Moorland Avenue Barnsley

Gleeson Homes & Regeneration

TREE SURVEY REPORT



tba

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Ref: DF/4185/TreeSurveyReport

TREE SURVEY REPORT



Moorland Avenue, Barnsley

1.0 INTRODUCTION

1.1 This site consists of a strip of land containing a decommissioned Barnsley MBC building, which is situated off Moorland Avenue, Barnsley. The tree cover on the site is minimal and is mainly made up of a large group of deciduous trees on the Southern boundary of the site with a handful of individual trees scattered within and around the site. A full schedule containing the tree details are included in a schedule in Section 10.0.



- 1.2 This report is to act as an aid to layout by identifying the better trees, specifying protective measures and also any work that might be necessary to maintain the trees in an improved or safer condition.
- 1.3 This survey complies with British Standard 5837:2005 Trees in relation to construction -Recommendations. All significant trees or groups within the site have been inspected, identified and detailed. An assessment of condition is included and any work considered necessary to put the trees into a safer or improved condition. Also recorded is the minimum recommended area of protection for each tree, within which no activity should take place (this is generally the position for protective fencing to be erected before development starts).
- 1.4 Site visit 7th March 2012. Surveyor: Dan Farnworth Bsc Arb MICFor. Weather conditions: Clear.

1.5 Limitations.

 Due to the changing nature of trees – and possibly other site circumstances – this report and recommendations are limited to a two year period. Similarly, this report could be invalidated if any alterations are made to the property that could change the conditions as seen at time of inspection.
 Under certain circumstances, roots can affect foundations, drains and other underground services. These issues have <u>not</u> been addressed by this report.

3) Trees are dynamic structures that can never be guaranteed 100% safe; even those in good condition can suffer occasional damage under only average weather conditions. A lack of recommended work does not imply that a tree will never suffer damage.

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2.0 METHOD

2.1 <u>Site</u>. The survey was carried out from ground level and without the use of special diagnostic equipment (unless otherwise stated). Lower-grade material may been treated as numbered groups, for example where in rows or dense groupings.

Schedule. The following information is given in the schedule, to BS5837:

• Number.

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- Tree Name. Species (common and Latin).
- Height (metres).
- DBH 1.5m (millimetres).
- Crown spread N E S W (metres).
- Crown clearance (height of lower branches above ground) (metres).
 - Age class (Young, Early-Mature, Semi-Mature, Mature, Over-Mature, Veteran).
- Physiological condition (Good, Fair, Poor, Dead). An assessment of vitality (leaf or bud size/colour/density, annual extension growth, lack of die-back etc).
- Structural condition (Good, Fair, Poor, Damaged)
- Estimated remaining contribution (years, 0-10 10-20 20-40 40+).
- Root Protection Area from BS 5837: 2005 (area in square metres and as a radius in metres). This is the basis of the Root Protection Area marked as a circle on the Tree Constraints Plan (may have been modified in light of site circumstances). This is generally the minimum position for protective fencing.
- Category grading:
 - R = Remove (irremediable or with less than 10 years contribution).
 - A = High quality and value, preferably with min. 40 years contribution.
 - B = Moderate quality and value.

C = Low quality and value. Also young trees with stem diameter below 150mm (these may be considered for relocation).

Subcategory:

- 1 = mainly arboricultural merit.
- 2 = mainly landscape merit.
- 3 = mainly cultural or conservation merit.
- Crown class, Structural defects and further detail..

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3.0 TREES AND CONSTRUCTION: OVERVIEW

3.1 Tree rooting is widely misunderstood and it is a surprising fact that, typically, about 80% of roots will be found in the upper half metre of soil and often extending well beyond the canopy spread. The threat to the trees by development comes from (a) root severance or fracture (b) compaction of the soil, preventing gaseous exchange and moisture percolation (c) possible change to moisture gradients due to surface water run-off or interception as well as (d) physical damage to low branches and trunk.

The consequences for the tree of such damage are (i) instability, if severe enough, (ii) entry points for pathogenic fungi at wounds / fractures (iii) loss of vitality due to reduced oxygen, mineral and moisture take-up; all leading to (iv) root death and (v) a general decline or possible death of the tree.

