



**BRENIG**  
CONSTRUCTION

## Pre-Application Consultation Pack

18 Dwellings  
Blast Road  
Brymbo  
Wrexham

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## 2.0 Reports

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## 2.3 Tree Survey

BS 5837:20 12  
PRE-DEVELOPMENT TREE CONDITION SURVEY



*RELATING TO*  
**LAND AT BLAST ROAD, BRYMBO**

*PREPARED FOR:*  
**BRENIG CONSTRUCTION**

*REFERENCE:*  
**TS59**

February 2019

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## **1.1 Introduction**

1.1.1 access2trees Limited offers various services to meet your specific needs from tree surveying to tree surgery, as well as site clearance, stump grinding and replanting. We are NPTC (National Proficiency Tests Council) qualified and hold the Lantra Professional Tree Inspectors Certificate.

## **1.2 Instructions to Brief**

1.2.1 access2trees have been instructed by Base Architecture Limited on behalf of their client Brenig Construction Limited to undertake a Tree Survey on land at Blast Road in Brymbo, in Clwyd, Wales.

1.2.2 The site is located within the administrative area of Wrexham County Borough Council.

1.2.3 The survey is in accordance with requirements set out in British Standard 5837:2012 'Trees in Relation to Design, Demolition and Construction: Recommendations'.

1.2.4 The BS 5837:2012 survey includes all individual trees and tree groups within the site boundary, along with those present at the edges of the site, which may be adversely affected by the development proposals.

## **1.3 Limitations**

1.3.1 The findings and recommendations contained within this report are, assuming its recommendations are observed, valid for a period of twelve months from the date of survey. Trees are living organisms subject to change and best practice dictates they are inspected on an annual basis for reasons of safety, although longer inspection timescales may be given in the report where it is deemed necessary.

- 1.3.2 This survey should be regarded as an initial appraisal and observations, assessments or recommendations relating to foundation design, material specification or project design and methods of working are beyond the scope of the study.
- 1.3.3 Tree rooting characteristics and soils are both enormously variable as are their interactions. This makes attempts to quantify subsidence risk assessment impossible. No effort has been made to assess subsidence risk potential nor should any be construed. Obvious structural damage may be noted in the text but any observations of this nature will be cursory. Further reports from a suitably qualified surveyor or structural engineer will be required.
- 1.3.4 Whilst every effort has been made to detect defects within the trees inspected, no guarantee can be given as to the absolute safety or otherwise of any individual tree. Extreme climatic conditions can cause damage to even apparently healthy trees. All recommendations are given in the context of the site's current usage; any change will necessitate a re-inspection.

## **1.4 Site Visit**

- 1.4.1 A site visit to carry out the BS 5837 survey was undertaken by James Plaskett and Amy Plaskett on 31<sup>st</sup> January 2019 to review the current condition of the trees present.

## **1.5 Site Description**

- 1.5.1 The site is located within the village of Brymbo, which is situated approximately 8km to the north west of the town of Wrexham, in North Wales.
- 1.5.2 The site is located on land on elevated ground to the north of Blast Road, and to the south of properties along Argoed, and west of the existing Multi Use Games Area (MUGA). Mixed native trees flank the steep south facing slopes to the north of Blast Road, and the site is located to the north of this band of trees.
- 1.5.3 Access into the site is via an existing field access off Blast Road, at the south western extent of the site.

- 1.5.4 The main body of the site consists of grassland with overgrown scrub, including dense stands of Blackthorn and Bramble, which are located at the edges of the site in places. Limited individual trees are present on the main body of the site, and where present are located at the perimeters of the site.
- 1.5.5 The sites western boundary is defined by mixed hedgerow. The northern boundary is defined by mixed fencing types, which form the southern boundaries to the rear gardens of properties along Argoed. To the west, there doesn't appear to be a physical boundary to the site, but a sense of definition is provided by a low brick retaining wall at the edge of the MUGA. To the south, a post and wire fence defines the boundary along much of the length, but this is incomplete in places, particularly towards the east.

