk; Karen.Murdoch@wrexham.gov.uk; Zhor Boukerrou; Mark Pearce; Ian Weir; graham.wilson@parker-wilson.co.uk; Mark Clifford; horstv@haleysharpe.com; Melissa Marsden; X1066@haleysharpe.com; Matthew.Phillips@wrexham.gov.uk; Nick.Atkinson@wrexham.gov.uk
Subject: RE: Wrexham Museum - Proposed demolitions

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Jane,

I apologise for my late reply.

I am pleased that the amount of demolition proposed has been reduced since our last meeting and as such am content for your to finalise proposals on this basis. Please let me know if the situation changes following comments from the NLHF.

Kind Regards

Anna

Cadw

Anna Irwin
Arolygydd Adeiladau Hanesyddol / Inspector of Historic Buildings
Amgylchedd Hanesyddol / Historic Environment
Cadw
Llywodraeth Cymru / Welsh Government
Ffôn / Tel: 03000 252847

Cadw— er lles pawb.
For us all, to keep.

Ymunwch â Cadw
Join Cadw

Helpwch yr amgylchedd - peidiwch ag argraffu hon os nad oes gwir raid
Help our environment - only print this if really necessary.

From: Jane Roylance <Jane.Roylance@purcelluk.com>
Sent: 24 October 2022 18:48
To: Irwin, Anna (ETC - CST - Cadw - Historic Environment) <Anna.Irwin@gov.wales>
Cc: Glyn Chaplin <glyn.chaplin@wrexham.gov.uk>; Jonathon Gammond <jonathon.gammond@wrexham.gov.uk>; Karen Murdoch <Karen.Murdoch@wrexham.gov.uk>; Zhor Boukerrou <Zhor.Boukerrou@purcelluk.com>; Mark

Pearce <Mark.Pearce@purcelluk.com>; Ian Weir <ian@blackett-ordconservation.co.uk>; Graham Wilson <graham.wilson@parker-wilson.co.uk>; Mark Clifford <Mark.Clifford@purcelluk.com>; Horst Voigt <horstv@haleysharpe.com>; Melissa Marsden <melissam@haleysharpe.com>; X1066 Wrexham Museum <X1066@haleysharpe.com>; Matthew.Phillips@wrexham.gov.uk; Nick.Atkinson@wrexham.gov.uk
Subject: Wrexham Museum - Proposed demolitions

Dear Anna
Further to our meeting on site on 14th October 2022, I attach a mark-up of the proposed demolitions. Following the meeting, we reviewed the proposals with the museum team and they elected to forgo the dedicated WCs as there is insufficient storage on site at present. This has allowed us to retain an additional cross wall and chimney stack. I would be grateful if you would review to determine whether this is an acceptable level of change.

We are currently putting together a set of design proposals to review for buildability by the architectural design team and sign off by the client. Once we have a working proposal, I will circulate these to keep you in the loop.

I understand from the museum team that the NLHF have visited site and the monitor has raised the requirement for including a Changing Places within the scheme again. We are now seriously short of space within the building and I am waiting for instruction from them as to whether this is to be included. I will keep you appraised of this requirement.

If you wish to discuss anything further, please do not hesitate to contact me on the mobile number below.

Kind Regards

JANE ROYLANCE
Associate

Please note, my working week is Monday – Thursday

Purcell
TEL: +44 (0) 161 300 7747
MOB:+44 (0) 7867 783 296

jane.roylance@purcelluk.com
www.purcelluk.com



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3

Arboricultural Impact Assessment (AIA)

January 2023

Wrexham County Borough Museum and Archives
Regent Street
Wrexham
LL11 1RB

URBAN GREEN

QUALITY MANAGEMENT

Project No.:	UG1678
Project:	Wrexham Museum
Location:	Wrexham Museum, Regent Street, Wrexham, LL11 1RB
Title:	Arboricultural Impact Assessment
Document Type:	BS 5837
Date:	24/01/2023
Prepared By:	Adam Hodgins
Checked By:	Gemma King
Approved By:	Gemma King

