



ARBORICULTURAL SURVEY

At:

***Cawthorne Village and Civil Parish,
Barnsley,
South Yorkshire***

Prepared For:

Mrs Bashforth

*Clerk to the Council,
c/o Mustard Hill Cottages,
349 Barnsley Road,
Hoylandswaine,
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 Institute of
Chartered Foresters
Registered Consultant

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1. Introduction

1.1 Instructions & Purpose of Survey

- 1.1.1 This report details the findings of a formal arboricultural survey of the trees at: Cawthorne village and civil parish, Barnsley, South Yorkshire.
- 1.1.2 I am instructed by Mrs Bashforth on behalf of Cawthorne Parish Council, to visit the site and prepare my findings in a report.
- 1.1.3 This report details the relevant arboricultural information which is required to inform the owners of the condition of their trees and provides specific management actions that, once undertaken, demonstrate that a duty of care has been taken with regards to tree management.

1.2 Survey Details

- 1.2.1 The survey took place during November 2015 by Adam Winson, Chartered Arboriculturist, MSc, BSc (Hons) MICFor, ACIEEM, (the author's qualifications and experience are included within **Appendix 1**).
- 1.2.2 The trees were given a formal visual inspection from ground level, primarily in order to identify any obvious tree defects posing a present risk of harm and if necessary, manage these tree-related risks to an acceptable level. Management recommendations were also made in relation to good tree management of the site.
- 1.2.3 The trees were surveyed using 'Visual Tree Assessment' techniques and in accordance with the guiding principles of National Tree Safety Group Guidance. Where suitable, individual trees were risk assessed using "Quantified Tree Risk Assessment" methodology (explanatory details regarding the survey methodology are included within **Appendix 2**).
- 1.2.4 A full explanation of the tree data can be found at **Appendix 3**. Full details of all the trees surveyed are found in **Appendix 4**, which includes recommended works for trees requiring management. For tree locations please refer to the Tree Plan at **Appendix 5**.

2. The Site

2.1 Location

- 2.1.1 Cawthorne is a village and civil parish in the Metropolitan Borough of Barnsley, in South Yorkshire.
- 2.1.2 The surveyed trees are situated within three main zones; a cemetery and avenue adjacent the All Saints Church, and a play area/orchard located to the rear of the Spencers arms pub. In addition to the main sites a singular tree was inspected outside the Cawthorne Antiques and Collectors Centre adjacent to a seating area and a single tree was inspected outside the front of the Cawthorne Village Hall.

3. The Trees

3.1 Legal Status

- 3.1.1 Due to the large potential penalties for illegally carrying out work to protected trees, before authorising any tree works a check should be made with the Local Planning Authority to see if the trees are covered by a Tree Preservation Order or if they are within a Conservation Area. If either applies, then statutory permission is required before any works can take place.
- 3.1.2 When appointing a tree surgeon, only properly qualified and experienced companies should be used, who have adequate Public Liability and Employer's Liability Insurance. All tree work should be carried out according to British Standard 3998: 2010 Tree Work - Recommendations.

3.2 Survey Results

- 3.2.1 **Overview of the Trees:** The tree survey revealed 100 trees, comprised of 94 individual trees and 6 tree groups. Most of the trees were in a reasonable condition and as a whole they provide a valuable resource for the village. Therefore, in considering the trees and the villages' residents and visitors, management decisions have been aimed to balance benefits with risks.
- 3.2.2 **Tree Removals:** No trees were assessed as causing immediate danger to property or persons and require removal. However, one small group of shrubby trees and bramble within the park area (G72) has been recommended for removal as it has very little value or future prospects.
- 3.2.3 In addition, multiple self-set Ash trees have established along the southern boundary areas of the cemetery (G17, T18, G18, G24 and G27). While the trees do not pose an imminent hazard, the trees have only limited long term value for the location and will require thinning or removal in the medium to long term.
- 3.2.4 **Tree Pruning and Management:** 21 trees or groups were assessed as offering a sufficiently high risk to people or property and require pruning works and good tree management. These trees are marked in blue on the attached plan at Appendix 5 and detailed in Appendix 4. All of the work is of a low priority.
- 3.2.5 In general the works within the graveyard and avenue are minor, including severing dense ivy, raising low hanging crowns or removing deadwood that is overhanging footpaths.
- 3.2.6 Individual trees worthy of note include T1 a mature Horse Chestnut which is suffering from a potentially significant disease, Bleeding Canker of Horse Chestnut and has some structural crown defects. Also two Holm Oaks within the avenue T47 and T56 have stem defects. Selective pruning via end weight reduction of the damaged limbs will retain the trees more safely (as detailed in appendix 4).
- 3.2.7 Within the play area/orchard most of the work consists of minor remedial pruning in order to raise low hanging crowns or avoid nuisance issues to neighbouring properties.
- 3.2.8 One of the most significant trees within the play area is tree T97 a mature pear. During the inspection the decayed remnants of a fungi fruiting body was found within the union at around 2m. Due to the nature of the fruit body identification of the fungi wasn't possible. However, it is likely that the fungi is an indication of some rotten wood at the main stem union, which suggests the mechanical integrity of the tree may be compromised which may allow the stems to be pulled apart more easily.

