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ARBORICULTURAL REPORT

to BS 5837:2012 at:

Land Adjacent to
Westfield House
Wellthorne Lane
Ingbirchworth
Penistone
South Yorkshire
S36 7GJ

For:
Mr David Jones
Westfield House
Wellthorne Lane
Ingbirchworth
Penistone

November 2012

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1. Introduction

1.1 Instructions and Brief

1.1.1 I am instructed by Mr David Jones of Ingbirchworth, to visit the site and prepare my findings in a report.

1.1.2 The report is required in accordance with *BS 5837:2012 Trees in relation to design, demolition and construction –Recommendations,* to provide detailed, independent, arboricultural advice on the trees present, in the context of potential development.

1.2 Survey Details

1.2.1 The survey took place during November 2012 by Adam Winson, Chartered Arboriculturist, MSc, BSc (Hons) MICFor, AIEEM, (the author's qualifications and experience are included within **Appendix 1**).

1.2.2 The trees were surveyed visually from the ground using 'Visual Tree Assessment' techniques and in accordance with the guiding principles of British Standard 5837:2012 (explanatory details regarding the survey methodology are included within **Appendix 2**).

1.2.3 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**. For tree locations please refer to the Tree Constraints Plan at **Appendix 5**.

2. The Site

2.1 Location

2.1.1 The site is located in the village of Ingbirchworth, in the Metropolitan Borough of Barnsley; grid reference SE 22030 06269.

2.1.2 The tree survey was limited to the area within the red line, shown in the (2009) image below:



2.2 Site Description

2.2.1 The site is formed by the garden area of a residential dwelling.

3. The Trees

3.1 Legal

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 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 Vegetation Overview

3.2.1 Surrounding the site is a reasonable mix and distribution of established trees, situated within residential gardens or as field boundary or highway trees.

3.3 Summary of Results & Discussion

3.3.1 The tree survey revealed 13 items, labelled G1 to T13 on the attached plan at Appendix 5. Of the surveyed trees, 1 is a higher value retention category 'B' and 12 are lower value retention category 'C'.

3.3.2 The trees are all semi-mature or early mature in age and are typical species of the surrounding residential gardens. None of the trees are worthy of particular note, however collectively they do provide some landscape value.

3.3.3 The Ash tree (T7) is in good health and is more visually prominent than the other surveyed trees.

3.4 Arboricultural Impacts

3.4.1 It is proposed to build a new residential dwelling. Please refer to the plan at Appendix 5 for the layout of the new building.

3.4.2 It is likely the new development will require the removal of several lower value trees and shrubs situated in the centre of the garden, including T8, G9, T10 and G12, as they are situated within or next to the footprint of the new development.

3.4.3 Most other trees are situated near the site boundary and so should not be significantly impacted by the construction of the building.

3.4.4 It is recommended, if possible, to retain and protect the higher value Ash tree, T7, throughout the development. The existing hard-standing driveway is being utilised for the development and so this should avoid any root damage to this tree.

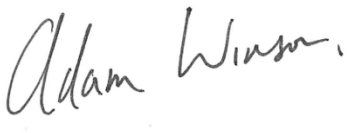
3.5 Protection of the Retained Trees

3.5.1 The retained trees may require protection by fencing in accordance with BS 5837: 2012, during the development phase. The protective fencing should protect the Root Protection Area (RPA) of the tree as highlighted on the plan at Appendix 5.

4. Signature

I trust this report provides all the required information.

Signed



.....

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

15th November 2012

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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 Descriptions and Recommendations
Appendix 5: Tree Constraints Plan

Appendix 1: Authors Qualifications & Experience

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

Adam has extensive experience in arboriculture, having worked with trees for over 15 years. He initially worked as a climbing arborist, throughout Europe and Australia. After returning home, to study a BSc (Hons), he began working as a Consulting Arboriculturist. His work now ranges from individual expert tree inspections to managing trees on major multi-million pound housing and park developments and highway and infrastructure projects. In 2010 Adam obtained an MSc in Arboriculture and Urban Forestry (with distinction), also gaining the top student award. Adam has had articles published in industry magazines and has original research published by the UK Forestry Commission.

Membership of Professional Bodies

Professional Member 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 dissertation on the theme of Countryside Management. Campaign to Protect Rural England Prize 2006
Lady Hastings Prize; awarded for the best performance whilst on work placement. Sheffield Hallam University 2005
Tree Climbing, Aerial Rescue & Use of Chainsaw from Rope and Harness (CS 38 & 39) N.P.T.C 1998

Appendix 2: Survey Methodology and Limitations of Report

The survey was undertaken in accordance with British Standard 5837 (2012) *Trees in relation to design, demolition and construction –Recommendations.* The trees were assessed objectively and without reference to any proposed site layout. The trees were surveyed from the ground using 'Visual Tree Assessment' (VTA) methodology. 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. Measurements are obtained using a diameter tape, clinometer, distometer and loggers tape. Where this is not practical measurements are estimated. Tree groups have been identified in instances as defined in BS 5837 (2012). Shrubs and insignificant trees may have been omitted from the survey.

