

Arboricultural Survey

In accordance with BS 5837:2012

Carried out at:

**Cooper Art Gallery
Barnsley
S70 2AH**

Client:

GHM Partnership

ASB Arboricultural Consulting



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1.	<u>EXECUTIVE SUMMARY.....</u>	3
2.	<u>INTRODUCTION.....</u>	3
2.1	Purpose of the Report.....	3
2.2	Limitations	3
3.	<u>SITE VISIT.....</u>	4
3.1	Site Description	4
3.2	Survey Conditions	4
4.	<u>FINDINGS</u>	5
4.1	Tree descriptions and recommendations	5
5.	<u>CONCLUSIONS.....</u>	5
	<u>APPENDIX 1: TREE DATA</u>	6
	<u>APPENDIX 2: EXPLANATION OF TREE DESCRIPTIONS</u>	7
	<u>APPENDIX 3: GENERAL RECOMMENDATIONS.....</u>	9
	<u>APPENDIX 4: TREE CONSTRAINTS PLAN</u>	10



1. Executive summary

This survey included thirteen individual trees.

The trees were predominately of moderate value to the local treescape, with two trees providing a high amenity value.

2. Introduction

2.1 Purpose of the Report

- 2.1.1 This report has been commissioned to provide professional independent, detailed arboricultural advice on all relevant trees present at **Cooper Art Gallery, Barnsley, S70 2AH**.
- 2.1.2 The report has been undertaken in accordance with **BS 5837:2012 'Trees in relation to construction – Recommendations'**.
- 2.1.3 A topographical plan has been supplied (Drawing No. **10853-138-2DT**). This, along with all other documents supplied to ASB Arboricultural Consulting, is assumed to be correct.

2.2 Limitations

- 2.2.1 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.
- 2.2.2 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.
- 2.2.3 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.
- 2.2.4 Due to the large potential penalties for illegally carrying out work to protected trees, it is recommend that a check is carried out prior to any works being undertaken to ensure the trees on site are not protected by a Tree Preservation Order or are within a Conservation Area. We are happy to assist in establishing whether trees on this site are protected by a Tree Preservation Order or a Conservation Area by the Local Authority, if required.



3. Site Visit

3.1 Site Description

3.1.1 Land Use – The site surveyed is to the rear of Cooper Art Gallery.

The courtyard is presently used by employees of the art gallery as a rough surfaced car park. There is a rough surfaced road providing access to the rear entrance.

3.1.2 Topography - The site is approximately level.

3.1.3 Treescape - The area on a whole is well tree'd for an urban setting.

The trees on this site have a moderate impact on the local treescape.

3.1.4 Species diversity – The only two species were surveyed on this site; London plane and Holly.

3.1.5 Visual amenity value - The trees on site collectively provide a moderate visual amenity to the surrounding area. Two trees which overhang Eastgate provide a high visual amenity.

3.2 Survey Conditions

3.2.1 The survey was carried out on 20th November 2013 by Victoria Black.

The weather conditions; bright with the occasional light shower, visibility was not affected.



4. Findings

4.1 Tree descriptions and recommendations

- 4.1.1 The tree survey revealed a total of thirteen individual items of vegetation. Of these, eight trees were identified as retention category 'B' and five trees were identified as retention category 'C'. Please refer to **Appendix 2** for retention category and definition criteria.
- 4.1.2 Those trees which overhang the public footpaths or public highways, detailed at **Appendix 1**, shall require future maintenance to maintain clearance heights for vehicular or pedestrian traffic. These heights should be 5.6m above a road and 2.5m above a footpath.

5. Conclusions

- 5.1 The trees surveyed were generally found to be in good condition.
- 5.2 Any proposed development should be accompanied by an Arboricultural Method Statement detailing the protection measures necessary for each tree. This should specify fencing standard and positions, acceptable tree friendly construction techniques and necessary tree work.



I hope that this report provides all the necessary information, but should any further advice be needed please do not hesitate me.

