

Mill Academy in Worsbrough.



AIA - including Tree Survey, TCP & TPP

01/10/2026

Barnsley Metropolitan Borough Council

Report reference	AR-9092-02.01 AIA
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Technical Review	Victoria Black FdSc Arb Principal Arboricultural Consultant
QA	Tamsin Harrison BSc (Hons) Principal Landscape Architect
Authorised	Victoria Black FdSc Arb Principal Arboricultural Consultant
Date	01/10/2026
Report duration	In accordance with BS 5837:2012 unless otherwise stated the findings of this report remain valid for a period of 12 months. After this period advice should be sought on the scope of any updating work required.

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Summary

The Site is a disused primary school building surrounded by amenity grassland, tarmac playground, and scattered trees. The Site is located in a residential area on the edge of Worsbrough, Barnsley.

The tree survey revealed a total of nine individual trees and one offsite group. Of these, three individual tree and one group were identified as retention category 'B', and six individual trees were identified as retention category 'C'. There were no retention category 'U' trees identified and at this stage no trees have been highlighted for tree removal.

It has been recommended that that three trees on site are monitored every six months to assess if their condition is still acceptable as defects have been noted.

A new loop access road plus woodland classroom and MUGA is proposed. A development plan has been provided by the client to enable an impact assessment of the proposed works on the existing relevant trees within the Site.

This report should be read in conjunction with the attached Tree Constraints Plan Ref: DR-9092-01 TCP, Tree Protection Plan Ref DR-9092-02.01 and Tree Survey Ref AR-9092-01.

Introduction

1. This report has been commissioned to provide professional independent, detailed arboricultural advice on relevant trees present at Mill Academy, Worsbrough, Barnsley.
2. Plans have been provided by the architect/client to enable an impact assessment of the proposed works on the existing relevant trees within the Site.
3. This AIA has been commissioned to provide professional independent, detailed arboricultural advice in relation to the proposed development.
4. The following plans have been used to aid the findings of this report:
 - **DR-9092-02.01 Tree Protection Plan by Brooks Ecological**
 - **DR-9092-01 Tree Constraints Plan by Brooks Ecological**
 - **The Mill Academy 2D Topographical Survey**
 - **PR - Roads - Rev 4**

Impact Schedule

5. The following schedule identifies the individual tree and its retention category with the main feature(s) of the proposed works likely to cause an impact. The tree references are shown on the tree constraints plan and the tree protection plan. Any mitigation measures are noted.

Tree ref.	Species	Retention category	Proposal feature	Impact	Mitigation
T1	Birch	C1	Open space. Close to proposed MUGA	None	Possible crown reduction to east. Tree Protective fencing in line with BS 5837:2012
T2	Birch	B1	New proposed access loop road.	Remove	Mitigation planting required on site.
T3	Willow	C1	New proposed access loop road.	Remove	Mitigation planting required on site.
T4	Purple sycamore	C1	New proposed access loop road.	Remove	Mitigation planting required on site.
T5	Purple sycamore	C1	New proposed access loop road.	Remove	Mitigation planting required on site.
T6	Birch	C1	New proposed access loop road.	Remove	Mitigation planting required on site.

