



WE KNOW SERVICES

ARBORICULTURAL IMPACT ASSESSMENT

Address

8 Hayfield Close, Halewood

Client

Mr Alun Owen

Report Date

September 2021

Version

First Issue

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Arboricultural Impact Assessment – 8 Hayfield Close



A view of T2 with G4 in the background.

Quality Assurance

The information which the author has prepared and provided is true and has been prepared and provided in accordance with the Arboricultural Association's Code of Ethics and Conduct. We confirm that the opinions expressed within this report are true and represents the author's professional opinions.

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1 Introduction

We Know Services were instructed by Mr Alun Owen to undertake an arboricultural survey of tree features on land at 8 Hayfield Close, Halewood L26 6ND.

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.

- a) A tree schedule.
- b) Advice on the removal, retention, and management of trees.
- c) Assessment of the potential effects of the proposal on retained trees and vice versa.
- d) Assessment of the requirement for tree protection for the duration of the works; and
- e) A mitigation proposal for any loss.

The survey was carried out on 1st September 2021 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 - 8 Hayfield Close 01.02 proposed GF

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.

2 Statutory Designations

A check for tree preservation orders and conservation areas was undertaken on 02/09/21 using Knowsley Council's My Neighbourhood Map, the results showed that there are preservation orders on site and the site is not within a conservation area.

T1 is covered by a tree preservation order (ref: 15/00003/TPO).

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 four tree features on site consisting of two individual trees and two groups.

Of these, three tree features were classed as category B and the remaining tree features was classed as category C.

5 Impact Assessment

Table 5.1: Impact Table

Tree No.	RPA Radius	Distance to Nearest Proposed Extension (m)	RPA Incursion (%)	Can the tree/s be successfully retained?
T1	5.04	1.7	7%	No
T2	3.60	4.9	0.0%	Yes
G3	0.96	9.8	0.0%	Yes
G4	1.80	5.6	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.	T2, G3, G4			T1

Due to the proposals, a total of one individual tree is proposed for removal.

The proposed extension to the front of the property will bring the property within 1.7m of T1, a Weeping Willow. Considering the typical growth of the species, the retention of this tree would require more maintenance than is reasonably practicable and it would have limited space to reside. Therefore, it is recommended that T1 is removed to accommodate the proposals.

The remaining tree features can remain in situ without any impact.

Precautionary measures including supervision by the project arboricultural consultant during the works are detailed in the accompanying method statement (Ref: 21/0063/AMS).

6 Mitigation Proposals

6.1 Replacement Tree Planting

Due to the loss of the trees identified in the Impact Table, it is recommended that replacement trees are planted as part of the proposed landscaping scheme. The extent of mitigation planting required will need to be confirmed in agreement with the Local Planning Authority once the development proposal is finalised.

Requirements usually involve replacement of trees on a two for one basis. This is based on tree sizes of 12-14cm girth, however for replacements that are significantly larger (20-25cm girth), it is considered that an increased size will mitigate for the tree loss in the form of replacements on a one for one basis.

This will have several benefits for the development and the character of the area. These being:

- Give a greater diversity of age class on the site, increasing sustainability.
- Give a greater diversity of species and therefore wildlife habitat.

The recommended tree species are listed in *Table 5.3: Replacement Tree Specifications*

Table 5.3: Recommendations for Replacement Tree Specification

Tree Species	Tree Size
Field Maple - <i>Acer campestre</i>	12 - 14 cm girth
Silver Birch - <i>Betula pendula</i>	12 - 14 cm girth
Scots Pine - <i>Pinus sylvestris</i>	12 - 14 cm girth
English Oak - <i>Quercus robur</i>	12 - 14 cm girth
Rowan - <i>Sorbus aucuparia</i>	12 - 14 cm girth

It is recommended that due to the loss of T1, it is replaced by two trees at a size of 12 – 14cm girth.

7 Summary and Conclusion

The survey identified four tree features on site consisting of two individual trees and two groups.

Of these, three tree features were classed as category B and the remaining tree features was 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 to form a balanced judgement on tree retention and removal.

