



ARBORICULTURAL REPORT & Impact Assessment to BS 5837:2012 at:

***Cross Keys Lane,
Hoyland,
Barnsley,
South Yorkshire
S74 0QA***

Prepared for:
FDA Landscape

Date: *October 2021*

Reference: AWA3983



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1. Introduction

1.1 Instructions and Brief

- 1.1.1 We were instructed by FDA Landscape to visit the site and prepare our 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 October 2021.
- 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.
- 1.2.3 Any additional off-site trees that could impact a new development design have been included in the tree survey parameters.
- 1.2.4 We have been provided with a topographical survey with tree positions plotted. Where surveyed trees were not included on the topographical survey the tree positions were plotted using enhanced GPS technology (1-2m accuracy) and laser distance measurer.
- 1.2.5 This report has been prepared by Mr Adam Winson, Chartered Arboriculturist, MSc, BSc (Hons), MICFor, MArborA, Principle and Director of AWA Tree Consultants Ltd. The tree survey data collection was carried out by Mr James Brown, BSc (Hons) Arboriculture, MArborA, PTI (Lantra), Arboriculturist at AWA Tree Consultants Ltd.
- 1.2.6 Full qualifications and experience are included within **Appendix 1**. Explanatory details regarding the survey methodology are included within **Appendix 2**. 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 refer to the Tree Constraints Plan at **Appendix 5** and for detail of the impacts of the new development refer to the Tree Impacts Plan at **Appendix 6**.

2. The Site

2.1 Location and Description

- 2.1.1 The site comprises a plot of land situated on Cross Keys Lane in Hoyland in the Metropolitan Borough of Barnsley, South Yorkshire. A residential property is situated to the north of the site and roads border the site's eastern, southern and western boundaries.
- 2.1.2 The approximate area of the survey is highlighted in the (2020 Google Earth) image below:



3. The Trees

3.1 Legal

- 3.1.1 An online search was undertaken with Barnsley Metropolitan Borough Council on the 25th of October 2021 to check if trees at the site are protected by a Tree Preservation Order or are within a Conservation Area. As of this date no trees at the site are legally protected.
- 3.1.2 Due to the large potential penalties for illegally carrying out work to protected trees, before authorising any tree works a further check should be made with the Local Planning Authority to confirm if any trees are covered by a Tree Preservation Order or are within a Conservation Area. If either applies, then statutory permission is required before any works can take place (unless such work is approved as part of full planning permission).
- 3.1.3 When appointing a tree surgeon, only properly qualified and experienced companies should be used, who have adequate Public Liability and Employer's Liability Insurance.
- 3.1.4 All tree work should be carried out according to British Standard 3998:2010 Tree Work - Recommendations.

3.2 Tree Survey Results

- 3.2.1 The tree survey revealed 86 items of woody vegetation, comprised of 83 individual trees and 3 tree groups.
- 3.2.2 All of the surveyed trees and tree groups are retention category 'C' (explanatory details regarding the retention categories are included at Appendix 3).
- 3.2.1 Full details of the surveyed trees and tree groups are provided in the attached tree data schedule at Appendix 4. General comments are provided below:
- 3.2.2 T1 to T39 from a linear group of trees bordering the site's eastern boundary. T1 to T21 and T23 to T38 are semi mature Alders, T22 is a semi mature Cherry and T39 is a young shrubby Holly. Many of the trees appear to have had previous formative crown lifting works undertaken, with occasional old pruning wounds to their stems. Collectively the trees provide some screening between the site and the adjacent land.
- 3.2.3 T41 to T85 form a group of young to semi mature trees situated to the centre of the site. The group is predominantly comprised of Alder with several Birch and occasional Willow, Ash, Oak, Poplar and Rowan. Many of the trees are

of relatively poor multiple stemmed form and many appear suppressed due to their dense plantings. G55 forms a widespreading understorey group of predominantly young shrubby Hawthorn, Blackthorn and Hazel.

- 3.2.4 The Alders at the site all have extensive symptoms of Alder Leaf Beetle (*Agelastica alni*).
- 3.2.5 Many Ash trees in the wider region are being impacted by the fungal disease Ash Dieback. Once a tree is infected, the disease is usually fatal, either directly or indirectly. While the identified Ash trees at the site may continue to provide landscape and wildlife benefits for some time, their long-term prospects are likely to be limited as a result of Ash Dieback.
- 3.2.6 G86 forms an adjacent tree group situated in adjacent land beyond the site's northern boundary. The group is comprised predominantly of shrubby Hawthorn with occasional young to semi mature Alder. The tree group was only given a cursory inspection with measurements estimated and condition values indicative only.
- 3.2.7 The tree Root Protection Area (RPA) detailed on the Tree Constraints Plan at Appendix 5 has been used as a layout design tool, to inform on the area around a tree where the protection of the roots and soil structure is treated as a priority.
- 3.2.8 Some lower value tree, hedge and shrub groups do not have RPAs detailed on tree plans. The detailed extent and spread of these low value groups, in conjunction with the tree schedule, is sufficient to assess the associated potential constraints.
- 3.2.9 The RPA for each tree has been plotted as a polygon centred on the base of the stem. Due to the presence of roads, structures, topography (and past tree management) the RPA is likely to be a simplified representation of the tree roots actual morphology and disposition. However, detailed modifications to the shape of the RPA would largely be based on conjecture and so have been avoided.