## 1.6 Methodology

- 1.6.1 The following survey is based upon the findings of the visit and the conditions found on the day. This survey provides quantitative data relating to tree species, height, stem, diameter, height and direction of first significant branch, crown spread, age class and a brief qualitative assessment on tree condition and future potential.
- 1.6.2 With reference to BS 5837:2012 'Trees in relation to design, demolition and construction – Recommendations', an assessment of the tree resource has been undertaken following guidance in BS 5837:2012 and a calculation has been made for the theoretical Root Protection Areas (RPA) as noted in the survey schedule in metres.
- 1.6.3 The location of the trees surveyed are illustrated on the Tree Survey Plan which is included in Appendix 2 of this report.
- 1.6.4 Information recorded in the BS 5837 survey includes the following:
- **Sequential Survey Reference Number** – Recorded on the survey plan. Individual trees recorded have been given the prefix 'T' followed 1,2,3 etc. Tree groups have been given the prefix 'G' followed by 1,2,3 etc. Hedgerows have been given the prefix 'H' followed by 1,2,3 etc.

- **Species** – The species identification is based on visual observations and the common English name is listed first, followed by the botanical name.
- **Tree Heights** – These are estimated in metres.
- **Stem Diameters** – Measured by and recorded in millimetres to the nearest 10mm. In the case of groups of trees the maximum diameter is recorded.
- **Crown Radius** – Recorded in metres along each cardinal point. In the case of groups the maximum peripheral spread is recorded.
- **Life Stage** – Recorded as prescribed in BS 5837:2012 (e.g Young (Y), Semi Mature (SM), Early Mature (EM), Mature (M), Over Mature (OM), Veteran (V)).
- **Condition** – Individual assessment of Crown, Stem & Basal area condition is made and an overall assessment of Physiological Condition (e.g. the presence of any decay and physical defect). In the case of groups and/or woodlands the condition stated will be typical of the feature.
- **Life Expectancy** – estimated; and recorded as follows: Less than 10 years, 10-20 years, 20-40 years, more than 40 years.
- **Retention Category** – given as follows and corresponds with Table 1 of BS 5837:2012.
  - A- **Trees of high quality and value**, including visual amenity value (sub categories 1,2,3). It is usual for such trees to be retained unless the planning merits of a particular scheme or layout over-ride.
  - B- **Trees of moderate quality and value**, including visual amenity value (sub categories 1,2,3). Such trees should be considered for retention.
  - C- **Trees of low quality and value**, including visual amenity value (sub categories 1,2,3).
  - U- Trees in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years.

Sub categories – trees in categories A to C will qualify under one or more of three sub categories (1,2,3). Sub categories 1, 2 & 3 are intended to reflect Arboricultural, Landscape Qualities, and Cultural Values respectively.

The tree survey schedule will list which sub category applies. It is intended that each sub category has equal weight such that, for example, an A1 tree has the same retention priority as an A2 tree. It is possible for a tree to qualify under more than one criterion.

- **Root Protection Area (RPA)** – This is calculated based on the average measure of the trees stem diameter in mm. In respect of all Category A, B and C trees

which are proposed to be retained, the RPA has been calculated and is given in the Tree Survey Schedule, and would also be illustrated in the Tree Protection drawing. The figure given represents the radial distance, from the trees trunk, at which the barriers should be erected. The RPA is calculated in accordance with section 4.6 of BS 5837:2012.

For single stemmed trees, the RPA should be calculated as an area equivalent to a circle with the radius 12 times the stem diameter. For trees with more than one stem, one of the two calculation methods below should be used. The calculated RPA for each tree should be capped at 707m<sup>2</sup>.

- (a) For trees with two to five stems, the combined stem diameter should be calculated as follows:

$$\sqrt{(\text{stem diameter } 1)^2 + (\text{stem diameter } 2)^2 + (\text{stem diameter } 5)^2}$$

- (b) For trees with more than five stems, the combined stem diameter should be calculated as follows:

$$\sqrt{(\text{mean stem diameter})^2 \times \text{number of stems}}$$

The RPA for each tree will initially be plotted as a circle on the base of the stem. Where pre-existing site conditions or other factors indicate that rooting has occurred asymmetrically, a polygon of equivalent area will be produced. Modifications to the shape of the RPA will reflect a soundly based arboricultural assessment of likely root distribution.