- 3.2.9 The crown of tree T97 had good vigour, yet the trees crown form means that pruning to reduce the weight on the union would be of limited suitability and would diminish the amenity value of the tree. As such, it is recommended the main stems are braced using "Cobra Bracing" within the upper crown. "Cobra bracing" is a relatively inexpensive dynamic tree support system specially designed to be flexible and shock-absorbing. The bracing will reduce the probability of serious mechanical failure, as a result of the weaknesses at the stem union and central decay, and help to preserve the tree.
- 3.2.10 **Quantified Tree Risk Assessment (QTRA):** The QTRA system applies established and accepted risk management principles to tree safety management. Where necessary, the surveyed trees were considered in terms of both size (potential impact) and probability of tree or branch failure. Values derived from the assessment of these three components (target, size and probability of failure) are combined to calculate the probability of significant harm occurring.
- 3.2.11 Using the QTRA system, none of the surveyed trees currently had an unacceptable risk threshold. All of the trees or tree groups, detailed as requiring works, fell within the range of tolerable if the risks are as low as reasonably practical. As such, those trees that have had management work recommendations made, should be assessed in relation to the costs and benefits of risk control, and should be reviewed as costs allow.

4. Signature

I trust this report provides all the required information.

Signed



Adam Winson, *Chartered Arboriculturist, MSc, BSc (Hons), MICFor, AIEEM.*

28th November 2015

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Appendices

- Appendix 1: Authors Qualifications and Experience
- Appendix 2: Survey Methodology and Limitations
- Appendix 3: Explanation of Tree Descriptions
- Appendix 4: Tree Data and Works Schedule
- Appendix 5: Tree Plan

Appendix 1: Authors Qualifications & Experience

Mr Adam Winson *Chartered Arboriculturist, MSc, BSc (Hons), ND, MICFor, ACIEEM.*

Experience

I have worked within the tree care profession for 18 years. I am a Chartered Arboriculturist and a Registered Consultant with the Institute of Chartered Foresters. My work ranges from individual expert tree inspections to managing trees on major multimillion pound housing and park developments and highway and infrastructure projects. My work often involves trees with preservation orders, insurance claims, subsidence claims and litigation. In 2010 I obtained an MSc in Arboriculture and Urban Forestry (with distinction), also gaining the top student award, and have had articles published in industry magazines and have original research published by the UK Forestry Commission.

Membership of Professional Bodies

Professional Member and Registered Consultant of the Institute of Chartered Foresters

Associate of the Institute of Ecology and Environmental Management

Education and Qualifications

MSc Arboriculture and Urban Forestry (Distinction) University of Central Lancashire - Myerscough College. 2006 -2009

BSc (Hons) Environmental Conservation 2:1. Sheffield Hallam University. 2002 2005

National Diploma in Arboriculture University of Lincoln/ Riseholme. 1996-1998

Previous Experience

Consulting Arboriculturist at JCA Ltd. Halifax, Yorkshire 2005 to 2012

Freelance Arborist for various companies. Sheffield, South Yorkshire 2002 - 2005

Arborist for AAA Arbor /Sydney City Council Australia 2001- 2002

Arborist for The Tree Surgeon, Brisbane, Australia 2000- 2001

Groundsman/Climber at Lindsey Tree Services, Grimsby, Lincolnshire 1998 -2000

Groundsman/Climber at Freelance Baumpflege, Frankfurt, Germany 1998

Freelance Groundsman/Climber for various companies, Lincoln Area 1996-1998

Training, Awards & Qualifications

MSc Top Student Award University of Central Lancashire 2010

Bats and Bat Surveys- a foundation course for ecological consultants. BCT 2007

Arboriculture & Bats: A Guide for Practitioners BCT and AA 2007

CPRE: Prize for best BSc dissertation on the theme of land management 2006

Quantified Tree Risk Assessment (QTRA): Registered User 2015.

Appendix 2: Survey Methodology and Limitations of Report

The survey was undertaken in accordance with legislation and guidance which has assisted in clarifying the duties of a reasonable and responsible tree owner, in legal cases, best practice and codes of practice. In 2007 the HSE published Management of the risk from falling trees (SIM 01/2007/05) regarding the investigation and its expectations with regarding its expectations as to what is a reasonable and proportionate approach to tree management. Further guidance was issued in 2011 by the National Tree Safety Group, which provides a nationally recognised approach to tree safety management and provides guidance that is proportionate to the actual risks posed by trees. The trees were surveyed visually from the ground using "Visual Tree Assessment" techniques and were risk assessed using "Quantified Tree Risk Assessment" methodology. Measurements are obtained using a diameter tape, clinometer, distometer and loggers tape or are estimated.

VTA is appropriate and is endorsed by industry guidance. It is used by arboriculturists to evaluate the structural integrity of a tree, relying on observation of trees biomechanical and physiological features.

The Quantified Tree Risk Assessment (QTRA) system applies established and accepted risk management principles to tree safety management. Firstly, the targets (people and property) upon which trees could fail are assessed and quantified, thus enabling tree managers to determine whether to assess trees and to what degree of rigour a survey or inspection of the trees is required. Where necessary, the tree is then considered in terms of both size (potential impact) and probability of tree or branch failure. Values derived from the assessment of these three components (target, size and probability of failure) are combined to calculate the probability of significant harm occurring.

Trees are living organisms, as an arboriculturist it is not possible to give a guarantee as to the absolute safety or otherwise of any individual tree. All recommended tree work must be to BS 3998: 2010 - *'Tree Work: Recommendations'*.

The findings and recommendations contained within this report are valid for a period of twelve months from the date of survey. The author 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 these guidelines and terms

Appendix 3: Explanation of Tree Descriptions

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

STEM DIAMETER is measured, or estimated, at 1.5 metres above (higher) ground level. Where the tree is multi-stemmed at this point; the diameter is measured close to ground level or else a combined stem diameter is calculated.