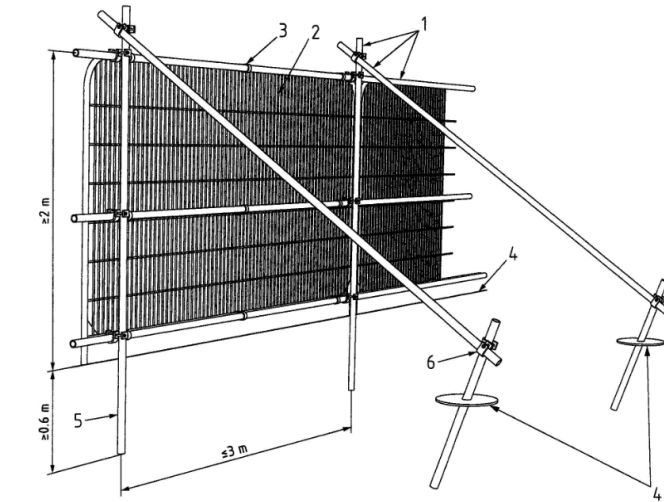
Tree ref.	Species	Retention category	Proposal feature	Impact	Mitigation
T7	Sycamore	B1	New proposed access loop road.	Remove	Mitigation planting required on site.
T8	London Plane	B1	New proposed access loop road.	Remove	Mitigation planting required on site.
T9	Cherry	C1	Open space.	None	Tree Protective fencing in line with BS 5837:2012
G10	Mixed group	B2	Close to proposed access loop road.	Some canopy reductions maybe required.	Tree Protective fencing in line with BS 5837:2012

Trees to be removed

6. Three Retention Category 'B' individual trees and four Retention Category 'C' individual trees are expected to be removed to facilitate the development. A detailed Landscaping Plan has been commissioned to negate this loss.

Tree protection

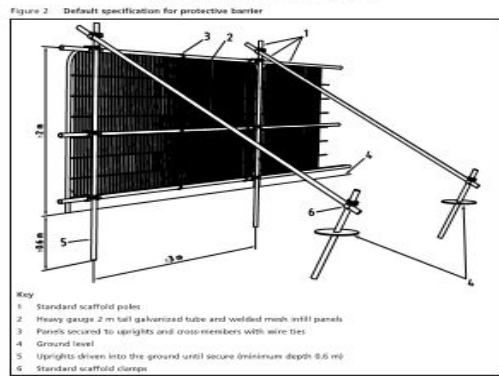
7. Tree protection barriers should be the default specification for protective barrier, Figure 2, BS 5837: 2012 Trees in relation to design, demolition and constructions - Recommendations. This is shown in a magenta line on the Tree Protection Plan Ref DR-9092.02.01. If site circumstances prevent the use of the default barrier, an alternative specification should be recommended by the project arboriculturist. This requires agreement of the local planning authority