3.3 Photographs



Photo 1: T1 and T2 from south west



Photo 2: T3 to T17 from west



Photo 3: T18 to T30 from north west



Photo 4: T25 to T31 from west



Photo 5: T32 to T39 from north west



Photo 6: T40 to T45 from south



Photo 7: T40 to T45 from north



Photo 8: T46 to T54 from south west



Photo 9: G55 from west



Photo 10: G55 to T68 from north west



Photo 11: T70 to T85 from west



Photo 12: G86 from south west

4. Arboricultural Impact Assessment

4.1 Proposed New Development

- 4.1.1 It is proposed to build a new Lidl store with associated access, landscaping and facilities. The development proposals have been provided by my client and inform this arboricultural impact assessment and the Tree Impacts Plan at Appendix 6.

4.2 Direct Impacts

- 4.2.1 From assessing the new development proposals, 74 trees or tree groups will require removal to facilitate the development as they are situated in the footprint of the development or their retention and protection throughout the development is not suitable.
- 4.2.2 The trees or tree groups that require removal to facilitate the development are T1 to T71, T83, T84 and T85.
- 4.2.3 The trees or tree groups requiring removal have been identified in red on the attached Tree Impacts Plan at Appendix 6.
- 4.2.4 The trees that require removal are all young to semi mature trees of lower value, retention category 'C'.
- 4.2.5 While the collective removal of the trees will have some negative impact at the site in the short term, new tree plantings at the site will help mitigate for the tree removals and will improve the quality of site's tree cover in the longer term.

4.3 Indirect Impacts

- 4.3.1 The tree Root Protection Area (RPA) detailed on the Tree Plans at Appendix 5 and 6, has been used as a layout design tool, to inform on the area around a tree where the protection of the roots and soil structure is treated as a priority.
- 4.3.2 No significant negative indirect impacts on the retained trees have been identified.

4.4 Protection of the Retained Trees

- 4.4.1 The retained trees may require protection by fencing in accordance with BS 5837: 2012, during the development phase. If required by the Local Planning Authority, an associated Arboricultural Method Statement, detailing protective fencing specifications and construction methods close to the retained trees can be provided.

5. Signature

I trust this report provides all the required information.

Signed



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

26th October 2021

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Appendices

- Appendix 1: Authors Qualifications and Experience**
- Appendix 2: Survey Methodology and Limitations of Report**
- Appendix 3: Explanation of Tree Descriptions**
- Appendix 4: Tree Data**
- Appendix 5: Tree Constraints Plan**
- Appendix 6: Tree Impacts Plan**

Appendix 1: Authors Qualifications & Experience

Mr Adam Winson *Chartered Arboriculturist, MSc, BSc (Hons), MICFor, MARborA, ACIEEM, QTRA Registered*

Adam is the company Director and Principle Consultant. He has a mix of the highest-level academic qualifications and relevant work experience. He has worked within the tree care profession for over 20 years and was awarded an MSc in Arboriculture and Urban Forestry, with distinction. Adam is a Chartered Arboriculturist and a Registered Consultant with the Institute of Chartered Foresters, a Professional Member of the Arboricultural Association and has original research published by the UK Forestry Commission. His work ranges from individual expert tree inspections to managing trees on major multimillion pound housing developments and infrastructure projects. His work often involves trees with preservation orders or litigation, and he has appeared as a tree expert, at planning appeal hearings up to the Crown Court.

Mr James Brown *BSc (Hons) Arboriculture, MARborA, PTI (Lantra)*

James has a BSc (Hons) in Arboriculture, attaining first class honours, as well as being awarded the Institute of Chartered Forester's Student award. He is a Professional Member of the Arboricultural Association and an Associate of the Institute of Chartered Foresters. James joined AWA in 2016, after previously working in Europe's largest tree nursery and has experience of Local Authority tree officer work. His main work consists of tree surveys for development projects and preparing Tree Protection Schemes to BS 5837:2012.

Dr Felicity Stout *Ph.D, MA, BA (Hons), Cert Ed (Forestry), TechArborA, PTI (Lantra)*

Felicity has worked in the tree care profession for the last 10 years. She has a Certificate in Higher Education in Forestry, with a focus on Urban Forestry. She has practical arboricultural contractor experience and is a qualified and experienced Social Forestry practitioner. Felicity has a PhD in History, with a particular interest in the history of woodland and tree management and has published in The Arboricultural Journal on this subject.