CROWN SPREAD is the measurement from the centre of the stem base to the edge of the crown across the four cardinal points.

AGE CLASS of the tree is described as young, semi-mature, early-mature, mature, or over-mature.

TREE CONDITION This is an assessment of the physiological and structural health of the tree and takes into account vigour, presence of disease and dieback significant wounds, decay and quality of branch junctions. The assessment of each area of the tree: Roots/Base, Stem, Branches, Leaf & Buds is detailed.

TARGET VALUE is classed as high, moderate or low. This is an indication of the likelihood of persons or objects, the latter having variable significance, being within falling distance of a tree or its branches.

WORKS PRIORITY is an indication of the urgency in which the recommended tree works or management should be implemented.

NEXT SURVEY This is an indication of the timescale in which a tree should be re-inspected; a specific time of year for the inspection may also be detailed in the recommendations.

TREE CATEGORIES

A (marked green on the plan) =No works/management required. These trees are considered to be in an acceptable condition at present and require no action at this time. However, these trees may require future management in order to ensure that they remain safe.

B (marked in blue on the plan) =Pruning works/management required. These trees have been recommended for active management. This may include remedial pruning or target management or more detailed, investigation (such as a climbing inspection or a decay detection analysis) or may require future monitoring.

R (marked in red on the plan) = trees for removal. These trees have been recommended for removal, or very heavy pollarding, usually because they pose an unacceptable risk to people and or property, or have only limited long term value.

Appendix 4: Tree Data

TREE DATA

Ref:1447

Tree ID	Tree Species		Measurements				Tree Condition				Management						
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T1	Horse Chestnut	<i>Aesculus hippocastanum</i>	Mature	17	1	85	9	No visual defects	Bark wounds. Cracked / included bark. Old pruning wounds. Minor cavities. Stubs. Bacterial canker.	Minor dead wood. Snapped out branches and weak unions throughout.	Fair	Limited long term value	Low	B	Reduce crown by 15% on damaged or weak limbs	Low	1
G2	Cherry	<i>Prunus laurocerasus</i>	Early-mature	5	1	15	4	No visual defects	No visual defect	No visual defects	Fair	Boundary shrubs, occasional ash saplings	Low	A	No action	N/A	1
T3	Elm	<i>Ulmus procera</i>	Semi-mature	10	1	28	3	Growing from stump of old dead tree.	No visual defect	No visual defects	Fair	Limited long term value due to Dutch elm disease.	Low	A	No action	N/A	1
T4	Ash	<i>Fraxinus excelsior</i>	Early-mature	14	1	45	6	No visual defects	No visual defect. Slight Lean. Ivy covered	No visual defects	Fair	Boundary tree	Low	A	No action	N/A	1
T5	Holly	<i>Ilex aquifolium</i>	Early-mature	11	1	42	3	No visual defects	No visual defect. Slight Lean	No visual defects. Low hanging branches	Fair	Low crown overhanging footpath	Low	B	Raise low canopy to 2m	Low	1
T6	Lawson Cypress	<i>Chamaecyparis lawsoniana</i>	Mature	17	1	55	3	No visual defects	No visual defect. Ivy covered	No visual defects. Minor die back	Fair		Low	A	No action	N/A	1
T7	Yew	<i>Taxus baccata</i>	Mature	14	1	48	3	No visual defects	Slight Lean. Old pruning wounds. Ivy covered.	No visual defects	Good		Low	A	No action required	N/A	1

	Tree Species		Measurements				Tree Condition				Management						
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T8	Thuja	Thuja plicata	Mature	15.5	1	47	2.5	No visual defects. Soil compaction	Bark wounds	Major dead wood. Moderate die back to north east in lower crown.	Poor		Low	A	No action	N/A	1
T9	Holly	Ilex aquifolium	Mature	8	1	34	3	No visual defects	No visual defect. Old pruning wounds. Stubbs. Bark wounds	No visual defects. Low hanging branches	Good	Occasional low branch overhanging footpath	Low	A	No action	N/A	1
T10	Holly	Ilex aquifolium	Mature	8	1	40	3.5	No visual defects	No visual defect. Ivy covered	No visual defects	Good		Low	A	No action	N/A	1
T11	Holly	Ilex aquifolium	Mature	8	2	55	3.5	No visual defects	No visual defect	No visual defects. Minor dead wood	Good		Low	A	No action	N/A	1
T12	Lawson Cypress	Chamaecyparis lawsoniana	Mature	18	1	55	3	No visual defects	No visual defect	No visual defects	Good		Low	A	No action	N/A	1
T13	Lime	Tilia europaea	Mature	20	1	104	6	No visual defects. Stem roots caused gravestone to heave.	Minor cavities. Stubbs. Ivy covered	No visual defects. Minor dead wood	Fair	Very dense crown with sucker growth.	Low	A	No action	N/A	1
T14	Holly	Ilex aquifolium	Mature	9	1	33	2	No visual defects	No visual defect. Bark wounds	No visual defects	Fair		Low	A	No action	N/A	1

