arbtech

Arboricultural Impact Assessment to BS5837:2012

Judith Anita Kimberley.

207-208 Manchester Road,
Thurlstone,
Sheffield,
S36 9QS.

10 February 2023

Alan Thompson FdSc (Arb) MArborA

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If this report has been released electronically the appendices referred to herein can be found in the annexed zip folder/s as .pdf files. If this report has been released in hard copy the appendices will be bound into the back of this report. Plans are annexed separately as A0, A1, A2 or A3 as appropriate.

Introduction

Arbtech Consulting Limited (Arbtech) received written instruction in January 2022 from Judith Anita Kimberley to attend 207-209 Manchester Road, Thurlstone, Sheffield, S36 9QS (site) to undertake an arboricultural survey a to BS5837:2012 guidance to assess trees, hedges and major shrub groups growing on and within influencing distance of the site and to produce a Schedule of trees, Tree Constraints Plan & Arboricultural Impact Assessment.

I am Alan Thompson, an arboricultural consultant at Arbtech Consulting Ltd. I undertook the tree survey on 1st February 2023 and subsequently have produced this summary of my findings. I have over 13 years' arboricultural experience in both local authority and private practise environment, and also hold the LANTRA professional tree inspection certificate.

Executive Summary

This report describes the extent and effect of the proposed development at the site on individual trees and groups of trees within and adjacent to the site.

Survey Location/extents

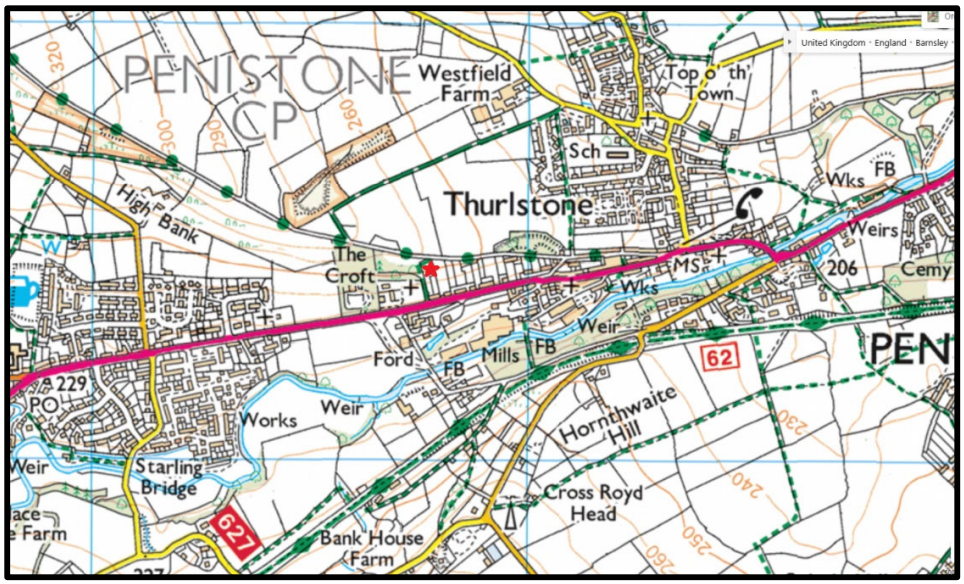


Figure 1: OS Map (Bing Maps) showing site location.

Figure 2: Aerial Image of Site (Google Earth) illustrating site boundary.

Trees within the site were surveyed; using a methodology guided by British Standard 5837:2012 'Trees in relation to design, demolition and construction – Recommendations' ("BS5837").

