

Arboricultural Report

Tree Survey,
Arboricultural Impact Assessment &
Arboricultural Method Statement

In relation to the development proposal at:
Former St. Patricks Classical School
St. Finian's Terrace
Navan
Co. Dublin

On behalf of:
Meath County Council

May 2022

220428-PD-11

CHARLES MCCORKELL
ARBORICULTURAL CONSULTANCY

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Section 1: Arboricultural Impact Assessment

1 Summary

- 1.1 This arboricultural report has been instructed by Meath County Council (the 'Applicant')
- 1.2 The proposal is for the refurbishment of the Former St. Patricks Classical School at St. Finian's Terrace, Navan, Co. Meath (the 'Application Site').
- 1.3 This report includes:
- an assessment of the trees, their quality and value in accordance with BS 5837:2012 - Trees in relation to design, demolition and construction;
 - the site context and observations on the trees;
 - local planning policies relevant to the consideration of trees on the site;
 - the impact of the proposed development upon the tree population in and around the site;
 - methods of reducing impacts on trees; and
 - measures to be taken to protect trees during the proposed works.
- 1.4 My conclusions are that the proposed development is achievable in both arboricultural terms and in relation to local planning policy as it relates to trees.
- 1.5 The removal of all trees within the site is proposed for development and landscape improvement reasons. The loss of these trees will not have a significant impact on the character and appearance of the surrounding landscape due to the low and poor quality and value.
- 1.6 The site has been left derelict for many years and is overgrown with naturally regenerated trees and shrubs. The development proposal offers a good opportunity to remove these trees and carry out new high-quality structured tree planting that can have a positive impact on the site and the surrounding local area.
- 1.7 Tree impacts have been assessed and tree protection measures have been specified in accordance with best practice and are sufficient to safeguard retained trees during the proposed works.

2 Introduction

Instructions

- 2.1 This arboricultural report has been instructed by Meath County Council to provide information to assist all parties involved in the planning process, to make balanced judgements with regard to arboricultural features in relation to the proposed development works at St. Finian's Terrace, Navan, Co. Meath

Development proposal

- 2.2 The proposal is for the refurbishment of the Former St. Patricks Classical School building with associated landscaping and all site infrastructure and engineering works necessary to facilitate the development.

Qualification and experience

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

Scope and limitations

- 2.4 The survey undertaken is not a health and safety assessment of trees; however, trees identified as imminently dangerous will have been highlighted and recommendations made, where appropriate.
- 2.5 The contents of this report are the copyright of Charles McCorkell Arboricultural Consultancy and may not be distributed or copied without the author's permission.

Methodology and guidance

- 2.6 The author of this report has referred to *British Standard 5837: Trees in relation to design, demolition and construction (2012)* which provides a methodology for the assessment of trees and other significant vegetation on development sites.
- 2.7 BS 5837 (2012) is intended to assist decision making with regard to existing and proposed trees and sets out the principles and procedures to be applied to achieve a harmonious relationship between existing and new trees and structures that can be sustained for the long term.

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

Supporting information

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

Document	Reference	Location
Arboricultural Method Statement	N/A	Section 2
Tree Schedule	220428-PD-10	Appendix A
Tree Work Schedule	220428-PD-12	Appendix A
Tree Survey Plan	220428-P-10	Appendix B
Tree Removals Plan	220428-P-11	Appendix B
Tree Protection Plan	220428-P-12	Appendix B

Definitions

- 2.10 **Root Protection Area (RPA)** – a layout design tool indicating the area surrounding a tree that contains sufficient rooting volume to ensure the survival of the tree.
- 2.11 **Tree Protection Zone (TPZ)** – an area based on the RPA in m² identified by an arboriculturist, to be protected during development, including demolition and construction work, by the use of barriers and/or ground protection fit for purpose to ensure the successful long-term retention of a tree.

View of the site and trees



Image 1: View showing the mixed naturally regenerated trees and shrubs (Group 1) growing within the northern portion of the site.



Image 2: View showing the naturally regenerated sycamore, goat willow, and alder trees (Group 7) located within the southern portion of the site.



Image 3: View of the large neighbouring Leyland cypress trees (Group 8) that are overhanging the site boundary and are of low quality.



Image 4: View of the neighbouring sycamore (T898) and cherry (T899). The trees are growing within areas of hard standing and are of low and poor quality respectively.



Image 5: View of the mature trees located within the park adjacent to the northern boundary of the site.



