James Royston
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Tree Survey

in accordance with

BS5837:2012

at

Nether Mill
Penistone

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1 Summary

The survey includes some trees which are of significance to the local tree-scape. In particular, the riverside group G17 is of high value.

Trees T15 and T16 are of high amenity value, but were found to be in such a poor condition as to be considered hazardous. Their removal is recommended.

Trees in G8 are of low value when considered as individuals, but the group as a whole does provide some value as a screen between the exiting site and a neighbouring school.

Trees allocated a category C are not usually considered as a constraint to development. However, groups of trees can have a higher collective value than the individuals within the group.

2 Introduction

2.1 Purpose of report

To undertake a tree survey in accordance with British Standard 5837:2012 'Trees in relation to construction – Recommendations' at: Nether Mill, Penistone.

2.2 Limitations of report

The recommendations in this report are of a preliminary nature and do not take into account any specific development proposals. This allows the trees to be assessed independently and without bias. It also allows the same tree report to be used should the layout or design of the site be altered.

This report is based upon a visual survey undertaken on foot from ground level. In order to minimise costs no digging, drilling, climbing, or other diagnostic technique was undertaken on this occasion.

Though tree related hazards will be recorded and commented upon where observed, this report is not a tree hazard risk assessment and should not be used as such.

2.3 Disclaimers

The consultant shall not be responsible for events which happen after the date of survey due to factors which where not apparent at the time of the survey.

The plans included as part of this report are based on those provided by the client or their representatives. Whilst reasonable steps are taken to ensure plans are accurate and correct, the consultant will not be responsible for errors or omissions arising due to information provided by the client or the client's representatives.

2.3 General recommendations

For the management of risk from falling trees it is advisable to have trees regularly surveyed by a suitably qualified and experienced arborist. The frequency, level and type of survey will vary from site to site depending on a range of factors. We are happy to assist in this if required.

All tree works should be carried out to BS 3998:2010 - Recommendations for tree work by a suitably qualified, experienced and insured contractor.

2.4 Survey conditions

The survey was carried out on 1st October 2012 and 17th April 2013 by James Royston.

The weather conditions; fair, visibility was not affected.

3 Data collection methods

3.1 Methodology and data table key

Tree height is calculated in metres from ground level to the highest point of the tree using a distance measure (ie a tape measure, a laser measure or measuring wheel depending on site conditions) and a clinometer.

Stem diameter is measured and rounded down to the nearest ten millimetres at 1.5m above ground level using a specialist measuring tape. Where a tree divides into multiple stems below 1.5m it will be measured at the lowest point above the root flare. The data tables show whether a tree is single or multi-stem.

Canopy spread is measured in metres at magnetic north, south, east and west using a tape measure, a measuring wheel or a laser measure. Measurements are taken from the tree stem at ground level to the furthest extent of the crown in the direction being measured.

Height of crown clearance is estimated in metres and is an indication of the lowest significant live branches of the crown. Epicormic growth and small diameter suppressed branches would not normally be considered as significant.

Age Class is divided into young, semi-mature, early-mature, mature, over mature, and veteran. This is an indication of which stage a tree is at in its natural life cycle, allowing for an assessment of how energy and growth will be prioritised within a tree. In general, younger trees are more able to cope with disturbance or stress.

Physiological condition is an assessment of the health and vigour of the tree and will include an assessment of the size, colour and density of the foliage. Trees in good physiological condition are better able to cope with disturbance or stress.

Structural condition is an indication of the structural integrity of the tree. This is given as good, average or poor. More details will be given in the observations column of the data tables if appropriate.

The observations column will include a brief description of each tree and provide further information as relevant.

Visual importance is assessed using a combination of factors such as species, size, aesthetic quality and location. The visual importance of a tree (or group of trees) is one of the key factors in determining its category grading.

The remaining contribution is a rough estimate of the number of years a tree is expected to survive in a structurally sound condition assuming normal arboricultural management.

Occasionally it is impractical to obtain accurate measurements due to restricted access or other site conditions and the data may be estimated. Where data is estimated the figures are shown in italics in the attached data tables.

3.2 Category Rating

3.2.1 Main Categories

Category ratings are allocated based on the current quality and value of a tree in its current surroundings assuming the recommendations of this report are carried out. No consideration is given to any specific development proposal when allocating category ratings.