General Information

Client: Judith Anita Kimberley

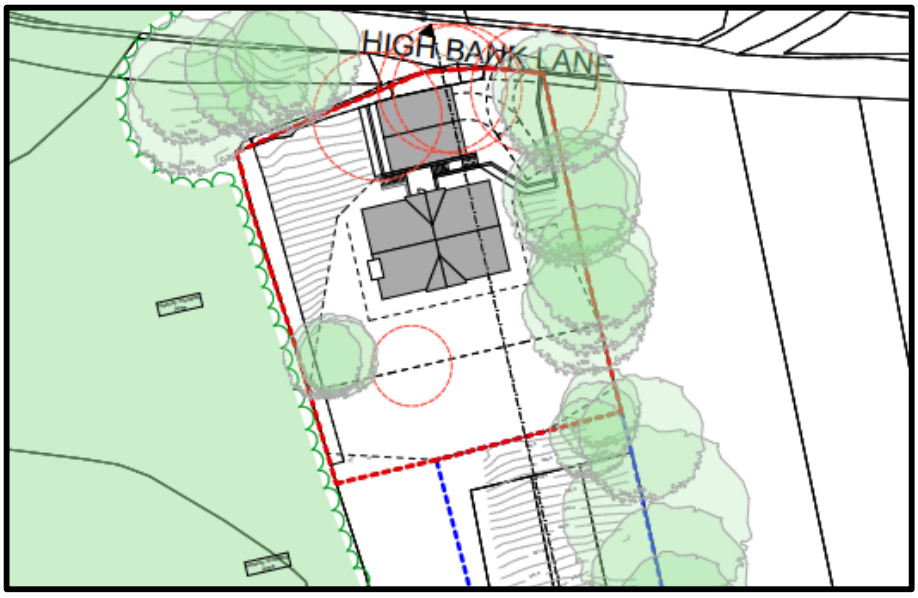
Site: 207-209 Manchester Road, Thurlstone, Sheffield, S36 9QS.

Proposal description: Construction of new build residential property with associated access & parking.

Table 1: Documents referred to.

Document	Reference No.
Topographical Survey	22334
Proposed layout drawing	ASK-JMA-ZZ-00-DR-A-(01)002D
Landscape master plan drawing	
Arboricultural Impact Assessment	Arbtech AIA 01

Proposal



Tree Survey

Survey: An arboricultural survey to BS5837 of all trees within impacting distance of the site was undertaken by Alan Thompson of Arbtech Consulting on 1st February 2023.

A total of 15No. individual trees, 1No. hedge and 7No. groups of trees were surveyed. Details for each of the trees surveyed are provided in the Schedule of Trees (see Appendix 2)

Table 2: Documents upon which this tree survey has been based.

Document	Originator	Reference Number	Title
Survey Base Plan	Silkstone Surveys	22334	207-209 Manchester Road

Limitations: The survey was made at ground level using visual observation only. Detailed examinations, such as climbing inspections and decay detection equipment were not employed, though may form part of the survey's management recommendations. Measurements were taken using specialist tapes, laser and GPS devices. Where this was not possible, measurements are estimated.

Scope: Pre-development tree surveys make arboricultural management recommendations based exclusively upon the individual tree or group of trees condition relative to their present context (*i.e. not in relation to the proposed development*).

Legal Status: No statutory protection check has been performed. BS5837 does not draw any distinction between trees subject to statutory protection, such as a Tree Preservation Order ("TPO"), and those trees without. This is principally because a detailed planning consent overrides any TPO protection. Consequently, we do not seek to offer any comparison between or infer any difference in the quality or importance of TPO trees and other trees.

* For more information on the surveyed trees please see Arbtech Consulting Ltd, Tree Survey Schedule (Appendix 2), & Tree Survey Report which contains the Tree Constraints Plan.

Arboricultural Impact Assessment

Table 3: Documents upon which this assessment has been based

Document	Originator	Reference Number	Title
Survey Base Plan	Silkstone Surveys	22334	207-209 Manchester Road
Proposals	J Mahoney Architects	ASK-JMA-ZZ-00-DR-A-(01)002D	Proposed Site Layout

There are a number of issues that may need to be addressed in an arboricultural impact assessment between the trees and the proposed development, these are as follows:

- The effect and extent of the proposed development within the root protection areas (RPAs) of retained trees;
- The potential conflicts of the proposed development with canopies of retained trees; and
- The likelihood of any future remedial works to retained trees beyond which would have been scheduled as a part of usual management.

Table 4: Impacts upon the RPAs of retained trees

These impacts can be seen on the Arboricultural Impact Assessment drawing number Arbtech AIA 01.

Tree Number	Species	Structure	Incursion
T3	Sycamore	Hard surfacing	RPA
G11	Various	Hard surfacing	RPA

It is proposed that the hard surfacing within the RPAs is to be constructed above the existing soil level.

Trees to be removed.

The proposal requires the removal of two trees & one small group of cherry laurel.

Table 5: Number of individual trees to be removed.

U	A	B	C
0	0	2	0

Table 6: Number of groups to be removed. () indicates partial removal.

U	A	B	C
0	0	0	1

Tree Works

For reasons of public safety, all tree works referred to herein must be carried out prior to any site personnel commencing works or any building materials being delivered.

