



ARBORICULTURAL METHOD STATEMENT &
TREE PROTECTION PLAN

At: 35 HIGH BANK, THURLSTONE,
SHEFFIELD,
S63 9QH

For: Ross Beesley

September 2016

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1. Limitations

- 1.1 This is an arboricultural method statement and tree protection plan describing how the trees on the site will be protected and managed during the development. It is based on the best available information available at the time of writing and is provided in good faith. Its purpose is to explain how and when the protection measures should be installed and how they will be maintained for the duration of the development activity in order to ensure trees are adequately protected during construction activity.
- 1.2 The assessment of trees as part of the commission was made from ground level and the trees were inspected for the purpose of possible development of the site. Please note that no assessment of the risk of harm from tree failure was undertaken and no assessment was made with respects of the risk of damage from trees to structures.
- 1.3 Any defects not observed by Acorn Arboriculture but seen by an arboriculturist or other must be brought to Acorn Arboriculture's attention immediately.
- 1.4 Any work recommended by Acorn Arboriculture must be undertaken in accordance with BS3998: 2010 – Recommendations for work to trees. Arboriculturists undertaking such work must be appropriately qualified and covered by adequate insurance.
- 1.5 Acorn Arboriculture will accept no liability in respects of any recommended tree work unless such work is undertaken under the supervision of Acorn Arboriculture.
- 1.6 It is recommended that trees on the site are regularly inspected with respects of risk of harm.
- 1.7 Measurements were obtained using specialist equipment or where necessary estimated.

2. Purpose & Brief

2.1 We have been commissioned by Mr Ross Beesley of 35 High Bank, Thurlstone, Sheffield, S63 9QH to provide arboricultural advice to assist development which has been approved by Barnsley Metropolitan Borough Council (decision 2016/0396). The land for which consent has been granted is at: 35 High Bank, Thurlstone, Sheffield, S63 9QH.

2.2 The following arboricultural conditions with decision notice 2016/0396 apply:

Condition 4: No development or other operations being undertaken on site shall take place until the following documents in accordance with BS 5837:2012 Trees in relation to design, demolition and construction - Recommendations have been submitted to and approved in writing by the Local Planning Authority:

Tree protective barrier details
Tree protection plan
Arboricultural method statement

No development or other operations shall take place except in complete accordance with the approved methodologies.

Reason: To ensure the continued well being of the trees in the interests of the amenity of the locality.

Condition 5: The erection of barrier's for the protection of any retained tree shall be undertaken in accordance with the approved plans and particulars before any equipment, machinery or materials are brought on to the site for the purposes of the development, and shall be maintained until all equipment, machinery and surplus materials have been removed from the site. Nothing shall be stored or placed in any area fenced off in accordance with this condition and the ground levels within those areas shall not be altered, nor shall any excavation be made, without the written consent of the Local Planning Authority.

Reason: To safeguard existing trees, in the interest of visual amenity.

Condition 6: No hedges or trees on the site or their branches or roots, shall be lopped, topped, felled, or severed unless agreed in writing with the Local Planning Authority. If any retained tree is removed, uprooted or destroyed or dies, another tree shall be planted at the same place and that tree shall be of such a size and species, and shall be planted at such time, as may be specified in writing by the Local Planning Authority.

Reason: To safeguard existing trees/hedges, in the interests of the visual amenities of the locality.

- 2.3 This report and any accompanying plans are to comply with the above conditions and can be submitted to the Local Planning Authority before commencing development.

3. Statutory Controls

- 3.1 We understand from the planning documents that the trees are not protected by a Tree Preservation Order but T1 is within the Conservation Area. In addition condition 6 of decision 2016/0396 requires LPA permission before work is undertaken to the trees.
- 3.2 **Therefore no work to the trees on the site should therefore be carried out until the relevant Local Planning Authorities consent is given.**
- 3.3 The Wildlife and Countryside Act 1981 (together with the amendments of 1985 & 1991, the subsequent variations to the schedule orders, and strengthening amendments made within the Countryside and Rights of Way Act 2000) forms the basis for legislation protecting Britain's flora and fauna. Nesting birds and all species of bat are afforded statutory protection. It is therefore important to be vigilant when implementing tree and woodland management operations and an appropriate level of risk assessment should be carried out in consideration of the following:
- disturbing a nesting bird
 - disturbing a roosting bat or damaging, destroying or blocking access to a bat roost
 - intentionally killing, injuring or taking a bat
 - being in possession or control of a bat or anything derived from a bat

