



WE KNOW SERVICES

ARBORICULTURAL IMPACT ASSESSMENT

Site

373 Trevalyn Wood, Rossett, Wrexham

Client

Mr Richard Horan

Report Date

May 2023

Version

First Issue

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Arboricultural Impact Assessment – 373 Trevalyn Wood, Rossett, Wrexham



A view of the western area of the site.

Quality Assurance

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1 Introduction

We Know Services were instructed by Mr Richard Horan to undertake an BS5837:2012 arboricultural survey of the tree features within and adjacent to the red line boundary at 373 Trevalyn Wood, Rossett, Wrexham LL12 0HH.

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.

- A. A survey of the trees on and near the development which may impact the proposal.
- B. A tree schedule.
- C. Advice on the removal, retention, and management of trees.
- D. Assessment of the potential effects of the proposal on retained trees and vice versa.
- E. Assessment of the requirement for tree protection for the duration of the works
- F. Mitigation proposal for any loss.

The survey was undertaken on 14th April 2023 by means of visual 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.

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.

The following document was made available by the client:

- Drawing - 373_Rossett _200217-dwg

The supplied drawing did not include tree positions plotted. All trees have been added to the drawing indicatively. Any dimensions regarding tree positions and protective fencing must be checked on site.

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 required.

Until planning permission is obtained, no tree work should be undertaken on site following the issue of this document. Once planning permission is obtained, only the works recommended within this document should be undertaken unless permission is obtained from the local planning authority.

2 Site Information

2.1 Site Description

The site is located within the Trevalyn Hall grounds and is currently a residential property. Surrounding the site is a small area of woodland, other residential properties and fields used for agricultural purposes.

2.2 Proposals Description

The proposals are to install some solar panels adjacent to the agricultural field to the west. To do this, an electrical cable is required to be installed leading from the property to the location of the solar panels.

2.3 Statutory Designations

A check for tree preservation orders and conservation areas was undertaken on 11/05/23 via email to Wrexham Council, the results showed that there are no preservation orders on site and the site is not within a conservation area.

3 Survey Methodology

The trees were surveyed (prefixed T, or G for group) and recorded in the tree schedule in Appendix 1.0. 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.

All the trees were assessed using: a grading A to C (retention) and U (removal); condition and age class as defined in Appendix 2.0.

Where appropriate, canopy spread for each tree was recorded at four cardinal points to reproduce an accurate representation of the crown shape of the tree on the tree plan in Appendix 3.0.

The survey included all trees within the proposal area and trees near to the proposal.

4 Survey Results

The survey identified twelve tree features on site consisting of seven individual trees, three groups and two hedges.

Of these, eight tree features were classed as category Band the remaining four tree features were classed as category C.

All tree features on site were found to be in good condition requiring no remedial works.

5 Impact Assessment

Table 5.1: Impact Table

Tree No.	RPA Radius	Distance to Proposed Development A (m)	RPA Incursion (m ²)	RPA Incursion (%)	Can the tree/s be successfully retained?
G1	1.80	0	0	0.0%	Yes
T2	2.04	0	0	0.0%	Yes
T3	1.68	0	0	0.0%	Yes
T4	1.44	2.3	0	0.0%	Yes
H5	1.20	3.2	0	0.0%	Yes
H6	0.96	See Plan	0	0.0%	Yes
T7	3.48	10.7	0	0.0%	Yes
T8	1.20	4.9	0	0.0%	Yes
T9	0.96	5.5	0	0.0%	Yes
G10	1.44	7.1	0	0.0%	Yes
T11	9.60	2.6	27	9.3%	Yes
G12	1.92	See Plan	0	0.0%	Yes

Table 5.2 Impact Assessment

	Trees to be retained		Trees to be removed	
	With no impact	With detailed construction	Due to condition	Due to development
Tree No.	G1, T2, T3, T4, H5, H6, T7, T8, T9, G10, T11, G12	T11		

Due to the proposals, no features are proposed for removal.

G1, T2 and T3

Although the Arboricultural Impact Plan (Ref: 23/00005/AIA) and the impact table indicates that the utility cable will be installed within 0m of these features, no impact to these features will happen. This is because the cable in this area will be installed onto the adjacent wall instead of underground. The cable will then be installed underground where a tree stump is to avoid impact to any adjacent live features.



Image 5.3 Showing G1 (The first four features from the R/H/S), T2 and T3.