Image 6: View of the A Category purple beech (T304) located within the park to the north of the site and adjacent to the Circular Road.

4 Local Planning Policy

Meath County Development Plan 2021 - 2027

- 4.1 The Meath County Development Plan 2021–2027 contains the following policies and information that relate to trees, woodlands and hedgerows on this site:

<i>Policy ref</i>	<i>Wording</i>
HER POL 40	To protect and encourage the effective management of native and semi-natural woodlands, groups of trees and individual trees and to encourage the retention of mature trees and the use of tree surgery rather than felling, where possible, when undertaking, approving or authorising development.

5 Technical Information

Tree data

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

Life stage analysis

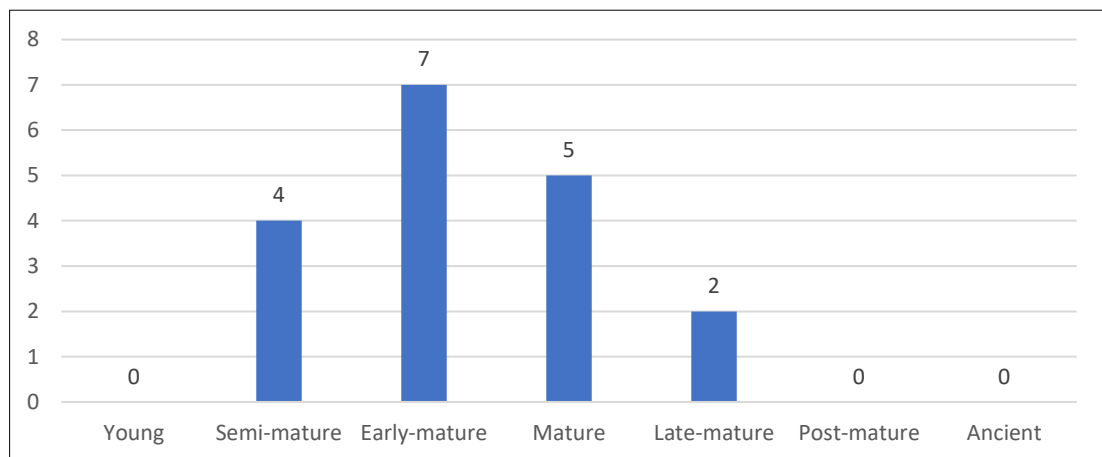


Figure 1: Life stage analysis of the 18 survey entries recorded.

BS5837 (2012) category breakdown

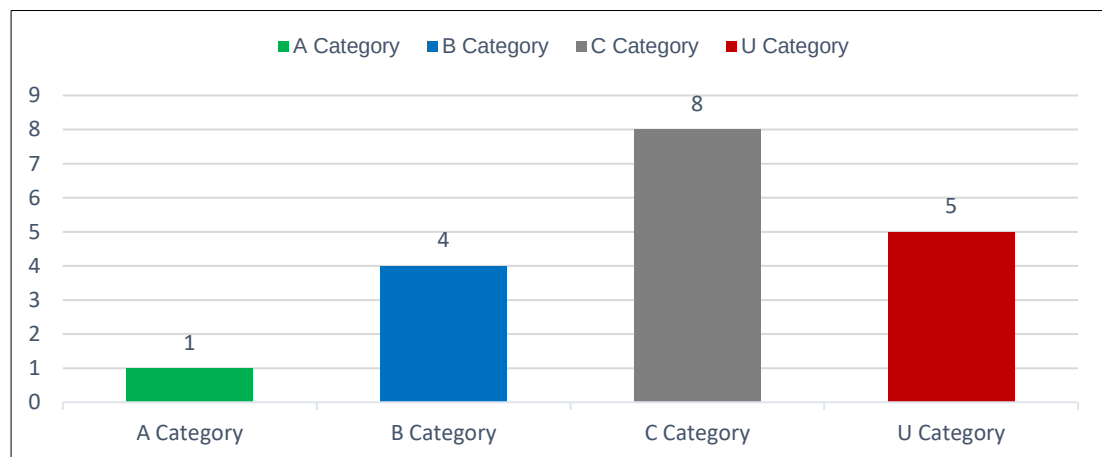


Figure 2: Breakdown of BS5837:2012 categories of the 18 survey entries recorded.