Revision Status:				
Rev:	**Date:**	**Issue/Purpose/ Comment:**	**Prepared:**	**Checked:**

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Appendix 1 – Tree Data Schedule

Appendix 2 – Tree Schedule Definition of Terms

Appendix 3 – Tree Retention Categories

Appendix 4 – Site Plans

1. Executive Summary

1.1.1. Urban Green have been instructed by Wrexham County Borough Council to carry out an Arboricultural Survey to British Standard 5837: 2012 guidelines at Wrexham County Borough Council Museum and Archives, Regent Street, Wrexham, LL11 1RB and produce our findings in a report.

1.1.2. It is proposed to undertake internal renovation works at Wrexham County Borough Council Museum and Archive, including updating the internal layout to allow for addition of further exhibits. External works include the demolition of the existing boundary stone wall to facilitate accessibility. Full details of the proposed site layout can be seen on the plans included in Appendix 4.

1.1.3. The proposed development does not necessitate the removal of any trees, or any remedial tree works within the site boundary.

1.1.4. Urban Green have been appointed to carry out a Preliminary Roost Assessment and Bat Survey Report of the site to identify the suitability and potential for the site to support roosting bats. This report should be read in conjunction with the Preliminary Roost Assessment and Bat Survey Report should any tree work be required.

1.1.5. 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.

1.1.6. 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.

1.1.7. The presence of existing hardstanding to be retained across the site negates the need for ground protection within the predicted root protection areas of the retained trees.

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 Wrexham County Borough Council 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: 2012 recognises the potential conflict between trees and development. The standard sets out to assist those concerned with trees in relation to construction and aid 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 33182 50451.



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. This 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 their 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 reduce risk and liability associated with responsibility for trees.

2.5. The Site

2.5.1. The site is located at Regent Street, Wrexham, LL11 1RB and comprises the existing Wrexham County Borough Council Museum and Archives, featuring one large centrally located building surrounded by hard standing. Tree cover onsite consists of a small group of ornamental planting to the north of the museum building. The site is bounded by residential and commercial property to the north, south, east, and west, with Wrexham Central Railway Station also to the south.

2.6. Geology

Reference to the Cranfield Soil and Agrifood Institute Soilscapes Viewer indicates that the soil on site is a slightly acidic, freely draining loamy soil with limited fertility, typical of arable and grassland environments.

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. An enquiry email was sent to Wrexham County Borough Council on 10/01/2023 regarding the presence of TPO and Conservation Area status at the site location. At the time of writing the report, Urban Green have not yet received a response from Wrexham County Borough Council to our request regarding the status of trees on or adjacent to the site.

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. In a Conservation Area, all trees greater than 75mm in diameter at 1.5m above ground level are protected. Where tree work is required in a Conservation Area, a Section 211 notice of intent must be submitted the Local Planning Authority who have six weeks to decide to either make a TPO or allow the work to proceed.

3.1.6. The proposed work can proceed after six weeks as it is presumed that the Local Authority consents if they have not responded in that time.

3.1.7. It is an offence to remove more than five cubic metres 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. Urban Green have been appointed to complete a Preliminary Roost Assessment (PRA) (ref: UG_1678_ECO_PRA_02) and Bat Survey Report (BSR) (ref: UG_1678_ECO_BSR_01) of the site, which should be read and adhered to should any tree work be required. The purpose of these reports is to identify habitats on site and determine the suitability and potential for roosting bats on site. This report should be read in conjunction with the PRA and BSR reports should any tree work be required.

3.2.2. 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 within the forty-eight-hour period prior to the commencement works.

4. Arboricultural Impact Assessment (AIA)

4.1. Summary of the Development

4.1.1. It is proposed to undertake internal renovation works at Wrexham County Borough Council Museum and Archive, including updating the internal layout to allow for addition of further exhibits. External works include the demolition of the existing boundary stone wall to facilitate accessibility. 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. Six individual trees have been assessed, the quality and value of which are summarised below. Full details of the surveyed trees can be found in the Tree Data Schedule at Appendix 1.