Table 7: Summary of Tree Works

No.	Species	Works	Category
T1	Sycamore	Fell to ground level; remove stump	B2
T2	Sycamore	Fell to ground level; remove stump	B2
G1	Various	Prune to give clearance for construction of proposed driveway	C2
G4	Cherry laurel	Fell to ground level; remove stumps	C2

Notes

All tree work is to be undertaken in accordance with British Standard BS 3998:2010, Recommendations for tree work. All arising's are to be removed and the site is to be left as found. Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber Lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

Tree removal

A tree should be felled in one piece only when there is no significant risk of damage to people, property or protected species.
Where restrictions (e.g. lack of space, buildings, other features, land ownership or use, or other trees which are to be retained) cannot be overcome, trees should be dismantled in sections.
This also applies where a tall stump is being retained but where branches are to be removed/pruned.
Extensively decayed trees can be unpredictable when they are being felled, and special precautions should therefore be taken, such as the use of a winch to guide the direction of fall.

Stump removal – stump grinding

Stump grinding should be to a minimum of 300mm deep or to extend through the base of the stump leaving the major roots disconnected if the intention is to reduce the potential for the spread of Honey fungus.
The grinding residue should be treated as arising's and removed from site.
NOTE Mechanical destruction of a stump by stump grinding is less disruptive to the site than digging out.
The hole left by stump removal, should be filled with soil or other material. The filling should be appropriate for future site usage, and for any surface treatment that is to be installed.
Where future plant growth is desired, the backfill material should be firmed in 150 mm layers by treading, avoiding excessive compaction and destruction of the soil structure.

Stump removal - digging

Stump removal by digging out should include disposal/utilisation of woody material (see Clause **13**).
NOTE Whether done by hand or machine, digging out can cause severe disturbance of the site.
Where possible, when winching out a stump, a ground or other type of anchor should be used rather than a tree to be retained. If there is no alternative to using such a tree as an anchor, appropriate protective measures should be adopted.

After stump removal

The hole left by stump removal, whether by digging out or grinding, should be filled with soil or other material. The filling should be appropriate for future site usage and for any surface treatment that is to be installed.
Where future plant growth is desired, the back fill material should be firmed in 150mm layers by treading, avoiding excessive compaction and destruction of the soil structure.

Protected Species

Conservation Status of British Bats

The general consensus in Britain and Europe is that virtually all bat species are declining and vulnerable. Our understanding of population status is poor as there is very little historical data for most bat species. Certain species, such as the horseshoe bats, are better understood and have well documented contractions in range and population size.

Given this general picture of decline in UK Government within the UK Biodiversity Action Plan has designated five species of bats as priority species (greater and lesser horseshoe bats, barbastelle, Bechstein's and pipistrelle). These plans provide an action pathway whereby the maintenance and restoration of the former populations levels are investigated.

Legal Status of British Bats

Given the above position all British bats as well as their breeding sites and resting places enjoy national and international protection.

All bat species in the UK are fully protected under the Wildlife and Countryside Act 1981 (as amended) through inclusion in Schedule 5. All bats are also listed on Annex IV (and some on Annex II) of the EC Habitats Directive giving further, European protection. Taken together the act and Conservation of Habitats and Species Regulations 2012 (as amended)* make it an offence to; intentionally or deliberately kill, injure or capture (take) bats;

- Deliberately disturb bats (whether in a roost or not);
- Damage, destroy or obstruct access to bat roosts;
- Possess or transport a bat or any part of a bat, unless acquired legally;
- Sell, barter or exchange bats, or parts of bats

The legislation although not strictly affording protection to foraging grounds does protect roost sites. Bat roosts are protected at all times of the year whether or not bats are present. Any disturbance of a roost due to development must be licenced.

**the regulations that delivered by the UK's commitments to the Habitats Directive.*

Breeding birds

All nesting birds are protected under the Wildlife and Countryside Act (as amended) 1981, which makes it an offence to intentionally kill, injure or take any wild bird or take, damage or destroy its nest whilst in use or being built, or take or destroy its eggs. Furthermore a number of birds enjoy further protection under that Act and are listed on Schedule 1 of the Act. These further protected birds are also protected from disturbance and it may be necessary to operate “no-go” buffer zones around such nests – typically out to 100m.