Key

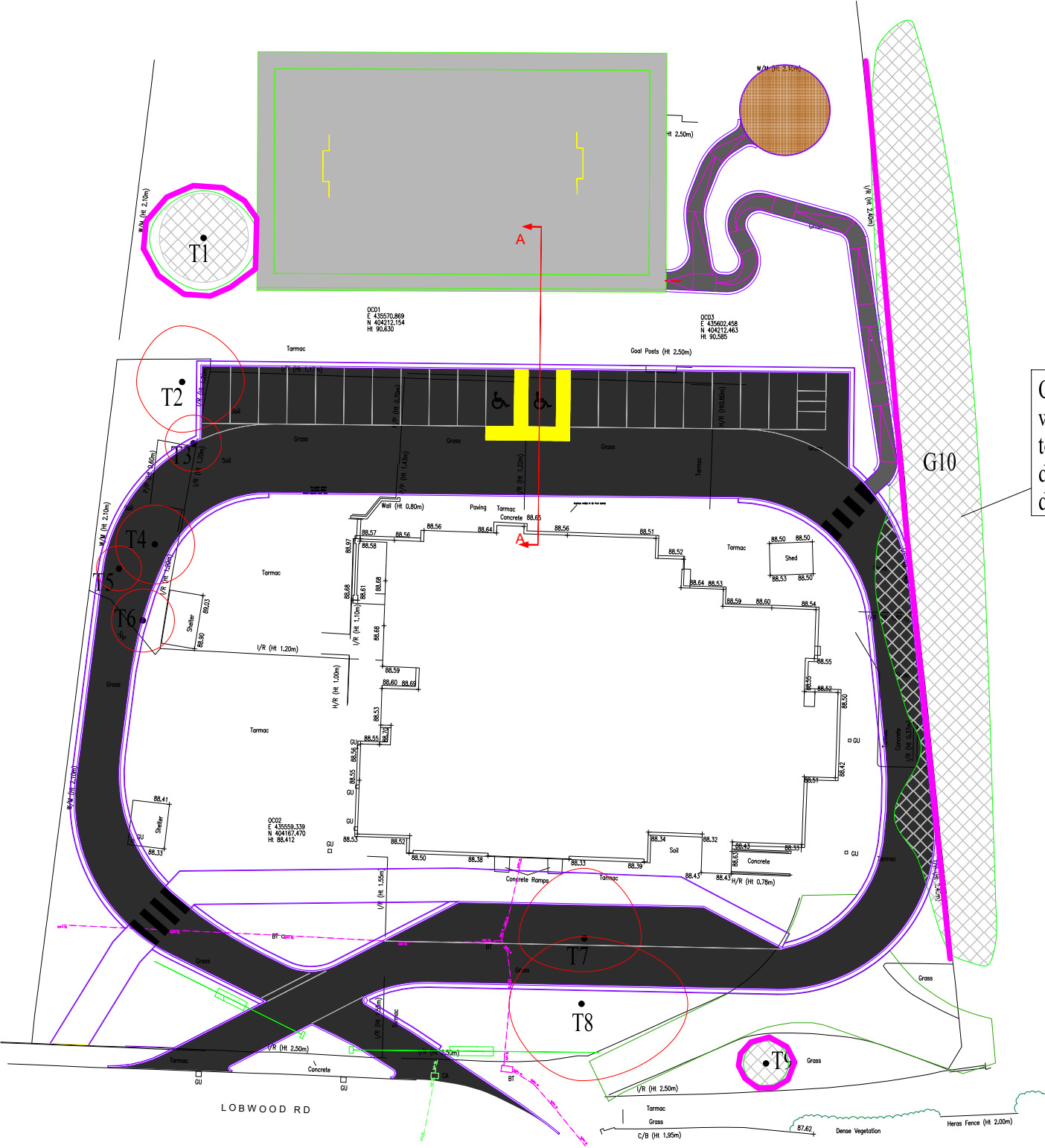
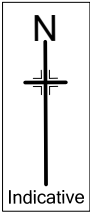
- 1 Standard scaffold poles
- 2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
- 3 Panels secured to uprights and cross-members with wire ties
- 4 Ground level
- 5 Uprights driven into the ground until secure (minimum depth 0.6 m)
- 6 Standard scaffold clamps

DR-9092-02.01 Tree Protection Plan



An example of Tree Protection Fencing in line with BS 5837:2012 Default Specification. This fencing should be used on this site. Correct signage should also be attached. Further information can be found in the submitted AIA Ref: AR-9092-02.01 dated October 2026.

DATED: OCTOBER 2026



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DR-9092-02.01 TREE PROTECTION PLAN

Site: Mill Academy, Worsbrough, Barnsley.

Paper Size: A3 Scale: 1:500

	Trees to be retained
	Trees to be removed
	Tree protective fencing in line with BS 5837:2012 Default Specification required.
	ROOT PROTECTION AREA
	TREE STEM

Please note:
The plan is for guidance only
and should not be scaled from.

The original of this drawing was produced
in colour - a monochrome copy should not be
relied upon.



Tree Survey

18/06/2026

Barnsley Metropolitan Borough Council

Report reference	AR-9092-01 Tree Survey
Author	Victoria Black FdSc Arb Principal Arboricultural Consultant
Technical Review	Victoria Black FdSc Arb Principal Arboricultural Consultant
QA	Tamsin Harrison BSc (Hons) Principal Landscape Architect
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Summary

The Site is a disused primary school building surrounded by amenity grassland, tarmac playground, and scattered trees. The Site is located in a residential area on the edge of Worsbrough, Barnsley.