6 Analysis of the Proposal in Respect of Trees

Arboricultural Impacts

- 6.1 **Loss of trees** – All trees located within the Application Site are proposed to be removed to facilitate the development and landscape improvement works. This will include four trees and three groups of trees, all naturally regenerated and of low and poor quality and value (C & U Category). Details of the proposed tree removals are specified within the Tree Work Schedule at Appendix A and their location within the site is highlighted on the Tree Removals Plan at Appendix B.
- 6.2 The loss of trees will not have a significant impact on the character and appearance of the surrounding local area. The trees to be removed are of low and poor quality only and can be adequately replaced with new high-quality tree planting across the site.
- 6.3 **Pruning works** – Pruning works to neighbouring trees that are overhanging the site are required to provide sufficient clearance for construction operations. These works are considered to be minor and will not have a negative impact on the health or visual appearance of the trees concerned. Details of the proposed tree works are specified within the Tree Work Schedule at Appendix A.
- 6.4 **Construction operations** – The proposal requires the removal and replacement of existing hard standing within the RPAs of neighbouring trees as highlighted on the Tree Protection Plan at Appendix B.
- 6.5 To minimise impacting the roots of these trees, excavation works are not permitted to exceed beyond the depth of the existing sub-base layer or beyond the existing footprint of the hard standing. Works must be carried out under the supervision of the arboricultural consultant with the use of hand tools and a lightweight track machine.
- 6.6 **Drainage and services** – The location of the proposed drainage and service runs is currently unknown. Where proposed underground services are required, these will need to avoid the root protection areas of neighbouring trees. To ensure that trees are correctly considered, it will be necessary that arboricultural input is required during the detailed design of all proposed underground service and drainage runs.
- 6.7 If avoiding root protection areas is not possible, the installation of underground services and drainage runs must adhere to industry best practice. The BS 5837:2012 recommends the National Joint Utilities Group Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees Volume 4, issue 2: NJUG, 2007 as a normative reference in these instances.

- 6.8 It is essential that as part of the final design, all soakaways, manholes, and inspection chambers are located outside the RPAs of neighbouring trees, as the retention of roots will not be possible when installing these systems.
- 6.9 **Tree protection measures** – Neighbouring trees can be successfully protected during the proposed development works by using existing site features and installing robust fencing measures which comply with the recommendations outlined within BS 5837:2012. The location and specification of tree protection measures are highlighted in the Tree Protection Plan at Appendix B.

Arboricultural mitigation

- 6.10 The proposal includes sufficient space to carry out new high-quality tree planting across the site. This planting can have a positive impact on the character and appearance of the site and contribute to the local surrounding landscape.
- 6.11 New tree planting should take into consideration the character of the local landscape. It is important that a diverse selection of tree species is chosen to increase the resilience of the tree population due to the risks posed by pests and diseases and climate change. Species that would be considered suitable to this site include: *Amelanchier lamarckii*; *Crataegus prunifolia*; *Euonymus europaeus*; *Betula pendula*; *Ilex aquifolium*; *Magnolia x soulangeana*; *Morus nigra*; *Parrotia persica*; *Prunus pandora*; *Prunus shimidzu* Sakura; *Prunus shirofugen*; *Sorbus aria*.
- 6.12 All new tree planting should take into consideration the mature growing size of the trees proposed to ensure that a harmonious relationship between proposed structures (buildings and hard landscaping) can be sustained for the long-term without the need for unnecessary removal or pruning works.

7 Discussion & Conclusion

General Change

- 7.1 The proposed loss of trees has been assessed and will not have significant impact on the character and appearance of the surrounding landscape. The site has been left unmanaged for some time and is currently of restricted public benefit. The development presents an opportunity to regenerate the visual amenity value of the site through structured tree planting and appropriate landscape enhancements. Consideration can therefore be put towards sustainable species choices that both satisfy the need for public amenity and tolerate projected climate changes within the urban environment.

Proposal in relation to local planning policy

- 7.2 The proposed development complies with local planning policies as they relate to trees. Tree removals are required and their loss, and the impact it will have on the local area, have been assessed and mitigation measures proposed.
- 7.3 The proposal has been assessed in accordance with best practice BS5837:2012 and provided the recommendations as detailed within this report are followed, all retained trees can be successfully protected for the duration of construction.

Conclusion

- 7.4 All neighbouring trees can be successfully protected during the development by following the information provided within this report and adhering to industry best practice.
- 7.5 Provided the recommendations and methods of work as outlined within this report are followed, the proposed development can be successfully carried out without having a negative impact on the local area.