Tree Species			Measurements				Tree Condition				Management						
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Di~ (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T15	Holly	<i>Ilex aquifolium</i>	Early-mature	11	1	30	3	No visual defects	No visual defect. Ivy covered	No visual defects. Small / sparse	Fair		Low	A	No action	N/A	1
T16	Sycamore	<i>Acer pseudoplatanus</i>	Mature	18	1	79	8	No visual defects	No visual defect. Old pruning wounds. Minor cavities	No visual defects. Moderate dead wood and small hanging branch	Fair	Small hanging branch yet target too low to warrant works.	Low	A	No action	N/A	1
G17	Ash	<i>Fraxinus excelsior</i>	Semi-mature	10	1	15	2	No visual defects. Situated in holly shrubs which limited access around base.	No visual defect. Tight union & partially included bark	No visual defects. Overhanging adjacent school site	Fair	Dense group along boundary. Will outgrow location / limited long term value.	Moderate	A	No urgent action	Consider felling /coppicing in next 5 years.	1
G18	Ash	<i>Fraxinus excelsior</i>	Semi-mature	8	1	15	2	No visual defects. Situated in holly shrubs which limited access around base.	No visual defect. Tight union & partially included bark	No visual defects. Overhanging adjacent school site	Fair	Dense group along boundary. Will outgrow location / limited long term value.	Moderate	A	No urgent action	Consider felling /coppicing in next 5 years.	1
T19	Ash	<i>Fraxinus excelsior</i>	Early-mature	15	1	40	5	No visual defects. Situated in holly shrubs which limited access around base. Stem base close to boundary wall.	No visual defect. Slight Lean. Ivy covered	Unbalanced crown overhanging adjacent school site	Fair	Dense ivy and shrubs prevented inspection, limited long term value	High	B	Clear shrubs and ivy from lower stem	Consider felling /pollarding within next 5 years.	1
T20	Ash	<i>Fraxinus excelsior</i>	Early-mature	15	1	45	5	No visual defects	No visual defect. Slight Lean. Ivy covered	No visual defects. Minor dead wood	Fair	Ivy prevented detailed inspection	Moderate	B	Clear ivy from stem to 2m	Low	1

Tree ID	Tree Species		Measurements				Tree Condition				Management							
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years	
T21	Yew	<i>Taxus baccata</i>	Early-mature	4	1	15	1.5	No visual defects	No visual defect	No visual defects	Good		Low	A	No action	N/A	1	
T22	Pine	<i>Pinus nigra</i>	Mature	18	1	71	5	No visual defects	No visual defect. Slight Lean. Ivy covered	No visual defects. Minor dead wood	Good	Ivy prevented detailed inspection	Moderate	B	Clear ivy from stem to 2m	Low	1	
T23	Yew	<i>Taxus baccata</i>	Early-mature	4	1	15	1.5	No visual defects	No visual defect	No visual defects	Good		Low	A	No action	N/A	1	
G24	Ash	<i>Fraxinus excelsior</i>	Semi-mature	10	1	15	2	No visual defects	No visual defect	No visual defects	Fair	Dense group along boundary. Will outgrow location / limited long term value.	Moderate	A	No urgent action	Consider felling /coppicing in next 5 years.	N/A	1
T25	Lime	<i>Tilia europaea</i>	Mature	16	1	60	3	No visual defects	No visual defect. Minor cavities. Bark wounds. Epicormics growths	Minor dead wood. Minor die back	Fair	Dense suckers prevented detailed inspection	Moderate	B	Cut back sucker growth at base	Clear epicormics to 2m.	Low	1
T26	Oak	<i>Quercus ilex</i>	Early-mature	11	1	33	3.5	No visual defects	No visual defect. Old pruning wounds	No visual defects	Good		Moderate	A	No action	N/A	1	
G27	Ash	<i>Fraxinus excelsior</i>	Semi-mature	10	1	15	2	No visual defects	No visual defect	No visual defects	Fair	Dense group along boundary. Will outgrow location / limited long term value	Moderate	A	No urgent action	Consider felling /coppicing in next 5 years.	N/A	1

Tree ID	Tree Species		Measurements				Tree Condition					Management					
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T28	Larch	<i>Larix decidua</i>	Mature	18	1	55	4	No visual defects	No visual defect. Slight Lean. Ivy covered	Minor dead wood. Minor die back	Fair	Ivy prevented detailed inspection	Moderate	B	Clear ivy from stem to 2m	Low	1
T29	Lawson Cypress	<i>Chamaecyparis lawsoniana</i>	Mature	18	1	56	3	No visual defects	No visual defect	No visual defects	Good		Low	A	No action	N/A	1
T30	Lawson Cypress	<i>Chamaecyparis lawsoniana</i>	Mature	16	1	54	3	No visual defects. Soil erosion	No visual defect. Slight Lean. Old pruning wounds. Cavity on stem	No visual defects. Minor die back	Poor	Limited long term value	Moderate	A	No urgent action	N/A	1
T31	Walnut	<i>Juglans nigra</i>	Mature	15	5	65	7	No visual defects. Minor decay	Significant cavity at base from old pruning wound, with fungi - yet good reaction wood	No visual defects	Fair	Significant cavity at base, yet tree is coping with this.	Low	A	No action	N/A	1
T32	Ash	<i>Fraxinus excelsior</i>	Early-mature	16	1	60	6	Soil heave. No visual defects	No visual defect	No visual defects. Minor die back	Fair	Adjacent tree, stem damaging wall	Moderate	A	No urgent action	N/A	1
T33	Ash	<i>Fraxinus excelsior</i>	Early-mature	16	1	60	6	Soil heave. No visual defects	No visual defect. Ivy	No visual defects. Minor die back	Fair	Adjacent tree	Moderate	A	No action	N/A	1
T34	Yew	<i>Taxus baccata</i>	Mature	10	1	45	3.5	No visual defects	No visual defect	No visual defects	Good		Low	A	No action	N/A	1