Image 5.4 Showing T2 (Far Right), T3 (R), a tree stump and T4 (L). The cable will be installed underground where the tree stump is located.

T11

As can be seen on the impact table, the installation on the underground cable is predicted to have a 9.3% impact to T11, a mature Sycamore. The likely impact to this feature will be less as the shallow, hand-dug trench will not be as wide on site as indicated on the accompanying Arboricultural Impact Plan (Ref: 23/00005/AIA). However, it is likely that there will be some major roots within this location, to avoid damage to these roots, the methodology as set out within the accompanying Arboricultural Method Statement (Ref: 23/00005/AMS) should be always adhered to when working within the marked area on the Tree Protection Plan (Ref: 22/00005/TPP).

Tree Protective Fencing

Because the proposals require the installation of an underground cable which will mostly be installed using handheld machinery or handheld tools, the requirement for tree protective fencing is considered unnecessary for these proposals because it would cause obstructions to the working area.

6 Summary and Conclusion

The survey identified twelve tree features on site consisting of seven individual trees, three groups and two hedges.

Of these, eight tree features were classed as category Band the remaining four tree features were classed as category C.

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.

The proposals have impacted one tree feature on site, of these none are recommended for removal. All tree features on site can be retained.

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

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

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

Appendix I.0 Tree Survey Schedule

Arboricultural Impact Assessment – 373 Trevalyn Wood, Rossett, Wrexham

Arboricultural Data Sheet: Trevalyn Wood, Rosset					Date of Survey: 14/04/23					Surveyor: Jonathan Henderson			
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					
G1	Pear	150	3	FM	1	2	2	1.5	1.5	Good	Group of four pear in reasonable shapes and forms. No major visible defects.	20	B2
T2	Pear	170	3	FM	1	1.5	2	1	1	Good	Reasonable shape and form. No major visible defects.	20+	B2
T3	Pear	140	3	FM	1	1	2	2	2	Good	Reasonable shape and form. No major visible defects.	20+	B2
T4	Pear	120	2	FM	1	1	2	2	1	Good	Reasonable shape and form. No major visible defects.	10+	C1
H5	Beech	100	2	SM	1	1	1	1	1	Good	Well maintained Beech hedge.	20+	B2
H6	Beech	80	2	Y	0.5	0.5	0.5	0.5	1	Good	Well maintained Beech hedge.	20+	B2
T7	Pear	290	8	FM	2	2	2	2	2	Good	Good shape and form. Minor deadwood in the crown. No major visible defects.	20+	B2
T8	Pear	100	4	SM	1	1	1	1	2	Good	Good shape and form. No major visible defects.	10+	C1

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Arboricultural Data Sheet: Trevalyn Wood, Rosset					Date of Survey: 14/04/23					Surveyor: Jonathan Henderson			
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					
T9	Pear	80	3	SM	1	1	1	1	1	Good	Good shape and form. No major visible defects.	10+	C1
G10	Hawthorn	120	6	EM	2	2	2	2	2	Good	x2 Hawthorn in close proximity. Reasonable shapes and forms. Minor deadwood in the crowns. No major visible defects.	10+	C1
T11	Sycamore	800	18	FM	6	6	6	6	3	Good	Good shape and form. Minor deadwood in the crown. No major visible defects.	20+	B1
G12	Mixed Broadleaf	160	8	M	2	2	2	2	1	Good	Group of trees on site boundary. Reasonable shapes and forms. Minor deadwood in the crowns. No major visible defects.	20+	B2

Appendix 2.0 Tree Survey Key

Arboricultural Impact Assessment – 373 Trevalyn Wood, Rossett, Wrexham

Trees for removal			
Category and definition	Criteria		
Category U 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 Note – 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
Category A Those of high quality and value: 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)	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood pasture)
Category B Those of moderate quality and value: 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	Trees with clearly identifiable conservation or other cultural benefits
Category C Those of low quality and value: 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	Trees with very limited conservation or other cultural benefits
	Note - 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

Good – Feature needs little, if any attention.
Fair – Feature has minor, but rectifiable defects.
Poor – Feature has major defects or is in late decline.
Dead – Feature is dead.