Section 2: Arboricultural Method Statement

Introduction	
This report has been prepared in accordance with British Standard 5837: Trees in relation to design, demolition and construction – Recommendations (2012) which provides a methodology for the assessment and protection of trees and other significant vegetation on development sites.	
Sequence of Operations	
• Proposed tree works. • Installation of tree protection measures. • Enabling works, including the installation of a site compound. • Construction, including the installation of drainage and services. • Landscaping. <i>Alternative sequences can be discussed and agreed with the local authority and project manager if required.</i>	
Supervision	
All key / critical activities that will affect trees during construction will be inspected and monitored by the approved arboricultural consultant. • Inspection of tree works and protection measures prior to the commencement of works; • Supervision during the refurbishment of hard standing within tree RPAs; • Supervision during the installation of drainage and services within tree RPAs; • Supervision during any other works that may affect retained trees; and • Tree inspection upon completion.	
Arboricultural Method Statement	
Scope	Methodology
Tree Works	Please refer to the Tree Work Schedule at Appendix A for a list of all proposed tree works. The location of trees to be removed is highlighted on the Tree Removals Plan at Appendix B. It is the responsibility of the Site Manager to ensure all tree works have been approved by the local planning authority.

	All tree works will be carried out by a reputable arboricultural contractor in accordance with the recommendations given in BS 3998:2010 – Tree Work Recommendations. All tree works should be carried out in accordance with Section 40 of the Wildlife Act 1976 and Section 46 of the Wildlife (Amendment) Act 2000. It is the responsibility of the arboricultural contractor to ensure that no protected species are harmed whilst carrying out site clearance or tree surgery works.
Tree Protection	The position of protective fencing for construction is shown on the Tree Protection Plan at Appendix B. Protective fencing must be constructed and installed using the BS5837:2012 fencing specification as detailed on the Tree Protection Plan. Alternatives to those shown must be agreed in advance by the client approved, arboricultural consultant. No materials or equipment other than those required to erect protective fencing will be delivered to the site before the fencing is installed. Signs will be fixed to every third panel stating, <i>'Tree Protection Area Keep Out – Any incursion into the protected area must be with the agreement of the local authority or arboricultural consultant'</i>. The main contractor will inform the local authority and the arboricultural consultant that tree protection is in place before site clearance works commence. No alteration, removal or repositioning of the tree protection will take place during construction without the prior consent of the arboricultural consultant.
Compound Area	The site compound must be located outside the designated TPZs as highlighted on the Tree Protection Plan at Appendix B. No excavation works within tree RPAs are permitted to install temporary services for site cabins and facilities. Any temporary services within tree RPAs must be above ground and protected accordingly. No operating generators or toxic liquids will be stored within the RPAs of retained trees during construction. Overhanging tree canopies must be taken into consideration when transporting, installing and removing site cabins near tree crowns. A banksman will be present during this process to ensure that all operations

	are carried out in a controlled manner and no part of the cabin meets overhanging tree crowns.
Removal of existing hard standing within tree RPAs	Areas of existing hard standing located within the RPAs of neighbouring trees will be removed using the following methodology: The upper surface of the existing hard standing will be fractured with a machine or using hand tools, and all loose material will be removed. The removal of the sub-base material must only be carried out under the supervision of the arboricultural consultant and works will not exceed beyond the depth of the sub-base layer into virgin soil. Where it is deemed necessary, temporary ground protection/tree protection barriers will be installed to protect newly exposed roots until practical completion.
Drainage and Service Installation	All methods of work for the installation of drainage runs or services within the RPAs of retained trees will follow the guidance within Table 3 of BS 5837 (2012), or National Joint Utilities Group (NJUG) <i>Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees</i>. Volume 4, issue 2, London NJUG 2007. Any approved works within the TPZ will be carried out using either hand tools such as an air lance and vacuum excavator or trenchless techniques as outlined within Table 3 of BS5837:2012. For excavation works, all roots greater than 25mm in diameter will be retained and will be immediately wrapped in dry hessian to prevent desiccation and temperature fluctuations. Roots will be pushed aside to allow for runs to be installed. In some cases, individual roots less than 25mm in diameter may be pruned, making a clean cut with a suitable sharp sterile tool (e.g. secateurs or hand saw). Prior to root pruning taking place, the contractor will consult the arboricultural consultant. Trenches should not remain open for more than one day. If this is unavoidable, any exposed roots should be watered and covered with hessian until the area is backfilled with soil. No machinery will be permitted within the TPZ at any time unless ground protection is installed and agreed upon with the arboricultural consultant beforehand. The requirement for temporary ground protection must be installed in accordance with Section 6.2.3.3 of BS 5837:2012.

