

BRITISH STANDARD 5837

TREE SURVEYS ARBORICULTURAL IMPLICATION STUDIES

TPO/PLANNING ADVICE/ PROJECT MANAGEMENT

TREE INVENTORIES AND RISK ASSESSMENTS

WOODLAND MANAGEMENT PLANS

TREE PLANTING SCHEMES

TPO RE-SURVEY



# ARBORICULTURAL IMPLICATIONS ASSESSMENT

PROPOSED DEVELOPMENT

AT

IVY COTTAGE  
CHURCH STREET  
NEWTON-LE-WILLOWS  
WA129SU

Author: C. Salisbury  
Date: 21 December 2023  
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## 1.0 Introduction

- 1.1 Mulberry Tree Management were instructed by H. Jeffreys, to carry out an arboricultural survey of trees at their property in Church Street, Newton-le-Willows.
- 1.2 This report details the arboricultural implications of developing the site, including:
  - a survey of the trees on and near the development which may impact the proposal from ground level, noting their location, species and all relevant parameters, i.e. stem diameter, height, crown spread, condition etc;
  - providing advice on the removal, retention and management of trees;
  - assessment of the potential effects of the proposal on retained trees and vice versa;
  - assessment of the requirement for tree protection for the duration of the works;
  - mitigation for any loss;
  - preparation of a tree schedule;
  - and report on the above matters.
- 1.3 The survey was carried out on 09 October 2023 by means of inspection from ground level by an experienced and qualified arboriculturalist. The inspection can be restricted in cases where trees were Ivy clad or surrounded by vegetation.
- 1.4 Under *BS5837: 2012 Trees in Relation to Construction - Recommendations*, the assessment of trees is made objectively. The tree categorisation method identifies the quality and value of the existing tree stock, allowing informed decisions to be made concerning development design layout.
- 1.5 The following documents have been made available by the client:
  - Drawing- 1880 PL 002 EXISTING SITE PLAN 02.10.23.dwg
  - Drawing- 1880 PL 101 rev.C PROPOSED SITE PLAN 18.12.23.dwg
- 1.6 The supplied drawing included some tree positions plotted. Any dimensions regarding tree positions and protective fencing must be checked on site.
- 1.7 Weather conditions during the survey were dry and still.
- 1.8 The survey was carried out noting the conditions of the trees at the time of inspection. As trees are part of the natural environment, conditions can naturally change; therefore the contents of this report are valid for one year only. After this period, re-inspection may be necessary.

## **2.0 Survey Methodology**

- 2.1 The trees were surveyed (prefixed T, or G for group) and recorded in the tree schedule in appendix one. Where groups are recorded, average height and diameter at breast height (DBH) of the trees in the group are reported. Where access to the base of any trees was limited, stem size was estimated.
- 2.2 All the trees were assessed using: a grading A to C (retention) and U (removal); condition and age class as defined in appendix two.
- 2.3 Where appropriate, canopy spread for each tree was recorded at four cardinal points in order to reproduce an accurate representation of the crown shape of the tree on the tree plan in appendix three.
- 2.4 The survey included all trees within the proposal area and trees near to the proposal.

## **3.0 Development Proposals**

- 3.1 Due to the proposed development and its associated infrastructure there are a number of locations where the proposals are in close proximity to the trees surveyed. The Site Layout Plan within appendix three identifies the trees in relation to the proposed development.
- 3.2 In order to fully assess the impact of the proposals an Impact Table has been created detailing each tree, which shows the proximity of the associated works to the tree.
- 3.3 This can then be assessed in accordance with BS 5837:2012 to determine whether the development will have a detrimental impact on the health of each tree. Once this has been determined remedial measures can be detailed to reduce the impact the proposals will have on the treescape.