Appendix 3.0 Arboricultural Plans

-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Red Line Boundary



Court Hey Park
Roby Road
Huyton
L16 3NA

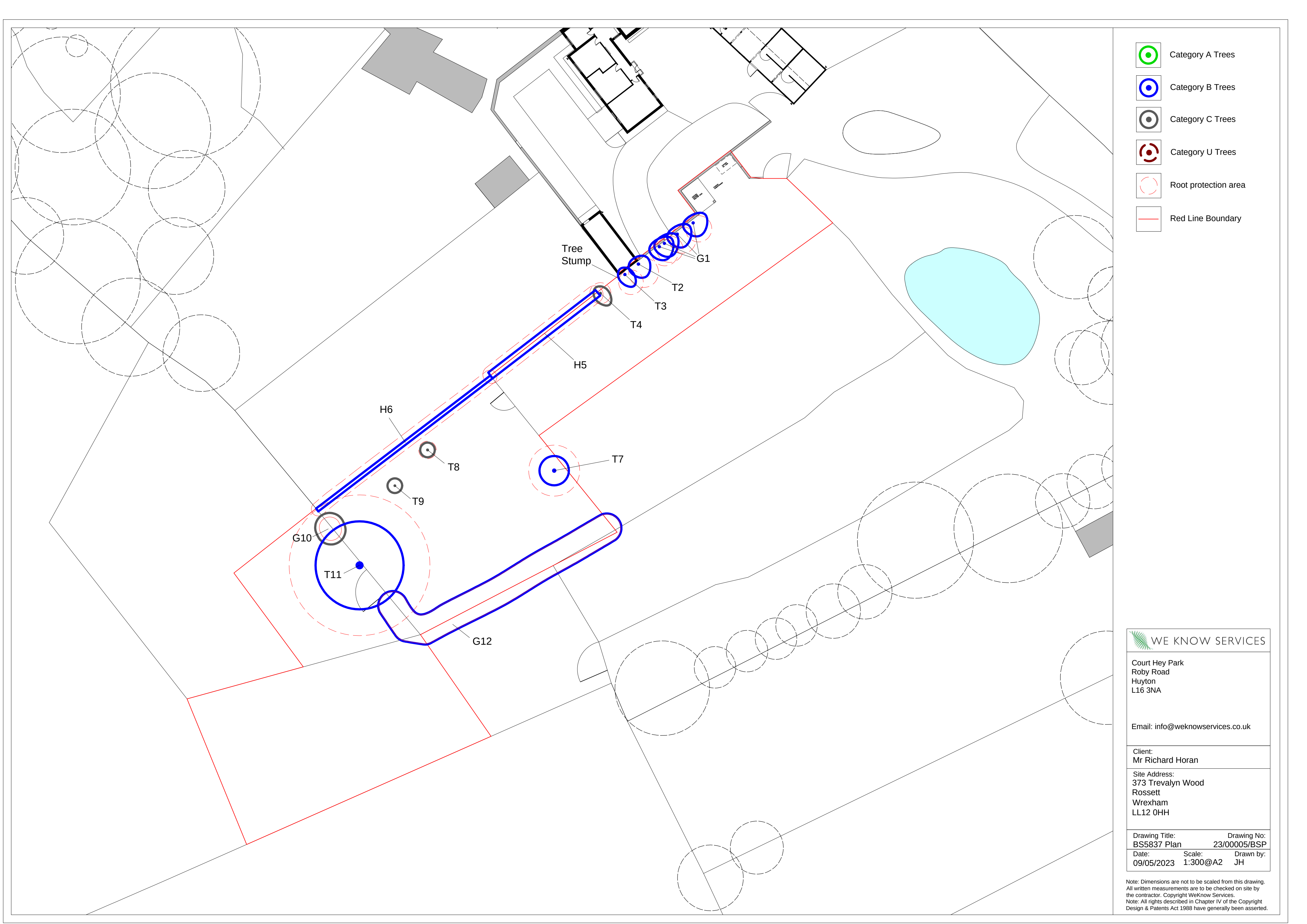
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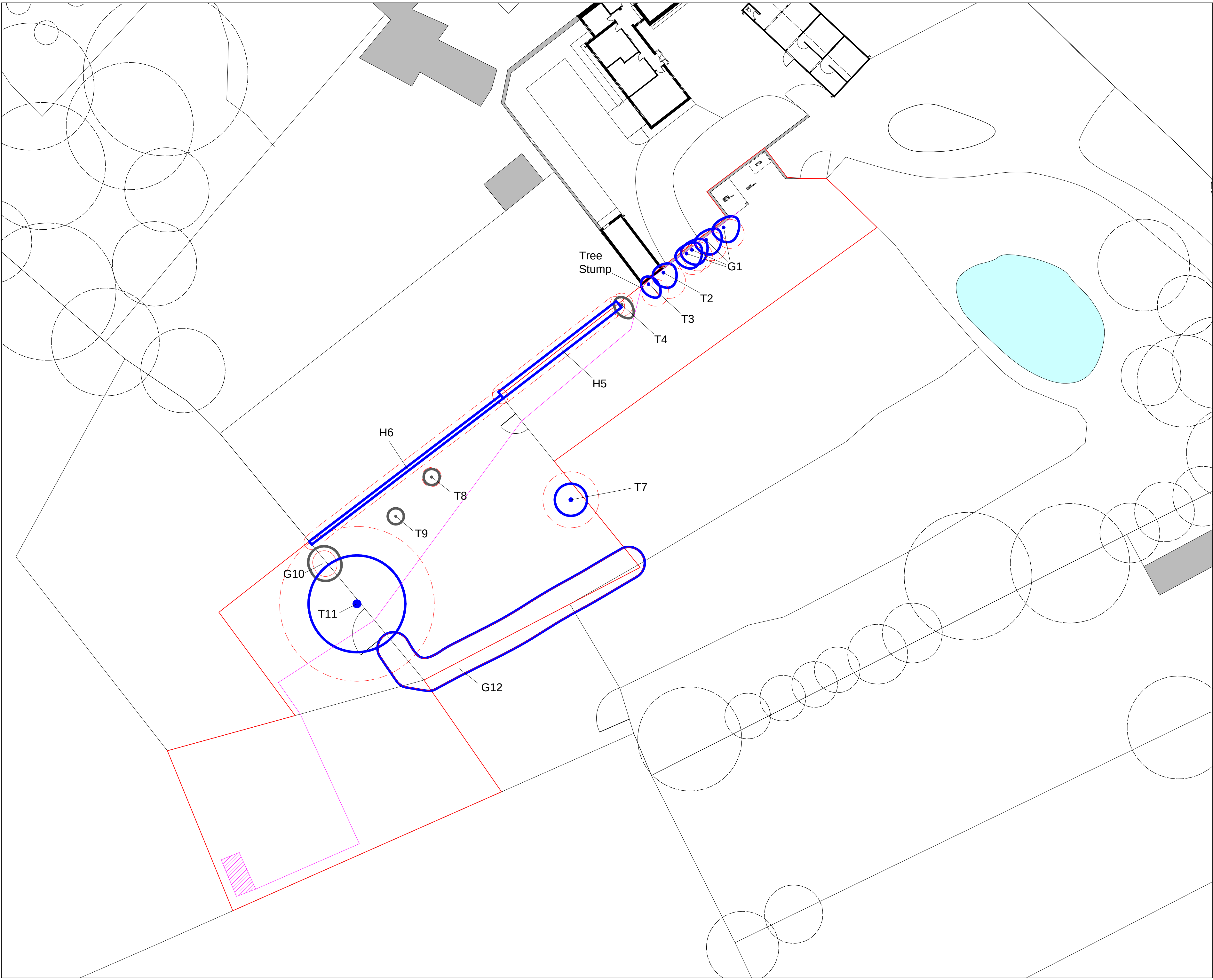
Client:
Mr Richard Horan

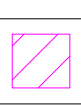
Site Address:
373 Trevalyn Wood
Rossett
Wrexham
LL12 0HH

Drawing Title:	Drawing No:	
BS5837 Plan	23/00005/BSP	
Date:	Scale:	Drawn by:
09/05/2023	1:300@A2	JH

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-  Category A Trees
-  Category B Trees
-  Category C Trees
-  Category U Trees
-  Root protection area
-  Red Line Boundary
-  Cable Route
-  Solar Panel Location

 WE KNOW SERVICES

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Email: info@weknowservices.co.uk

Client:
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Site Address:
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Impact Assessment	23/00005/AIA	
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-  Retained Trees
-  Trees to be Removed
-  Root protection area
-  Red Line Boundary
-  Cable Route
-  Solar Panel Location
-  Hand Dug Shallow Trench



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Drawing Title:	Drawing No:	
Tree Protection Plan	23/00005/TPP	
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