Tree ID	Tree Species		Measurements				Tree Condition					Management				Next Survey Years	
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works		Priority
T35	Holly	<i>Ilex aquifolium</i>	Semi-mature	4.5	1	25	1.5	No visual defects	Ivy covered	No visual defects. Minor die back	Fair	Significant ivy in crown	Low	A	No action required	N/A	1
T36	Yew	<i>Taxus baccata</i> 'Fastigiata'	Mature	7	1	35	2	No visual defects	No visual defect. Slight Lean. Minor cavities	No visual defects	Good		Low	A	No action	N/A	1
T37	Sorbus	<i>Sorbus aucuparia</i>	Mature	12	1	39	2.5	No visual defects. Soil compaction. Soil erosion	No visual defect. Bark wounds	No visual defects. Minor die back	Fair		Low	A	No action	N/A	1
T38	Plum	<i>Prunus cerasifera</i>	Early-mature	10	1	43	3.5	No visual defects	No visual defect. Old pruning wounds	No visual defects	Good		Low	A	No action	N/A	1
T39	Cherry	<i>Prunus 'Kanzan'</i>	Mature	9	1	81	6	No visual defects	Cracked / included bark. Old pruning wounds	No visual defects. Low hanging branches	Good		Moderate	A	No action	N/A	1
T40	Cherry	<i>Prunus 'Kanzan'</i>	Mature	8	1	41	5	No visual defects	No visual defect. Old pruning wounds	No visual defects	Good		Moderate	A	No action	N/A	1
T41	Cherry	<i>Prunus 'Kanzan'</i>	Mature	7	1	45	4.5	No visual defects	No visual defect. Old pruning wounds. Tight Union	No visual defects	Good		Moderate	A	No action	N/A	1

Tree ID	Tree Species		Measurements				Tree Condition					Management					
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T42	Holm Oak	Quercus ilex	Mature	16	1	75	7	No visual defects. Soil compaction	Old pruning wounds. Minor cavities	No visual defects	Good	Avenue tree	Moderate	A	No action	N/A	1
T43	Holm Oak	Quercus ilex	Mature	17	1	88	7	No visual defects; Soil compaction	No visual defect. Cracked / included bark. Tight Union. Weak fork	No visual defects	Fair	Tight union collecting water, yet upright form so not a major defect	Moderate	A	No action	N/A	1
T44	Holm Oak	Quercus ilex	Mature	17	2	90	6	No visual defects. Soil compaction	Bark wounds. Old pruning wounds. Tight Union	No visual defects. Minor dead wood	Good	Avenue tree	Moderate	A	No action	N/A	1
T45	Holm Oak	Quercus ilex	Mature	17	1	85	6	No visual defects. Soil compaction	No visual defect. Old pruning wounds	No visual defects. Minor dead wood	Good	Avenue tree	Moderate	A	No action	N/A	1
T46	Holm Oak	Quercus ilex	Mature	17	3	100	6.5	No visual defects	3 stems - one with significant wound. No visual defect. Cracked / included bark. Minor cavities	Dead wood overhanging footpath	Fair	Dead wood over hanging footpath	Moderate	B	Clear deadwood from over footpath	Low	1
T47	Holm Oak	Quercus ilex	Mature	17	2	75	6	No visual defects. Soil compaction	Stem to south with decay column. Bark wounds. Cavities	No visual defects	Fair	Thin damaged stems upper crown to reduce weight	Moderate	B	End weight reduction by thinning 20%	Low	1
T48	Holm Oak	Quercus ilex	Mature	17	2	85	7	No visual defects. Soil compaction	No visual defect. Old pruning wounds at base with minor decay. Minor cavities	No visual defects	Fair	Significant old pruning wounds to north of base.	Moderate	A	No action	N/A	1

Tree ID	Tree Species		Measurements					Tree Condition					Management				
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T49	Holm Oak	Quercus ilex	Mature	17	1	81	7	No visual defects. Soil compaction	No visual defect. Minor cavities	No visual defects	Fair	Extended limbs overhanging allotment	Moderate	A	No action	N/A	1
T50	Holm Oak	Quercus ilex	Mature	17	4	75	7	No visual defects. Soil compaction	No visual defect. Minor cavities. Tight Union. Partially included bark	No visual defects	Good		Moderate	A	No action	N/A	1
T51	Holm Oak	Quercus ilex	Mature	17	2	95	7.5	No visual defects. Soil compaction	No visual defect. Tight Union. Partially included bark. Old pruning wounds	No visual defects	Good		Moderate	A	No action	N/A	1
T52	Holm Oak	Quercus ilex	Mature	17	3	100	8	No visual defects. Soil compaction	No visual defect. Old pruning wounds	No visual defects. Minor dead wood	Fair	Wall damaged	Moderate	B	Clear deadwood from over footpath	Low	1
T53	Holm Oak	Quercus ilex	Early-mature	9	1	40	3	No visual defects	Slight Lean. Tight Union	No visual defects	Fair		Moderate	A	No action	N/A	1
T54	Holm Oak	Quercus ilex	Mature	16	2	75	6	No visual defects. Soil compaction	No visual defect. Tight Union. Bark wounds. Slight Lean	No visual defects	Good		Moderate	A	No action	N/A	1
T55	Holm Oak	Quercus ilex	Mature	17	2	70	6	No visual defects	No visual defect. Bark wounds. Old pruning wounds	No visual defects. Minor dead wood	Good		Moderate	A	No action	N/A	1