Planning policy guidance on the treatment of species identified as priorities under the biodiversity action programme suggests that local authorities should take measures to protect the habitats of these species from further decline through policies in local development documents and should ensure that they are protected from the adverse effects of development, where appropriate, by using planning conditions or obligations.

Appendix 1: Arboricultural Impact Assessment Plan

Tree Categories

Trees are categorised in accordance with the cascade chart in Table 1 of the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations'

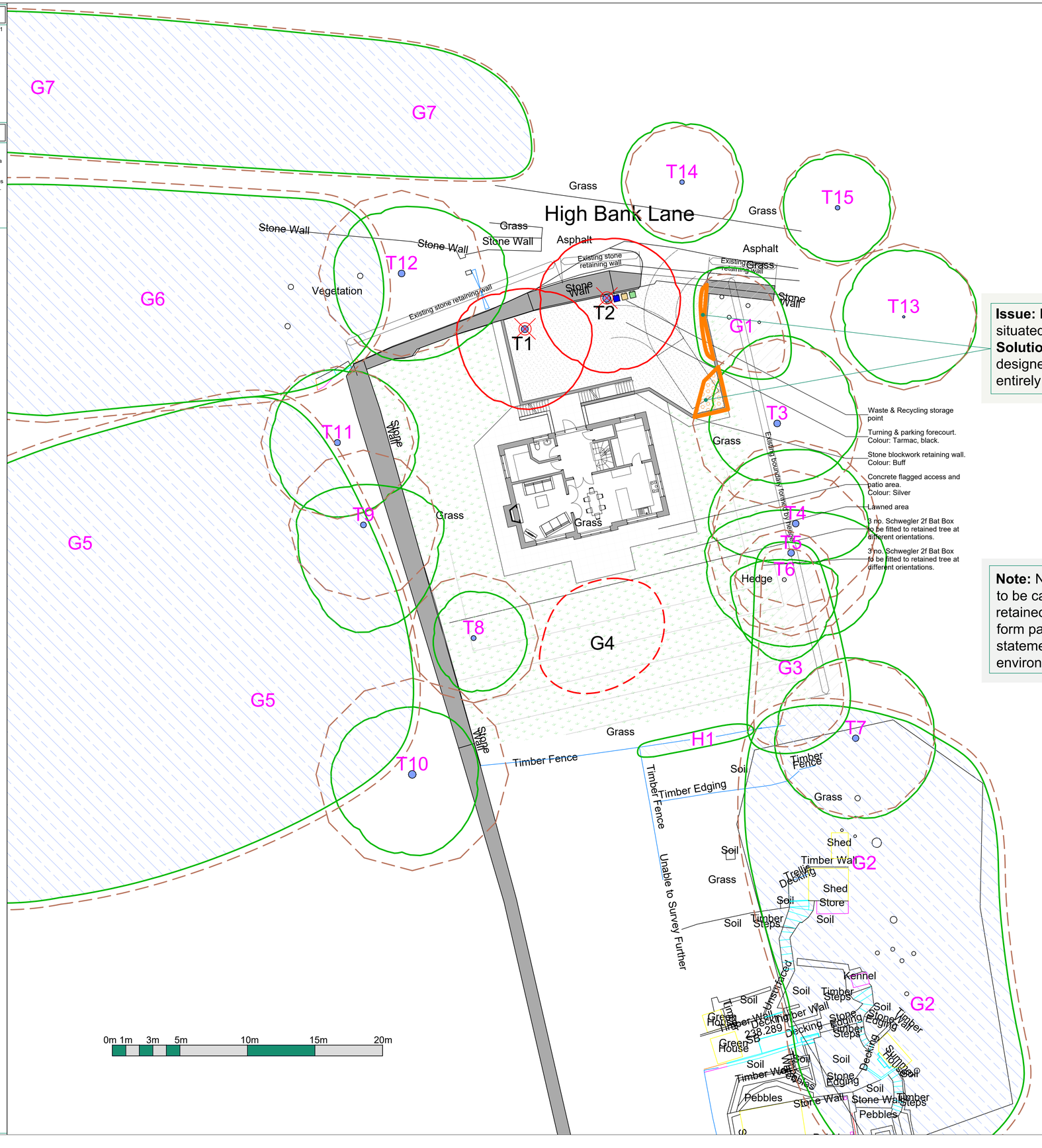
Category 'U' - Trees in such condition that they cannot realistically be retained as living trees in context of the current land use for longer than 10 years.
Category 'A' - Trees of high quality with an estimated remaining life expectancy of at least 40 years.
Category 'B' - Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.
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 150mm.