The proposals have impacted one tree features on site, this feature is recommended for removal. The remaining 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 – 8 Hayfield Close

Arboricultural Data Sheet: 8 Hayfield Close					Date of Survey: 01/09/21					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					
T1	Weeping Willow	420	9	M	4	4	1.5	4	2	Good	Good shape and form. Low hanging branches on eastern side, typical of species. Pruning wounds from recent crown lift. Minor deadwood. No major visible defects.	20+	B1
T2	Giant Redwood	200	9	SM	1	1	1	1	1.5	Good	Good shape and form. No major visible defects.	10+	C1
G3	Ash, Purple Plum, Cherry Laurel	80 AVG	6 MAX	SM	1	1	1	1	0+	Good	Off-site trees adjacent to boundary. Limited view of lower stems. No major visible defects.	20+	B2
G4	Mixed Broadleaf	150 AVG	12 MAX	SM - M	1	1	1	1	0+	Good	Off-site trees adjacent to boundary, trees are part of a larger woodland. 1.5m clearance from fence. Minor deadwood in crowns. No major visible defects.	20+	B2

Appendix 2.0

Tree Survey Key

Arboricultural Impact Assessment – 8 Hayfield Close

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

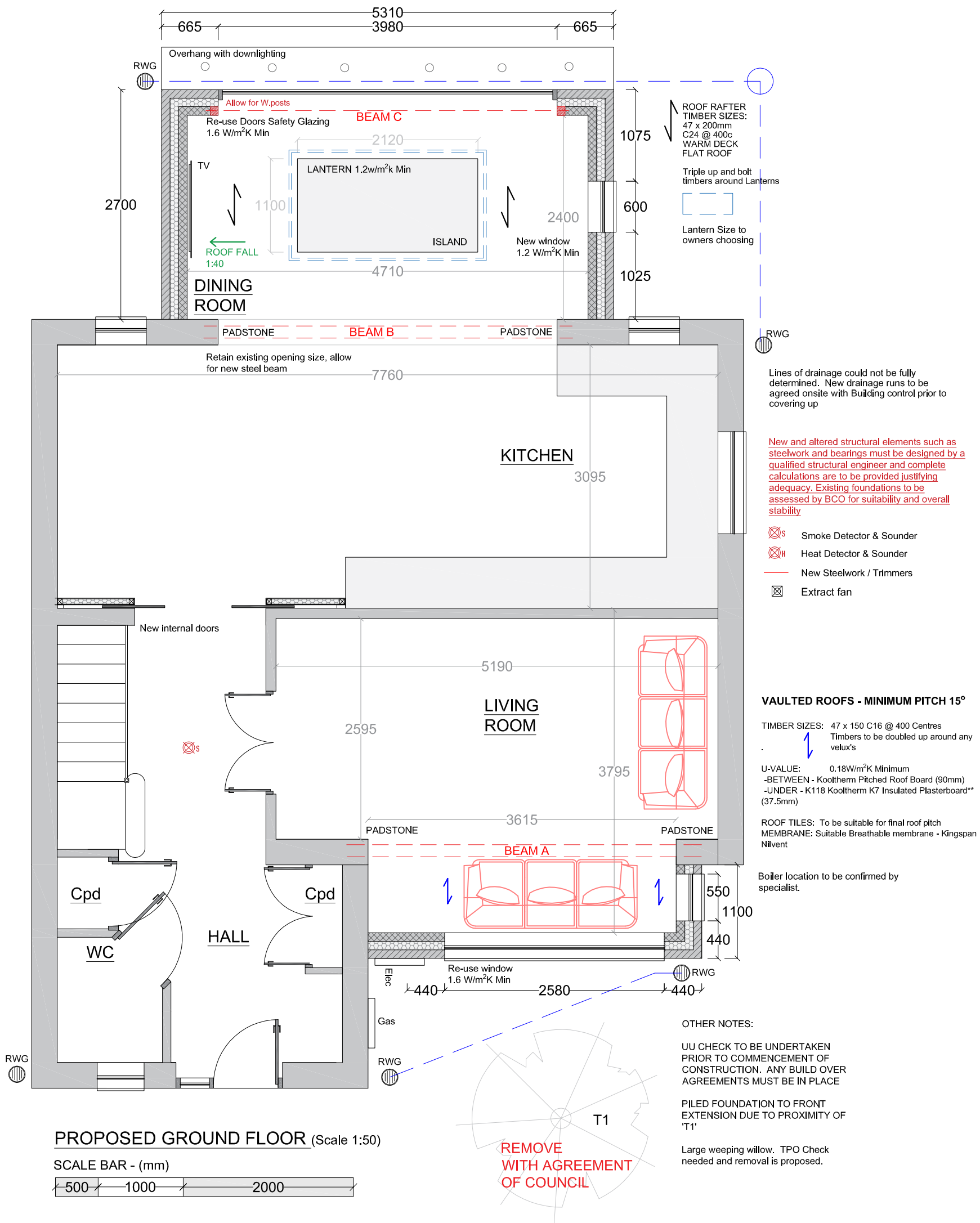
Y	Young	Trees that have not yet established
SM	Semi-Mature	Established trees up to 1/3 of expected height and crown
EM	Early mature	Between 1/3 and 2/3 expected height and crown
M	Mature	Between 2/3 and full expected height and crown
FM	Fully Mature	Full expected height and crown
OM	Over-Mature	Crown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