Category A trees are those which are of high quality and value, are in good structural and physiological condition and are expected to contribute for at least another 40 years.

Category B trees are those which would be considered as category A trees but which are of lower quality and value, poorer structural condition, and which are expected to contribute for at least 20 years.

Category C trees are those which are of low quality and value, are in poor condition, and are expected to contribute for at least 10 years.

Category R trees are those which are expected to contribute for less than 10 years due to serious defects. As is common in risk management, where there is doubt, the precautionary principle may be applied.

In certain circumstances trees may be considered of higher value due to cultural or ecological reasons. If this is the case it will be made clear in the tree data tables.

3.2.2 Sub-categories

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 'other arboricultural value'

Sub-category 2 trees are those with 'landscape value'

Sub-category 3 trees are those with 'cultural or conservation value'

These subcategories do not infer any hierarchy of value. For example a category B1 tree should not necessarily be considered any more valuable than a category B3 tree.

5 Legal status of surveyed trees

In order to both reduce costs and to ensure timely completion, no check has been made by this consultant with either the local planning authority or the Forestry Commission.

We recommend that the local planning authority is contacted to check whether the trees on this site are protected by a Tree Preservation Order or are within a Conservation Area.

We also recommend that the local Forestry Commission conservancy is contacted to check whether the trees surveyed are protected under the Forestry Act.

Trees may also be subject to legal protection under a range of other legislation, much of which is aimed at wildlife and habitat protection.

No work should be done to any trees until either suitable permission has been granted or it has been verified that the intended work does not require permission.

We are happy to assist in establishing whether trees on this site are protected by a Tree Preservation Order or a Conservation Area designation if required.

6 Contact Details

I hope this report provides all the required information. However, if further advice is needed then please contact me and I will be happy to help.

James Royston – Independent Arboricultural Consultant
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Report completed 19th April 2013

Appendix 1: Data Tables

Key:

Tree number Refers to the tree number as shown on the attached plans.

Common name Is the English name given to a species.

Scientific name Also known as the botanical name often is in Latin but can contain elements of other languages. The botanical authority who named the species is not included.

Height is tree height in metres.

Diameter is stem diameter rounded down to the nearest 10mm. This is the calculated combined stem diamter in the case of multi-stem trees.

Branch spread is the distance from the base of the tree to the extremities of the crown in the four cardinal directions of the magnetic compass.

Height of crown clearance is estimated in metres and is an indication of the lowest significant live branches of the crown.

Age class is an indication of which stage a tree is at in its natural life cycle.

Physiological condition is an assessment of the health and vigour of the tree.

Structural condition is an indication of the structural integrity of the tree.

The observations column includes a brief description of each tree and provide further information as relevant.

Preliminary management recommendations includes suggestions on tree management when considering current site use and current tree condition.

Visual importance is an indication of the visual amenity value of the tree in its current setting.

Remaining contribution is a rough estimate of the number of years a tree is expected to survive in a structurally sound condition assuming normal arboricultural management.

Category grading is given as A, B, C or R with subcategories 1, 2 or 3. See Section 3.2 for further details.

Note: Occasionally it is impractical to obtain accurate measurements due to restricted access or other site conditions and the data/measurements may be estimated.