Mr Tom Readman *FdSc Arboriculture, Cert Arb L3, TechArborA, Valid Tree Risk-Benefit Validator*

Tom joined AWA from his previous role as a tree risk surveyor with Harrogate Borough Council, where he undertook tree risk surveys at a range of sites and prescribed suitable works. Tom also has extensive previous experience as a climbing arborist. Tom achieved a Distinction in the Foundation Degree in Arboriculture, while working at AWA, and has previously achieved Distinction Star, and was recognised as the student of the year, in the Extended Diploma in Forestry and Arboriculture. Tom's work focuses on tree risk surveys and accurate tree data collection for development projects to BS 5837:2012

Mr James Godfrey *BA (Hons), Cert Arb L3, Level 4 Forestry and Arboriculture, TechArborA*

James has extensive arboricultural experience working as a team leader in both the public and private sector. Achieving a Distinction Star in the Extended Diploma in Forestry and Arboriculture allowed James to utilise this knowledge in order to inform the maintenance and wellbeing of trees across the UK over the course of his career. During his time at Darlington Borough Council, James was responsible for on-site assessment and advising of remedial works for council owned trees. Currently, James is completing a Foundation Degree in Arboriculture and Tree Management, while working at AWA.

Mr David Miller *BA (Hons), PGCE education, Dip Arboriculture Level 4*

David joined AWA after having managed his own tree care team for 8 years and gained a wealth of experience in the tree care industry. Prior to this David spent 10 years working in secondary mainstream and special education. David has also travelled worldwide, mainly trekking and running. His main work at AWA consists of tree surveys for development projects and preparing Tree Protection Schemes to BS 5837:2012.

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, laser 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 BS 5837:2012 tree survey and should not be 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.

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 years, 20-40 years, or more than 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 in green on Appendix 5) = retention most desirable. These trees are of very high quality and value with a good life expectancy.

B (marked in blue on Appendix 5) = retention desirable. These trees are of good quality and value with a significant life expectancy.

C (marked in grey on Appendix 5) = 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 Appendix 5) = trees unsuitable for retention. These trees are in such a condition that any existing value would be lost within 10 years.

	Tree Species			Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
T1	Alder	<i>Alnus incana</i>	Semi-mature	7	1	250	No	2	3	3	3	3	No visual defects	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms. Birds nest		Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development	
T2	Alder	<i>Alnus incana</i>	Semi-mature	8	1	210	No	1.5	2	3	2.5	2	No visual defects	Single stemmed. Slight lean north east. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T3	Alder	<i>Alnus incana</i>	Semi-mature	11	1	200	No	1.5	2	2	2.5	2.5	No visual defects	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T4	Alder	<i>Alnus incana</i>	Semi-mature	10	1	170	No	1.5	2	2.5	1.5	2	No visual defects	Single stemmed. Slight lean north east. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T5	Alder	<i>Alnus incana</i>	Semi-mature	10	1	200	No	1.5	2	2	2	2.5	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T6	Alder	<i>Alnus incana</i>	Semi-mature	11	1	180	No	1.5	2.5	2.5	0.5	1.5	No visual defects	Single stemmed. Vertical. Bark damage. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	

Tree Species				Measurements				Crown (m)				Tree Condition								Value		Management	
Tree ID	Common Name	Latin Name		Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
	T7	Alder	<i>Alnus incana</i>	Semi-mature	10	1	190	No	1.5	2	3	0.5	0.5	No visual defects	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T8	Alder	<i>Alnus incana</i>	Semi-mature	10	1	180	No	1.5	2	2.5	1	2.5	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T9	Alder	<i>Alnus incana</i>	Semi-mature	10	1	170	No	1.5	2	1.5	1.5	2.5	No visual defects	Single stemmed. Vertical	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T10	Alder	<i>Alnus incana</i>	Semi-mature	10	1	170	No	1.5	2.5	2.5	1.5	1.5	No visual defects	Single stemmed. Slight lean north east. Epicormic growths. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T11	Alder	<i>Alnus incana</i>	Semi-mature	10	1	130	No	1.5	2	1	1	2	No visual defects	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development

Tree Species				Measurements				Crown (m)					Tree Condition							Value		Management	
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
	T12	Alder	<i>Alnus incana</i>	Semi-mature	11	1	190	No	1.5	2	1	1	2.5	No visual defects	Single stemmed. Vertical. Old pruning wounds. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T13	Alder	<i>Alnus incana</i>	Semi-mature	11	1	210	No	1.5	2.5	3	2	1.5	No visual defects	Single stemmed. Vertical	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T14	Alder	<i>Alnus incana</i>	Semi-mature	11	1	190	No	1.5	2.5	2.5	1	1.5	No visual defects	Single stemmed. Vertical	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T15	Alder	<i>Alnus incana</i>	Semi-mature	10	1	220	No	1.5	2.5	2.5	2	2.5	No visual defects	Single stemmed. Vertical. Epicormic growths. Staining. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms	Black staining to stem, possible <i>Phytophthora</i> sp. symptoms	Fair	Good	20 to 40 yrs	Low	C	Removal required to facilitate development
	T16	Alder	<i>Alnus incana</i>	Semi-mature	10	1	210	No	1.5	2	2	2	2	No visual defects	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development

