Agenda No.9.



Tree Survey

by

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ProHort Limited

Station House

Station Road

Barlaston

Stoke-on-Trent

ST12 9DQ

For

Jo Adams

Evesham Town Council Ground Floor, Abbey Lane Court Unit 6, Abbey Lane Evesham WR11 4SB

Monday 9th January 2023

Station House Station Road Barlaston Stoke-on-Trent ST12 9DQ



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1.0 Introduction

ProHort Limited have been commissioned by Jo Adams of Evesham Town Council to conduct an arboricultural survey of the land at Evesham Cemetery, Evesham, WR11 1JS. This report details the arboricultural impact of the 5 trees surveyed on the site, subsequent mitigation, recommendations, and protective measures.

The survey was carried out on Monday 9th January 2023 by means of inspection from ground level by a qualified Arboriculturist Consultant. Trees were assessed in accordance with BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations.

Under the British Standard, the assessment of trees is made objectively and without influence by the client. The categorisation method identifies the quality and value of the trees that may be potentially influenced by any proposed works to a site as well as the impact of the tree upon the site.

Buildings are within the influence of the trees surveyed.

A total of 5 Individual trees (T1 – T5) were surveyed and mapped (refer to Drawing 1). All arboricultural information recorded within the survey is presented within Appendix 1.

The composition of the soils on site was not assessed during the survey. The possibility of soil movement due to tree root activity can't be discounted.

This report provides the results of the survey and includes the following:

- A schedule of all trees located within and externally to the site that may influence the existing properties (Appendix 1)
- An assessment based on BS 5837:2012, of the trees in terms of their potential value within any future development.
- Based on this assessment, the trees have been categorised into one of four categories: A, B, C or U.
- Advice on removal, retention, and management of the trees (Sections 5 & 7).

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A tree Constraints Plan detailing tree quality categories, for all trees surveyed (Appendix 1); and A Tree Removal and Protection Plan detailing the development proposals, trees to be retained and removed and temporary tree protection fencing alignment (Drawing 1 & Appendix 1).

2.0 Site and Surroundings

- 2.1 The area surveyed is located at Evesham Cemetery, 42 Waterside, Evesham off the B4035. The plot is part of a cemetery, bordering residential properties, numbers 33,35,37 and 39 Charles Close, Evesham, WR11 1HY. It comprises of the Cemetery and the bordering gardens to the residential properties in Charles Close, with peripheral tree cover and a few additional trees located centrally. Site access is via an existing highway the B4035.
- **2.2** Weather conditions during the survey were clear and dry.

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2.3 Images

Image 1 – T1 -T5 Showing proximity of the 5 trees to the bungalows on Charles Close



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3.0 Development Proposals

3.1 There is no proposed development.

4.0 Statutory Protection and Guidance

National Planning Policy Framework (NPPF)

- 4.1.1 The NPPF assumes protection of all ancient woodland and veteran trees unless it can be clearly demonstrated that the need for or benefits of development outweighs the loss. In this respect, ancient woodland is defined as an area which has been wooded continuously since at least 1600 AD. A veteran tree is one of exceptional value for wildlife, in the landscape, or culturally because of its great age, size or condition.
- 4.1.2 On this site, there are no ancient woodland or veteran trees.

5.0 Tree Protection Requirements

5.1 Tree Preservation Orders and Designations

- 5.1.1 Local authorities reserve the right to create Tree Preservation Orders (TPO) to protect the amenity value conferred to a location by a single tree or group of trees. Where a TPO is in force, lopping, topping, felling, uprooting or wilful damage caused to a tree such actions are prohibited and such actions may be prosecuted and incur a fine of up to £20,000 per tree affected. Works to TPO protected trees must only be undertaken with the written consent of the local authority.
- 5.1.2 No trees were found to have a TPO on within the area surveyed.
- 5.1.3 There are certain circumstances where written permission from the local planning authority may not be necessary before undertaking works. These include;

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- Making a tree safe if it is an imminent threat to people or property.
- Removing dead wood, or a dead tree.