Tree ID	Tree Species		Measurements				Tree Condition					Management					
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T56	Holm Oak	Quercus ilex	Mature	18	1	80	6	No visual defects. Soil compaction	Smaller stem to west has decay. Bark wounds. Minor cavities. Decay	No visual defects	Fair	Branch over hanging graves requires selective reduction	Moderate	B	End weight reduction 20% Reduce weight of damaged branch over hanging graves by 2m to 3m	Low	1
T57	Holm Oak	Quercus ilex	Mature	17	1	76	7	No visual defects. Soil compaction	No visual defect. Bark wounds. Cracked / Included bark. Minor cavities	No visual defects. Minor dead wood	Good		Moderate	A	No action	N/A	1
T58	Oak	Quercus sp	Young	4	1	10	1	No visual defects	No visual defect.	No visual defects	Good	Recent planting	Low	A	No action	N/A	3
T59	Oak	Quercus ilex	Young	4	1	10	1	No visual defects	No visual defect.	No visual defects.	Good	Recent planting	Low	A	No action	N/A	3
T60	Cherry	Prunus avium	Early-mature	9	1	40	4	No visual defects	Bark wounds. Old pruning wounds	No visual defects. Minor die back. Minor dead wood	Fair		Low	A	Crown clean, removing stubs and crossed branches Clear any overhanging branches from adjacent garden	Low	1
T61	Cherry	Prunus avium	Mature	9	1	45	5	Soil compaction. Soil erosion. Damage to buttress roots	Bark wounds. Minor cavities. Decay	Minor dead wood	Fair		Low	A	Crown clean, removing stubs and crossed branches Clear any overhanging branches from adjacent garden	Low	1
T62	Cherry	Prunus avium	Mature	9	1	28	4.5	No visual defects. Soil compaction	No visual defect. Old pruning wounds. Minor cavities	Minor dead wood	Fair		Moderate	A	Crown clean, removing stubs and crossed branches Clear any overhanging branches from adjacent garden	Low	1

Tree Species			Measurements				Tree Condition					Management					
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T63	Cherry	<i>Prunus avium</i>	Mature	9	1	34	5	No visual defects. Soil compaction. Soil erosion	Bark wounds. Old pruning wounds. Cavities. Weak fork	Minor dead wood. Minor die back	Fair		Low	A	Crown clean, removing stubs and crossed branches	Low	1
T64	Cherry	<i>Prunus avium</i>	Early-mature	9	3	24	6	No visual defects. Soil compaction. Damage to buttress roots	Bark wounds	No visual defects. Minor dead wood	Fair		Low	A	No action	N/A	1
T65	Apple	<i>Malus sp</i>	Young	3	1	13	2	No visual defects	Major cavities. Decay	Moderate die back. Minor dead wood	Poor		Low	A	No action	N/A	3
T66	Cherry	<i>Prunus avium</i>	Early-mature	8	3	25	3	No visual defects	Old pruning wounds. Minor cavities	Minor dead wood	Fair		Moderate	B	Clear deadwood	Low	1
T67	Apple	<i>Malus sp</i>	Early-mature	7	1	35	3	No visual defects	Epilormics growths	Minor dead wood	Fair		Moderate	B	Clear deadwood	Low	1
T68	Plum	<i>Prunus sp.</i>	Early-mature	8	1	25	2.5	No visual defects	No major visible defects	Minor dead wood	Good		Moderate	A	No action	N/A	1
T69	Apple	<i>Malus sp</i>	Mature	9	1	30	2	No visual defects	Old pruning wounds. Minor cavities. Tight Union	No visual defects	Fair		Moderate	A	No action	N/A	1