Any deviation in the RPA from the original circular plot will take account of the following factors whilst still providing adequate protection for the root system:

- a) The morphology and disposition of the roots, when influenced by past or existing site conditions (e.g. the presence of roads, structures and underground apparatus);
- b) Topography and drainage;
- c) The soil type and structure;
- d) The likely tolerance of the tree to root disturbance or damage, based on factors such as species, age, condition and past management.

1.6.5 The trees were initially inspected from the ground using 'Visual Tree Assessment' techniques; this is the method generally adopted and is appropriate in this instance. All trees and groups of trees inspected are listed in the Tree Survey

Schedule (included in Appendix 1 of this report), and are numbered on the plans which accompany this report (included in Appendix 2 of this report).

- 1.6.6 Trees which have been assessed as exhibiting similar characteristics have been defined as a tree group in accordance with recommendations included in BS5837:2012 which defines tree groups as, “Trees that form cohesive arboricultural features either aerodynamically, visually or culturally.” Where this is the case, qualities considered to be representative of the group (e.g. the average stem diameter, average height etc.) have been recorded. Any marked differences noted within a grouped area (e.g. qualities that are not indicative of the group as a whole, or where individual trees present within a group may pose a specific hazard), have been highlighted in the appropriate section of the schedule (under relevant group reference) to ensure that all relevant information is recorded.
- 1.6.7 Individual trees present within a group which are worthy of note or comment have been highlighted in the Tree Survey Schedule, to ensure that all aspects of condition are covered, even if these do not relate to all trees present within the wider defined group.
- 1.6.8 Tree groups have been depicted by green hatch and/or noted on the drawings as required.

## **1.7 Observations and Comments**

- 1.7.1 In total 4 No. individual trees, 9 No. tree groups and 2 No. hedgerows were recorded as part of the survey. Of these, 3 No. individual trees have been assessed as being Category C trees (T1, T2, T3), and 1 No. as a Category U tree (T4). All of the tree groups have been assessed as being Category C.
- 1.7.2 Recommendations relating to all of the trees surveyed are included in the Tree Survey Schedule, included in Appendix 1 of this report. Please note that tree groups G1, G2, G4, part of G6, G9 and G8 are understood to be under third party ownership, as such prior consent would need to be gained before undertaking any works to these trees.
- 1.7.3 Tree T1 is a Category C, semi mature Oak tree which is under third party ownership, located to the south of the site boundary. Its structural condition is mixed, with a

good crown, fair stem and poor basal area. Overall its physiological condition has been assessed as being fair.

- 1.7.4 Further west, T2, a semi mature Sycamore tree is located close to the sites southern boundary. Overall it is considered to be of fair structural and physiological condition, and a Category C tree. It has a mis-formed stem, which may be due to previous light suppression.
- 1.7.5 T3 is a semi mature Ash tree which is located towards the west of the site, and is located on third party land, at the top of a steep, south facing slope. This tree is leaning and has a once sided canopy, likely to be due to competition with the surrounding trees which are in close proximity. This tree has been assessed as being a Category C tree.
- 1.7.6 T4 is a mature Elder which is located at the north west of the site, to the south of the sites northern boundary fence. The form of this tree suggests that it may have been part of a stretch of hedgerow along this boundary, or may be self set. It has a poor assessed stem and basal area, and as such has been assessed as a Category U tree, and is recommended for removal.
- 1.7.7 Immediately to the south of the site, on third party land which slopes away steeply to the south, there are 4 No. tree groups, G1, G2, G4 and G6. All appear to be unmanaged and are overcrowded, and all have been assessed as being Category C tree groups. G1 includes Oak, Ash, Birch, Hawthorn and Hazel. G2 and G4 include Ash, Blackthorn, Sycamore and Hawthorn, and G6 includes Eder, Blackthorn, Oak, Ash, Sycamore saplings, and Hawthorn. Recommendations for all include thinning the group, undertaking formative prune work, removing failed limbs and failed trees, as well as removing trees which have failed across the boundary fence.
- 1.7.8 Further south of these tree groups, at the lower, southern extent of the slope, is tree group G8, which runs in parallel with, and to the north of Blast Road. These trees have been included in the survey for context. Species present include Ash, Hawthorn, Blackthorn, Holly, Oak, and Sycamore. Overall this group is considered to be Category C.
- 1.7.9 Within the site itself there are 2 No. stands of dense Blackthorn (group G3 and G5). These are located to the north of the sites southern boundary fence, and have both been assessed as being Category C groups of low value.