4.4.2. One individual tree was assessed as 'High Quality' BS 5837: 2012 Retention Category 'A'; and five individual trees were assessed as 'Moderate Quality' BS 5837: 2012 Retention Category 'B'.

4.4.3. Trees T5 & T6 are off-site. The remaining trees are within the site or on the boundaries.

4.4.4. The tree cover on site is comprised of moderate quality ornamental planting.

4.4.5. All the surveyed trees are visually important in terms of their contribution to the character and appearance of the area. Tree T5 is of secondary importance in visual terms as the museum building obscures the view of the tree from Regent Street.

4.5. Impacts of Development

4.5.1. The proposed development does not require any tree removals or other remedial works to trees on site.

4.5.2. All the surveyed trees are to be retained and can be protected from the proposed development in accordance with current industry best practice and the guidance provided in this report.

4.6. Tree Surgery Works

4.6.1. 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/repaired 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. Demolition and Removal of Surfaces in the RPA

4.8.1. During demolition, the following restrictions will apply:

- Where direct damage by falling masonry is likely, the tree should be protected by exterior grade plywood sheets constructed around the main stem.
- The main body of any mechanical excavator will operate outside the RPA.
- Masonry will be pulled away from trees where possible.
- When breaking masonry, a fine water spray will be used to minimise dust particles.
- Excessive dust particles on trees will be removed each day by spraying with water.

- Hard surfaces should be kept in place for as long as possible during construction works in order to prevent soil compaction in the RPA.
- During surface removal, the following restrictions will apply:
- Only hand operated tools will be used to lift existing surfaces and sub-base. No mechanical excavators are to be used.
- No excavation below the existing sub-base will occur.
- All surface removal within the RPA will be supervised by the Arboricultural Consultant or the Local Authority Tree Officer.

4.9. Temporary site cabins

4.9.1. 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.

4.9.2. 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.

4.10. Utilities

4.10.1. 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. 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.

4.11. Recommendations

4.11.1. 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.

4.11.2. 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.

4.11.3. 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.

UG1678: Wrexham Museum, Wrexham

Surveyed by: A. Bagshaw and A. Hodgins

Survey Date: 06/09/2022

Reference T= Tree G = Group H = Hedge W = Woodland	Age & Species	Height (m)	Crown Ht (m)	Lowest Branch Height (m)	Lowest Branch Direction	DBH (mm)	Crown Spread (m) N W E S	Notes	Recommendations Priority	Recommendations Inspect Freq (yrs)	Visual Amenity 1-Low 2-Moderate 3-High 4-Very High	Physiological Condition Structural Condition	Life Expectancy (yrs) Retention Category	RPA Radius (m)
T1	Early-Mature **Pear** Pyrus communis	6	1.5	1.5	E	150	N 2 W 2 E 2 S 2	1: Ornamental planting in tree pit within area of existing hardstanding overhanging public benches. 2: Not pruned to any extent, currently adequate clearance over adjacent bench. 3: Some displacement of paved surface, possibly caused by tree roots. 4: No major visible defects.	No action required. n/a	3	2	Good Good	40+ B2	1.80
T2	Early-Mature **Pear** Pyrus communis	6	2	1.8	SE	70	N 1.5 W 1.5 E 3 S 2	1: Ornamental planting in tree pit within area of existing hardstanding overhanging public benches. 2: Currently adequate clearance over adjacent bench. 3: Some displacement of paved surface, possibly caused by tree roots. 4: No major visible defects. Slight stem lean due to suppression from neighbouring mature sycamore. 5: Occasional pruning wounds due to crown lifting with some occlusion.	No action required. n/a	3	2	Good Good	40+ B2	0.84
T3	Early-Mature **Pear** Pyrus communis	8.5	1.5	2	S	200	N 1.5 W 1 E 2.2 S 2.5	1: Ornamental planting in tree pit within area of existing hardstanding overhanging public benches. 2: Currently adequate clearance over adjacent bench. 3: Some displacement of paved surface, possibly caused by tree roots. 4: No major visible defects. Slight stem lean to southeast due to suppression from neighbouring mature sycamore. Exhibiting signs of drought stress. 5: Occasional pruning wounds due to crown lifting with some occlusion.	No action required. n/a	3	2	Good Good	40+ B2	2.40
T4	Early-Mature **Pear** Pyrus communis	6	2	2	SE	140	N 2 W 2 E 2 S 2	1: Ornamental planting in tree pit within area of existing hardstanding overhanging public benches. 2: Currently adequate clearance over adjacent bench. Utility wire intersecting canopy. 3: Some displacement of paved surface, possibly caused by tree roots. 4: No major visible defects. Exhibiting signs of drought stress. 5: Occasional pruning wounds due to crown lifting with some occlusion.	No action required. n/a	3	2	Good Good	40+ B2	1.68