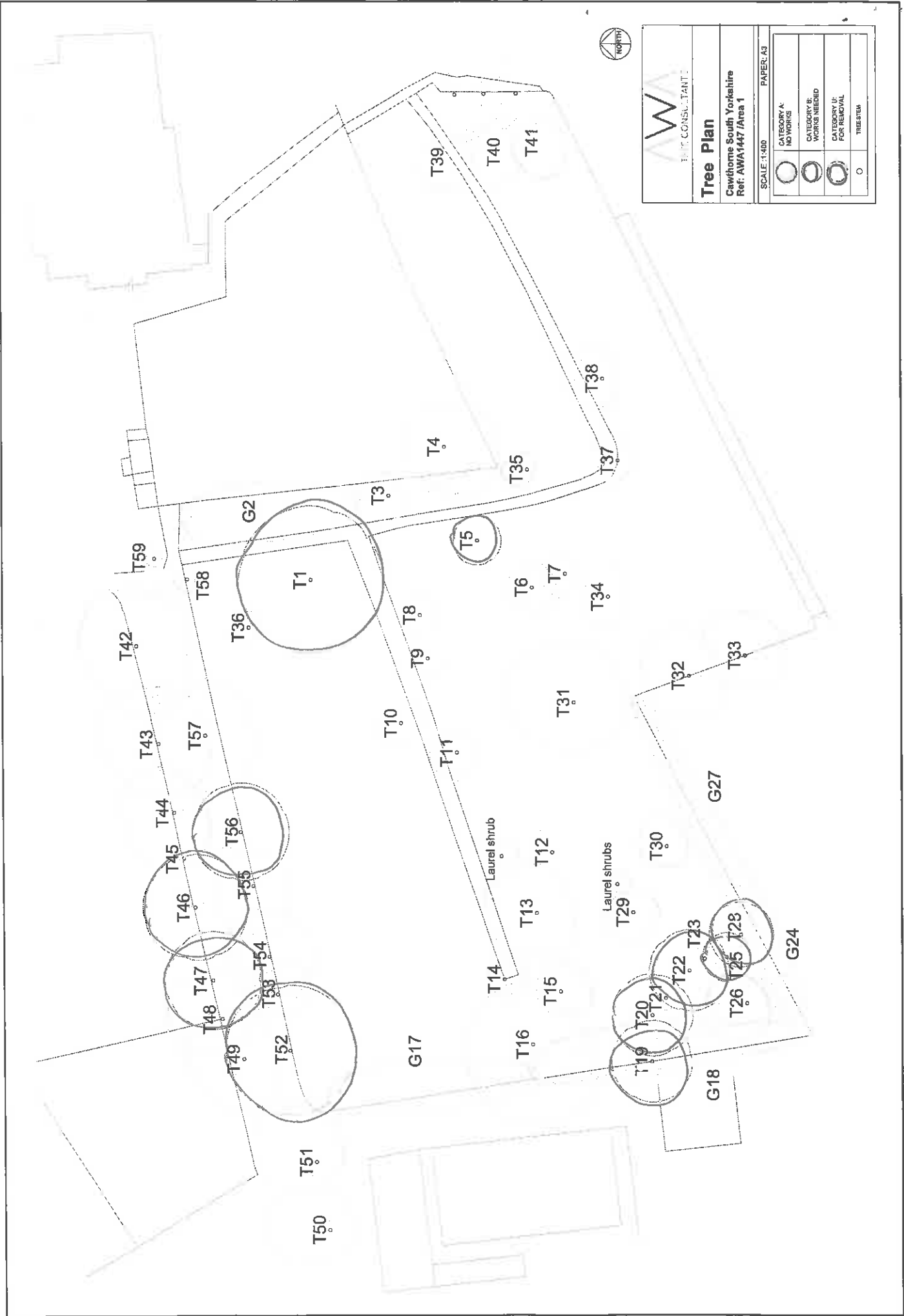
Tree ID	Tree Species		Measurements				Tree Condition				Management						
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T70	Apple	<i>Malus sp</i>	Early-mature	9	1	27	2.5	No visual defects	No visual defect	Minor dead wood	Fair	Low crown	Moderate	B	Raise low canopy To 2.0m	Low	1
T71	Cherry	<i>Prunus avium</i>	Mature	10	2	40	4.5	Damage to buttress roots. Soil erosion	Minor cavities. Decay	Minor dead wood	Fair	Low crown	Moderate	B	Raise low canopy To 2.5m	Low	1
G72	Hazel	<i>Corylus sp.</i>	Semi-mature	7	6	22	5	No visual defects	No visual defect. Dense mass of shrubs and bramble	Minor dead wood	Fair	Large group of bramble, ivy, hazel - limited long term value	Moderate	U	Fell group to ground level	Low	NA
T73	Cherry	<i>Prunus avium</i>	Semi-mature	5	5	20	2	No visual defects	No visual defect	No visual defects	Good	Low crown	Moderate	B	Raise low canopy To 2.5m	Low	1
T74	Cherry	<i>Prunus avium</i>	Mature	11	1	40	5	Soil compaction. Soil erosion	No visual defect. Leaning. Tight Union. Bark wounds	Minor dead wood	Fair	Low crown	Moderate	B	Raise low canopy To 2.0m	Low	1
T75	Plum	<i>Prunus sp.</i>	Early-mature	11	2	45	3	Soil compaction	Tight Union. Partially included bark	Minor dead wood	Fair		Moderate	A	No action	N/A	1
T76	Cherry	<i>Prunus avium</i>	Mature	12	1	65	6	Soil erosion	Old pruning wounds. Tight Union	Minor die back. Major dead wood	Fair	Crown overhanging adjacent building	Moderate	B	Raise low canopy to 3m Clear overhanging branches away from building	Low	1