Tree ID	Tree Species		Maturity	Measurements				Crown (m)				Tree Condition								Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T17	Alder	<i>Alnus incana</i>	Semi-mature	10	1	200	No	6	2	2.5	1.5	1	No visual defects	Single stemmed. Vertical. Epicormic growths. Bark damage. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms	Extensive bark damage to stem	Good	Good	>40 yrs	Low	C	Removal required to facilitate development
T18	Alder	<i>Alnus incana</i>	Semi-mature	10	1	210	No	2	2.5	2	1	2	No visual defects	Single stemmed. Slight lean north east. Epicormic growths. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
T19	Alder	<i>Alnus incana</i>	Semi-mature	10	1	180	No	1.5	2	1	1.5	2.5	No visual defects	Single stemmed. Vertical. Epicormic growths. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
T20	Alder	<i>Alnus incana</i>	Semi-mature	11	1	210	No	1.5	1.5	1	2	3	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
T21	Alder	<i>Alnus incana</i>	Semi-mature	11	1	220	No	1.5	2	2	3	2.5	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development

Tree Species				Measurements				Crown (m)					Tree Condition							Value		Management	
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
	T22	Cherry	Prunus sp.	Semi-mature	12	1	240	No	2	3.5	2.5	4	3	No visual defects	Single stemmed. Slight lean south	Minor deadwood	Northern stem appears to have been historically damaged. Southern stem now dominant.	Good	Good	>40 yrs	Low	C	Removal required to facilitate development
	T23	Alder	Alnus incana	Semi-mature	11	1	210	No	1.5	2.5	2	1	2.5	No visual defects	Single stemmed. Vertical. Epicormic growths. Old pruning wounds. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
	T24	Alder	Alnus incana	Semi-mature	10	1	220	No	1.5	2.5	1	2	3	No visual defects	Single stemmed. Vertical. Epicormic growths. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
	T25	Alder	Alnus incana	Semi-mature	10	1	170	No	1.5	2.5	2.5	1.5	1	No visual defects	Single stemmed. Vertical	Minor deadwood. Alder Leaf Beetle symptoms	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
	T26	Alder	Alnus incana	Semi-mature	11	1	160	No	1.5	2	2	1	3	No visual defects	Single stemmed. Vertical	Minor deadwood. Alder Leaf Beetle symptoms	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
	T27	Alder	Alnus incana	Semi-mature	12	1	270	No	1.5	2.5	2.5	2.5	3.5	No visual defects	Single stemmed. Vertical. Epicormic growths. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	

	Tree Species			Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
T28	Alder	<i>Alnus incana</i>	Semi-mature	11	1	270	No	1.5	3	3	3.5	3.5	No visual defects	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T29	Alder	<i>Alnus incana</i>	Semi-mature	10	1	210	No	1.5	2.5	2.5	2.5	2.5	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T30	Alder	<i>Alnus incana</i>	Semi-mature	10	1	170	No	1.5	2.5	2.5	2	2.5	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T31	Alder	<i>Alnus incana</i>	Semi-mature	8	1	180	No	1.5	2.5	1.5	2	2.5	No visual defects	Single stemmed. Vertical	Minor deadwood. Alder Leaf Beetle symptoms	Telephone line to east	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T32	Alder	<i>Alnus incana</i>	Semi-mature	11	1	230	No	1.5	3.5	2.5	1.5	3	No visual defects	Single stemmed. Slight lean north east	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T33	Alder	<i>Alnus incana</i>	Semi-mature	10	1	240	No	1.5	2.5	3.5	2	2	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms	Telephone line to east	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	

	Tree Species			Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
T34	Alder	<i>Alnus incana</i>	Semi-mature	11	1	180	No	1.5	2.5	3	2	1	No visual defects	Single stemmed. Slight lean north east	Minor deadwood. Alder Leaf Beetle symptoms	Telephone line to east	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T35	Alder	<i>Alnus incana</i>	Semi-mature	9	1	140	No	1.5	2.5	2.5	1.5	1	No visual defects	Single stemmed. Slight lean north east. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms	Telephone line to east	Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T36	Alder	<i>Alnus incana</i>	Semi-mature	11	1	230	No	1.5	2.5	2	2	3	No visual defects	Single stemmed. Vertical. Old pruning wounds	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T37	Alder	<i>Alnus incana</i>	Semi-mature	11	1	260	No	1.5	2.5	3	2	2.5	No visual defects	Single stemmed. Vertical. Old pruning wounds. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T38	Alder	<i>Alnus incana</i>	Semi-mature	10	1	240	No	1.5	2.5	3	2.5	3	No visual defects	Single stemmed. Slight lean east	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T39	Holly	<i>Ilex aquifolium</i>	Young	5	1	80	No	0	1	1	1	1.5	No visual defects	Single stemmed. Slight lean east	Minor deadwood		Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development	