### 3.4 Impact Table:-

Tree No.	Root Protection Area identified in Table 2 of BS 5837:2012	Distance to Proposed Hard Standing (m)	Distance to Proposed Development (m)	Can the Tree/s be Successfully Retained
T1	118m <sup>2</sup>	N/A	26.20	Yes
T2	209m <sup>2</sup>	N/A	20.70	Yes
T3	203m <sup>2</sup>	N/A	17.80	Yes
T4	197m <sup>2</sup>	N/A	12.00	Yes
T5	Not Assessed as the Tree Requires Removal Due to its Condition			
T6	489m <sup>2</sup>	N/A	31.50	Yes
T7	43m <sup>2</sup>	N/A	24.10	Yes
T8	261m <sup>2</sup>	17.50	12.70	Yes
T9	Not Assessed as the Tree Requires Removal Due to its Condition			
T10	43m <sup>2</sup>	N/A	N/A	Yes
T11	Not Assessed as the Tree Requires Removal Due to its Condition			
T12	261m <sup>2</sup>	N/A	N/A	Yes
T13	255m <sup>2</sup>	N/A	N/A	Yes
T14	38m <sup>2</sup>	N/A	N/A	Yes
G1	557m <sup>2</sup>	N/A	5.00	Yes as outlined in section 5.0
G2	235m <sup>2</sup>	42.30	32.50	Yes
G3	137m <sup>2</sup>	27.80	30.30	Yes
G4	282m <sup>2</sup>	6.10	7.50	Yes
G5	241m <sup>2</sup>	N/A	N/A	Yes
G6	142m <sup>2</sup>	N/A	N/A	Yes

## 4.0 Impact Assessment

4.1 To assess the implications of the Impact Table each tree can be categorised in the following way: -

Tree No.	Trees to be retained		Trees to be removed	
	With No Impact	With detailed construction	Due to Condition	Due to Development
	T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, T14, G1, G2, G3, G4 & G5	N/A	N/A	N/A

## 5.0 Mitigation Proposals

### 5.1 Property Construction

5.1.1 The impact table below shows the proposed development having a minor encroachment into the root protection area of G1. It is felt that due to the species, condition and limited extent of encroachment the proposal will not have a detrimental impact on the safe useful life expectancy of these trees.

5.1.2 Section 7.5.3 of BS 5837:2012 advises that where a slab or minor structure is to be formed within the RPA it should not exceed 20% of any existing unsurfaced ground. The table below details the amount of encroachment within the RPA.

Tree No	Total Area m2 of RPA	Total m2 of Structure within the RPA	Percentage of Structure within the RPA
G1	557	27.40	5.00%

5.1.3 As you can see from the table above the proposed structure does not exceed 20% of the RPA. It is therefore felt that the proposed development will not have a detrimental impact upon the existing trees.

## 6.0 Conclusions and Arboricultural Recommendations

6.1 The tree categorisation method identifies the quality and value of the existing tree stock but it is not meant to be interpreted rigidly and is presented in order to form a balanced judgement on tree retention and removal.

6.2 A precautionary method of working near trees is detailed in the accompanying Arboricultural Method Statement.

6.3 Following site development, regular (annual or biannual) inspections of all retained trees should be undertaken by a qualified Arboricultural Consultant.

6.4 It is considered that in following the advice in this document, any negative factors affecting trees on the site will be minimised.

# **Appendix One**

## **Tree Survey Schedule**

## TREE SURVEY SCHEDULE

Arboricultural Data Sheet:		Date of Survey: 09/10/23				Surveyor: C. Salisbury								
Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating	
					N	E	S	W						
T1	Sycamore	510	21.40	EM	6.0	2.5	5.0	7.0	10.00	B/C	A co-dominant specimen situated in the rear garden with poor form and minor stem decay	20-40	C2	
T2	Horse Chestnut	680	22.60	M/F M	6.0	2.0	5.0	5.0	10.00	B/C	A co-dominant specimen with poor form and displaying evidence of stem decay and bleeding canker situated in the rear garden	10-20	C2	
T3	Maple	670	22.60	M/F M	6.0	4.0	6.0	4.0	10.00	B	A co-dominant specimen with reasonable form situated in the rear garden	60-80	A2	
T4	Maple	660	22.60	FM	7.0	3.0	6.0	4.0	10.00	B	A co-dominant specimen with reasonable form situated in the rear garden	60-80	A2	
T5	Ash	270	16.40	SM	2.0	2.0	2.0	2.0	6.00	C/D	A self-seeded specimen in stage 3 decline due to Ash Dieback- Fell	0-10	U	
T6	Beech	1040	22.80	FM/ OM	9.0	9.0	8.0	5.0	4.00	C	A co-dominant specimen with reasonable form situated in the rear garden	20-40	A2	
T7	Holly	310	12.60	EM	2.0	3.0	2.0	1.0	2.50	B	A suppressed multi-stemmed specimen situated in the rear garden	20-40	C2	