	Prior to drainage or service installation works commencing within RPAs, the arboricultural consultant will be contacted, and a date agreed for a site meeting to run through the proposed methods of work on-site with the site manager and relevant site operatives.
General Principals to Avoid Damage to Trees	All tree works will be carried out in accordance with the recommendations given in BS 3998 (2010). No fires will be permitted within 20m of the crown of any tree. No changes in soil levels will take place within the tree protection zones without the prior written consent of the local authority. No materials, vehicles, plant or personnel will be permitted into the tree protection zones at any time without the prior consent of the arboricultural consultant. Any liquid materials spilt on site will be immediately cleared up and removed from the site. If liquid fuel or cement products are spilt within 2m of the tree protection zone, the contractor will report the incident to the arboricultural consultant immediately. The contractor will report any damage to trees or shrubs, whether caused by construction activities or from any other cause, to the arboricultural consultant immediately.
Landscape Operations	All landscape operations within the protected area will be carried out by hand, using hand tools only, unless otherwise agreed with by the arboricultural consultant. No dumping of spoil or rubbish, parking of vehicles or plant, storage of materials or temporary accommodation will be undertaken within the TPZs. All tree roots within the RPAs greater than 25mm diameter will be retained and worked around. Soil levels will not be increased or reduced within the RPAs of trees without prior agreement from the arboricultural consultant.

Appendix A - Schedule

Document	Reference	Revision
Tree Schedule	220428-PD-10	-
Tree Work Schedule	220428-PD-12	-

220428 - St. Finian's Terrace

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G1	1 Cerasus avium (Wild Cherry)	6.0	20 AVE	1									0.0		Early Mature	Structural condition Fair. Physiological condition Fair. Inappropriate retention costs. Natural regeneration. Height and stem diameter are average for group. Overgrown group of naturally regenerated trees. Quantities not recorded, only species mix.	29/04/2022	18.1	2.4	10-20	C1
	1 Prunus cerasifera 'Nigra' (Purple Cherry Plum)																				
	1 Sambucus nigra (Elder)																				
	1 Salix caprea (Goat Willow/Great Sallow)																				
	1 Acer pseudoplatanus (Sycamore)																				
	1 Buddleja davidii (Buddleja)																				
Tree T2	1 Acer pseudoplatanus (Sycamore)	6.0	20	1	2.5		2.5		2.5		2.5		3.0		Semi Mature	Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Root environment - Compacted. Root environment - Restricted. Structural impact - Potential.	29/04/2022	18.1	2.4	10-20	C2

Stem **green** Estimated valueStem **AVE** Average stem diameter for tree groupsStem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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

220428 - St. Finian's Terrace

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
Group G3	4 Acer pseudoplatanus (Sycamore) 1 Betula pendula (Silver Birch)	6.0	10 AVE	1									0.0		Semi Mature	Structural condition Poor. Physiological condition Fair. Inappropriate retention costs. Natural regeneration. Root environment - Compacted. Root environment - Restricted. Root damage - Mechanical. Structural impact - Potential. Height and stem diameter are average for group. Group of naturally regenerated trees located immediately adjacent to the existing building.	29/04/2022	4.5	1.2	0-10	U
Tree T4	1 Acer pseudoplatanus (Sycamore)	8.0	20	1	2.0		2.0		2.0			2.0	2.5		Semi Mature	Structural condition Poor. Physiological condition Fair. Fork - Weak with included bark. Natural regeneration. Root environment - Compacted. Root environment - Restricted. Root damage - Mechanical. Structural impact - Potential. Tree stem immediately adjacent to building.	29/04/2022	18.1	2.4	0-10	U
Tree T5	1 Salix caprea (Goat Willow/Great Sallow)	7.0	11 COM	2		1.5		1.0		2.0		1.0	4.0		Semi Mature	Structural condition Poor. Physiological condition Fair. Bark wound - Mechanical. Natural regeneration. Root environment - Compacted. Root environment - Restricted. Root damage - Mechanical.	29/04/2022	5.8	1.4	0-10	U
Tree T6	1 Alnus glutinosa (Common Alder)	11.0	25	1	3.0		3.0		3.0			3.0	3.0		Early Mature	Structural condition Fair. Physiological condition Fair. Bark wound - Mechanical. Deadwood - Minor. Natural regeneration. Root environment - Compacted. Root environment - Restricted. Root damage - Mechanical.	29/04/2022	28.3	3.0	10-20	C2
Group G7	1 Alnus glutinosa (Common Alder) 1 Buddleja davidii (Buddleja) 1 Salix caprea (Goat Willow/Great Sallow)	12.0	20 AVE	1									0.0		Early Mature	Structural condition Fair. Physiological condition Fair. Inappropriate retention costs. Natural regeneration. Height and stem diameter are average for group. Overgrown group of naturally regenerated trees. Quantities not recorded, only species mix.	29/04/2022	18.1	2.4	10-20	C1