Tree ID	Tree Species		Maturity	Measurements				Crown (m)				Tree Condition								Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T40	Goat Willow	<i>Salix caprea</i>	Semi-mature	9	5	150, 200, 150, 90, 180	No	0.5	5	5.5	4	2.5	Exposed roots	Multiple stemmed at base. Slight lean north east. Old pruning wounds. Tight unions. Minor cavities. Minor decay. Partially included bark	Minor deadwood. Minor snapouts		Good	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T41	Ash	<i>Fraxinus excelsior</i>	Semi-mature	10	1	210	No	1.5	2	3	2.5	3	No visual defects	Single stemmed. Vertical	Minor dieback. Minor deadwood. Minor snapouts	Minor dieback in crown	Fair	Good	10 to 20 yrs	Low	C	Removal required to facilitate development
T42	Oak	<i>Quercus robur</i>	Semi-mature	8	1	170	No	2.5	1.5	3	2	0.5	No visual defects	Single stemmed. Slight lean north east	Minor deadwood		Good	Good	>40 yrs	Low	C	Removal required to facilitate development
T43	Birch	<i>Betula pendula</i>	Semi-mature	7.5	2	120, 110	No	1.5	2.5	2.5	2.5	2	No visual defects	Twin stemmed at 1m. Slight lean north east. Epicormic growths. Tight unions	Minor deadwood		Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development
T44	Alder	<i>Alnus incana</i>	Semi-mature	6	3	120, 140, 80	No	2	2	2.5	3	1.5	No visual defects	Multiple stemmed at 0.5m. Slight lean north east. Bark damage. Tight unions	Minor deadwood. Alder Leaf Beetle symptoms	Large bark wounds at base	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development

	Tree Species			Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
T45	Alder	<i>Alnus incana</i>	Semi-mature	7	1	220	No	1.5	3	3	2	2	No visual defects	Single stemmed. Slight lean north east. Epicormic growths. Stubs	Minor deadwood. Alder Leaf Beetle symptoms	Significant snapout at base	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
T46	Alder	<i>Alnus incana</i>	Semi-mature	6.5	2	170, 130	No	2	2	2.5	2	2.5	No visual defects	Twin stemmed at 0.5m. Vertical. Epicormic growths	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
T47	Alder	<i>Alnus incana</i>	Semi-mature	6.5	3	130, 110, 50	No	2	2	2	2	2	No visual defects	Twin stemmed at 0.5m. Vertical. Epicormic growths	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
T48	Rowan	<i>Sorbus sp.</i>	Semi-mature	6.5	2	130, 60	Yes	2	2	2.5	2	1.5	No visual defects	Twin stemmed at 1m. Slight lean east	Minor deadwood		Good	Good	10 to 20 yrs	Low	C	Removal required to facilitate development	
T49	Alder	<i>Alnus incana</i>	Semi-mature	7	1	240	No	2	2.5	2.5	2.5	2.5	No visual defects	Single stemmed. Vertical. Epicormic growths	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Fair	Good	20 to 40 yrs	Low	C	Removal required to facilitate development	
T50	Alder	<i>Alnus incana</i>	Semi-mature	7.5	3	100, 130, 210	No	2	3	3	3	3	No visual defects	Multiple stemmed at base. Vertical. Epicormic growths	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Fair	Good	20 to 40 yrs	Low	C	Removal required to facilitate development	

	Tree Species			Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
G51	Alder. Rowan.	<i>Alnus sp. Sorbus sp.</i>	Semi-mature	7	4	110, 130, 180, 60	No	2	2	3.5	2.5	2.5	No visual defects	Multiple stemmed at base. Vertical. Epicormic growths. Bark damage. Snapped stems	Minor deadwood. Alder Leaf Beetle symptoms	Alder and Rowan forming one crown	Fair	Good	20 to 40 yrs	Low	C	Removal required to facilitate development	
T52	Alder	<i>Alnus incana</i>	Semi-mature	7	3	160, 80, 120	No	2	2.5	2.5	2.5	2.5	No visual defects	Multiple stemmed at base. Vertical. Stubs	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
T53	Alder	<i>Alnus incana</i>	Semi-mature	7	3	130, 180, 140	No	1.5	3	3	0.5	2	No visual defects	Multiple stemmed at 0.5m. Slight lean north	Minor deadwood. Alder Leaf Beetle symptoms		Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
T54	Alder	<i>Alnus incana</i>	Semi-mature	7	5	50, 110, 140, 130, 110	No	2	2.5	2	1.5	2.5	No visual defects	Multiple stemmed at base. Vertical	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
G55	Hawthorn. Blackthorn. Hazel. Currant. Ash. Alder. Birch. Willow. Oak.	<i>Crataegus sp. Prunus sp. Corylus sp. Ribes sp. Fraxinus sp. Alnus sp. Betula sp. Salix sp. Quercus sp.</i>	Young	5	10	30	No	0	See plan				No visual defects	Single and Multiple stemmed	Minor deadwood	Dense group of shrubby young predominantly Hawthorn with occasional Blackthorn, Hazel and Currant and occasional young Ash, Alder, Oak, Birch and Willow. Sporadic at northern end.	Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	

	Tree Species			Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
T56	Alder	<i>Alnus incana</i>	Semi-mature	8	6	80	No	2	2.5	2.5	2.5	2.5	No visual defects	Multiple stemmed at base. Vertical. Stubs	Minor deadwood. Alder Leaf Beetle symptoms		Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
T57	Birch	<i>Betula pendula</i>	Semi-mature	9	1	150	No	1.5	2	2	2	2	No visual defects	Single stemmed. Slight lean north east	Minor deadwood		Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development	
T58	Oak	<i>Quercus robur</i>	Semi-mature	7.5	1	150	No	2	3	3	3	2.5	No visual defects	Single stemmed. Vertical	Minor deadwood		Good	Good	>40 yrs	Low	C	Removal required to facilitate development	
T59	Birch	<i>Betula pendula</i>	Young	6.5	1	80	No	3	2	2	1	1	No visual defects	Single stemmed. Slight lean east	Minor deadwood		Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development	
T60	Birch	<i>Betula pendula</i>	Young	6	1	90	No	2.5	3	3	1	0.5	No visual defects	Single stemmed. Significant lean north east. Epicormic growths	Minor deadwood		Good	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	
T61	Alder	<i>Alnus incana</i>	Semi-mature	6.5	1	130	No	3	1.5	3	2	0.5	No visual defects	Single stemmed. Slight lean north east. Epicormic growths	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Good	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development	