UG1678: Wrexham Museum, Wrexham

Surveyed by: A. Bagshaw and A. Hodgins

Survey Date: 06/09/2022

Reference T= Tree G = Group H = Hedge W = Woodland	Age & Species	Height (m)	Crown Ht (m)	Lowest Branch Height (m)	Lowest Branch Direction	DBH (mm)	Crown Spread (m) N W E S	Notes	Recommendations Priority	Recommendations Inspect Freq (yrs)	Visual Amenity 1-Low 2-Moderate 3-High 4-Very High	Physiological Condition Structural Condition	Life Expectancy (yrs) Retention Category	RPA Radius (m)
T5	Mature **Sycamore** Acer pseudoplatanus	14	4	4	E	600	8 7 5.5 7.5	1: Offsite tree prevents a detailed inspection. 2: Pruned in the past to remove low hanging lateral branches exhibiting good occlusion. 3: Tear wounds present from previous branch loss. 4: Deadwood up to approximately 50mm in crown. Retaining wall slightly displaced due to stem growth but does not appear structurally compromised. 5: Canopy overhangs museum currently with adequate clearance overhead and to adjacent building. Utility wire intersecting canopy.	No action required. n/a	3	3	Good Good	40+ A2	7.20
T6	Mature **Sycamore** Acer pseudoplatanus	12.5	4	5	SE	600	4.5 4.5 6.3 6	1: Street tree growing in planting pit to east of museum, overhanging roof but has adequate clearance currently. 2: Pruned in the past to remove low hanging lateral branches, decay cavity noted to south with good closure. 3: Asymmetric canopy due to shading from adjacent building. 4: Minor displacement of planting pit due to lateral roots. 5: No audible indication of internal hollowing when tapped with nylon hammer.	Monitor condition. Low	3	3	Good Good	40+ B2	7.20

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 Spread	Measurements taken from all four cardinal points in metres.	
Lowest Branch Height & Orientation	Height and direction of growth for the lowest lateral branch on the main tree stem.	
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 with 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**