Owners, managers or any persons wishing to undertake work as an exemption to the written permission process **are required** to provide the local planning authority with 5 days' notice prior to attending to a tree which they deem as being dead or dangerous; unless such works are required in an emergency. It is the tree owner's responsibility to provide proof that the tree was indeed dead or dangerous should this exception be challenged; hence, it is advisable always to request an inspection by the local authority Tree Officer prior to carrying out such operations. Furthermore, and even in the event of an emergency situation, there is still a duty to notify the local planning authority that work has been completed including supplying an explanation of the necessity.

5.2 Protected Species - Bats

- 5.2.1 Mature trees often contain cavities, crevices and hollows which are a potential habitat for roosting bats. Bats are afforded protection under Schedule 5 of the wildlife and Countryside Act 1981 (as amended), as well as under Schedule 2 of the Conservation of Species and Habitats Regulations 2010 and as such causing damage to a bat roost constitutes an offence.
- 5.2.2 A preliminary ground level appraisal of the wildlife habitat value of each tree was undertaken as part of the arboricultural survey. No trees were noted as having features suitable to support roosting bats.
- 5.2.3 Should the presence of a bat roost be suspected whilst undertaking works on any trees and groups on site, operations must be halted until a licensed bat handler or ecologist can provide advice.

5.3 Protected Species - Birds

5.3.1 Trees are a potential habitat for nesting birds, which as well as their nests and eggs are protected under the *Wildlife and Countryside Act 1981* (as amended).

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This makes it an offence to intentionally or recklessly, damage or destroy an active bird's nest or any part thereof.

5.3.2 Due to the suitability of the trees within the vicinity of the survey boundary for nesting birds, all tree work should ideally be undertaken outside the bird nesting season (British bird nesting season: March to August inclusively). If this is not possible then a detailed inspection of each tree should be undertaken by a qualified ecologist prior to arboricultural works. Should an active nest be found (being built, containing eggs, or chicks) work must be halted until the nest becomes inactive.

6.0 Tree Population

- 6.1 5 individual trees (T1 T5) were recorded that are growing within the boundaries of the surveyed site. A schedule of all trees and groups in terms of species, condition, age, management recommendations and BS 5837:2012 quality categories is provided in Appendix 1.
- 6.2 The tree population recorded is entirely confined within the site boundary with elements typical with its existing use as a Cemetery. Tree cover is prevalent along the East boundary, a few trees situated centrally to site respectively.

6.3 Tree Quality Categorisation

6.3.1 Under BS 5837:2012 Trees in relation to design, demolition and construction – Recommendations trees and groups objectively assigned a quality category designed to quantify their value within any future development. Table 1, below, presents a summary of the categories presented in the British Standard.

Table 1: Summary of BS 5837:2012 tree quality categorisation criteria.

Category A

Trees of high value including those that are particularly good examples of their species and/or those that have visual importance or significant conservation or other value.

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Category B	Trees of moderate value including those that do not qualify as Category A due to impaired condition and/or those that collectively have a higher value than they would as individuals; also trees with material conservation or other value.
Category C	Trees of low value including those with very limited merit or impaired condition; trees offering transient or temporary landscape benefits.
Category U	Trees with irremediable defects and anticipated early loss due to collapse; dead trees or those in immediate decline and those with infectious pathogens.

The rationale of this designation is to take account of individual trees or landscape features that may contain attractive or unusual qualities or characteristics, but are of poor form, poorly sited, or have a predicted lifespan of less than 20 years due to inherent weaknesses or faults as detailed in the *Schedule of Trees*.

7.0 Management Recommendations

7.1 Tree Work

- 7.1.1 All tree surgery including felling work should be carried out by a qualified contractor in accordance with BS 3998:2010 Tree work- Recommendations
- 7.1.2 All tree surgery works, once approved by the Local Planning Authority, will be carried out prior to any other site works.

7.1.3 Retaining Trees

7.2 Mitigation for the removal of trees

7.2.1 5 individual trees should be removed due to the close proximity to the bungalows and negate liability for the ground heave, possibly caused by the

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tree roots. The majority of these are low value. Mitigation for their loss and associated habitats may be required in the form of replacement tree planting.