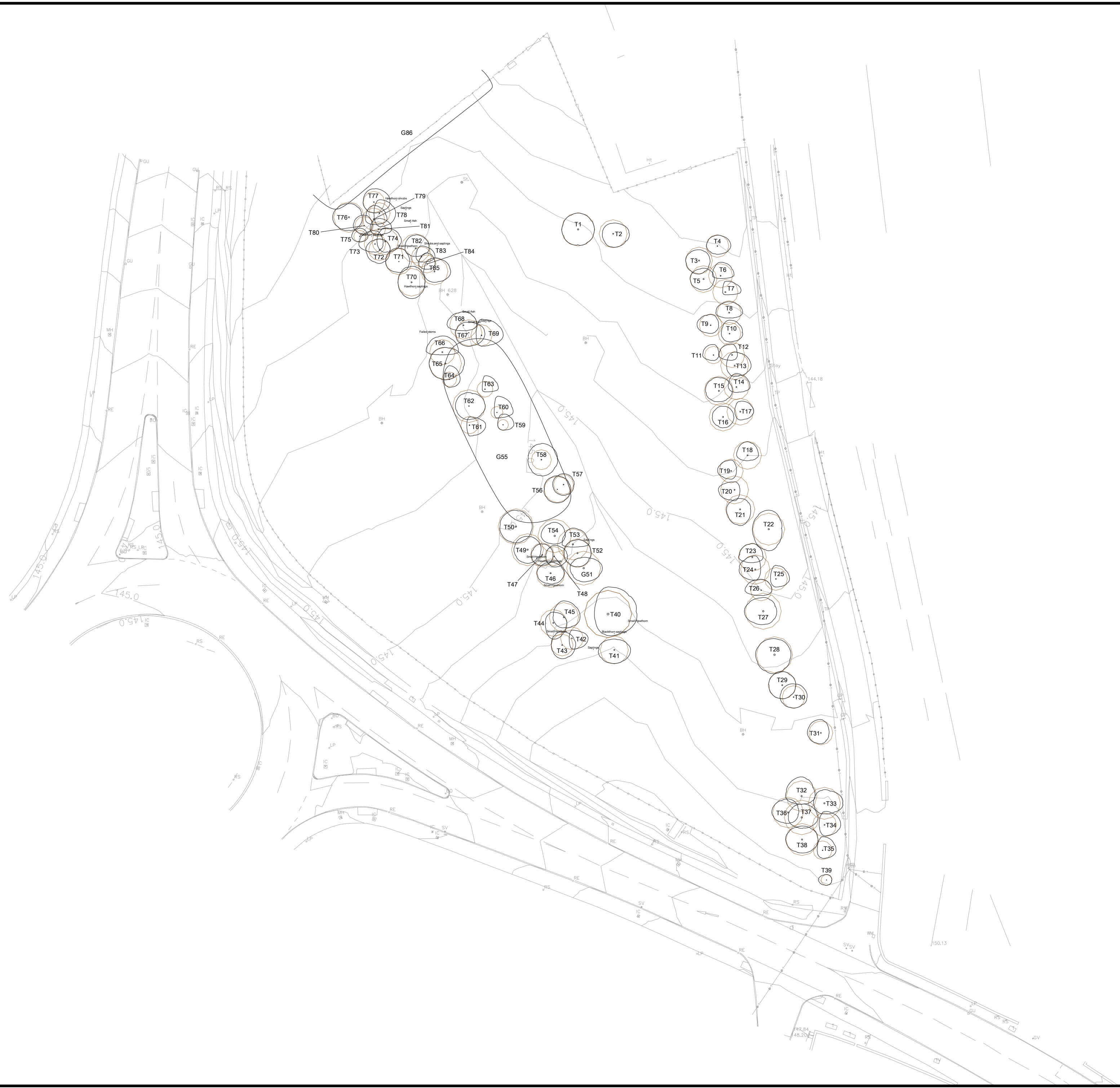
	Tree Species			Measurements				Crown (m)					Tree Condition								Value		Management
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments		Physiological	Structural	Life Expectancy	Amenity	Category	Works
T62	Alder	<i>Alnus incana</i>	Semi-mature	8	6	100	No	1.5	2.5	3	2.5	2.5	No visual defects	Multiple stemmed at base. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms			Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T63	Birch	<i>Betula pendula</i>	Semi-mature	8	1	120	No	2	2.5	2.5	0.5	0.5	No visual defects	Single stemmed. Slight lean north east	Minor deadwood			Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development
T64	Birch	<i>Betula pendula</i>	Semi-mature	8	1	110	No	2	2.5	2	1.5	1	No visual defects	Single stemmed. Slight lean north east. Epicormic growths	Minor deadwood			Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development
T65	Alder	<i>Alnus incana</i>	Semi-mature	7.5	3	150, 140, 130	No	1.5	3	3.5	3	3	No visual defects	Multiple stemmed at 0.5m. Vertical. Tight unions	Minor deadwood. Alder Leaf Beetle symptoms			Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T66	Alder	<i>Alnus incana</i>	Semi-mature	7	3	140, 100, 80	No	2	3	3	0.5	3	No visual defects	Multiple stemmed at 0.5m. Vertical	Minor deadwood. Alder Leaf Beetle symptoms			Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T67	Alder	<i>Alnus incana</i>	Semi-mature	8	6	80	No	2	2	3	2.5	2.5	No visual defects	Multiple stemmed at base. Vertical	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms			Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development