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Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	E	S	W					
T8	Ash	760	22.40	FM	5.0	6.0	6.0	7.0	5.00	B/C	A co-dominant specimen with reasonable form situated in the rear garden in stage 1 decline due to Ash Dieback	10-20	B2
T9	Ash	380 avg	22.60	M/F M	5.0	2.0	4.0	5.0	4.50	C/D	A multi-stemmed specimen within an adjacent property in stage 3 decline due to Ash Dieback	0-10	U
T10	Sycamore	310 est	15.40	EM/ M	0.5	4.0	4.0	0.5	3.00	B/C	An individual specimen with poor form situated in an adjacent property	10-20	C2
T11	Horse Chestnut	710	22.60	FM	6.0	7.0	4.0	5.0	8.00	C/D	A couple-dominant specimen adjacent to a highway in extensive decline due to bleeding canker and honey fungus- Fell	0-10	U
T12	Horse Chestnut	760	18.60	FM	5.0	4.0	5.0	6.0	7.00	C	An individual specimen adjacent to a highway displaying signs of decline within its canopy	10-20	C2
T13	Horse Chestnut	750	20.20	FM	7.0	7.0	6.0	7.0	7.00	B	An individual specimen adjacent to a highway	40-60	A2
T14	Sycamore	290	16.40	EM	2.0	5.0	2.0	4.0	8.00	B/C	A suppressed specimen with poor form adjacent to a highway	40-60	C2
G1	2 x London Plane	1110 <	21.60	FM	-	-	-	-	7.00	B	A co-dominant group with reasonable form situated in the rear garden	60-80	A2



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Tree No.	Species	DBH (mm)	Height (m)	Age	Crown Spread (m)				Crown clearance	Condition rating	Comments and preliminary management recommendations	Estimated remaining contribution	Tree quality category rating
					N	E	S	W					
G2	2 x Maple	720 avg	22.80	M	-	-	-	-	10.00	B	A reasonable co-dominant group situated in the rear garden	60-80	A2
G3	3 x Sycamore	550 avg	22.60	M	-	-	-	-	6.00	B/C	A co-dominant group with one heavily suppressed ivy-clad specimen in decline	60-80	A2
G4	Conifer & Sycamore	790 <	20.60	EM/M	-	-	-	-	3.00	B/C	A mixed species group situated in the rear garden	40-60	B2
G5	Maple, Horse Chestnut & Birch	730 <	22.80	EM/M	-	-	-	-	6.00	B/C	An ivy-clad mixed species group situated along the driveway	40-60	B2
G6	Conifer & Poplar	560 <	23.40	EM	-	-	-	-	5.00	B/C	A mixed species group within the property grounds	20-40	C2

# **Appendix Two**

## **Tree Survey Key**

Trees for removal			
Category and definition		Criteria	
<b>Category U</b> Those in such a condition that any existing value would be lost within 10 years and which should, in the current context, be removed for reasons of sound arboricultural management		Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other R category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning) Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline Trees infected with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease), or very low quality trees suppressing adjacent trees of better quality <b>Note</b> – Habitat reinstatement may be appropriate (e.g. R category tree used as a bat roost: installation of bat box in nearby tree).	
Trees to be considered for retention			
Category and definition		Criteria - Subcategories	
		1 Arboriculture values	2 Landscape values
			3 Conservation values
<b>Category A</b> <b>Those of high quality and value:</b> in such a condition as to be able to make a substantial contribution (a minimum 40 years is suggested)		Trees that are particularly good examples of their species, especially if rare or unusual, or essential components of groups, or of formal or semi-formal arboriculture features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands which provide a definite screening or softening effect to the locality in relation to views into or out of the site, or those of particular visual importance (e.g. avenues or other arboricultural features assessed as groups)
<b>Category B</b> <b>Those of moderate quality and value:</b> those in such a condition as to make a significant contribution (a minimum of 20 years is suggested)		Trees that might be included in the high category, but are downgraded because of impaired condition (e.g. presence of remediable defects including unsympathetic past management and minor storm damage)	Trees present in numbers, usually as groups or woodlands, such that they form distinct landscape features, thereby attracting a higher collective rating than they might as individuals but which are not, individually, essential components of formal or semi-formal arboriculture features (e.g. trees of moderate quality within avenue that includes better, A category specimens), or trees situated mainly internally to the site, therefore individually having little impact on the wider locality
<b>Category C</b> <b>Those of low quality and value:</b> currently in adequate condition to remain until new planting could be established (a minimum of 10 years is suggested), or young trees with a stem diameter below 150 mm		Trees not qualifying in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit
		<b>Note</b> - Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150 mm should be considered for relocation	