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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

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220428 - St. Finian's Terrace

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Group G8	16 x Cupressocyparis leylandii (Leyland Cypress)	16.5	45 AVE	1									0.0		Early Mature	Structural condition Fair. Physiological condition Fair. Arboricultural work - Historic. Branch - Broken. Branch - Suspended. Inappropriate retention costs. Height and stem diameter are average for group. Neighbouring tree group. Quantities estimated. Trees are of low quality and limited value.	29/04/2022	91.6	5.4	10-20	C2
	4 Fraxinus excelsior (Ash)																				
	1 Alnus glutinosa (Common Alder)																				
Tree T9	1 Chamaecyparis lawsoniana (Lawson Cypress)	14.0	50	1		3.0		3.5		3.5		3.5	2.0		Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Ivy or climbing plant. Root environment - Compacted. Root environment - Restricted. Tree is located on neighbouring site.	29/04/2022	113.1	6.0	10-20	C2
Tree T10	1 Chamaecyparis lawsoniana (Lawson Cypress)	16.0	50	1		6.0		7.0		5.0		2.0	1.0		Mature	Structural condition Fair. Physiological condition Poor. Access to inspect base - Not possible. Die-back - Throughout crown. Decline - Suspected. Deadwood - Minor. Ivy or climbing plant. Unbalanced crown - Major. Tree is located on neighbouring site.	29/04/2022	113.1	6.0	0-10	U
Tree T11	1 Fraxinus excelsior (Ash)	16.0	60	1		6.0		5.0		7.0		7.0	4.0		Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Not possible. Competition - Adjacent trees. Deadwood - Minor. Ivy or climbing plant. Tree is located on neighbouring site.	29/04/2022	162.9	7.2	10-20	C2
Tree T12	1 Sorbus intermedia (Swedish Whitebeam)	12.0	48	1	4.5		4.0		3.0		5.0		2.5		Early Mature	Structural condition Fair. Physiological condition Good. Arboricultural work - Historic. Raised surface roots.	29/04/2022	104.2	5.8	20-40	B2
Tree T13	1 Tilia sp. (Lime sp.)	16.0	67	1	6.0		5.0		5.0		6.0		2.5		Early Mature	Structural condition Fair. Physiological condition Good. Branch - Broken. Deadwood - Minor. Fork - Weak with included bark.	29/04/2022	203.1	8.0	40+	B1/B2

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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

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220428 - St. Finian's Terrace

Tree ID	No. Species	Height (m)	Stem diameter (cm)	No. of Stems	CROWN SPREAD (m)								Crown clearance (m)	L.B. (m)	Life stage	Condition Notes	Survey date	RPA (m ²)	RPR (m)	Life expectancy (yrs)	BS Category
					N	NE	E	SE	S	SW	W	NW									
Tree T14	1 Fagus sylvatica (Common Beech)	17.0	60	1	4.0		7.5		6.5		6.5		3.0		Early Mature	Structural condition Fair. Physiological condition Good. Altered ground level - Historic. Arboricultural work - Historic. Buttresses / buttress roots - Buried. Fork - Weak with included bark.	29/04/2022	162.9	7.2	20-40	B2
Tree T303	1 Fagus sylvatica f. purpurea (Purple Beech)	17.0	95 COM	3	6.0		6.5		6.0		3.5		3.0		Late Mature	Structural condition Fair. Physiological condition Good. Arboricultural work - Historic. Decay / structural defect - Localised. Fork - Weak with included bark. Pruning wounds - Decayed.	29/04/2022	410.5	11.4	20-40	B2/B3
Tree T304	1 Fagus sylvatica f. purpurea (Purple Beech)	16.0	119	1	8.0		8.0		8.0		11.0		2.5		Late Mature	Structural condition Fair. Physiological condition Good. Arboricultural work - Historic. Decay / structural defect - Suspected. Pruning wounds - Decayed.	29/04/2022	640.6	14.3	40+	A1/A2
Tree T898	1 Acer pseudoplatanus (Sycamore)	16.5	70	1		7.0		1.5		6.5		7.5	0.0		Mature	Structural condition Fair. Physiological condition Fair. Access to inspect base - Restricted / obscured. Competition - Adjacent trees. Deadwood - Minor. Epicormic growth - Base. Ivy or climbing plant. Root environment - Restricted. Root damage - Suspected. Unbalanced crown - Minor.	29/04/2022	221.7	8.4	10-20	C2
Tree T899	1 Prunus sp. (Cherry sp.)	16.0	55	1		6.5		7.0		7.5		3.0	6.0		Mature	Structural condition Fair. Physiological condition Poor. Access to inspect base - Restricted / obscured. Competition - Adjacent trees. Die-back - Throughout crown. Decline - Suspected. Epicormic growth - Base. Ivy or climbing plant. Pruning wounds - Decayed. Root environment - Restricted. Root damage - Suspected. Unbalanced crown - Minor.	29/04/2022	136.8	6.6	0-10	U