V.Black

Victoria Black FdSc Arb

On behalf of

ASB Arboricultural Consulting

1st December 2013



Appendix 1: Tree Data

Tree Number	Common Name	Botanical Name	Age class	Height (m)	Diameter (mm)	Canopy spread (m)				Crown Clearance (m)	Physiological condition	Structural condition	Observations	Recommendations	Visual Amenity Value	Remaining contribution (years)	Retention category
						North	East	South	West								
1	London Plane	<i>Platanus x acerifolia</i>	Early mature	18	440	6.1	1.9	6 Est	1.8	4.5 South	Good	Fair	Located in planting bed. Twin stem at 3m with an unbalanced canopy due to the presence of neighbouring tree. Over hanging boundary and car parking area. Previous works are noted. Small wound evident to south appears to be healing slowly but ok. Small stub noted within canopy. No major visible defects observed.	No action required	Moderate	20-40	C1
2	London Plane	<i>Platanus x acerifolia</i>	Mature	18	640	4.5	2.8	7 Est	2.6	5 North	Good	Fair	Located in planting bed. Single stem and vertical with an unbalanced, multi stem crown due to the presence of neighbouring tree. Over hanging boundary and car parking area. No major visible defects observed.	No action at present	Moderate	20-40	B1
3	London Plane	<i>Platanus x acerifolia</i>	Mature	18	540	6.4	2.2	6 Est	1.7	3 North	Good	Fair	Located in planting bed. Single stem and vertical with an unbalanced canopy due to the presence of neighbouring tree. Over hanging boundary and car parking area. No major visible defects observed.	No action at present	Moderate	20-40	B1
4	London Plane	<i>Platanus x acerifolia</i>	Early mature	18	460	3.9	1.4	5 Est	1.3	5 South	Good	Fair	Located in planting bed. Single stem and vertical with an unbalanced crown due to the presence of neighbouring tree. Over hanging boundary and car parking area. Possible birds nest noted. No major visible defects observed.	No action at present	Low	20-40	B1

5	London Plane	<i>Platanus x acerifolia</i>	Mature	18	490	7.1	1.7	6 Est	2.4	4 North	Good	Fair	Located in planting bed. Single stem, vertical with an unbalanced canopy due to the presence of neighbouring tree. Over hanging boundary and car parking area. Previous works are noted. Small stub noted within canopy. No major visible defects observed.	No action at present	Moderate	20-40	B1
6	London Plane	<i>Platanus x acerifolia</i>	Mature	18	680	8.7	7.3	6 Est	2.4	2.5 North	Good	Fair	Located in planting bed. Single stem, vertical with an unbalanced canopy due to the presence of neighbouring tree. Over hanging boundary and car parking area. Slightly sunken stem to the east and west.	No action at present	Moderate	20-40	B1
7	Holly	<i>Ilex aquifolium</i>	Early mature	13	350	2.0	4.0	3.5	4.5	2.5 West	Fair	Fair	Overhanging road, boundary and building. Multi stem at 1m with an unbalanced crown due to neighbouring tree. Birds nest in canopy. Previous pruning wounds healing well. No major visible defects noted.	No action at present	Low	20-40	C1
8	Holly	<i>Ilex aquifolium</i>	Early mature	13	260	2.0	3.0	3.9	3.6	2.5 West	Fair	Fair	Single stem with an unbalanced crown due to neighbouring tree. Birds nest in canopy. No major visible defects noted.	No action at present	Low	20-40	C1
9	Holly	<i>Ilex aquifolium</i>	Early mature	13	260	0.5	4.5	4.0	4.5	2.5 West	Fair	Fair	Single stem with an unbalanced crown due to neighbouring tree. Lean to south. Birds nest in canopy. No major visible defects noted.	No action at present	Low	20-40	C1
10	Holly	<i>Ilex aquifolium</i>	Early mature	13	230	2.0	1.2	2.0	1.6	1.5 North	Fair	Fair	Twin stem at 2m with an unbalanced crown due to neighbouring tree. No major visible defects noted.	No action at present	Low	20-40	C1

11	Holly	<i>Ilex aquifolium</i>	Early mature	13	290	3.2	0.0	3.0	4.0	2 North	Fair	Fair	Single stem with an unbalanced crown due to neighbouring tree. Minor wound noted to west – healing well. Birds nest in canopy. No major visible defects noted.	No action at present	Low	20-40	C1
12	London Plane	<i>Platanus x acerifolia</i>	Mature	18	580	5.9	5.8	4.8	5.5	4 North	Good	Fair	Overhanging road, boundary and car park. Single stem, vertical with a balanced, multi stem canopy. Birds nest in canopy. No major visible defects noted.	No action at present	High	20-40	B1
13	London Plane	<i>Platanus x acerifolia</i>	Mature	18	720	5.2	7.9	7.3	6.2	4 South	Good	Fair	Overhanging road, boundary and car park. Single stem, vertical with a balanced, multi stem canopy. Birds nest in canopy. Stem growing against wall causing a slight bulge in boundary wall. No major visible defects noted.	No action at present	High	20-40	B1



Appendix 2: Explanation of Tree Descriptions

Measurements

Tree height is calculated in metres from ground level to the highest point of the tree.

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 each stem will be measured.

Canopy spread is measured from the centre of the stem base to the tips of the branches in all four cardinal points using an electronic distometer.

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

Age Class is divided into young, semi-mature, early-mature, mature, over mature, and veteran.

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. This is given as good, average or poor.

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

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



Retention 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 U 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.

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 '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'



Appendix 3: General recommendations

All work must be to BS 3998:1989 - '*Recommendations for tree work*'.