- 7.2.2 If trees are to be removed, then suitable species choice is likely to include small ornamental type and/or native trees (Prunus or malus spp.).
- 7.2.3 The National Planning Policy Framework (NPPF) is a material consideration in the planning process and promotes a presumption in favour of sustainable development. In terms of the natural environment, development should minimise impacts on biodiversity and provide a net gain in biodiversity where possible.

7.3 Post Work Tree Care

- 7.3.1 Hazard recommendations are based on observations at the time of the survey. Trees are dynamic living organisms whose structure is constantly changing. Even those in good condition can suffer from damage or stress. Following site development, regular (annual or biennial) inspections of all retained trees should be undertaken by a qualified Arboricultural Consultant.
- 7.3.2 Aftercare is vital to the survival of any newly planted trees. Provision should be made for a minimum of two years maintenance of newly planted trees and include watering, formative pruning and the checking of tree ties and stakes.

7.4 Foundation Depth Calculations

- 7.4.1 This report has been written in accordance with, and to satisfy the requirement of *BS 5837:2012*.
- 7.4.2 The nature of the soils on site was not assessed during the survey. The possibility of soil movement due to tree root activity cannot be discounted.

8.0 Summary



- 8.1 A total of 5 individual trees were recorded during the survey within the area site boundary.
- 8.2 Based on an objective assessment made in accordance with BS 5837:2012

 Trees in relation to design, demolition and construction Recommendations the trees were all valued as category B features.
- 8.3 The 5 trees are confined to the periphery, with elements commensurate with the formal use of the site.
- 8.4 5 individual trees should be removed to prevent further structural defects and or damage to the bungalows.
- 8.5 At the time of the survey no trees within or immediately adjacent to the site were identified as being subject to Tree Preservation Orders.
- 8.6 No trees were found to have features suitable for roosting bats.

9.0 Survey Method

The survey of the tress was conducted from ground level only. The nature of the soils on site was not assessed. Trees are dynamic living organisms with a constantly changing structure; even trees in good condition can suffer from damage or stress. The information recorded is presented as being correct at the time of the survey.

9.1 The following features of each tree, group of trees or wood have been recorded in the Arboricultural Survey Date Sheets at Appendix 1.

8.6.1 Species

The common name is given. The Latin name may also be given if further clarification is required.

9.1.2 Height

Top height of tree recorded in metres.

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9.1.3 Stem Diameter

For single-stemmed trees, the measurement is taken at 1.5 metres above ground level and recorded in millimetres.

For multi-stemmed trees, an average of all stems measured at 1.5m above ground level is used.

For tree groups, a range from minimum to maximum diameters is provided based on measurements taken using one of the aforementioned methods.

9.1.4 No. of Stems

A count of stems arising below a height of 1.5 metres.

9.1.5 Crown Spread

The N, S, E and W branch spreads are recorded in metres to provide a representative crown shape.

9.1.6 Height of Lowest Branch

Crown clearance above ground level recorded in metres.

9.1.7 Direction of Lowest Branch

The direction of growth of the first significant branch from the point of attachment.

9.1.8 Maturity

Young:

Trees that can reasonably be relocated or replaced like for like, without undue cost.

Middle Age:

Trees in the established growth stage of their life with the potential to continue increasing in size.

Mature:

Trees that have reached their ultimate size, given their location and surrounding.

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9.1.9 Condition

Good, Fair, Poor:

An overall assessment of a tree's physiological and structural state in which factors that may increase its susceptibility to the effects of development are taken into account.

9.1.10 Veteran

Trees that are in such a condition as in significantly increase their biological, cultural or aesthetic value. This is characteristic of, but not exclusive to, individuals surviving beyond that typical age range of species concerned.

9.1.11 Comments

A brief evaluation and description of the tress with comments on form, vitality, health and any significant defects or symptoms of ill-health.

9.2 BS 5837 Tree Quality Assessment

The tree quality assessment is based on Table 1 of BS 5837:2012 (See below). Four categories (A, B, C and U) are used to denote tree quality (A=High, B=Moderate, C=Low, U=Unsuitable for retention). Sub categories (1-3) denote the specific function value of the trees and the reasoning behind the allocation of a specific category (the subcategories may be used in combination but do not accumulate collective weight).