The tree survey revealed a total of nine individual trees and one offsite group. Of these, three individual tree and one group were identified as retention category 'B', and six individual trees were identified as retention category 'C'. There were no retention category 'U' trees identified and at this stage no trees have been highlighted for tree removal.

It has been recommended that that three trees on site are monitored every six months to assess if their condition is still acceptable as defects have been noted.

This report should be read in conjunction with the attached Tree Constraints Plan Ref: DR-9092-01 TCP.

Introduction

1. Brooks Ecological Ltd was commissioned by Barnsley Metropolitan Borough Council to provide professional independent, detailed arboricultural advice on all relevant trees present at Mill Academy, Worsbrough, Barnsley.
2. This report has been undertaken in accordance with BS 5837:2012 Trees in relation to construction – Recommendations.
3. The client has provided a topographical plan.
4. All findings and recommendations are based on visual observations conducted from ground level during the Site visit only. No other diagnostic procedures were used to establish any extent of internal decay nor was a climbing inspection undertaken.
5. All measurements were obtained with the use of a clinometer and an electronic distometer. On occasion it is not viable to provide accurate measurements due to restricted access or other mitigating circumstances on site, and the data may be estimated.
6. The following plans have been used to aid the findings of this report:
 - **The Mill Academy 2D Topographical Survey**

Legal implications of work to trees

7. Due to the potentially large penalties for illegally carrying out work to protected trees, it is recommended that a check with the local planning authority is carried out prior to any tree works being undertaken and any required consents such as for work to trees with Tree Preservation Orders and/or Conservation Areas are obtained before work to trees on site. Additionally, work to trees at certain times of the year may contravene sections of the Wildlife and Countryside Act regarding nesting and roosting of protected species.
8. Every tree owner has a general duty of care to ensure their tree(s) does not pose an unacceptable risk to other people on or adjacent to their land. The landowner will only be liable for injury or damage caused by trees if they are found to be negligent.
9. There is no legal obligation for a tree owner to cut back growth from a neighbouring property. However, under Common law of tort of nuisance, an affected neighbour has the right to cut back roots or branches that encroach onto a neighbouring property back to the boundary of the land owned by the person abating the nuisance without the neighbour's consent (with the exception of TPO's or CA's). The person abating the nuisance has a duty to exercise reasonable care in carrying out work as a failure to do so may lead to liability in negligence (for example where removal of roots makes a tree unstable).

The Site

10. The Site is a disused primary school building surrounded by amenity grassland, tarmac playground, and scattered trees. The Site is located in a residential area on the edge of Worsbrough, Barnsley.

Figure 1 Site Location Plan. Site boundary -red line.



Survey Conditions

11. The site survey was conducted on 15th June 2026, in sunny and dry conditions.

Methodology

12. The trees were assessed visually from ground level. Where access to a tree is restricted this is noted in the schedule.
13. The tree reference numbers refer to the attached Tree Constraints Plan (TCP) references. The trees were not tagged for this survey.
14. The tree species is listed by common name in the schedules, with a key to scientific names in table 1:

Table 1 Nomenclature

Common name	Botanical name	Common name	Botanical name
Alder (common)	<i>Alnus glutinosa</i>	Hawthorn	<i>Crataegus monogyna</i>
Alder (grey)	<i>Alnus incana</i>	Hazel	<i>Corylus avellana</i>
Apple	<i>Malus domestica</i>	Holly	<i>Ilex aquifolium</i>
Aspen	<i>Populus tremula</i>	Hornbeam	<i>Carpinus betulus</i>
Ash	<i>Fraxinus excelsior</i>	Larch	<i>Larix decidua</i>
Beech	<i>Fagus sylvatica</i>	Lime (common)	<i>Tilia x europaea</i>
Birch (silver)	<i>Betula pendula</i>	Lime (small-leaved)	<i>Tilia cordata</i>
Birch (downy)	<i>Betula pubescens</i>	Maple (field)	<i>Acer campestre</i>
Chestnut (sweet)	<i>Castanea sativa</i>	Maple (Norway)	<i>Acer platanoides</i>
Chestnut (horse)	<i>Aesculus hippocastanum</i>	Poplar (black)	<i>Populus nigra</i>
Cherry (wild)	<i>Prunus avium</i>	Oak (sessile)	<i>Quercus petraea</i>
Cherry (bird)	<i>Prunus padus</i>	Oak (pendunculate)	<i>Quercus robur</i>
Cherry (Japanese)	<i>Prunus serrulata</i>	Rowan/mountain ash	<i>Sorbus aucuparia</i>
Leyland Cypress	<i>X Cupressocyparis leylandii</i>	Sycamore	<i>Acer pseudoplatanus</i>
Elm (English)	<i>Ulmus procera</i>	Weeping willow	<i>Salix chrysocoma</i>
Elm (wych)	<i>Ulmus glabra</i>	Whitebeam (Swedish)	<i>Sorbus intermedia</i>
Goat willow	<i>Salix caprea</i>		

15. Measurement of the existing height above ground level of the first significant branch and the direction of growth and the height of the canopy. This informs ground clearance, crown/stem ratio and shading.
16. The stem/trunk diameter is measured with a diameter tape at 1.5m from ground level around the stem for single stem trees and for multi-stemmed trees and other variants in accordance with Annex C of the British Standard. Where access restricts measurement of the tree, an estimate has been made, denoted by '#'.
17. Canopy spread is measured with an electronic distometer. The close-spacing of some of the trees impeded measurements of canopy spread and height and estimates were made.
18. The age of the tree is based on the typical longevity of the particular tree species. The age classes are: young (Y), semi-mature (SM), early mature (EM), mature (M), over-mature (OM) and veteran (V).
19. The physiological condition of the tree is an assessment of its likely health, vigour and stress. The classes for physiological condition are: good, fair, poor and dead.
20. Structural condition includes tree form, visible defects, irregularities and influencing factors.
21. Preliminary management recommendations note work (with prior approval where necessary) to promote the health and longevity of the tree and/or improve safety and/or increase habitat potential.
22. The life expectancy (life exp.) is the estimated remaining contribution in years, (<10, 10+, 20+, 40+).
23. The retention category (ret cat) for each tree is assessed in accordance with BS 5837: 2012, summarised in table 2 below:

24. The root protection area (RPA) in m² is for layout purposes and indicates 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'. The RPA is calculated in accordance with BS 5837: 2012 Annex D. Where Site features are likely to have distorted the typical RPA, a polygon of the same area is estimated on plan to reflect a more realistic shape, in accordance with the British standard.

Table 3 Retention categories

Category A	Trees of high quality with an estimated remaining life expectancy (ERC) of at least 40 years. Green canopy outline on plan.
Category B	Trees of moderate quality with an estimated ERC of at least 20 years. Blue canopy outline on plan.
Category C	Trees of low quality with an ERC of at least 10 years, OR young trees with a stem diameter below 150mm. Grey canopy outline on plan.
Category U	Trees 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 unsuitable for retention. Dark red canopy outline on plan.

Sub-categories of 1, 2 or 3 are included in the tree data tables and are defined as follows:

- Sub-category 1** trees are those with 'mainly arboricultural value'
- Sub-category 2** trees are those with 'mainly landscape value'
- Sub-category 3** trees are those with 'mainly cultural or conservation value'.