Stem **green** Estimated value

Stem **AVE** Average stem diameter for tree groups

Stem **COM** Combined stem diameter in accordance with BS5837

L.B. Height of lowest branch attachment (m) - where relevant

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

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Table 1 of BS5837 (2012)

Cascade chart for tree quality assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
Trees unsuitable for retention (see note)				
Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years	* Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) * Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline * Trees infected with pathogens of significance to health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality NOTE Category U trees can have existing or potential conservation value which it might be desirable to preserve; see 4.5.7	RED		
	1 Mainly arboricultural qualities	2 Mainly landscape qualities	3 Mainly cultural values, including conservation	
Trees to be considered for retention				
Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years	Tree that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue).	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features.	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture).	GREEN
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation.	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality.	Trees with material conservation or other cultural value.	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.	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits.	Trees with no material conservation or other cultural value.	GREY

220428-PD-12 - Planning Tree Works Schedule

220428 - St. Finian's Terrace

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ID	No. / Species	BS5837 Category	Purpose of works Recommended works	Status
G1	1 <i>Acer pseudoplatanus</i> Sycamore	C1	To facilitate development Fell - Ground level.	Proposed
	1 <i>Buddleja davidii</i> Buddleja			
	1 <i>Cerasus avium</i> Wild Cherry			
	1 <i>Prunus cerasifera</i> 'Nigra' Purple Cherry Plum			
	1 <i>Salix caprea</i> Goat Willow/Great Sallow			
	1 <i>Sambucus nigra</i> Elder			
T2	1 <i>Acer pseudoplatanus</i> Sycamore	C2	To facilitate development Fell - Ground level.	Proposed
G3	4 <i>Acer pseudoplatanus</i> Sycamore	U	To facilitate development Fell - Ground level.	Proposed
	1 <i>Betula pendula</i> Silver Birch			
T4	1 <i>Acer pseudoplatanus</i> Sycamore	U	To facilitate development Fell - Ground level.	Proposed
T5	1 <i>Salix caprea</i> Goat Willow/Great Sallow	U	To facilitate development Fell - Ground level.	Proposed
T6	1 <i>Alnus glutinosa</i> Common Alder	C2	To facilitate development Fell - Ground level.	Proposed
G7	1 <i>Alnus glutinosa</i> Common Alder	C1	To facilitate development Fell - Ground level.	Proposed
	1 <i>Buddleja davidii</i> Buddleja			
	1 <i>Salix caprea</i> Goat Willow/Great Sallow			
G8	1 <i>Alnus glutinosa</i> Common Alder	C2	To facilitate development Reduce lateral limb / limbs. Reduce lateral growth overhanging site by 1.5m to facilitate construction works.	Proposed
	4 <i>Fraxinus excelsior</i> Ash			
	16 x <i>Cupressocyparis leylandii</i> Leyland Cypress			
T898	1 <i>Acer pseudoplatanus</i> Sycamore	C2	To facilitate development Lift low canopy - Specified extent. Crown lift to 4m above ground level within the site.	Proposed
T899	1 <i>Prunus</i> sp. Cherry sp.	U	To facilitate development Reduce lateral limb / limbs. Reduce lateral growth overhanging site by 2m to facilitate construction works.	Proposed

Appendix B - Plans

Document	Reference	Revision
Tree Survey Plan	220428-P-10	-
Tree Removals Plan	220428-P-11	-
Tree Protection Plan	220428-P-12	-



BS5837:2012 Tree Categorisation



Category A
Trees of high quality with an estimated remaining life expectancy of at least 40 years



Category B
Trees of moderate quality with an estimated life expectancy of at least 20 years



Category C
Trees of low quality with an estimated life expectancy of at least 10 years, or young trees with a stem diameter below 150mm



Category U
Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

Key



Root Protection Areas
The minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the trees viability.