9.3 Root Protection Area (RPA)

The RPA is allocated to ensure that a sufficient area is left undisturbed during development. It is provided as an area (m²) and as the radius of a circle (m) typically plotted from the centre of the stem.

The RPA is calculated using a mathematical equation included in BS 5837:2012 (Table D.1) and is based on a trees stem diameter. In some cased the RPA many need to be adapted to best reflect the likely area of the position of roots required to ensure survival; this may be based on criteria such as the tree's condition, species, crown spread and any barriers to growth. Any alteration must be justifiable but is made at the Arboricultural Consultants discretion.

9.4 Recommendations

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Recommendations for arboricultural works, etc. are based on the current land use and take into account the tree or group attributes without bias to the proposed development.

Any tree surgery works proposed as part of this Survey are recommended to mitigate any identified problems that may be caused by trees in close proximity to the bungalows, 33, 35,37 & 39 Charles Close, Evesham, WR11 1HY. To this end, should these recommendations be overruled, this Survey stands as the opinion of ProHort Limited, and therefore any damage or injury caused by trees recommended by this practice for felling or tree surgery works, to which the proposed schedule of works has been altered or the tree has been requested to be retained by the Local Planning Authority, cannot be the responsibility of this practice.

Whilst this is an arboricultural report, comments relating to non-arboricultural matters are given, such as built structures and soil data. Any opinion thus expressed should be viewed as provisional and confirmation from an appropriately qualified professional sought. Such points are clearly identified within the body of the report.

9.5 Estimated Remaining

Contribution

An estimation of the life expectancy as a healthy functioning tree. This will be influenced by species and the condition of the tree at the time of the survey.

Long > 40 years

Medium 20 – 40 years Short less than 20years

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			Subcategory		
Category	Description	Mainly arboricultural	Mainly landscape qualities	Mainly cultural values, including	Colour on Map
Della Series and		qualities		conservation	
		Trees unsuitable for retention	for retention		
Category U	Those in such a	Trees that have a ser	Trees that have a serious, irremediable, structural defect, such that	tural defect, such that	Dark Red
	cannot realistically	uneir earry loss is expe	uteir early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g.	cluding those that will edory U frees (e.g.	KGB Code -
	be retained as living	where, for whatever	where, for whatever reason, the loss of companion shelter cannot	vanion shelter cannot	
	trees in the context of the current land	Ī	be mitigated by pruning.		
	use for longer than	Trees that are dead o	Trees that are dead or are showing signs of significant, immediate,	ignificant, immediate,	
		2		j	
		Trees infected with p	Trees infected with pathogens of significance to the health and/or safety of other trees nearby, or year, low-mislity trees suppression	to the health and/or	
		adje	adjacent trees of better quality.	lity.	
		NOTE: Categor	NOTE: Category U trees can have existing or potential	ting or potential	
	1=	conservation valu	conservation value which it might be desirable to preserve.	rable to preserve.	

		Trees to be considered for retention	red for retention		
Category A	Trees of high quality with an estimated remaining life expectancy of at least 40 years.	Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or 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)	Light Green RGB Code - 000-255-000
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. the presence of significant though remediable defects, including unsympathetic past	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	Trees with material conservation or other cultural value.	Mid Blue RGB Code - 000-000-255

	Grey RGB Code - 091-091-091
	Trees with no material conservation or other cultural value
make little visual contribution to the wider locality.	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.
management and storm damage), such that they are unlikely to be suitable for retention beyond 40 years; or trees lacking the special quality necessary to merit the Category A designation.	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in the high categories.
	Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm
	Category C

Notes:

All young trees are assessed as quality category 'C' but this does not preclude their retention within a development.

9.3 Limitations & Qualifications

Tree inspection reports are subject to the following limitations and qualifications.

General exclusions

Unless specifically mentioned, the report will only be concerned with above ground inspections. No below ground inspections will be carried out without the prior confirmation from the client that such works should be undertaken.