Table 2 Abbreviations used

T	Tree	GL	Ground level
G	Tree group	MS	Multi-stemmed
H	Hedge	AFP	Access facilitation pruning
OSB	Outside Site boundary	Ave	Average dimension
#/est	Estimated dimension	Typ	Typical dimension
N	North	E	South
S	South	W	West
Min	Minimum	Lwr	Lower
adj	Adjacent	Ht	Height

Tree data

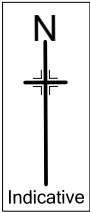
The following schedule contains the tree data obtained on site:

Ref	Species	Life stage	Ht (m)	Can Ht (m)	Stem diam (mm)	Canopy spread (m)	Physio logical	Observations	Recommen dations	Life exp. (yrs)	Ret cat
T1	Birch	EM	13	1.5	330	N 4.2 E 4.8 S 4.6 W 4.8	Fair	Multi stemmed at 2.2m with a balanced canopy. Decaying stub noted to the north - appears ok. No major visible defects. In grassed area.	No action required at present	20+	C1
T2	Birch	M	15	1 E	540	N 5 E 5.6 S 4.5 W 4	Good/ fair	Single stemmed with a very slight lean to the east. Overhanging the footpath. Minor deadwood noted within the canopy. Low hanging canopy.	No action required at present	20+	B1
T3	Willow	Y	5	1	To 120 x 6	N 2.5 E 2.5 S 2.5 W 2.5	Fair/ poor	Multi stemmed from ground level with a balanced canopy. Reduced at 2m resulting in regrowth and open wounds. Fused and rubbing branches noted. Old deadwood fungus on one stem.	Monitor every 6 months	<10	C1
T4	Purple sycamore	SM	12	2	280	N 3.5 E 3.5 S 3.5 W 3.5	Poor	In decline. Sparse canopy with significant dieback. Swing attached to lowest limb. Deadwood and stubs noted with canopy.	Month every 6 months. Consider removal.	<10	C1
T5	Purple sycamore	Y	4	1.3	150	N 2 E 2 S 2 W 2	Fair	Twin stemmed at 1.6m with a balanced canopy. Minor included bark noted at union. No major visible defects noted.	No action required at present	20+	C1
T6	Birch	SM	12	1.4	220	N 2.8 E 2.8 S 2.8 W 2.8	Fair/ poor	In decline. Sparse canopy with dieback. Deadwood and stubs noted with canopy. Epicormic growth noted up stem.	Month every 6 months.	<10	C1
T7	Sycamore	M	17	2	480	N 6.2 E 5.1 S 3 W 5.8	Good/ fair	Decaying stub to the north - appears ok. Twin stemmed at 2.5m with a balanced canopy. Included bark noted at union. Nearly overhanging adjacent building.	No action required at present	20+	B1
T8	London Plane	M	19	2	860	N 6 E 9.2 S 6.8 W 6.5	Good/ fair	Multi stemmed at 2.5m with a wide spreading balanced canopy. Roots lifting adjacent road. Minor deadwood and stubs noted within the canopy. Overhanging road.	No action required at present	20+	B1
T9	Cherry	Y	4	1.5	40 50 50	N 2 E 2 S 2 W 2	Fair	Multi stemmed at ground level. No major visible defects noted.	No action required at present	20+	C1
G10	Mixed group	Y - EM	To 15	0+	To 400	See plan	Good/ fair	Off site group. In places is overhanging the boundary fence. One dead tree. No inspection was carried out.	No action required at present	20+	B2

Findings

25. The tree survey revealed a total of nine individual trees and one offsite group. Of these, three individual tree and one group were identified as retention category 'B', and six individual trees were identified as retention category 'C'. There were no retention category 'U' trees identified and at this stage no trees have been highlighted for tree removal.
26. It has been recommended that three trees (T3, T4 and T6) on site are monitored every six months, to assess if their condition is still acceptable as defects have been noted. T4 and T6 are in decline with dieback noted at the canopy tips. Removal should be considered within the next year.

DR-9092-01 Tree Constraints Plan



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DR-9092-01 TREE CONSTRAINTS PLAN

Site: Mill Academy, Worsbrough, Barnsley.

Paper Size: A3

Scale: 1:500

BS 5837: 2012 Retention Categories

	CATEGORY A
	CATEGORY B
	CATEGORY C
	CATEGORY U
	ROOT PROTECTION AREA
	TREE STEM

Please note:
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