Tree Number	Common Name	Botanical Name	Height (m)	Effective Diameter (mm)	Branch spread (m)				Crown Clearance (m)	Age class	Physiological condition	Structural condition	Observations	Recommendations	Visual Amenity Value	Remaining contribution (years)	Category grading	RPA radius (m)
					North	East	South	West										
1	Beech	*Fagus sylvatica*	8	350	_	_	_	_	2	Semi mature	Fair	Fair	A group of mainly single stem trees. No obvious major visible defects.	No action at present	Low	20+	C1	4.2
2	Mix	*Mix*	6	400	_	_	_	_	2	Semi mature	Fair	Fair	A group of single stem cherry, pear and apple. No obvious major visible defects. Not significant trees	Remove all dead, defective, dying or dangerous branches as required	Low	20+	C1	4.8
3	Cedar of Lebanon	*Cedrus libani*	9	590	8.6	7.2	2.1	5.2	2	Semi mature	Fair	Fair	Single stem tree with no obvious major visible defects. Previously topped.	No action at present	Low	20+	C1	7.08
4	Mix	*Mix*	18	460	_	_	_	_	2	Early mature	Fair	Fair	A group of mainly single stem trees. No obvious major visible defects.	No action at present	Medium	20+	B1	5.52
5	Sycamore	*Acer pseudoplatanus*	17	750	1.5	3.4	3.6	5.1	2	Semi mature	Fair	Poor	A twin stem tree with included bark and bark wounds	Monitor for signs of deterioration	Low	20+	C1	9
6	Mix	*Mix*	17	600	_	_	_	_	2	Mature	Fair	Fair	A group of sycamore with a smaller diameter birch. The birch is suppressed by the sycamore.	Remove the birch	Medium	20+	B1	7.2
7	Beech	*Fagus sylvatica*	6	200	_	_	_	_	0	Semi mature	Fair	Fair	An overgrown hedge. No obvious major visible defects.	No action at present	Low	20+	C1	2.4
8	Mix	*Mix*	11	300	_	_	_	_	2	Young	Fair	Fair	A group of mainly single stem trees. No obvious major visible defects.	Remove all dead, defective, dying or dangerous branches as required	Low	20+	C1	3.6
9	Sycamore	*Acer pseudoplatanus*	7	200	_	_	_	_	0	Young	Fair	Fair	An area of multi-stem stump regrowth. No obvious major visible defects. Not significant trees.	No action at present	Low	10+	C1	2.4
10	Mix	*Mix*	10	650	_	_	_	_	2	Mature	Fair	Fair	A riverside group of mostly single stem trees.	Remove all dead, defective, dying or dangerous branches as required	Medium	20+	B1	7.8
11	Ash	*Fraxinus excelsior*	15	760	3.5	7.9	5.2	8.1	2	Mature	Fair	Poor	A multi-stem tree with some old wounds from past failures. Some minor decay present. Tree is pushing against the bridge structure.	Fell	Low	<10	U	9.12
12	Sycamore	*Acer pseudoplatanus*	14	590	2.8	6.4	5.5	6.1	2	Early mature	Fair	Fair	Single stem tree with no obvious major visible defects.	No action at present	Medium	20+	B1	6.4
13	Ash	*Fraxinus excelsior*	12	290	0.0	6.6	6.8	3.9	2	Young	Fair	Fair	Single stem tree with no obvious major visible defects. Not a significant tree.	No action at present	Low	10+	C1	3.48
14	Sycamore	*Acer pseudoplatanus*	18	830	5.9	6.6	6.2	7.3	5	Mature	Fair	Fair	A single stem tree with a cavity at 2m. The tree appears structurally sound.	No action at present	Medium	20+	B1	9.96

Tree Number	Common Name	Botanical Name	Height (m)	Diameter (mm)	Branch spread (m)				Crown Clearance (m)	Age class	Physiological condition	Structural condition	Observations	Recommendations	Visual Amenity Value	Remaining contribution (years)	Category grading	RPA
					North	East	South	West										
15	Beech	*Fagus sylvatica*	18	940	7.8	7.5	5.4	5.5	4	Early mature	Fair	Poor	A single stem tree with a multi-stem crown with tight unions and included bark. This is a hazardous tree.	Fell	Medium	<10	U	11.28
16	Beech	*Fagus sylvatica*	18	870	7.1	10.3	5.2	5.7	4	Early mature	Fair	Poor	A single stem tree with a multi-stem crown with tight unions and included bark. This is a hazardous tree.	Fell	Medium	<10	U	10.44
17	Mix	*Mix*	18	600	_	_	_	_	0	Mature	Fair	Fair	A riverside group of single stem and multi-stem trees. The group includes trees with a typical range of defects, eg some are dead, some have dead branches, some have decay.	Remove all dead, defective, dying or dangerous branches as required	High	20+	B1	7.2
18	Ash	*Fraxinus excelsior*	16	710	8.6	9.3	6.5	7.9	2	Semi mature	Fair	Fair	A single stem tree with a twin stem crown. No obvious major visible defects. Not a significant tree.	No action at present	Low	20+	C1	8.52

Appendix 2: Plans



Note: Plans are for guidance only. These drawings should not be be used for scaling.