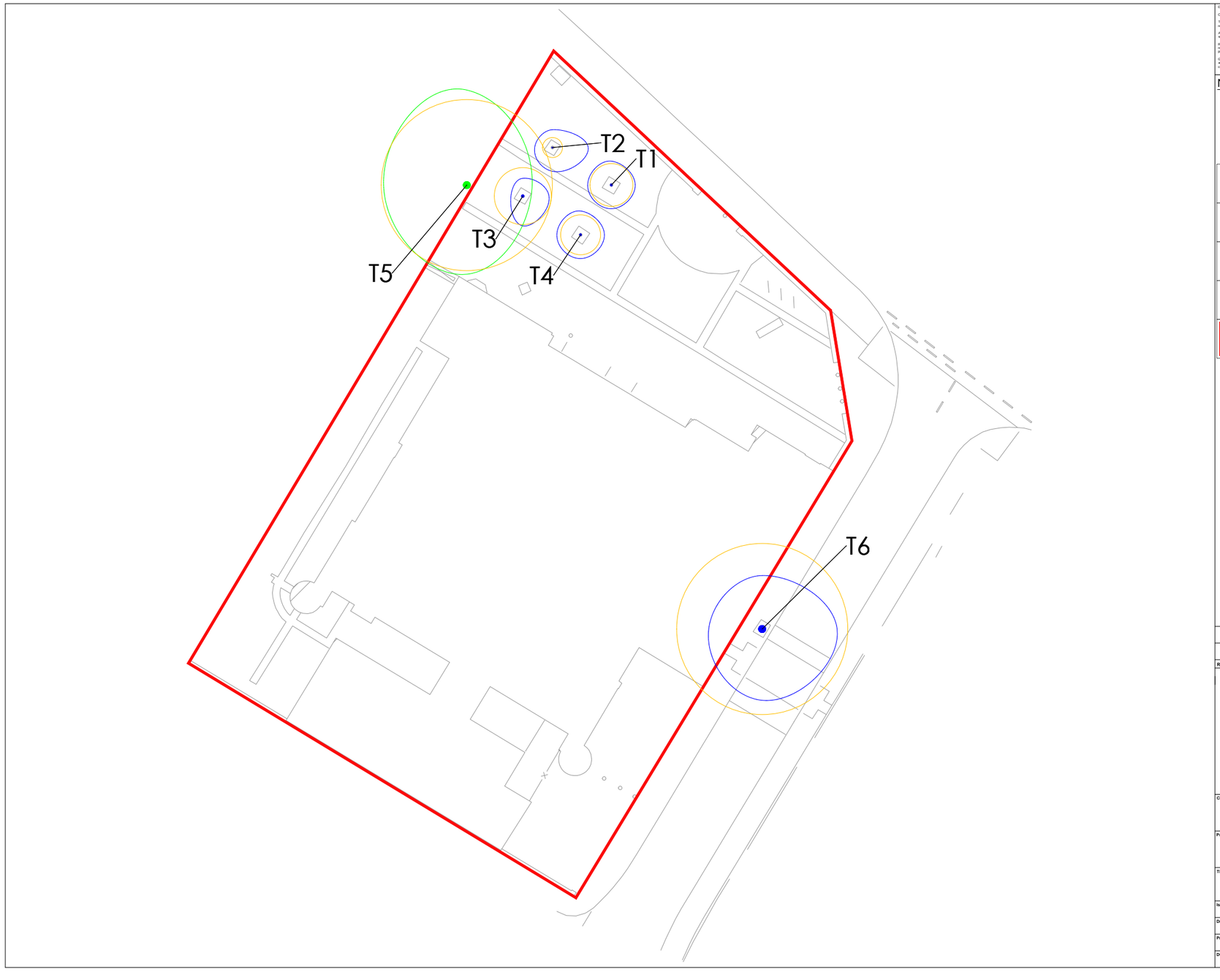
NOTE: Trees that are viewed as borderline and do not fit neatly into either of the categories are given a plus or minus rating (+/-) in the tree data schedule. Therefore, C+ would denote a tree being borderline C/B although C is deemed to be the most appropriate category. Similarly, B- would denote a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



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

Contractors must check all dimensions from site

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Notes:-

Category A tree, group or hedge

Category B tree, group or hedge

Root Protection Area (RPA)

\# Position estimated on site

Redline Site Boundary

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:
WREXHAM COUNTY BOROUGH COUNCIL

Project:
WREXHAM MUSEUM

Title:
TREE CONSTRAINTS PLAN

Issue:
PLANNING

Drawn:	Checked:	Approved:
AH	AB	AB
Project:	**Scale @ A0:**	**Date:**
UG1678	1:1000	10/01/23
Dwg No:		**Revision:**
UG_1678_ARB_TCP_01		00



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Notes:-

Category A tree, group or hedge

Category B tree, group or hedge

Retained tree

Redline Site Boundary

REV.	DATE	DESCRIPTION	DRAWN	CHK'D

URBAN GREEN

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:
WREXHAM COUNTY BOROUGH COUNCIL