4. Implementation

- 4.1 This document takes precedent to all other tree protection documentation in relation to the site to date. It provides information regarding the timing, type of protection and the manner in which protection and improvements shall be undertaken to improve the chances of tree retention.
- 4.2 The following table (TABLE 1) provides phasing during the development sufficient to provide a high level of confidence in the outcome for trees retained during the development and sets out a series of parameters for construction activity based on the Root Protection Areas and the physiological needs of the trees.
- 4.3 TABLE 2 provides the tree survey and work required to trees to implement the development which will require approval under condition 6.
- 4.4 The TREE PROTECTION PLAN (see APPENDIX 1) provides the site and location of tree protection in relation to the approved development.
- 4.5 FIGURES 1 and 2 show the specification of temporary tree protection fencing to be used.
- 4.6 Compliance with this method statement should be a requirement of all relevant contracts associated with the development proposals and shall be appended on to all contractors and subcontractor documentation. The building contractor/project manager should inform Acorn Arboriculture immediately if there are any difficulties, not foreseen by Acorn Arboriculture at the time of writing, in complying with the sequence of tree protection measures prescribed or tree work required.
- 4.7 No arboricultural work to the above ground parts of the surveyed trees is required in connection with the development (unless the engineer/project supervisor indicates otherwise).

5. TABLE 1 Tree Protection Phasing

No.	Operation*	Timing	Arboricultural Supervision	Specific Tree Protection Measures During Operation#
1	Carry out tree works (i.e. pruning and removals) in accordance with TABLE 2 and written agreement with LPA, and remove all existing ground vegetation within working area	To commence prior to any other site works, including deliveries	Consulting arboriculturist to appraise works following its completion	No vehicular or plant access within tree RPAs under soft surfaces
2	Install temporary ground protection measures in accordance with tree protection plan (APPENDIX1 and FIGURES 1 & 2).	Temporary ground protection to be installed immediately on completion Item 1, and prior to any other works, including deliveries	Consulting arboriculturist to verbally brief contractor on site prior to starting works and to appraise protection following its erection	No vehicular or plant access within tree RPAs under soft surfaces
3	Carry out demolition of existing wall by hand and ground works, pulling the existing outbuilding wall away from the trees	To commence on completion of Item 2	At suitable frequencies for the length and timing of the works	See 'General Recommendations'
4	Carryout any root remediation work as required	To commence on completion of Item 3	Consulting arboriculturist to verbally brief contractor if roots over 25mm diameter are affected	See 'General Recommendations'
5	Commence site deliveries of construction materials, to be stored on retained garage slab	To commence on completion of Item 4	At suitable frequencies for the length and timing of the works	See 'General Recommendations'
6	Build out retaining structures. Retaining structures/walls to be built in accordance with engineering recommendations	To commence on completion of Item 5	At suitable frequencies for the length and timing of the works	See 'General Recommendations'
7	Complete main construction works and remove all associated operational materials	To commence on completion of Item 6	Consulting arboriculturist to visit site following completion of main construction works	See 'General Recommendations'
8	Remove temporary ground protection	To commence on completion of Item 7	At suitable frequencies for the length and timing of the works	See 'General Recommendations'

*Note 1: All operations to be subject to approved risk assessments and method statements to be provided by applicable contractor(s)

#Note 2: The list of General Recommendations in Respect of Works, detailed overleaf, shall also be adhered to by all site operatives during all works

6. TABLE 2 Tree Survey Schedule

Item No.	Species Common name (Latin name)	Height (M)	DBH (mm)	Spread (N)	Spread (S)	Spread (E)	Spread (W)	Age Class	Crown Clearance (M)	Physiological Condition	Structural Condition	Life Expectancy	Amenity Value	Retention Category
T1	Sycamore <i>Acer psuedoplatanus</i>	18	1000	6	5	5	5	M	5	Good	Good	20+	High	A
Notes: Single stem, mature, pruning wounds evident, high crown due to over lifting, the tree is of reasonable health and form, wounds are occluding sufficiently to contain decay. Reaction growth evident throughout the crown. Deadwood present and stubs. Located within the Conservation Area.										Action: No action			RPA:	
T2	Sycamore <i>Acer psuedoplatanus</i>	20	400-600	6	7	6	5	M	2.5	Good	Good	20+	Mod	C
Notes: Multi-stemmed tree 4 trunks, many stubs and wounds through-out the canopy and on the trunk. Dense crown reaction growth present, wounds have stimulated occlusion material. This tree has a slight lean and is not located within the conservation area.										Action: No action			RPA:	
T3	Sycamore <i>Acer psuedoplatanus</i> X4	14+	400-600	SEE PLAN				S/M	4	Good	Good	20+	High	A
Notes: Trees of good health, slight misshaped crown due to neighbouring trees being removed, pruning wounds evident, deadwood in crown. Noticeable trees worthy of retention.										Action: No action			RPA:	

7. Temporary Tree Protection Fencing Specification

FIGURE 1:

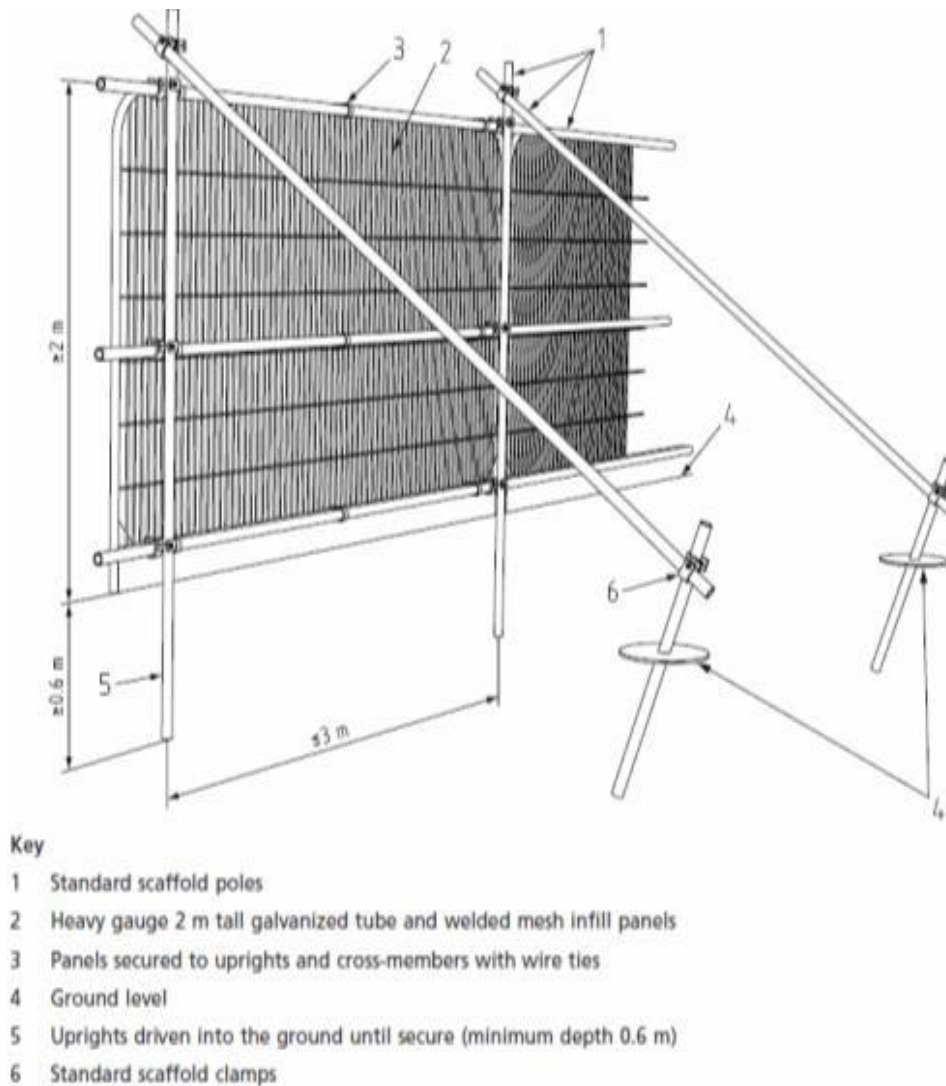


FIGURE 2: Warning signs to be attached to fencing:



8. General Recommendations:

- All tree works recommended in this report should be implemented by suitably qualified and experienced arboricultural contractors in accordance with the tree works detailed in the Tree Survey Schedule prior to the erection of the Temporary Protective Fencing.
- All tree works should conform to British Standard BS3998:2010 Tree Work - Recommendations.
- Performance of all arboricultural operations and use of equipment should be in accordance with current directives of the Health and Safety Executive (HSE) and industry codes of practice.
- All operatives should be equipped with and use Personal Protective Equipment (PPE) in accordance with current directives of the HSE and industry codes of practice.
- All tree stumps scheduled for removal that are located within a distance of 6.0 metres of any retained tree should be removed by mechanical stump grinder and not by mechanical excavator.
- All possible efforts should be made by the tree contractor to prevent damage to retained trees.
- There shall be no vehicular or plant (e.g. wood chipper) access within the RPAs of retained trees, as detailed on the Tree Protection Plan.
- All tree works arising should be removed from the site.
- No services are to be installed below ground level within the Construction Exclusion Zone (CEZ).
- No construction related operations shall occur within CEZs.
- No concrete, mortar or cement shall be mixed within CEZs.
- Any tree roots exposed after wall demolition must be left intact as careful digging with hand tools will allow. Roots can become desiccated quickly and should be covered with a dry cloth to prevent freezing overnight or a wet cloth on warm days.
- If roots are to be severed then clean, straight cuts must be made, in order to minimise the extent of wounding. If roots with a diameter of greater than 50mm are

encountered, then a representative from JCA must first be informed before any further work is undertaken.