This report represents a BS5837 tree survey and should not accepted as a detailed tree safety inspection report; however, tree related hazards are recorded and commented upon where observed, yet no guarantee can be given 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.

CROWN HEIGHT is an indication of the average height at which the crown begins and includes information of the first significant branch and direction of growth.

STEM DIAMETER is measured 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 measured from the centre of the stem base to the tips of the branches in all four cardinal points.

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

PHYSIOLOGICAL CONDITION is classed as good, fair, poor, or dead. This is an indication of the health of the tree and takes into account vigour, presence of disease and dieback.

STRUCTURAL CONDITION is classed as good, fair or poor. This is an indication of the structural integrity of the tree and takes into account significant wounds, decay and quality of branch junctions.

LIFE EXPECTANCY is classed as; less than 10 years, 10+, 20+ or 40+ years. This is an indication of the number of years before removal of the tree is likely to be required.

Retention Categories

A (marked green on the plan) = retention most desirable. These trees are of very high quality and value with a good life expectancy.

B (marked in blue on the plan) = retention desirable. These trees are of good quality and value with a significant life expectancy.

C (marked in grey on the plan) = trees which could be retained. These trees are of low or average quality and value, and are in adequate condition to remain until new planting could be established.

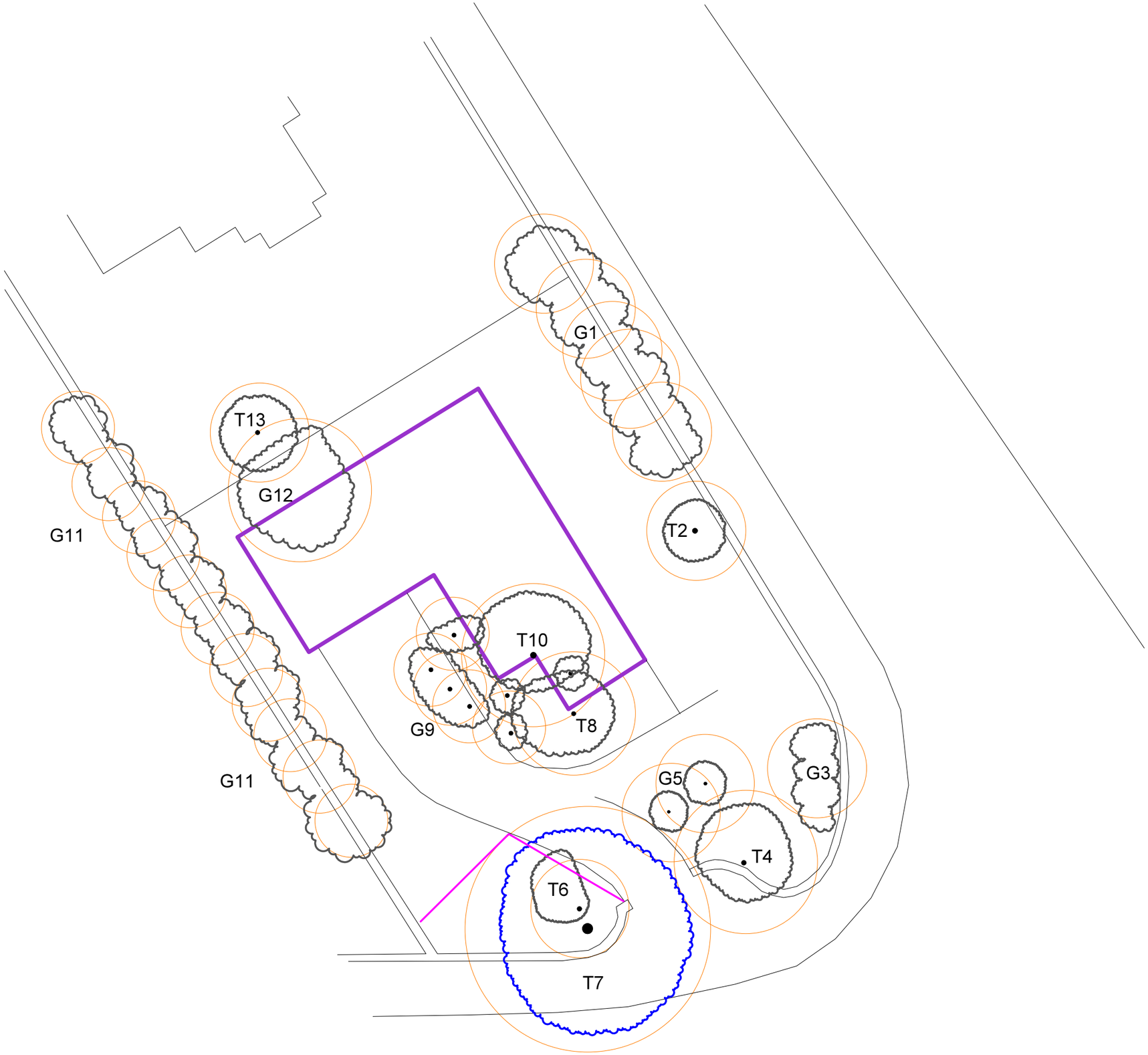
U (marked in red on the plan) = trees for removal. These trees are in such a condition that any existing value would be lost within 10 years.