Project:
WREXHAM MUSEUM

Title:
TREE REMOVAL PLAN

Issue:
PLANNING

Drawn:	Checked:	Approved:
AH	AB	AB
Project:	**Scale @ A0:**	**Date:**
UG1678	1:1000	13/01/23
Dwg No:		**Revision:**
UG_1678_ARB_TRP_01		00

Tree Works Schedule

Tree Number	BS 5837: 2012 Retention Category	Species	Works Required	Reason
No tree works are required to facilitate the proposed development.				

REV.	DATE	DESCRIPTION	DRAWN	CHK'D

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Manchester M3 7BF

T: +44 (0) 161 312 3131

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Client: **WREXHAM COUNTY BOROUCH COUNCIL**

Project: **WREXHAM MUSEUM**

Title: **TREE WORKS SCHEDULE**

Issue: **PLANNING**

Drawn:	Checked:	Approved:
AH	AB	AB
Project: UG1678	**Scale @ A0:** NTS	**Date:** 13/01/23
Dwg No: UG_1678_ARB_TWS_01		**Revision:** 00



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Notes:-

- Category A tree, group or hedge
- Category B tree, group or hedge
- Retained tree
- Root Protection Area (RPA)
- # Position estimated on site
- Redline Site Boundary
- Protective fencing (See Insert 1 & Insert 2)

REV.	DATE	DESCRIPTION	DRAWN	CHK'D

URBAN GREEN

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Client:
WREXHAM COUNTY BOROUGH COUNCIL

Project:
WREXHAM MUSEUM

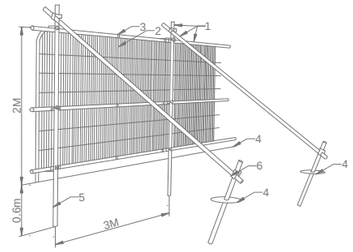
Title:
TREE PROTECTION PLAN

Issue:
PLANNING

Drawn:	Checked:	Approved:
AH	AB	AB
Project: UG_1678	**Scale @ A0:** 1:1000	**Date:** 13/01/23
Dwg No: UG_1678_ARB_TPP_01		**Revision:** 00

Insert 1: Tree protective fencing specification

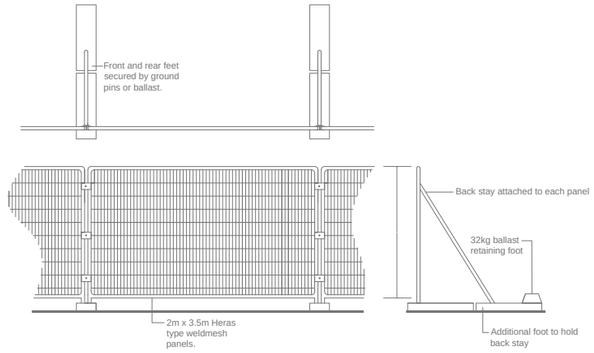
Default specification for protective barrier



Key

1 Standard scaffold poles
2 Heavy gauge 2m tall galvanised tube and welded mesh infill panels
3 Panels secured to upright and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground untill secure (minimum depth 0.6m)
6 Standard scaffold clamps

Back-stay support



Insert 2: Tree protection notice



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Notes:-

REV.	DATE	DESCRIPTION	DRAWN	CHK'D

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Manchester M3 7BF

T: +44 (0) 161 312 3131

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Client: **WREXHAM COUNTY BOROUGH COUNCIL**

Project: **WREXHAM MUSEUM**

Title: **TREE PROTECTION INDEX**

Issue: **PLANNING**

Drawn:	Checked:	Approved:
AH	AB	AB
Project:	**Scale @ A0:**	**Date:**
UG1678	NTS	13/01/23
Dwg No:		**Revision:**
UG_1678_ARB_TPI_01		00

Arboricultural Impact Assessment (AIA)