4.0 **PROTECTION OF RETAINED TREES**

- 4.1 Protection is afforded to the tree by defining a Root Protection Area (RPA) within which no development activity should take place. The size of the RPA is defined in the British Standard and relates to trunk diameter. The RPA is normally the minimum position for protective fencing.
- 4.2 <u>Where considered appropriate by the arboriculturalist</u>, and for individual open grown trees only, BS 5837 allows for a displacement of the Root Protection Area by up to 20%. The area may also vary from an exact circle, to allow for specific site conditions.
- 4.3 Where the LPA agrees to activity taking place within the RPA then it is likely that special measures will be required, such as a 'no dig' construction method for drives.
- 4.4 To give the best chance of continued good health of the retained trees, it will be essential to prevent root severance or compaction of the soil in the Root Protection Area. To achieve this, a stout fence should be erected at the position shown on the plan (or if this is not indicated, at the limit of the Root Protection Area). This should be done before any site materials or machinery are brought onto site, and should comprise a scaffold frame with steel mesh panels securely attached (eg Heras). Mesh is preferred to boarding as it can be seen through and should be re-useable. Use of rubber or concrete feet instead of a frame is not acceptable as these can easily be moved. Once in place, the fence must be regarded as sacrosanct with no storage of materials/spoil or access by machinery within the protected area.
- 4.5 All weather notices should be fixed to the barrier reading "Root Protection Area No Access".
- 4.6 Where temporary access within the Root Protection Area is agreed, the fence may need to be realigned and the ground surface protected. For vehicular access this protection will need to be specifically detailed and agreed.
- 4.7 Site operations such as deliveries, site machines, crane jibs etc should be organised to avoid damaging the trunk or crown of trees. Where this conflict is unavoidable then facilitation pruning should be carried out in advance, rather than after damage has occurred. This may be required to allow demolition operations.
- 4.8 Material which could contaminate the soil eg concrete mixing, fuel, vehicle washings etc should not be discharged within 10m of the stem of any tree, and not on ground beyond sloping down to the tree.
- 4.9 Fires should either not be permitted, or else not lit where flames could extend to within 5m of the foliage, branches or trunk.
- 4.10 No notice boards, cables, nails or other items should be attached to any part of the tree.

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5.0 ARBORICULTURAL METHODS

- 5.1 The arboricultural consultant (or local authority Tree Officer) should be consulted whenever an unexpected issue occurs that involves any tree on site including access within the Protection Area.
- 5.2 All tree work should be carried out to the highest standards, based on British Standard 3998:2010 'Recommendations for Tree Work' and current best practice.
- 5.3 To ensure standards are met it is recommended that a contractor from the Approved List of the Arboricultural Association be used (01794 368717 <u>www.trees.org.uk</u>).
- 5.4 It is recommended that when the final layout is agreed with the LPA, a final Arboricultural Method Statement and Tree Protection Plan be drawn up. This will bring together many of the items above in a simpler document.

6.0 WILDLIFE ISSUES AND TIMING OF OPERATIONS

- 6.1 Bats. Under current legislation it is an offence to 'intentionally or recklessly disturb a bat' or 'damage, destroy or block access to the resting place of any bat' (Countryside and Rights of Way Act 2001 and further strengthened by other legislation). Where work is being carried out and bats are present, or if the tree is a known roost, consultation must be made with the Statutory Nature Conservancy Organisation (Natural England, 0300 060 1842 <u>www.naturalengland.org.uk</u>). A European Protected Species Habitat Regulations Licence is likely to be required. Work to trees with the potential for roosting bats is best done from late August to early October. March through to April is also suitable although this may conflict with nesting birds (see below).
- 6.2 Birds. It is also likely to be an offence to kill, injure or take any wild bird; or take, damage or destroy the nest of any wild bird while it is in use or being built. Therefore work likely to disturb nesting birds should be avoided from late March to August.
- 6.3 All trees requiring work here should be evaluated prior to work starting, and ideally work should be carried out during August early October.
- 6.4 The pruning of some species should avoid specific times. Prunus species (eg flowering and fruiting Cherry, Plum, Almond etc) should only be pruned during June August in order to minimise the risk of infection by Silver Leaf disease. Acer (Maples including Sycamore), Betula (Birches) and, Morus (Mulberry) should not be pruned February June due to sap bleeding; also Juglans (Walnut) from December June.