Appendix 4: Tree Descriptions and Recommendations

Appendix 5: Tree Constraints Plan

Tree Ref.	Age Species *Latin Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	Life Expectancy (yrs)	Retention Category
G 1	Early-Mature Leylandii *X Cupressocyparis leylandii*	7	0	0 n/a	22	See plan	Line of boundary trees adjacent to roadside. All previously topped with poor form and limited long term value.	No action required - consider future removal and replacement planting.	FAIR	POOR	LOW	10-20	C
T 2	Semi-Mature Cypress *Cupressus sp.*	5	1	1 W	25	1.5 1.5 1.5 1.5	Twin-stemmed 1m. No major visible defects.	No action required	GOOD	FAIR	LOW	20-40	C
G 3	Semi-Mature Laurel *Prunus lusitanica*	1	0	0 n/a	10	See plan	Multiple-stemmed shrubs. No major visible defects.	No action required	GOOD	GOOD	LOW	10-20	C
T 4	Early-Mature Laburnum *Laburnum anagyroides*	4	2.5	2 S	30	3 2.5 3 2	Multiple-stemmed at 1m, Occasional branches pushing against boundary wall. Limited long term value.	No action required	FAIR	FAIR	LOW	10-20	C
G 5	Semi-Mature Holly *Ilex aquifolium*	4	1	1 S	17	See plan	Multiple-stemmed shrubs. Minor dieback.	No action required	FAIR	FAIR	LOW	20-40	C
T 6	Semi-Mature Blue Atlas Cedar *Cedrus atlantica*	4	2	2 N	20	3 2 0 1	Twin-stemmed at 1.5m. Poor form with unbalanced crown due to suppression from T7. Limited long term value.	No action required	FAIR	POOR	LOW	10-20	C
T 7	Early-Mature Ash *Fraxinus excelsior*	9	3	3 N	50	5 4 5 5	Single-stemmed to 3.5m. Occasional old pruning wounds, healing well. Crown overhanging road. Minor branch damage in crown, occasional minor deadwood.	Crown lift to 5m over roadside and remove deadwood.	FAIR	GOOD	MOD	20-40	B
T 8	Early-Mature Apple *Malus sp.*	4	2	2 W	24	2 3 2 2	Multiple-stemmed at 1.5m. Pruning wounds throughout crown. Minor dieback.	No action required	FAIR	FAIR	LOW	10-20	C
G 9	Semi-Mature Laurel *Prunus lusitanica*	3	0	0 n/a	15	See plan	Group of small shrubs including Laurel, Holly and Cypress. No major visible defects yet limited long term value.	No action required	GOOD	GOOD	LOW	10-20	C
T 10	Semi-Mature Purple Plum *Prunus cerasifera*	4	1	1 N	30	3 2 3 2	Multiple-stemmed with tight unions. No major visible defects.	No action required	GOOD	FAIR	LOW	20-40	C

Tree Ref.	Age Species *Latin Name*	Height (m)	Crown Height (m)	Height (m) and Direction of the Lowest Branch	Diameter (cm)	Crown Spread N W E S	Observations	Recommendations	Physiological Condition	Structural Condition	Amenity Value	Life Expectancy (yrs)	Retention Category
G 11	Semi-Mature Laurel *Prunus laurocerasus*	8	0	0 n/a	15	See plan	Boundary shrubs with no major visible defects. Occasional Holly in group. Good screening potential.	No action required	GOOD	GOOD	LOW	20-40	C
G 12	Semi-Mature Laurel *Prunus laurocerasus*	4	0	0 n/a	25	See plan	Overgrown shrub.	No action required	FAIR	FAIR	LOW	10-20	C
T 13	Semi-Mature Cypress *Cupressus sp.*	5	1	1 N	22	2 2 2 2	Twin-stemmed at 0.5m. Situated on top of low wall. No major visible defects.	No action required	FAIR	FAIR	LOW	10-20	C



Appendix 5:
Tree Constraints Plan

WELLTHORNE LANE PENISTONE
Ref: AWA1048

BRITISH STANDARD 5837:2012
RETENTION CATEGORIES
Definitions of these catagories can be found in Appendix 2 of the report.

SCALE :1:200 PAPER: A3

	CATEGORY A: RETENTION MOST DESIRABLE
	CATEGORY B: RETENTION DESIRABLE
	CATEGORY C: COULD BE RETAINED
	CATEGORY U: FOR REMOVAL
	RPA: ROOT PROTECTION AREA
	TREE STEM
	TREE STEM TO BE REMOVED
	NEW DEVELOPMENT
	TREE PROTECTION FENCING