T812

Reference Number for Tree, Group or Hedgerow.



Tree, Shrub or Hedgerow Group.

Client:
Meath County Council

Project:
St. Finian's Terrace

Title:
Tree Survey & Constraints Plan

Date: Apr 2022	Scale: 1:500 @ A3	Status: Planning
Drawn by: CMcC	Dwg ref: 220428-P-10	Rev: -
Checked by: CMcC		

This drawing is to be read in conjunction with the respective arboricultural schedules and reports relevant to this project.

Where contradictions between this drawing and any other design information becomes apparent, the respective authors should be contacted immediately.

It is the responsibility of the main site contractor to check and verify all information and measurements onsite and confirm prior to the commencement of works, and to ensure that all site operatives work in accordance with respective arboricultural reports and BS5837:2012, Trees in relation to design, demolition and construction.

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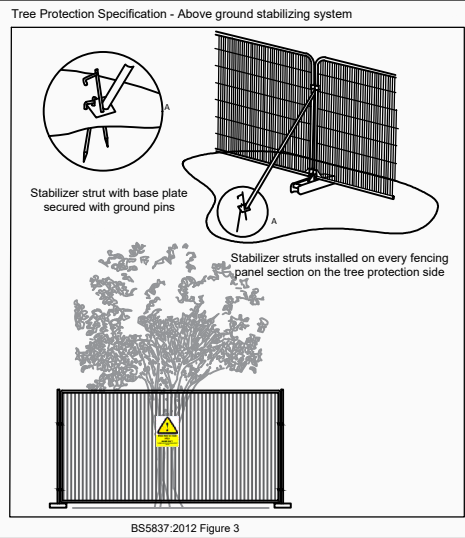


BS5837:2012 Tree Categorisation	
	Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years
	Category B Trees of moderate quality with an estimated life expectancy of at least 20 years
	Category C Trees of low quality with an estimated life expectancy of at least 10 years, or young trees with a stem diameter below 150mm
	Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

Key	
	Root Protection Areas The minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the trees viability.
	Reference Number for Tree, Group or Hedgerow.
	T812
	Tree, Shrub or Hedgerow Group.
	Trees and groups to be removed shown dashed and highlighted in grey.

Client: Meath County Council	
Project: St. Finian's Terrace	
This drawing is to be read in conjunction with the respective arboricultural schedules and reports relevant to this project. Where contradictions between this drawing and any other design information becomes apparent, the respective authors should be contacted immediately. It is the responsibility of the main site contractor to check and verify all information and measurements onsite and confirm prior to the commencement of works, and to ensure that all site operatives work in accordance with respective arboricultural reports and BS5837:2012, Trees in relation to design, demolition and construction.	

Tree Removals Plan			
Date:	Apr 2022	Scale:	1:500 @ A3
Drawn by:	CMcC	Dwg ref:	220428-P-11
Checked by:	CMcC	Status:	Planning
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BS5837:2012 Tree Categorisation

	Category A Trees of high quality with an estimated remaining life expectancy of at least 40 years
	Category B Trees of moderate quality with an estimated life expectancy of at least 20 years
	Category C Trees of low quality with an estimated life expectancy of at least 10 years, or young trees with a stem diameter below 150mm
	Category U Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years

Key

	Root Protection Areas The minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the trees viability.
	Reference Number for Tree, Group or Hedgerow. T812
	Tree, Shrub or Hedgerow Group.
	Tree Protection Zone - Protective fencing to be installed as per Specification. Designated Construction Exclusion Zone.

	Tree Protection Zone - Existing wall to be retained and act as tree protection.
	Area of existing hard standing. No excavation works permitted beyond existing sub-base layer. All works must be supervised by the arboricultural consultant.

Client: **Meath County Council**

Project: **St. Finian's Terrace**

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Title: Tree Protection Plan

Date: Apr 2022	Scale: 1:500 @ A3	Status: Planning
Drawn by: CMcC	Dwg ref: 220428-P-12	Rev: -
Checked by: CMcC		

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