- 1.7.10 At the western extent of the sites northern boundary, immediately adjacent to T4, is tree group G7, comprising Leylandii and Hawthorn. These trees are located to the north of the sites northern boundary, on third party land. Due to reduced condition and limited future potential these trees have been assessed as being Category C trees.
- 1.7.11 Hedgerow H1 is situated to the south west of G7, and runs along the sites western boundary. The southern extent of H1 is made up of overgrown and unkept Leylandii. The northern extent consists of Elder. This is lower in height and has been reduced as part of powerline clearance works here. It is recommended that the Leylandii section of hedgerow is removed and replaced with a more appropriate hedgerow species.
- 1.7.12 There is a stretch of well managed hedgerow (H2) to the south of 3 No. gardens to properties present along Argoed, which is located at the sites northern boundary. As this is located to the south of the boundary fence, it is understood that it is located within the site boundary. Species present include Leylandii and Privet.
- 1.7.13 Tree group G9 is located to the west of the existing field access into the site (off Blast Road). These don't appear to be regularly maintained and are of reduced quality. Overall they are considered to be Category C trees.

## 1.8 Legislation & Protection

- 1.8.1 Trees in England may be protected by a Tree Preservation Order (TPO) and/or if they are situated within a Conservation Area.

### *Tree Preservation Orders:*

- 1.8.2 Government guidance in relation to Tree Preservation Orders and trees in Conservation Areas states that: "*Tree Preservation Orders are made by the Local Planning Authority to protect specific trees, groups of trees or woodlands in the interests of amenity. An order prohibits the:*

- *cutting down;*
- *topping;*
- *lopping;*

- *uprooting;*
- *wilful damage; and*
- *wilful destruction*

*of trees without the Local Planning Authorities written consent.” “In the Secretary of State’s view, cutting roots is also a prohibited activity and requires the authorities consent.”*

- 1.8.3 Prior to undertaking work on trees protected by a TPO, permission must be sought from the Local Planning Authority by submitting a standard application form.

#### *Conservation Areas:*

- 1.8.4 In order to undertake any work to trees present within Conservation Areas, it is a requirement to notify the Local Planning Authority of the work proposed using a Section 211 Notice. The Council must be notified 6 weeks before undertaking the work. The work may go ahead at the end of the 6 week period if the Local Planning Authority gives consent.

- 1.8.5 Note: trees within Conservation Areas which are already protected by a TPO are subject to the normal procedures and controls relating to the TPO.

#### *Legislation Relating to the Site:*

- 1.8.6 Wrexham County Borough Council have confirmed that there are no TPOs relating to the site, nor is the area within a designated Conservation Area.

## **1.9 Development Proposals**

- 1.9.1 Proposals are for the creation of new dwellings on the site, with associated parking provision, access roads, driveway access and the necessary services.

- 1.9.2 This tree survey has been undertaken to help inform an appropriate and sensitive design layout, and along with information from other external consultants, will form baseline information as part of the development of a detailed Masterplan for

the site.

- 1.9.3 Following production of a proposed Masterplan, an Arboricultural Impact Assessment will be made relating to the proposals to summarise the likely impacts on trees recorded at the site, and its boundaries. As part of this, an Arboricultural Method Statement for the works will be produced as necessary, to ensure that any potential adverse impacts to trees are mitigated where possible.