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Tree roots constraints plan: Nether Mill, Penistone

1:1000	PAPER SIZE A3

Key	
	Category A Tree
	Category B Tree
	Category C Tree
	Category U Tree
	Root protection area

N

Indicative

G1

G2

G4

G6

G7

G8

T3

T5

G10

G17

50m

STN11
193.953

STN17
194.135

STN18
194.297

STN21
194.670

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Tree roots constraints plan: Nether Mill, Penistone

1:500 | PAPER SIZE A3

Key	
	Category A Tree
	Category B Tree
	Category C Tree
	Category R Tree
	Root protection area



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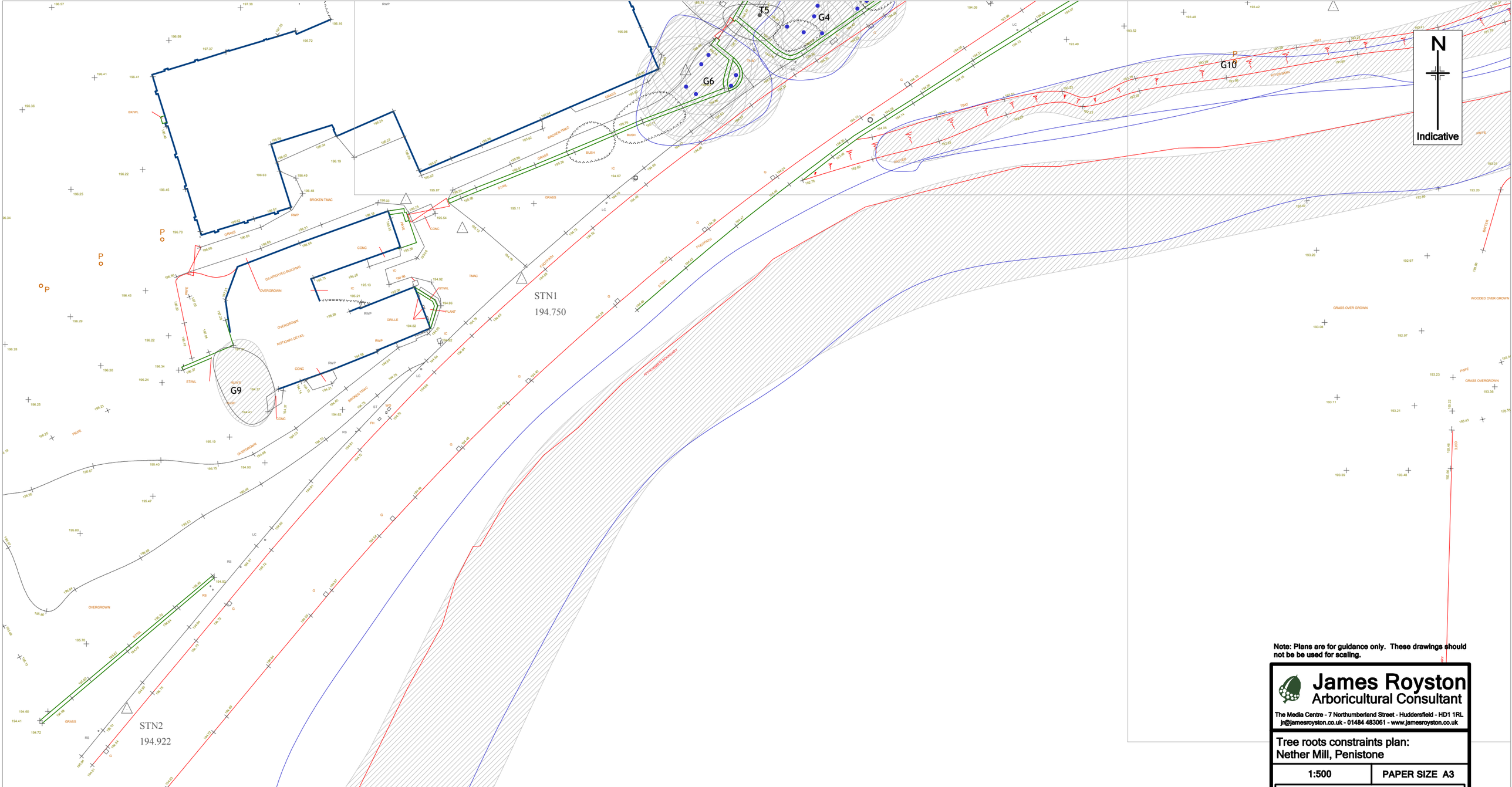
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1:500	PAPER SIZE A3

Key	
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1:500 | PAPER SIZE A3

Key	
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	Category B Tree
	Category C Tree
	Category R Tree
	Root protection area