Tree ID	Tree Species		Maturity	Measurements				Crown (m)				Tree Condition								Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T68	Alder	<i>Alnus incana</i>	Semi-mature	8	5	160, 60, 60, 80, 60	No	1.5	2.5	2.5	1	3	No visual defects	Multiple stemmed at base. Vertical	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Fair	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T69	Poplar	<i>Populus alba</i>	Semi-mature	10	1	160	No	2	3	4	2	1	No visual defects	Single stemmed. Significant lean north east	Minor deadwood		Good	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T70	Alder	<i>Alnus incana</i>	Semi-mature	8	2	170, 120	No	1.5	3	2.5	3	2.5	No visual defects	Twin stemmed at 0.5m. Vertical. Epicormic growths. Tight unions	Minor deadwood. Alder Leaf Beetle symptoms		Good	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T71	Alder	<i>Alnus incana</i>	Semi-mature	8	6	80	No	1.5	2.5	2	2	2.5	No visual defects	Multiple stemmed at 0.5m. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Fair	20 to 40 yrs	Low	C	Removal required to facilitate development
T72	Alder	<i>Alnus incana</i>	Semi-mature	7.5	2	80, 140	No	1.5	2	2	2.5	2.5	No visual defects	Twin stemmed at 0.5m. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Fair	20 to 40 yrs	Low	C	No works required
T73	Alder	<i>Alnus incana</i>	Semi-mature	8	2	140, 80	No	1.5	2.5	1.5	1.5	3	No visual defects	Twin stemmed at base. Vertical. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Fair	20 to 40 yrs	Low	C	No works required

Tree ID	Tree Species		Maturity	Measurements				Crown (m)				Tree Condition								Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T74	Alder	<i>Alnus incana</i>	Semi-mature	8	2	170, 100	No	1.5	2.5	3	2	1.5	No visual defects	Twin stemmed at 0.5m. Slight lean north east. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms		Good	Fair	20 to 40 yrs	Low	C	No works required
T75	Alder	<i>Alnus incana</i>	Young	5	1	90	No	2	1.5	1.5	1	1.5	No visual defects	Single stemmed. Slight lean north east. Epicormic growths	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	20 to 40 yrs	Low	C	No works required
T76	Alder	<i>Alnus incana</i>	Semi-mature	8	5	160, 60, 90, 100, 70	No	1.5	2.5	2.5	2.5	3	No visual defects	Multiple stemmed at 0.5m. Vertical. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms	Twine wrapped around stem	Good	Fair	20 to 40 yrs	Low	C	No works required
T77	Oak	<i>Quercus robur</i>	Semi-mature	7	1	160	No	1.5	2.5	3	2	2	No visual defects	Single stemmed. Slight lean north east	Minor deadwood		Good	Good	>40 yrs	Low	C	No works required
T78	Oak	<i>Quercus robur</i>	Semi-mature	8	1	160	No	2	2.5	3	2.5	1	No visual defects	Single stemmed. Slight lean north east	Minor deadwood		Good	Good	20 to 40 yrs	Low	C	No works required
T79	Alder	<i>Alnus incana</i>	Semi-mature	7.5	2	150, 70	No	4	2.5	2.5	1	1.5	No visual defects	Twin stemmed at 0.5m. Vertical. Stubs	Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms		Good	Fair	20 to 40 yrs	Low	C	No works required

Tree Species				Measurements				Crown (m)					Tree Condition							Value		Management	
Tree ID	Common Name	Latin Name	Maturity	Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works	
	T80	Alder	Alnus incana	Semi-mature	8	1	140	No	3	2	1.5	1.5	2	No visual defects	Single stemmed. Vertical. Epicormic growths. Stubs	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	20 to 40 yrs	Low	C	No works required
	T81	Oak	Quercus robur	Semi-mature	8	1	110	No	1.5	2	2.5	1	1.5	No visual defects	Single stemmed. Vertical. Bark damage	Minor deadwood	Long bark wound to western side of stem	Good	Good	>40 yrs	Low	C	No works required
	T82	Alder	Alnus incana	Semi-mature	7.5	3	150, 130, 90	No	3	2.5	2.5	1.5	2	No visual defects	Multiple stemmed at 0.5m. Vertical	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	20 to 40 yrs	Low	C	No works required
	T83	Alder	Alnus incana	Semi-mature	8	1	150	No	2	2	2.5	1	1	No visual defects	Single stemmed. Slight lean north east. Epicormic growths. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms		Fair	Good	20 to 40 yrs	Low	C	Removal required to facilitate development
	T84	Alder	Alnus incana	Semi-mature	7.5	2	90, 100	No	2	2	1.5	1	1.5	No visual defects	Twin stemmed at 0.5m. Vertical. Epicormic growths. Stubs	Moderate dieback. Minor deadwood. Minor snapouts. Alder Leaf Beetle symptoms	Significant dieback in crown	Poor	Fair	10 to 20 yrs	Low	C	Removal required to facilitate development