## **1.10 General Requirements Regarding Future Works**

### *Future Works to the Trees:*

- 1.10.1 Recommendations for works to be undertaken to improve the continued establishment of the trees present on site are included in the Tree Survey Schedule which is included in Appendix 1 of this report. All works, including the tree felling work required to facilitate the development proposals outlined in this report, are to be undertaken in accordance with BS 3998:2010 by suitably qualified personnel, and in accordance with up to date and relevant health and safety legislation.
- 1.10.2 Overhead lines present within close proximity to trees requiring work, or to be felled, are to be identified and appropriate measures taken to ensure safe working near to these lines, including the production of risk assessments and method statements. Please note the locations of overhead lines have not been included as part of this survey, and any references to cables should be acknowledged as cursory.
- 1.10.3 It is recommended that all tree/hedgerow/scrub removal works are undertaken outside the bird nesting season (March to August).

### *Future Development Works and Trees:*

- 1.10.4 It is recommended that wherever possible the Category C trees present are retained and protected.
- 1.10.5 In order to retain the trees no development works, comprising mechanical equipment/vehicles are to be allowed within tree Root Protection Areas (RPA's),

and storage of materials, vehicle tracking, storage of fuel/oil, and excavation works/alterations to ground levels are not permitted.

- 1.10.6 Protective barrier fencing is to be erected in accordance with the requirements of BS5837:2012 (see specification included in Appendix 5 of this report), to the extent of tree RPA's. This area will demark construction exclusion zones to ensure that all works access is prevented within tree RPA's and canopy spread's, to ensure that the works do not adversely affect the trees to be retained. The protective fencing is to be erected prior to the commencement of works on site, and is to remain in place for the duration of the works.
- 1.10.7 Works proposed within tree RPA's are to be subject to production of an Arboricultural Method Statement to ensure that the works do not adversely affect trees to be retained.

## APPENDIX 1

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### Tree Survey Schedule:

- BS 5837:2012 Tree Survey Schedule

## BS5837:2012 Tree Survey

**access2trees**

Client: Brenig Construction  
 Project: Blast Road, Brymbo  
 Survey Date: 31/01/2019  
 Surveyor: James Plaskett & Amy Plaskett

Corbet Lodge  
 Moreton Corbet  
 Shrewsbury  
 Shropshire  
 SY4 4DW  
 Mobile: 07813 033190

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC	
		No	Ø (mm)	Spread (m)	Clear (m)							
<b>G1</b>												
A Group	10	1	280	N	4	SM	A: 35.5	Fair	C: Fair	----- Tree group, 3rd party owned. Species present include Oak, Ash, Birch, Hawthorn, Hazel. Group is located on steep, south facing slope, trees are located approximately 4m from the edge of the boundary. These trees are likely to be self set. They appear to be unmanaged.	<b>C.2</b>	
--				E	4		R: 3.36		S: Fair		10 to 20	
				S	4				B: Fair		yrs	
				W	4							
Estimated Measurements												
<b>G2a</b>												
A Group	10	1	250	N	3	SM	A: 28.3	Fair	C: Fair	Remove :: Faulted branch/limbs Formative prune :: Improve Shape ----- 3rd party owned tree group located to the south of the site, on steep, south facing slope. Species present include Ash, Blackthorn, Sycamore, Hawthorn. Dense cover. Recommendation to thin group, undertake formative prune where necessary, remove failed limbs and failed trees, and trees which have failed across the boundary fence.	<b>C.2</b>	
--				E	3		R: 3		S: Fair		20 to 40	
				S	3				B: Fair		yrs	
				W	3							
<b>G3a</b>												
A Group	4	4	60 (Eq)	N	3	SM	A: 1.6	Fair	C: Fair	----- Group of dense Blackthorn at the southern edge of the site.	<b>C.2</b>	
--				E	3		R: 0.71		S: Fair		10 to 20	
				S	3				B: Fair		yrs	
				W	3							
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature	<b>Condition:</b>		C	Crown	<b>Stems:</b>		Ø	Diameter
	Y	Young	M	Mature			S	Stem			(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area				