Root Protection Area

In order to avoid damage to the roots or rooting environment of retained trees, the Root Protection Areas (RPAs) should be plotted around each of the category A, B and C trees. This is a minimum area in m² which should be left undisturbed around each retained tree.

The RPA is calculated using the British Standard BS 5837:2012 'Trees in relation to design, demolition and construction - Recommendations.

The calculated RPA is capped to 707m², which is the equivalent to a circle with a radius of 15m. Where there appears to be restrictions to root growth the root protection area is reshaped to more accurately reflect the likely distribution of the roots.



Issue: Proposed hard surfacing is partially situated within RPAs of trees T3 & group G1.
Solution: Proposed surfacing is to be designed so that it can be constructed entirely above the existing soil level.

Note: No unauthorised excavations are to be carried out within the RPAs of any retained trees. Any level changes must form part of a construction method statement & must protect the rooting environments of all retained trees.

N

Indicative only

Arboricultural Impacts

Impacts	Nos. of trees
Trees to be removed	2
Groups / Hedges to be removed (Partial removal of groups)	1 (0)
Trees with proposed incursions into RPAs	1
Groups / Hedges with proposed incursions into RPAs	1
Trees that will require pruning	0
Groups / Hedges that will require pruning	1
Trees to be transplanted	0
Groups / Hedges to be transplanted	0

No.	Species	Proposed structure	Incursion
T1	Sycamore	Hard surfacing	RPA
G1	Various	Hard surfacing	RPA

Tree Work Schedule

No.	Species	Works	Category
T1	Sycamore	Fell to ground level, remove stump	B_U
T2	Sycamore	Fell to ground level, remove stump	B_U
G1	Various	Prune to give clearance for proposed driveway	C_U
G4	Cherry laurel	Fell to ground level, remove stumps	C_U

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations.
All arising's are to be removed and the site is to be left as found.
Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

No. of individual trees to be removed

U	A	B	C
0	0	2	0

No. of groups / hedges to be removed

U	A	B	C
0 (0)	0 (0)	0 (0)	1 (0)

( ) = Partial removal of a groups

Arboricultural Method Statement

All tree work is to be undertaken in accordance with British Standard BS 3998. Please refer to Arbtech Consulting Ltd. Tree Schedule, Arboricultural Method Statement and Tree Protection Plan, for full details of all surveyed trees and how all aspects of the development maybe implemented without detriment to retained trees.

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Project:
207-209 Manchester Road,
Thurlstone,
Sheffield,
S36 9QS.

Client:
Judith Anita Kimberley

Drawing:
Arboricultural Impact Assessment

Based on:
ASK-JMA-ZZ-00-DR-A-(01)002D

Drawing No:	Rev:
Arbtech AIA 01	

Date:	Scale:	Drawn:
Feb 2023	1:150 @ A1	AST

Key:

Tree Nos.:	T1	Tree Canopies:		Trunks:	
RPAs:		Category 'B' groups:		Category 'B' trees:	
Category 'C' groups:		Category 'C' trees:		Tree to be removed:	T1
Incursion - Hard surfacing:					

Appendix 2: Tree Survey Schedule

BS5837:2012 Tree Survey

Client: Judith Anita Kimberley
Project: 207-209 Manchester Road, Thurlstone, Sheffield, S36 9QS.
Survey Date: 01/02/2023
Surveyor: Alan Thompson

ARBTECH

Artbech Consulting Ltd.

Unit 3, Well House Barns
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Chester
Cheshire
CH4 0DH
Phone: 01244 66 11 70