### Age Class






Y	Young	Trees that have not yet established
SM	Semi-Mature	Established trees up to 1/3 of expected height and crown
EM	Early mature	Between 1/3 and 2/3 expected height and crown
M	Mature	Between 2/3 and full expected height and crown
FM	Fully Mature	Full expected height and crown
OM	Over-Mature	Crown beginning to break up and decrease in size
S	Senescent	Crown in advanced stage of break-up

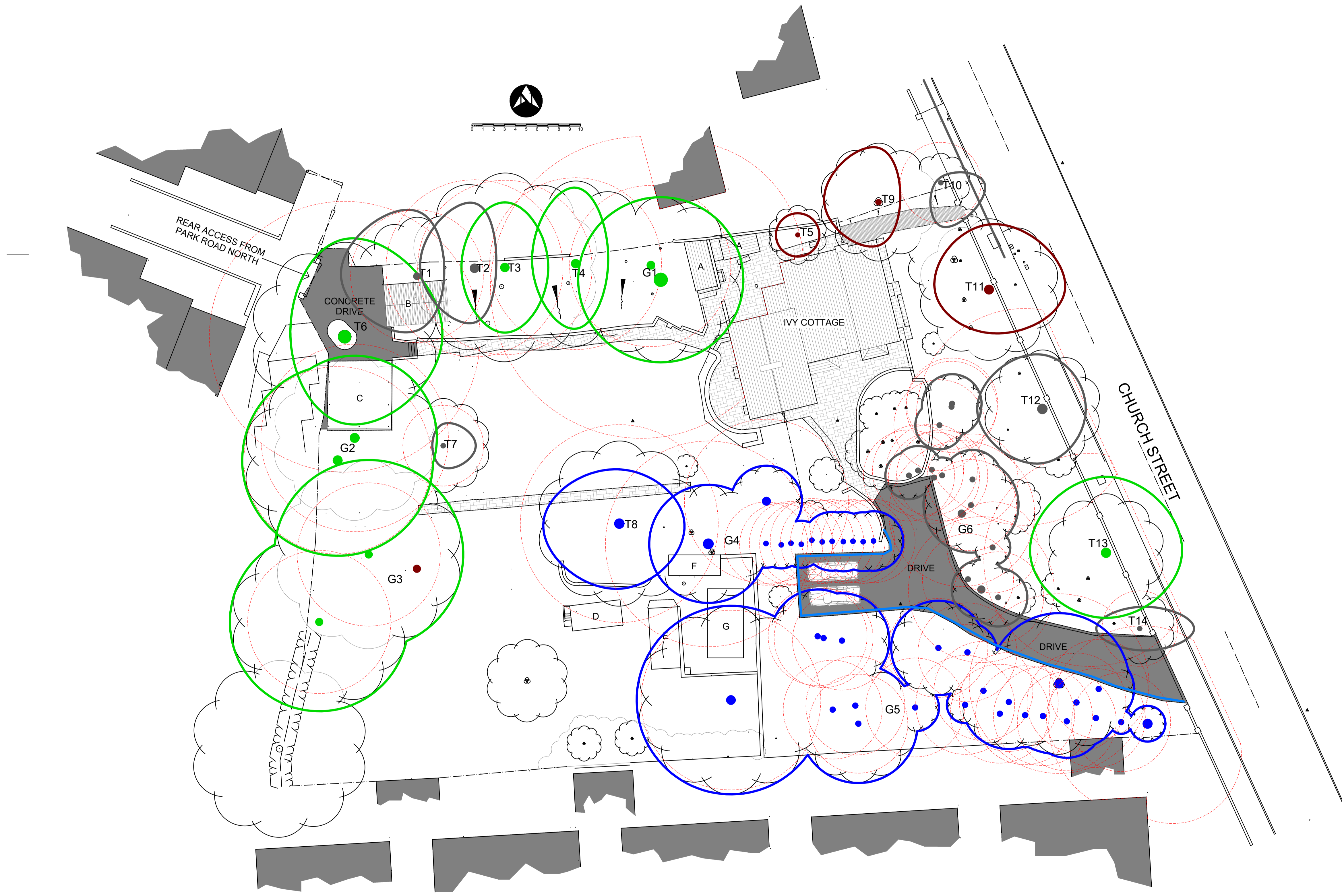
### Condition

A	Good
B	Fair
C	Poor
D	Dead

# **Appendix Three**

## **Plans**

-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area



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Site Address:  
 Ivy Cottage  
 Newton le Willows