Condition

1	Good
2	Fair
3	Poor
4	Dead

Appendix 3.0

Proposed Development Plans



ALL WORKS TO BE UNDERTAKEN TO LATEST BUILDING REGULATIONS, BRITISH STANDARDS AND MANUFACTURERS RECOMMENDATIONS

TOWN AND COUNTRY PLANNING ACT 1990 - Advice to be taken from the Local Authority by Client, full planning permission should be applied for and obtained by the owners Prior to work commencing

BUILDING REGULATIONS APPROVAL - is required for this project. The contractor must provide the appointed Building control body with all statutory notices for inspections and must liaise with the statutory undertakers and comply with their requirements.

PARTY WALL ACT - Prior to commencing work the builder/owners shall ensure that neighbors have been given notice under the Party Wall Act 1996.

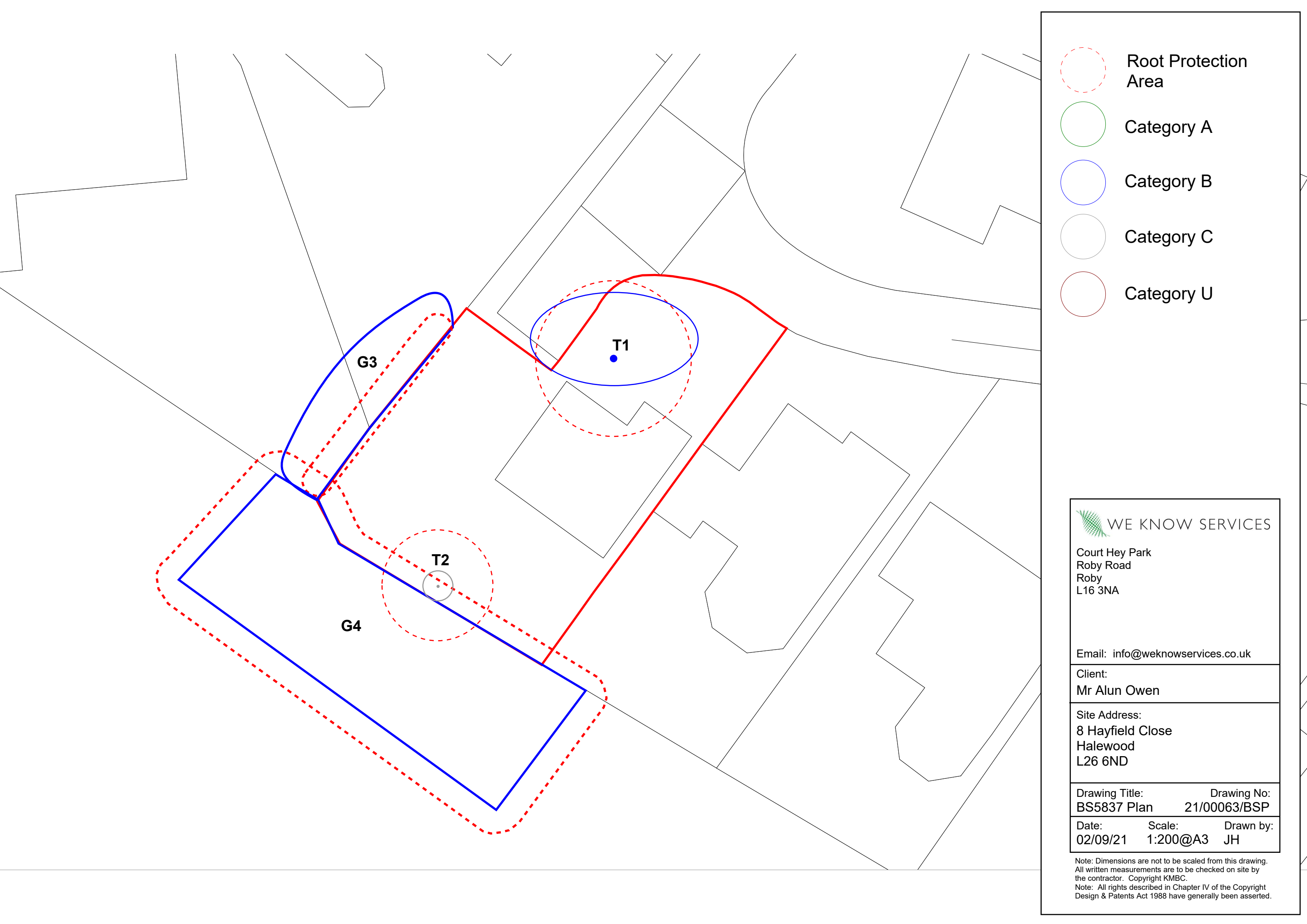
CDM REGULATIONS 2015 - The contractor/builder shall be fully aware of the latest Construction (Design and Management) Regulations 2015. The contractor shall notify the Health and Safety Executive where required.

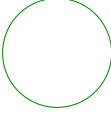
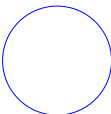
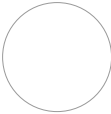
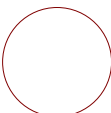
GENERAL - All dimensions given whether figured or scaled are to be checked and verified on site by the contractor prior to commencement of work. Figured dimensions are to take preference over scaled dimensions.

PURPOSE	Planning and Building Regulations Only		
	8 Hayfield Cl Liverpool L26 6ND		
WORK	Erection of single storey front and rear extension to dwelling house.		
	Number 01.02	REVISION A	
DRAWING	Proposed Ground Floor		SCALE 1 - A3 1:50