7.0 PLANNING CONSIDERATIONS

7.1 If the site is subject to Tree Preservation Orders (TPO) at present, any pruning work to protected trees (or their removal) will have to be authorised by the Local Planning Authority, and should be the subject of a formal application. Any pruning of felling of trees within a Conservation Area requires a notification to the Local Planning Authority. Certain exemptions apply to these planning provisions. For any trees not already under a TPO, the Local Planning Authority may impose some tree protection as part of the planning process, either as a 'condition of planning' or by the placement of a TPO.

8.0 SCHEDULE EXPLANATION



9.0 CASCADE CHART FOR TREE QUALITY ASSESSMENT

Category		Criteria	
'R' Those in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management. TREES TO BE CONSIDERED FOI	 those that will become unviable companion shelter cannot be r Trees that are dead or are sho Trees infected with pathogens very low quality trees suppress NOTE: Habitat reinstatement may tree) 	nediable structural defect, such that their early loss is expected e after removal of other 'R' category trees (ie where, for whate	ver reason, the loss of cline. y (eg Dutch Elm disease) or
TREES TO BE CONSIDERED FOR	1. Mainly arboricultural values	2. Mainly landscape values	3. Mainly cultural values, including conservation
'A' Those of high quality and value: in such a condition as to be able to make a substantial contribution (a minimum of 40 years is suggested)	Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboricultural features (eg the dominant and/or principal trees within an avenue)	Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (eg avenues or other arboricultural features assessed as groups)	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (eg veteran trees or wood pasture)
'B' Those of moderate quality and value: in such a condition as to make a significant contribution (a minimum of 20 years is suggested)	Trees that might be included in the high category, but are downgraded because of impaired condition (eg presence of remediable defects including unsympathetic past management and minor storm damage)	Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal arboricultural features (eg trees of moderate quality within an avenue that includes better 'A' category specimens) or trees situated mainly internally to the site, therefore individually having little visual impact on the wider locality	Trees with clearly identifiable conservation or other cultural benefits
'C' Those of low quality and value: currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested) or young trees with a stem diameter below 150 mm	Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value and/or trees offering low or only temporary screening benefit	Trees with very limited conservation or other cultural benefits
		sually not be retained where they would impose a significant co ss than 150 mm should be considered for relocation	nstraint on development,

10.0 SCHEDULE

Tree Group Hedge	Age Class Common Name Botanical Name	Height (m)	Trunk Dia. (mm) @ 1.5m	Trunk dia. @ Base (mm)	Canopy	N S	E	Crown Height (m)	Physiological Condition Structural Condition Crown Class	Life Expectancy	Retention Category	Root Protection Area (m)	Root Protection Radius (m)	Recommendations	
	Mature		-			5			Fair					Trifurcates at badly decayed	
T1	Cherry	9	0	1000	5		5	2	Poor	<10	R	314	10.0	base. Risk of failure likely causing stem to split and	
	Prunus avium		1			5			Dominant					collapse. Should be removed.	
	Early-Mature					1			Fair					Low value. Remove.	
T2	Elder	3	100		0		1	0	Poor	<10	R	5	1.2		
	Sambucus nigra					1			Dominant	1					
	Early-Mature				1000	1	2.4.4.9		Fair					Mishapen. Self-seeded. Low	
T3	Ash	5	100		2		2	2	Poor	<10	R	5	1.2	value. Should be considered for removal.	
	Fraxinus excelsior					2			Codominant						
	Early-Mature		5 200			1	3	1	Fair			18	2.4	Leans towards North into site. Limited value.	
T 4	Cherry	5		1 3	3				Fair	10+	C1				
	Prunus avium				1.1	3			Dominant						
	Mature					0			Fair					Un-managed hawthorn	
G1	Hawthorn Elder Ash Cherry	4	200		0	0	0		Fair	10+	C2	18	2.4	boundary hedge, self seeded deciduous trees and scrub creating a reasonably effective screen from Motorway (M1).	



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