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
Estimated Measurements											
G4a											
A Group	10	1	250	N	3	SM	A: 28.3	Fair	C: Fair	3rd party owned tree group located to the south of the site, on steep, south facing slope. Species present include Ash, Blackthorn, Sycamore, Hawthorn. Trees are located a minimum distance of 1m to the south of the boundary fence. Dense cover. Recommendation to thin group, undertake formative prune where necessary, remove failed limbs and failed trees, and trees which have failed across the boundary fence.	<b>C.2</b>
--				E	3		R: 3		S: Fair		20 to 40
				S	3				B: Fair		yrs
				W	3						
Estimated Measurements											
G5a											
A Group	3	1	60	N	2	SM	A: 1.6	Fair	C: Fair	Group of dense Blackthorn at the southern edge of the site.	<b>C.2</b>
--				E	2		R: 0.71		S: Fair		10 to 20
				S	2				B: Fair		yrs
				W	2						
Estimated Measurements											
G6a											
A Group	4	1	100	N	3	SM	A: 4.5	Fair	C: Fair	3rd party owned self set group of trees including Elder, Blackthorn, Oak, Ash, Sycamore saplings, Hawthorn. Group partly overhangs the site by 4m. Recommendation to fell trees present within the site, to take back to the boundary.	<b>C.2</b>
--				E	3		R: 1.19		S: Fair		10 to 20
				S	3				B: Fair		yrs
				W	3						
Estimated Measurements											
G7											
A Group	4	1	120	N	2	SM	A: 6.5	Decline	C: Fair	3rd party owned group, located to the north of the boundary fence. Species include Leylandii and Hawthorn.	<b>C</b>
--				E	2		R: 1.43		S: Fair		<10 yrs
				S	2				B: Fair		
				W	2						
Estimated Measurements											
G8											
A Group	10	1	130	N	3	SM	A: 7.6	Fair	C: Fair	Southern extent of self set group located to the south of the site, on steep south facing slope adjacent to the road. Rock outcrops present within slope. Species present include Ash, Haw, Blackthorn, Holly, Oak, Sycamore. Defects present include deformed growth, unbalanced canopies (due to light suppression), and rubbing branches. Recommendation to thin, remove failed limbs and failed trees.	<b>C.2</b>
--				E	3		R: 1.55		S: Fair		10 to 20
				S	3				B: Fair		yrs
				W	3						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature		<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature			S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area			

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
Estimated Measurements											
G9											
A Group	8	5	170 (Eq)	N	2	SM	A: 13.1 R: 2.04	Fair	C: Fair S: Fair B: Fair	Trfee group likely to be fomed hedgerow, present at northern corner of site entrance. Species present include Hawthorn, Laurel, Leylandii. Lack of maintenance, poorly pruned.	C
--				E	2						10 to 20 yrs
				S	2						
				W	2						
Estimated Measurements											
H1											
A Group	5	3	120 (Eq)	N	2	M	A: 6.5 R: 1.43	Fair	C: Fair S: Fair B: Fair	Overgrown hedgerow along the western boundary of the site. Species present include Leylandii (to southern extent, approx. 10m length, 5m height), Elder (to north, 3m height). The hedge line to the north has been reduced as part of powerline clearance works. Recommendation to fell Leylandii and replace with a more appropriate boundary hedgerow species.	C
--				E	3						10 to 20 yrs
				S	2						
				W	2						
Estimated Measurements											
H2a											
A Group	2	3	80 (Eq)	N	1	M	A: 2.9 R: 0.96	Fair	C: Fair S: Fair B: Fair	Managed hedge to southern boundary of 3 No. properties (to south of boundary fence). Species present include Leylandii, Privet, Leylandii.	C.2
--				E	1						10 to 20 yrs
				S	1						
				W	1						
Estimated Measurements											
T1											
Common Oak <i>Quercus robur</i>	7	4	250 (Eq)	N	6	SM	A: 28.3 R: 3	Fair	C: Good S: Fair B: Poor	3rd party owned, located to south of the boundary by approximately 4m.	C.2
				E	6						20 to 40 yrs
				S	6						
				W	6						
Estimated Measurements											
T2											
Sycamore <i>Acer pseudoplatanus</i>	9	1	210	N	3	SM	A: 20 R: 2.52	Fair	C: Fair S: Fair B: Fair	Tree is likely to be self set. Misformed growth to lower stem, may be due to light suppression in the past.	C.2
				E	3						20 to 40 yrs
				S	3						
				W	3						
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature		<b>Condition:</b>	C	Crown	<b>Stems:</b>	Ø	Diameter
	Y	Young	M	Mature			S	Stem		(Eq)	Equivalent stem diameter using BS5837:2012 definition
	SM	Semi-mature	OM	Over Mature			B	Basal area			