Appendix 4.0

Arboricultural Impact Assessment Plans



-  Root Protection Area
-  Category A
-  Category B
-  Category C
-  Category U



Court Hey Park
Roby Road
Roby
L16 3NA

Email: info@weknowservices.co.uk

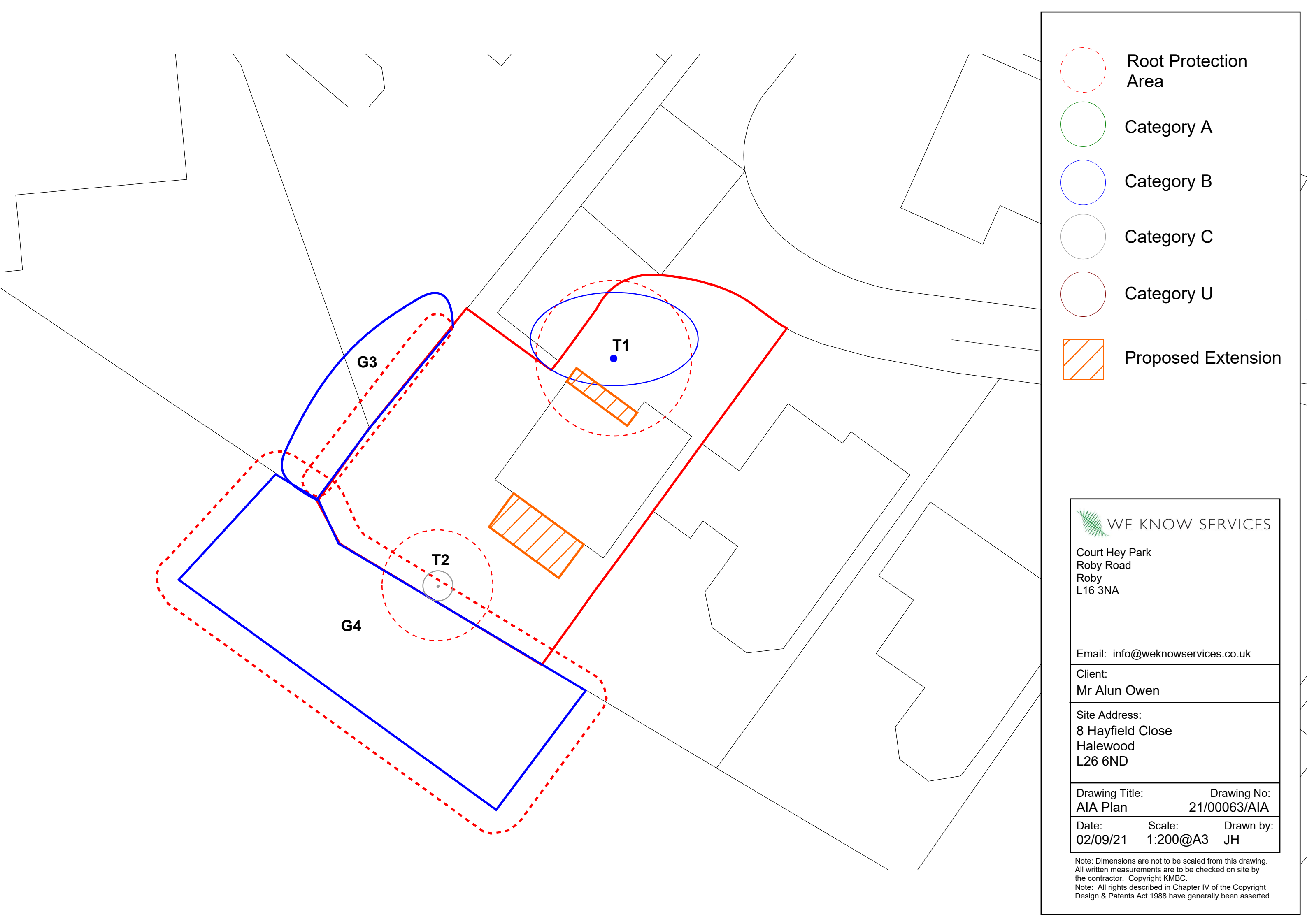
Client:
Mr Alun Owen

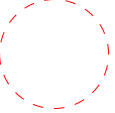
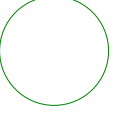
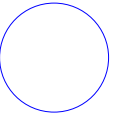
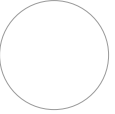
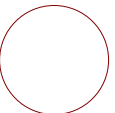
Site Address:
8 Hayfield Close
Halewood
L26 6ND

Drawing Title: BS5837 Plan Drawing No: 21/00063/BSP

Date: 02/09/21 Scale: 1:200@A3 Drawn by: JH

Note: Dimensions are not to be scaled from this drawing.
All written measurements are to be checked on site by the contractor. Copyright KMBC.
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-  Root Protection Area
-  Category A
-  Category B
-  Category C
-  Category U
-  Proposed Extension



Court Hey Park
Roby Road
Roby
L16 3NA

Email: info@weknowservices.co.uk

Client:
Mr Alun Owen

Site Address:
8 Hayfield Close
Halewood
L26 6ND

Drawing Title:	Drawing No:
AIA Plan	21/00063/AIA

Date:	Scale:	Drawn by:
02/09/21	1:200@A3	JH

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