Tree ID	Tree Species		Maturity	Measurements				Crown (m)				Tree Condition								Value		Management
	Common Name	Latin Name		Height (m)	Stems	Stem Diameter (mm)	Estimated	Ave Height	N	E	S	W	Roots	Stem	Crown	Comments	Physiological	Structural	Life Expectancy	Amenity	Category	Works
T85	Alder	<i>Alnus incana</i>	Semi-mature	8	2	170, 110	No	2	2.5	3	2	2	No visual defects	Twin stemmed at 0.5m. Vertical. Stubs. Bark damage	Minor deadwood. Alder Leaf Beetle symptoms		Good	Good	20 to 40 yrs	Low	C	Removal required to facilitate development
G86	Hawthorn. Alder.	<i>Crataegus sp.</i> <i>Alnus sp.</i>	Semi-mature	7	10	80	Yes	1	See plan				Limited access around base	Single and Multiple stemmed	Minor deadwood	Adjacent, no access. Young to semi mature tree group. Predominantly shrubby Hawthorn with occasional Alder. Sporadic.	Fair	Fair	20 to 40 yrs	Low	C	No works required





Appendix 5:
Tree Constraints Plan
Cross Keys Lane, Hoyland, Barnsley
Ref: AWA3983

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

SCALE: 1:500 PAPER: A2

	CATEGORY A: HIGH VALUE RETENTION MOST DESIRABLE
	CATEGORY B: MODERATE VALUE RETENTION DESIRABLE
	CATEGORY C: LOWER VALUE COULD BE RETAINED
	CATEGORY U: UNSUITABLE FOR RETENTION
	RPA: ROOT PROTECTION AREA
	TREE STEM

PLANT AREA LOCATION TBC BY CLIENT.
DETAILED DESIGN BY M&E ENGINEERS

PROPOSED SERVICE AREA SUBJECT TO
TRACKING BY HIGHWAYS ENGINEERS.
DETAILED DESIGN OF SERVICE RAMP BY
STRUCTURAL ENGINEERS

EXISTING FRENCH DRAIN

ASSUMED SITE BOUNDARY

PROPOSED LAYOUT SUBJECT FINAL LEVEL
STRATEGY

PROPOSED PEDESTRIAN ACCESS/FOOT
BRIDGE. SUBJECT TO FINAL LEVEL
STRATEGY, RETAINING WALL MAY BE
REQUIRED TO EITHER SIDE. DETAILED
DESIGN BY OTHERS

PROPOSED PARKING AND TURNING ZONES
SUBJECT TO TRACKING BY HIGHWAYS
ENGINEERS

EXISTING TREES/VEGETATION WITHIN SITE
TO BE REMOVED WHERE REQUIRED
SUBJECT TO ARBORICULTURAL ADVICE
AND LPA APPROVAL

PROXIMITY OF REAR PROPERTY

PROPOSED LANDSCAPE BUFFER ZONE
SUBJECT TO ARBORICULTURAL REVIEW

EXISTING PERIMETER TREES/VEGETATION
TO BE REMOVED WHERE REQUIRED
SUBJECT TO ARBORICULTURAL ADVICE
AND LPA APPROVAL

PROPOSED ACCESS JUNCTION AT 4%
GRADIENT SUBJECT TO FURTHER REVIEW
BY HIGHWAYS ENGINEERS AND LPA
APPROVAL

PROPOSED PEDESTRIAN ACCESS
SUBJECT TO FINAL LEVEL
STRATEGY, RETAINING WALL MAY
BE REQUIRED TO EITHER SIDE.
DETAILED DESIGN BY OTHERS

LAYOUT SUBJECT TO TRACKING
BY HIGHWAY ENGINEERS

EXISTING JUNCTION RETAINED SUBJECT
TO FURTHER REVIEW BY HIGHWAYS
ENGINEERS AND LPA APPROVAL
(INDICATIVE ONLY). IMPROVEMENT WORKS
& DETAILED DESIGN BY HIGHWAY
ENGINEERS/OTHERS

AWA
TREE CONSULTANTS

Appendix 6:
Tree Impacts Plan

Cross Keys Lane, Hoyland, Barnsley
Ref: AW/A3983

BRITISH STANDARD 5837:2012
SCALE: 1:500 PAPER: A2

	TREE/ TREE GROUP/ HEDGE TO BE RETAINED
	TREE/ TREE GROUP/ HEDGE TO BE REMOVED
	RPA: ROOT PROTECTION AREA
	TREE STEM