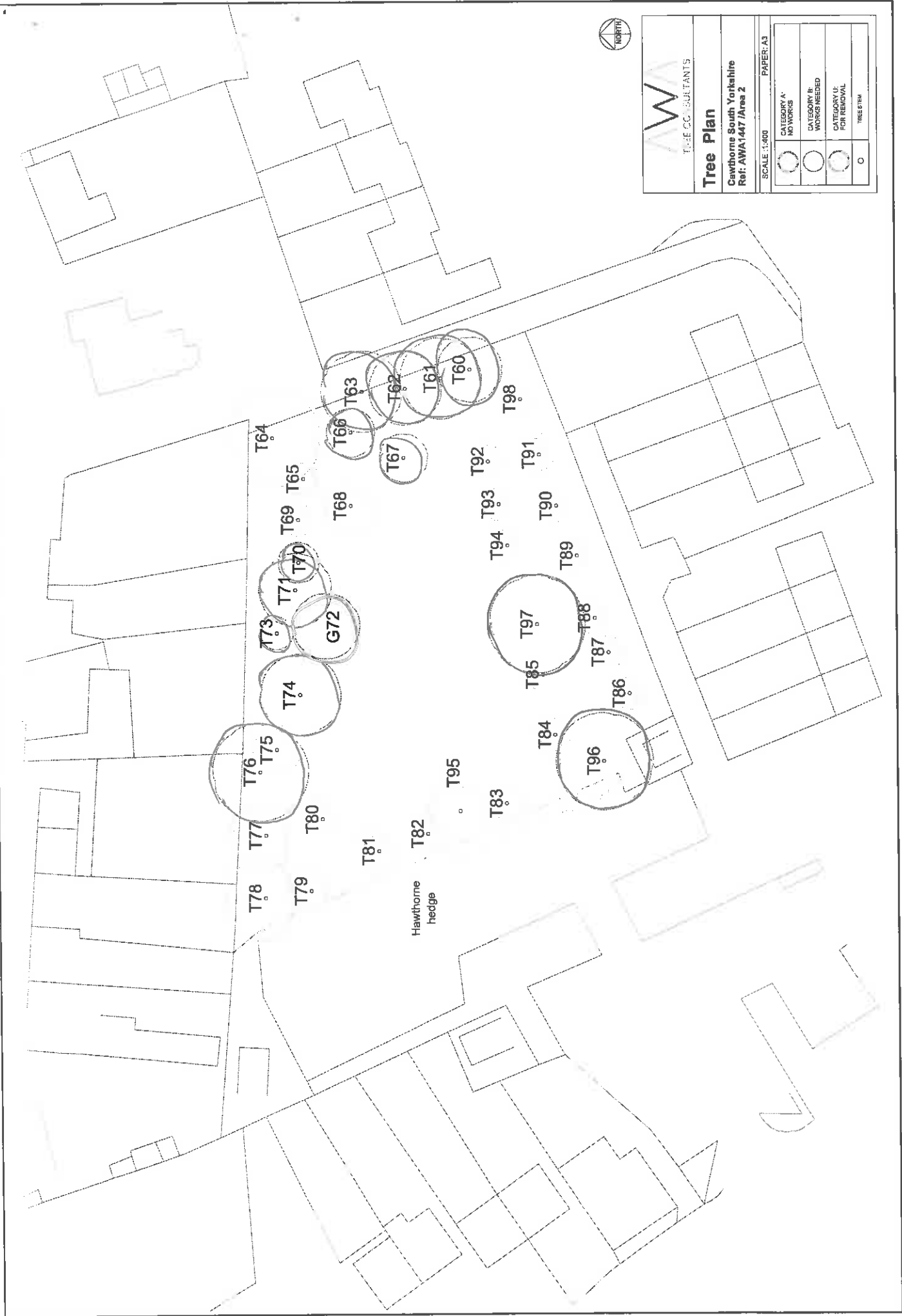
Tree ID	Tree Species		Measurements				Tree Condition					Management					
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T77	Hawthorn	Crataegus sp	Mature	9	1	25	4	No visual defects	No visual defect	Weak fork. Minor dead wood	Good		Moderate	A	No action	N/A	1
T78	Cherry		Prunus avium	Mature	9	1	40	5	No visual defects; Soil erosion	No visual defect. Minor cavities. Decay. Bark wounds	Minor dead wood	Good		Moderate	A	No action	N/A
T79	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T80	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T81	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T82	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T83	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3

Tree ID	Tree Species		Measurements				Tree Condition				Management						
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T84	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T85	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T86	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T87	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T88	Apple	Malus sp	Young	3	1	10	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T89	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T90	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3

	Tree Species		Measurements				Tree Condition				Management						
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T91	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T92	Apple	Malus sp	Young	5	1	15	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T93	Apple	Malus sp	Young	4	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T94	Apple	Malus sp	Young	5	1	12	2	No visual defects	No visual defect	No visual defects	Fair	Small fruit tree	Low	A	No action	N/A	3
T95	Cherry	Prunus avium	Mature	7	1	28	3	No visual defects	Bark wounds, Cavities	Minor dead wood	Fair	Stem canker	Low	A	No action	N/A	1
T96	Pear	Pyrus communis	Mature	13	1	60	6	No visual defects	Bark wounds, Cavities, Decay	Major dead wood	Fair	Occasional dead and damaged branches	Moderate	B	End weight reduction of dead and damaged stems by 1.5m	Low	1
T97	Pear	Pyrus communis	Mature	14	1	70	6	No visual defects	Bark wounds, Twin-stemmed 2m with decayed remains of fungi fruit body just visible, Possible weak fork with some central decay.	Minor dead wood.	Fair	Good vigour yet possible weak union. High value tree with limited scope for pruning	Moderate	B	Install 'Cobra Bracing' type system within upper crown	Low	1

Tree ID	Tree Species		Measurements				Tree Condition					Management					
	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Dia (cm)	Spread Radius (m)	Roots	Stem	Crown	Overall	Additional Comments	Target	Category	Works	Priority	Next Survey Years
T98	Almond	<i>Prunus dulcis</i>	Early-mature	8	2	25	5	No visual defects	No visual defect. Bark wounds. Slight Lean	Minor dead wood	Good		Moderate	A	No action	N/A	1
T99	Lime	<i>Tilia europaea</i>	Mature	17	1	47	8	No visual defects	No visual defect	Minor dead wood. Low hanging branches overhanging adjacent building	Good	Situated on main street	High	A	No action	N/A	1
T100	Beech	<i>Fagus sylvatica</i> x <i>Dawyck</i>	Mature	16	1	53	5	No visual defects	No visual defect. Tight Union	No visual defects	Good	Situated outside of hall	Moderate	A	No action	N/A	1





Tree Plan	
Cawthorne South Yorkshire Ref: AWA1447/area 2	
SCALE 1:400	PAPER A3
☒ CATEGORY A: NO WORKS	☐ CATEGORY B: WORKS NEEDED
☐ CATEGORY C: FOR REMOVAL	☐ TREE STEM