Drawing Title:  
 BS5837 Plan

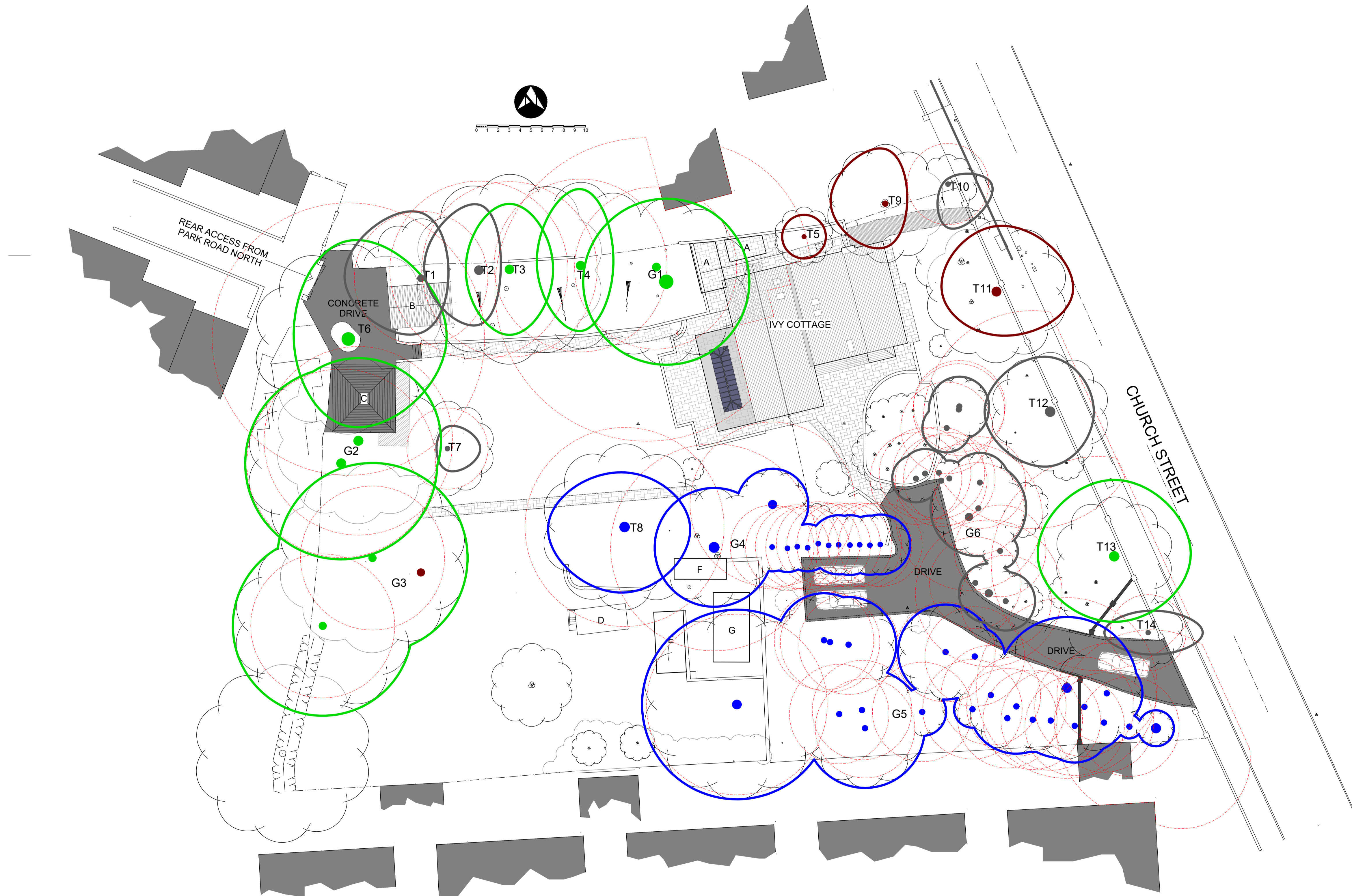
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Date: 09/11/2023 Scale: 1:200@A1 Drawn by: CS

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-  Category A Trees
-  Category B Trees
-  Category C Trees
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Site Address:  
 Ivy Cottage  
 Newton le Willows

Drawing Title:  
 AIS Plan

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