Tree and Tag No / Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations / Survey Comment	Cat ERC
G1										Estimated Measurements	
A Group - -	6.5	1	130	N 2.5 E 2.5 S 2.5 W 2.5	3 3 3 3	Y	A: 7.6 R: 1.55	Good	C: Fair S: Good B: Good	Group is comprised of five young/early mature trees. Species are ash, sycamore and hawthorn Measurements given are estimated averages for the group.	C.2 40+ yrs
G2										Estimated Measurements	
A Group - -	16	1	480	N 6.5 E 6.5 S 6.5 W 6.5	4.5 4.5 4.5 4.5	SM	A: 104.2 R: 5.75	Good	C: Good S: Good B: Good	Off site boundary group is comprised of six semi mature sycamore trees. Measurements given are estimated averages for the group.	B.1.2 40+ yrs
G3										Estimated Measurements	
Common Holly *Ilex aquifolium*	5.5	1	90	N 2 E 2 S 2 W 2	0.5 0.5 0.5 0.5	EM	A: 3.7 R: 1.08	Good	C: Good S: Good B: Good	Lapsed boundary holly hedgerow. Measurements given are estimated averages for the group	C.2 40+ yrs
G4										Estimated Measurements	
Cherry Laurel *Prunus laurocerasus*	3.5	6	245 (Eq)	N 3.5 E 3.5 S 3.5 W 3.5	0.5 0.5 0.5 0.5	SM	A: 27.1 R: 2.93	Good	C: Good S: Good B: Good	Group is comprised of 2 multi stem cherry laurel shrubs. Measurements given are estimated averages for the.	C.2 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
G5										Estimated Measurements	
A Group - -	15	1	480	N 6 E 6 S 6 W 6	4.5 4.5 4.5 4.5	SM	A: 104.2 R: 5.75	Good	C: Good S: Good B: Good	Off site group is a small wooded area comprised of approximately 40 semi mature. Species are predominantly sycamore interspersed with occasional ash and birch. Measurements given are estimated averages for the group.	**B.1.2** 40+ yrs
G6										Estimated Measurements	
A Group - -	14	1	480	N 6 E 6 S 6 W 6	4 4 4 4	SM	A: 104.2 R: 5.75	Good	C: Good S: Good B: Good	Off site group is comprised of six semi mature trees. Species are sycamore and ash. Measurements given are estimated averages for the group.	**B.1.2** 40+ yrs
G7										Estimated Measurements	
Common Ash *Fraxinus excelsior*	9	1	350	N 4 E 4 S 4 W 4	3 3 3 3	EM	A: 55.4 R: 4.19	Good	C: Good S: Good B: Good	Off site group is comprised of eight early mature ash trees. Measurements given are estimated averages for the group.	**B.2** 40+ yrs
H1										Estimated Measurements	
Cherry Laurel *Prunus laurocerasus*	2	1	60	N 0.5 E 0.5 S 0.5 W 0.5	0.2 0.2 0.2 0.2	EM	A: 1.6 R: 0.71	Good	C: Good S: Good B: Good	Well maintained laurel hedgerow. Measurements given are estimated averages for the hedge.	**C.2** 20+ yrs
T1											
Sycamore *Acer pseudoplatanus*	10.5	5	538 (Eq)	N 3 E 5 S 6 W 5	5 5 3.5 4	EM	A: 130.9 R: 6.45	Good	C: Good S: Good B: Good	Self seeded tree showing good vigour.	**B.2** 40+ yrs
T2											
Sycamore *Acer pseudoplatanus*	10	5	562 (Eq)	N 4.5 E 5.5 S 5.5 W 5	4.5 4 4.5 4	EM	A: 142.9 R: 6.74	Good	C: Good S: Good B: Good	Self seeded tree showing good vigour.	**B.2** 40+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

207-209 Manchester Road, Thurlstone, Sheffield, S36 9QS.

Tree and Tag No Species	Hght (m)	Stems No	Ø (mm)	Crown Spread (m)	Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T3										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	11.5	3	509 (Eq)	N 6.5 E 6 S 4.5 W 5	4.5 3.2 6 3.5	SM	A: 117.3 R: 6.11	Good	C: Good S: Ivy B: Good	Off site tree could not be fully inspected, stem diameter measurement is estimated. Thick ivy is spreading throughout tree's stem into crown.	**B.1** 40+ yrs
T4										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	14	1	500	N 5.5 E 5.5 S 3 W 6.5	5 5 6 3.5	SM	A: 113.1 R: 6	Good	C: Good S: Good B: Good	Off site tree could not be fully inspected, stem diameter measurement is estimated.	**B.1** 40+ yrs
T5										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16	1	500	N 3.2 E 7 S 7 W 6.5	8 3.5 7 5	SM	A: 113.1 R: 6	Good	C: Good S: Good B: Good	Off site tree could not be fully inspected, stem diameter measurement is estimated.	**B.1** 40+ yrs
T6										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	7.5	1	300	N 1.5 E 4 S 6 W 4	7 4.5 5 4.5	SM	A: 40.7 R: 3.59	Good	C: Fair S: Good B: Good	Tree's crown is heavily suppressed by neighbouring tree to the north.	**C.1** 20+ yrs
T7										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16	1	480	N 6 E 6 S 6 W 6	4 6 6 6	SM	A: 104.2 R: 5.75	Good	C: Good S: Good B: Good	Off site tree could not be fully inspected, stem diameter measurement is estimated.	**B.1** 40+ yrs
T8											
Downy Birch *Betula pubescens*	9	5	390 (Eq)	N 3.5 E 4 S 4 W 3	6 2.5 2.5 6	M	A: 68.7 R: 4.67	Good	C: Good S: Good B: Good		**B.2** 20+ yrs