The validity, accuracy and findings of this report will be directly related to the accuracy of the information made available prior to and during the inspection process. No checking of independent third-party data will be undertaken. ProHort Ltd will not be responsible for the recommendations within this report where essential data is not made available or is inaccurate.

This report will remain valid for one year from the date of inspection but will become invalid if any building works are carried out upon the property, if soil levels altered in any way close to the property, or if tree work is undertaken. It must also be appreciated that recommendations proposed within this report may be superseded by extreme weather or any other unreasonably foreseeable events.

If alterations to the property or soil levels are carried out, or tree work is undertaken, it is strongly recommended that a new tree inspection is carried out.

It will be appreciated, and deemed to be accepted by the client and their insurers, that the formulation of the recommendations for the management of trees will be guided by the following: -

- 1. The need to avoid reasonable foreseeable damage.
- 2. The arboricultural considerations Tree safety, Good Arboricultural practice (tree work) and aesthetics.

The client and their insurers are deemed to have accepted the limitation placed on the recommendations by the sources quoted in the attached report. Where sources are limited by time constraints or the client, this may lead to an incomplete quantification of the risk.

Jason Harker

Arboricultural Consultant

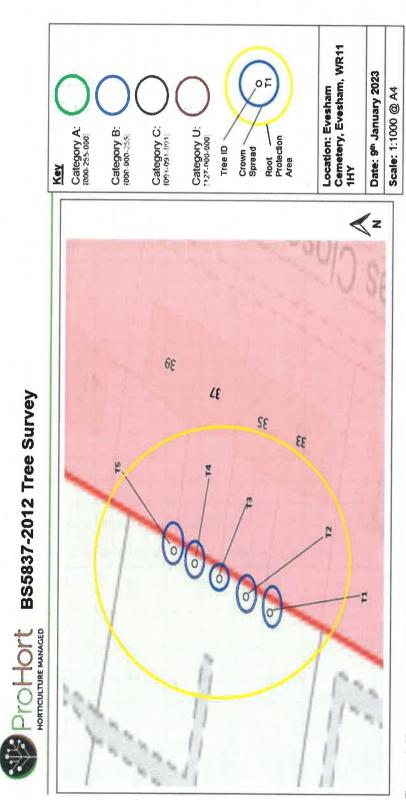
ProHort Limited

J. Kake

Site Plan - Drawing 1

Scaled plan of the existing Development along with all relevant Trees and Hedges plotted along with Root Protective Zone.

BS5837-2012 Tree Survey



The original of this report was produced in colour – a monochrome copy should not be relied upon. Unit 16, Sutherland Institute
Lightwood Road
Longton
Stoke on Trent
Stoke on Arent

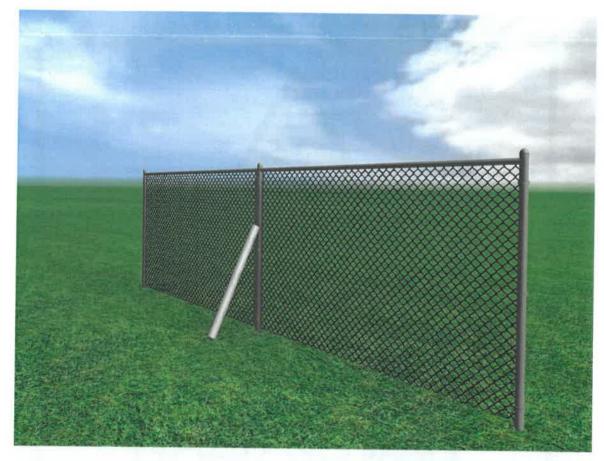
Telephone: 01782 479479 Email: info@ProHurt co uk Website: www. ProHurt co uk