Tree and Tag No Species	Hght (m)	Stems		Crown		Age	RP A (m <sup>2</sup> ) R (m)	Phys Condition	Structural Condition	Preliminary Recommendations Survey Comment	Cat ERC
		No	Ø (mm)	Spread (m)	Clear (m)						
Estimated Measurements											
T3											
Common Ash <i>Fraxinus excelsior</i>	11	1	290	N	2	SM	A: 38.1 R: 3.48	Fair	C: Fair S: Fair B: Fair	Tree is 3rd party owned, located approximately 3m to the south of the boundary fence, on the steep south facing slope. It has been recorded because it is an example of a large specimen within tree group G4. The tree is leaning to the west, and has a one-sided canopy - likely due to light suppression due to completion with other trees in close proximity.	C.2 10 to 20 yrs
T4											
Common or Black Elder <i>Sambucas nigra</i>	4	10	285 (Eq)	N	2	M	A: 36.6 R: 3.41	Fair	C: Fair S: Poor B: Poor	Fell :: Fell to ground level  Tree is likely to have once been part of a former hedge. It is located very close to the boundary fence, which is located immediately to the north.	U n/a
<b>Age Classifications:</b>	N	Newly planted	EM	Early Mature							
	Y	Young	M	Mature							
	SM	Semi-mature	OM	Over Mature							
<b>Condition:</b>	C	Crown									
	S	Stem									
	B	Basal area									
<b>Stems:</b>	Ø	Diameter									
	(Eq)	Equivalent stem diameter using BS5837:2012 definition									

## APPENDIX 2

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### Drawings:

- Tree Survey Plan



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- |  |                     |  |                            |
|--|---------------------|--|----------------------------|
|  | Category A Tree     |  | Hedgerow                   |
|  | Category B Tree     |  | Grass                      |
|  | Category C Tree     |  | Root Protection Area (RPA) |
|  | Category U Tree     |  | Hardstanding               |
|  | Tree Group/Hedgerow |  |                            |

PROJECT REF: <b>LAND AT BLAST ROAD, BRYMBO</b>	
TITLE: <b>TREE SURVEY PLAN</b>	
CLIENT: Brenig Construction	DATE: Feb 2019
DWG REF: TS59 - 001	SCALE: NTS@A3

**access2trees**  
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THE ORIGINAL OF THIS DRAWING WAS  
PRODUCED IN COLOUR - A MONOCHROME  
COPY SHOULD NOT BE RELIED UPON