Age Classifications: N Newly planted; Y Young; SM Semi-mature; EM Early Mature; M Mature; OM Over Mature

Condition: C Crown; S Stem; B Basal area

Stems: Ø Diameter; (Eq) Equivalent stem diameter using BS5837:2012 definition

207-209 Manchester Road, Thurlstone, Sheffield, S36 9QS.

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m²) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T9										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	16.5	1	450	N 3 E 6 S 8 W 5	7 3 2.5 5	SM	A: 91.6 R: 5.39	Good	C: Good S: Good B: Good	Off site tree, forms part of eastern edge of woodland group. Tree could not be fully inspected and measurements given are estimated.	**B.1** 40+ yrs
T10										Estimated Measurements	
Common Silver Fir *Abies alba*	21	1	580	N 5 E 5 S 6 W 6	5 3 3 5	M	A: 152.2 R: 6.96	Good	C: Good S: Good B: Good	Off site tree, forms part of eastern edge of woodland group. Tree could not be fully inspected and measurements given are estimated.	**B.1** 40+ yrs
T11										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	15.5	1	460	N 5.5 E 6 S 5.5 W 5	4 3 5 7	SM	A: 95.7 R: 5.51	Good	C: Good S: Good B: Good	Off site tree, forms part of eastern edge of woodland group. Tree could not be fully inspected and measurements given are estimated.	**B.1** 40+ yrs
T12										Estimated Measurements	
Common Oak *Quercus robur*	12.5	1	500	N 5 E 8 S 6.5 W 5	3.5 3.5 5 6	SM	A: 113.1 R: 6	Good	C: Good S: Good B: Good	Off site tree could not be fully inspected and measurements given are estimated.	**B.1** 40+ yrs
T13										Estimated Measurements	
Sycamore *Acer pseudoplatanus*	11	6	441 (Eq)	N 5 E 5.5 S 5 W 4.5	3 4 4 4	EM	A: 88 R: 5.29	Good	C: Good S: Good B: Good	Off site tree could not be fully inspected and measurements given are estimated.	**B.2** 40+ yrs
T14										Estimated Measurements	
Common Ash *Fraxinus excelsior*	9	1	340	N 4.5 E 4.5 S 4.5 W 4.5	2.5	EM	A: 52.3 R: 4.08	Good	C: Good S: Good B: Good	Off site tree could not be fully inspected and measurements given are estimated.	**B.2** 40+ yrs

Age Classifications:
N Newly planted
Y Young
SM Semi-mature
EM Early Mature
M Mature
OM Over Mature

Condition:
C Crown
S Stem
B Basal area

Stems:
Ø Diameter
(Eq) Equivalent stem diameter using BS5837:2012 definition

Tree and Tag No Species	Hght (m)	Stems No	Stems Ø (mm)	Crown Spread (m)	Crown Clear (m)	Age	RP A (m2) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
T15										Estimated Measurements	
Common Ash *Fraxinus excelsior*	8.5	1	350	N 4 E 4 S 4 W 4	3 3 3 3	EM	A: 55.4 R: 4.19	Good	C: Good S: Good B: Good	Off site tree could not be fully inspected and measurements given are estimated.	**B.2** 40+ yrs

Age Classifications:	N	Newly planted	EM	Early Mature	**Condition:**	C	Crown	**Stems:**	Ø	Diameter
	Y	Young	M	Mature		S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature		B	Basal area			

Appendix 3: Contact Details

Name	Position	Company	Contact
	Client	Judith Anita Kimberley	
	Tree Officer		
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	Site Manager		
	Main contractor		

Document Production Record

Document number	Editor	Signature	Position	Issue number	Date
Arbtech AIA 01	Alan Thompson		Arboricultural Consultant	1	10/02/2023

Limitations

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