Appendix 1: Arboricultural Survey Data Sheet

		St	Stems	Crown	vn		RP				
Tree & Tag No	Height		Dia	Spread	Clea	Age	A (m ²)	Physical	Structural	Preliminary Recommendations	Cat
Species	(m)	No	(mm)	(m)	r (m)		R (m)	Condition	Condition	Survey Comment	ERC
T1 Poplar				N 2	4		241.1			Due to the proximity of the tree to the	
Populus	33	-	730	E 5	4	Σ		Ц	n T	bungalows, there is a possibility that ground	B.2
	4		2	S	4	ž	0		л П	neave has been caused by the tree. To negate liability, we recommend removal of	
				W 2	4				ш	the tree.	
T2 Poplar				N 2.5	4			ш		Due to the proximity of the tree to the	B.2
Populus	ç	•	000	3	4	2	K		L O	bungalows, there is a possibility that ground	
	25	_	020	S 2	4	Σ	7 7		ட	neave has been caused by the tree. To negate liability, we recommend removal of	
				W 2	4		†.		ш	the tree.	
T3 Poplar				N 2	4			ш		Due to the proximity of the tree to the	B.2
Populus	C	4	240	E 2.5	4	2	% ₹		L L	bungalows, there is a possibility that ground	
	2	_	5	S 2	4	∑.	0		ம	neave has been caused by the tree. To negate liability, we recommend removal of	
				W 2	4			11.	В	the tree.	
T4 Poplar				N 3	4			ш		Due to the proximity of the tree to the	B.2
Populus	25	-	700	E 5	4	2	¥ 202.4		C L	bungalows, there is a possibility that ground	
	3	-	08/	S 3	4	>	0		R L	neave has been caused by the tree. To negate liability, we recommend removal of	
				W 3	4				ш	the tree.	
T5 Poplar				N 3	4		405.2	L		Due to the proximity of the tree to the	B.2
Populus	24	•	070	E 4	4	2			υ π	bungalows, there is a possibility that ground	
	5		2	S 2	4	Ξ			ь П	neave has been caused by the tree. To negate liability, we recommend removal of	
				W 2	4) . L		В	the tree.	
				Z			•				
				Ш			₹		၁		
				S			Ω		တ		
				3			2		m		



Appendix 2: Tree Protective Fencing Method



Heras Fencing with additional ground support to ensure the fencing will not be knocked over if accidentally knocked by machinery.

Protective fencing is not required for the proposed works contained within this report.



Appendix 3: "Construction Exclusion Zone – Keep Out" sign



This sign must be minimum A4 size and at 1.5 metres above ground level.

These are not required for the work proposed in this report.

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Appendix 4: BS 5837:2012 Terms and Definitions

Access Facilitation Pruning

One-off tree pruning operation, the nature and effects of which are without significant adverse impact on tree physiology or amenity value, which is directly necessary to provide access for operations on site.

Arboricultural Method Statement

Methodology for the implementation of any aspect of development that is within the root protection area, or has the potential to result in loss of or damage to a tree to be retained.

Arboriculturist

A person who has, through relevant education, training and/or experience, gained expertise in the field of trees in relation to construction.

Competent Person

A person who has training and experience relevant to the matter being addressed and an understanding of the requirements of the particular task being approached.

NOTE - a competent person is expected to be able to advise on the best means by which the recommendations of this British Standard may be implemented.

Construction

Site-based operations with the potential to affect existing trees.

Construction Exclusion Zone

Area based on the root protection area from which access is prohibited for the duration of a project.

Root Protection Area (RPA)

Unit 16 Sutherland Institute Lightwood Road Longton Stoke-on-Trent ST3 4HY



Layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree's viability, and where the protection of the roots and soil structure is treated as a priority.

Service

Any above or below ground structure or apparatus required for utility provision.

NOTE - examples include drainage, gas supplies, ground source heat pumps, CCTV and satellite communications.

Stem

Principal above ground structural component(s) of a tree that supports its branches.

Structure

Manufactured object, such as a building, carriageway, path, wall, service run, and built or excavated earthwork.

Tree Protection Plan

Scale drawing, informed by descriptive text where necessary, based upon the finalized proposals, showing trees for retention and illustrating the tree and landscape protection measures.

Veteran Tree

Tree that, by recognized criteria, shows features of biological, cultural or aesthetic value that are characteristic of, but not exclusive to, individuals surviving beyond the typical age range for the species concerned.

NOTE - these characteristics might typically include a large girth, signs of crown retrenchment and hollowing of the stem.