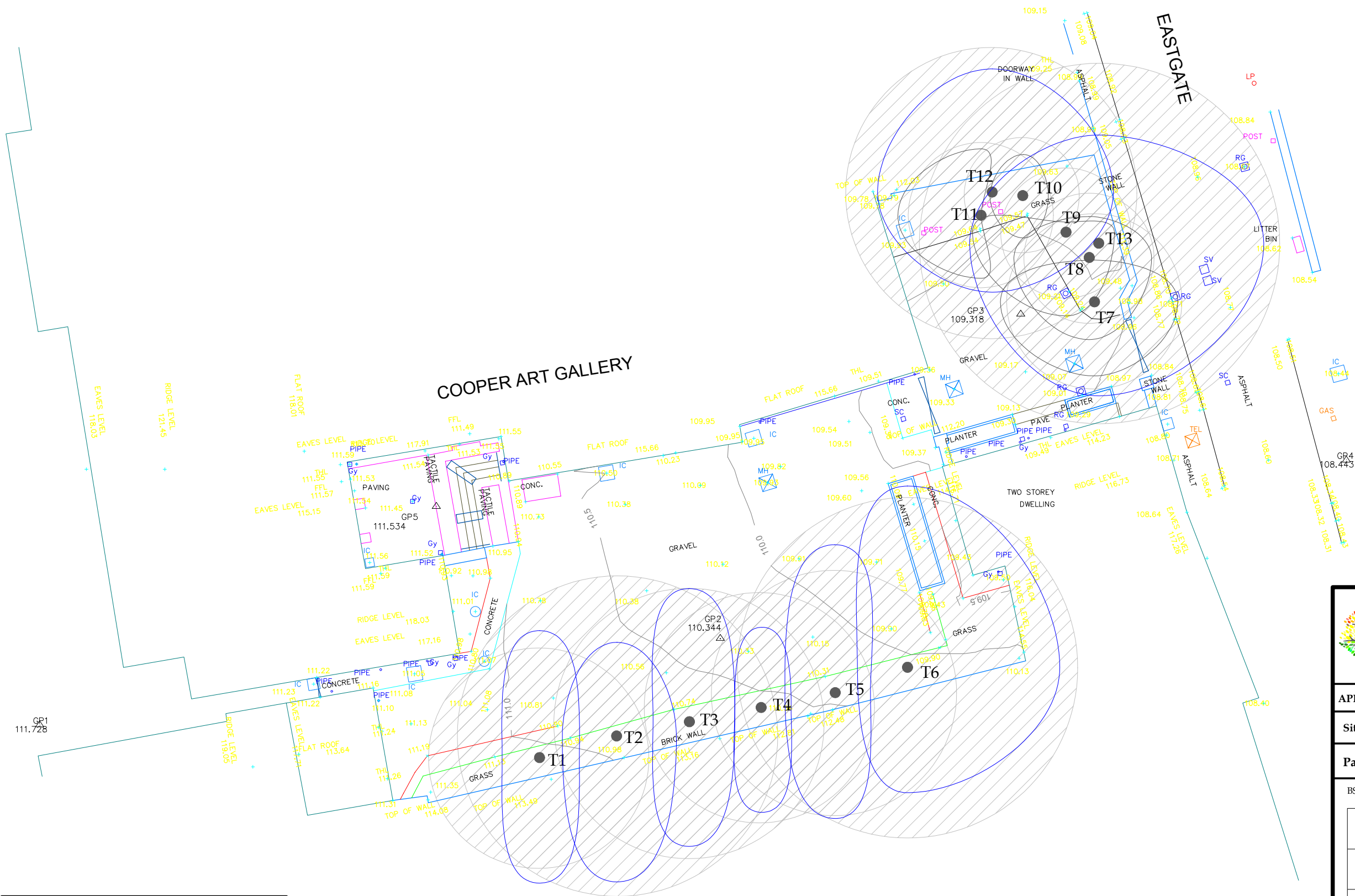
This report is based upon a visual inspection. The consultant shall not be responsible for events which happen after this time due to factors which were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.

Any defects seen by a contractor or the employer that were not apparent to the consultant must be brought to the consultant's attention immediately.

It is advisable to have trees inspected by an arboricultural consultant regularly.

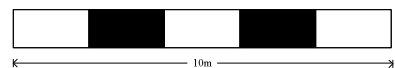


Appendix 4: Tree Constraints Plan



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.





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APPENDIX 4 - TREE CONSTRAINTS PLAN

Site: Cooper Art Gallery, Barnsley.

Paper Size: A3

Scale: 1:200

BS 5837: 2012 Retention Categories

	CATEGORY A
	CATEGORY B
	CATEGORY C
	CATEGORY U

	ROOT PROTECTION AREA
	TREE STEM