## APPENDIX 3

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Development Proposals

*TBC*

## APPENDIX 4

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### Site Photographs



View of north eastern extent of site, and MUGA



View of south eastern extent of site, and MUGA



View of south eastern extent of site, T1 and G1



View of southern extent of site, G2, G3



View towards the western extent of the site, including G4, G6



View of section of sites northern boundary



View of T1, G1, looking south



View of T1, looking south



View of T1, G1, looking south east



View of T2, G1, looking south



View of T2, G1, looking south west



View of G2, G3, looking south east



View of G3, G4, looking north west



View of G3, G4, looking south east



View of T3, looking south



View of T3, looking south



View of G4, G5, looking west



View of G4, G5, G6, looking west



View of G5, G6, H1, G7, T4, looking west



View of H1, looking south west



View of H1, looking north west



View of G7, T4, looking north



View of H2, looking north east



View of G9, G6 (entrance to site off Blast Road), looking north



View of G6, G8 (adjacent to Blast Road), looking east



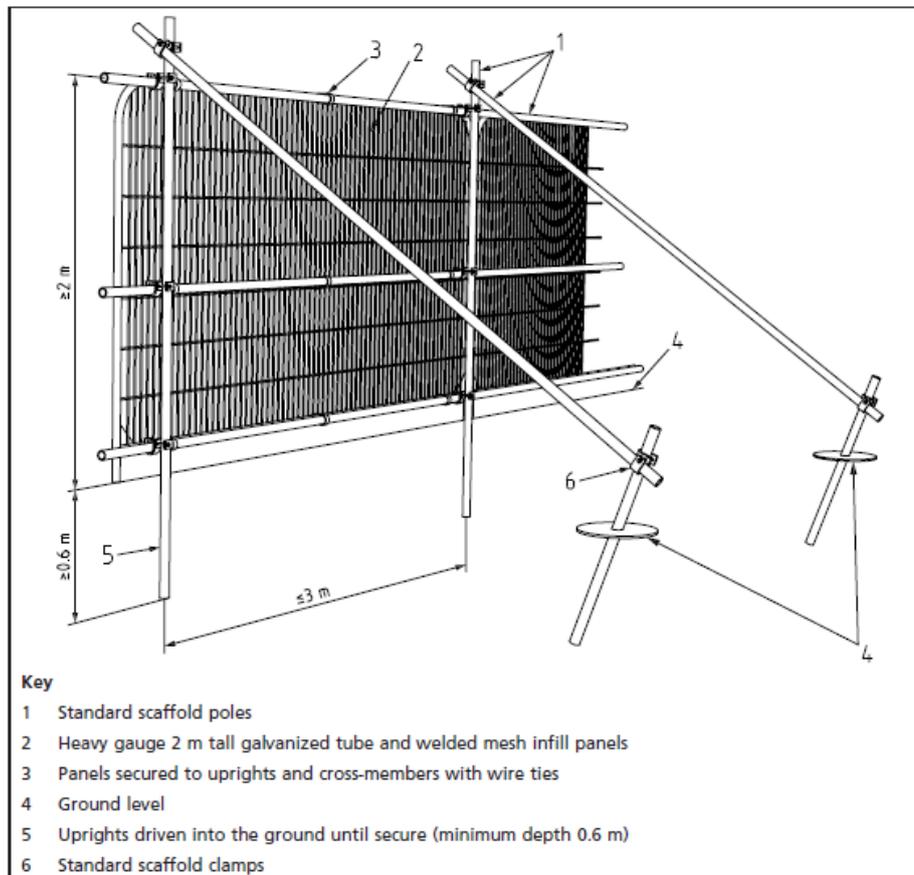
View of G8, (adjacent to Blast Road), looking south east

## APPENDIX 5

### British Standard 5837:2012 Recommendations for Tree Protection Fencing

6.2.2.4 All-weather notices should be attached to the barrier with words such as:  
"CONSTRUCTION EXCLUSION ZONE – NO ACCESS".

Figure 2 Default specification for protective barrier



## APPENDIX 6

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British Standard Trees in Relation to Construction – Recommendations BS 5837:2012  
Cascade chart for Tree Quality Tree Assessment

TREES FOR REMOVAL			
Category and Definition	Criteria		
<p><b>Category U</b></p> <p>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years</p>	<p>- 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 U Category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</p> <p>- Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline.</p> <p>- 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.</p>		
TREES TO BE CONSIDERED FOR RETENTION			
Category & Definition	1. Mainly arboricultural values	2. Mainly Landscape values	3. Cultural Values
<p><b>Category A</b></p> <p><b>Trees of high quality:</b> with an estimated remaining life expectancy of at least 40 years</p>	<p>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 arboricultural features (e.g. the dominant and/or principal trees within an avenue)</p>	<p>Trees, groups or woodlands of particular visual importance as arboricultural and or landscape features</p>	<p>Trees, groups or woodlands of significant conservation, historical commemorative or other value (e.g. veteran trees or wood-pastures)</p>
<p><b>Category B</b></p> <p><b>Those of moderate quality:</b> with an estimated remaining life expectancy of at least 20 years</p>	<p>Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation</p>	<p>Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider area</p>	<p>Trees with clearly identifiable conservation or other cultural benefits</p>
<p><b>Category C</b></p> <p><b>Those of low quality</b> with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm</p>	<p>Unremarkable trees of very limited merit or such impaired condition that they do not qualify in the higher categories</p>	<p>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.</p>	<p>Trees with no material conservation or other cultural value</p>

End of report