- No vehicular or plant access should occur within CEZs other than as detailed in this Arboricultural Method Statement (where applicable).
- All construction equipment and materials shall be stored outside CEZs.
- No fires should be lit within 15.0m of any tree crown.
- Deliveries by crane/Hiab should be supervised by the Site Agent, positioning the vehicle in such a manner that retained trees are not put at risk of damage.
- No substances with potential to contaminate the soil (e.g. chemicals, concrete washings, diesel, vehicle washings, etc.) should be discharged within 10.0m of any tree crown. This should take into consideration the topography of the site in order to avoid materials running towards trees.
- No notice boards, phone cables or services should be attached to any part of any tree.
- A log should be kept of any activity or incident with an impact or potential impact on protected trees and made available at all times for review by the supervising arboriculturist and the tree officer.

Appendix 1 - Tree Protection Plan

Appendix 2 - Explanation of Tree Survey Schedule

Measurements:

HEIGHT of the tree is measured from the stem base in metres. Where the ground has a significant slope the higher ground is selected.

CROWN HEIGHT is an indication of the average height at which the crown begins. Also recorded is the height of the first significant branch and the direction of growth.

STEM DIAMETER is measured at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed below a height of 1.5 metres, the diameter is measured at the narrowest point below the fork.

CROWN SPREAD is measured from the centre of the stem base to the tips of the branches in all four cardinal points.

Estimated measurements are denoted by *

Evaluations:

AGE CLASS of the tree is described as young (Y), semi-mature (SM), early-mature (EM), mature (M), or over-mature (OM).

PHYSIOLOGICAL CONDITION is classed as good (G), fair (F), poor (P), or dead (D). This is an indication of the health of the tree and takes into account vigour, presence of disease and dieback.

STRUCTURAL CONDITION is classed as good (G), fair (F) or poor (P). This is an indication of the structural integrity of the tree and takes into account significant wounds, decay and quality of branch junctions.

LIFE EXPECTANCY is classed as; less than 10 years, 10-20 years, 20-40 years, or more than 40 years. This is an indication of the number of years before removal of the tree is likely to be required.

Retention Categories:

A (marked green on the plan) = trees of high quality.

These trees are of high quality and value with a good life expectancy. They may be further sub-divided as follows:

A1) Particularly good examples; perhaps rare or unusual species, or forming an essential part of arboricultural features e.g. avenues.

A2) Groups of trees having a significant landscape impact or with excellent screening properties, or those softening the effect of existing structures.

A3) Those having significant conservation or historical value e.g. veteran trees.

B (marked in blue on the plan) = trees of moderate quality.

These trees are of moderate quality and value with a significant life expectancy. They may be further sub-divided as follows:

B1) Trees that might be included in the high category but because of their numbers or slightly impaired condition, are downgraded in favour of the better individuals.

B2) Groups of trees forming distinct landscape features, thereby attracting a higher collective rating than they might as individuals.

B3) Trees with clearly identifiable conservation or other cultural benefits.

C (marked in grey on the plan) = trees of low quality.

These trees are of low quality and value, and are in adequate condition to remain until new planting could be established. They may be further sub-divided as follows:

C1) Trees not qualifying in higher categories.

C2) Groups of trees which do not form a distinct landscape feature.

C3) Trees with very limited conservation or other cultural benefits.

U (marked in red on the plan) = unsuitable for retention: trees for removal.

These trees are in such a condition that any existing value would be lost within 10 years. This may be due to any of the following:

1) Failure is likely due to serious, irredeemable, structural defects.

2) The trees are considered to be hazardous.

3) Diseases are present which may affect the health of adjacent trees.

4) They are in serious, overall decline or are already dead.

5) They are of low quality and suppressing adjacent trees of better quality.

6) Removal of other category U trees will render them exposed and unstable.

These trees should be removed or treated in such a way as to make them safe where they have high ecological value, such as in a woodland setting.

Appendix 3 - General Guidelines and Terms and Conditions

All tree work should be carried out by qualified Arboricultural Contractors with at least £1 Million Public Liability Insurance cover.

Tree work must be carried out to BS 3998:21012 which specifies recommendations for tree work.

The acceptance of this report constitutes an agreement with the terms and guidelines listed within this report.

No liability can be accepted by the consultant in respect of the trees unless the recommendations within this report are carried out under his supervision. Nor shall the consultant be responsible for events which happen after the time of the survey due to factors which were not evident at the time.

Tree work is inherently dangerous and should only be undertaken by insured, qualified contractors the following contractor is suitably qualified and insured to carry out tree works.

We trust that this report provides all the necessary information although if further advice is needed please do not hesitate to contact us.

Signed.....

Dated.....

For and on behalf of:

