

SITE SPECIFIC ARBORICULTURAL METHOD STATEMENT

Proposed New Stable, Land at Maes Y Groes, Bangor on Dee, Wrexham

Prepared for:

Prepared for:

Mr & Mrs Jones
Maes Y Groes
Overton Road
Bangor on Dee
Wrexham
LL13 0DA

Planning Ref: P/2009/0314
Our Ref: 09/AMS/WXM/P2/22

09 September 2009

1.0 Introduction

- 1.1 Tree Solutions has been commissioned by Mr & Mrs Jones to prepare an Arboricultural Method Statement (AMS) to satisfy and discharge Planning Condition No 3 and 4 of Planning Code No. P/2009/0314 which state:

3. The erection of fencing for the protection of trees and shrubs shall be undertaken before any equipment, machinery or materials are brought onto the site for the purposes of the development, and shall be maintained until all equipment, machinery and surplus materials have been removed from the site.

The above mentioned fencing shall consist of a scaffold framework in accordance with Figure 2 of British Standard 5837:2005 comprising a vertical and horizontal framework, well braced to resist impacts, with vertical tubes spaced at a maximum interval of 3 metres. Onto this, 2.1 metre weldmesh panels shall be securely fixed with wire or scaffold clamps. This fencing shall be erected at the extent of each tree(s) Root Protection Areas, as set out in British Standard 5837:2005. Nothing shall be stored or placed in any area fenced in accordance with this condition and the ground levels within those areas shall not be altered, nor shall any excavations be made without the written permission of the Local Planning Authority.

4. No development shall take place until an Arboricultural Method Statement (AMS) has been submitted to and approved in writing by the Local Planning Authority. The statement shall include a specification for tree protection fencing and ground protection measures that complies with British Standard 5837:2005; a plan showing the location of retained trees' with their crown spreads, Root Protection Areas' and the location of protective fencing plotted. A full specification for any access, driveway, path, underground services or wall foundations within retained trees' Root Protection Areas', including any related sections, details of general arboricultural matters including proposed practices with regards to cement mixing, material storage and fires; details of the frequency of supervisory visits and procedures for notifying the finding of such visits to the Local Planning Authority and method statement for protecting retained trees during demolition works should also be included. Works shall be carried out in accordance with the approved method statement.

- 1.2 This Method Statement sets out the methodology and protection measures for the proposed construction works associated with the erection of a stable block at Maes Y Groes, Bangor on Dee. Compliance with this method statement will be a requirement of all relevant contracts associated with the development proposals. Copies of this document will be made available for inspection on site.
- 1.4 Trees to be retained and details including the designated Root Protection Area and location of tree protective fencing have are clearly indicated on a Tree Protection Plan which is at **Appendix 2** to this report.
- 1.5 The purpose of the AMS is to provide information on protection and control measures affecting the existing tree stock. The works, with applicable methodology, are divided into the following sequence of operations:

2.0 SITE PLAN

- 2.1 The observations and recommendations contained in this document relate to the development layout shown on Andy Hannett Ltd drawing 2009/06/A02 Rev. B
- 2.2 The method statement should be read in conjunction with the enclosed Tree Protection Plan, which is based upon the above approved drawing.

3.0 SEQUENCE OF OPERATIONS

1. Erect all Tree Protective Fencing to outer most point of RPA of each tree to be retained

Notify LPA Tree Officer to inspect and agree all tree protection measures

2. Commence site works.
 - Any roots found to be located outside RPA's during excavation works will only be pruned by Tree Solutions
3. Removal of Protective Fencing
 - Tree Protective fencing will only be removed upon completion of all development works and once all machinery associated with the works has left site.
4. Undertake replacement tree/hedge planting in accordance with approved landscape plan

4.0 TREE REMOVAL & SURGERY

- 4.1 There are no proposed tree felling or pruning works

5.0 GROUND PROTECTION WITHIN RPA

- 5.1. There are no proposed construction works within the designated Root Protection Areas

5.0 CONSTRUCTION TRAFFIC

- 5.1 All construction vehicles will access the site using the existing access road and will under no circumstances encroach within the RPA of any tree to be retained.

6.0 PROTECTIVE FENCING

- 6.1 Before the commencement of any works on site (other than those set out in the schedule of tree works contained in this document), protective fencing will be erected at the full extent of the designated RPA of all trees marked for retention. The Protective Fencing shall be inspected and approved by the LPA Tree Officer, prior to the commencement of any site works.
- 6.2 The fencing will consist of a scaffold framework in accordance with Figure 2 of BS 5837 – 2005 (Illustration below) comprising a metal framework, both vertical and horizontal, well braced to resist impacts. Vertical tubes will be spaced at a maximum interval of 3m. Onto this, weldmesh panels shall be securely fixed with wire or scaffold clamps. Weldmesh panels on rubber or concrete feet are not considered resistant to impact and for this reason will not be used. The site manager or other suitably qualified appointed person will be responsible for inspecting the protective fencing on a daily basis; any damage to the fencing or breaches of the fenced area will be rectified immediately.
- 6.3 Clearly legible weatherproof signage, stating “Protected Trees – Exclusion Zone” shall be attached to the fencing 1.5m from the ground, facing out of the Tree Protection Zone located at regular intervals along the fence line. The notice will be A3 in size as per **Appendix 3**.

- 6.4 The fencing will remain in place until completion of all site works and then only removed when all site traffic is removed from site.
- 6.5 Other than works detailed within this method statement or approved in writing by the Local Planning Authority (LPA), no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.

Protective Fencing Detail

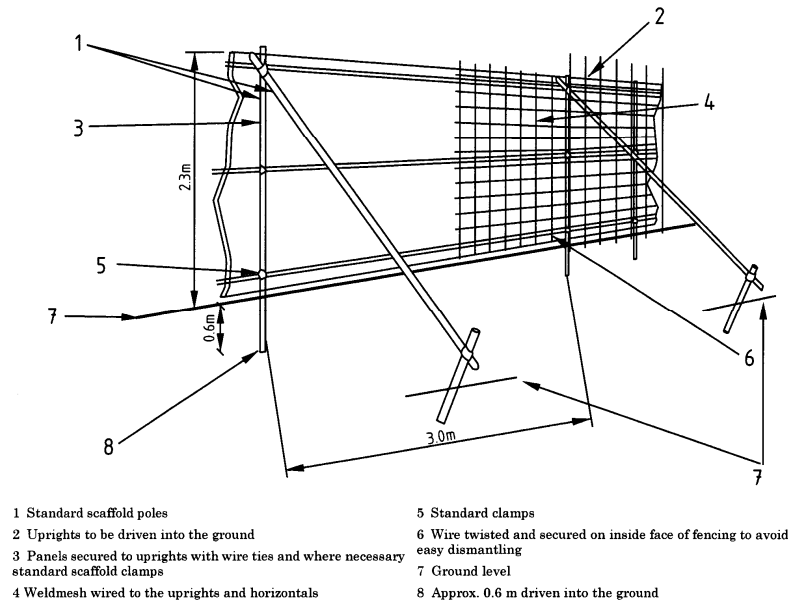


Figure 2 - Protective barrier

7.0 SITE EXCAVATION WORKS

- 7.1 All site excavation works are located outside the RPA of trees to be retained and as such there are no anticipated adverse impacts to trees.

8.0 GENERAL PRECAUTIONS

- 8.1 No materials that are likely to have an adverse effect on tree health such as oil, bitumen or cement will be stored or discharged within 2 metres of the outer edge of any designated RPA of any tree that is to be retained.
 Note – Ready mix concrete is to be delivered to the site, there will therefore be no cement mixing or storage of materials.

- 8.1.2 No fires will be lit anywhere on site

- 8.1.3 If at any time it would appear that a construction operation may cause damage to either the aerial section of a retained tree, its roots or rooting environment, works shall be temporarily halted and the problem brought to the attention of the site manager who will seek the advice of the appointed arboricultural consultant or LPA Tree Officer.

8.2 On Site Storage of Spoil and Building Materials

- 8.2.1 Prior to and during all site works no spoil or construction material will be stored within the RPA of any tree or its crown spread even if this exceeds the outer edge of the protective fencing. Any encroachment within this protected area will be with the prior agreement of the LPA Arboricultural Officer.

8.3 Avoiding Damage to Stems and Branches

- 8.3.1 Care shall be taken when planning site operations in proximity to trees to ensure that wide or tall loads or plant with booms, jibs and counterweights can operate without coming into contact with retained trees. Such contact can result in serious injury resulting in safe retention impossible.
- 8.3.2 Should pruning be required for access purposes it shall be kept to the barest minimum necessary to facilitate development and shall be carried out strictly in accordance with BS 3998 Recommendations for Tree Works (1989) as amended. It shall only be carried out by suitably qualified and experienced professional arborists, working according to a specification prepared by Tree Solutions. **Under no circumstances shall construction personnel undertake any tree pruning operations.**

8.4 Root Protection Area (RPA)

- 8.4.1 Based on tree survey data, root protection areas (RPAs) have been determined for every retained tree. The RPAs are designed to protect at least a functional minimum of tree root mass in order to ensure that the trees survive the construction process.
- 8.4.2 It is the responsibility of everyone engaged in the construction process to respect the tree protection measures and observe the necessary precautions within and adjacent to them.

9.0 SITE SUPERVISION

- 9.1 Supervision of the recommendations is the key to success. The erection of all tree protection measures outlined in this AMS and as indicated on the Tree Protection Plan will be inspected by Tree Solutions. Photographic evidence of the location and specification of all protective fencing will be forwarded to the LPA Tree Officer upon completion. The site will be visited by Tree Solutions during construction works and a site supervision form will be completed and sent to the LPA for approval. An example of the supervision form is at **Appendix 4**.

Useful Contacts

Arboricultural Consultant

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Site Contractor

Name: Mr Robin Jones
Mobile: 07802 845510
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LPA Arboricultural Officer

Name: Moray Simpson
Tel: 01978 292529
Email: moray.simpson@wrexham.gov.uk

Appendix One

Tree Survey Schedule

TREE SURVEY SCHEDULE

SITE:	LAND AT MAES Y GROES, BANGOR ON DEE, WREXHAM
CLIENT:	MR & MRS JONES
BRIEF:	ARBORICULTURAL IMPACT ASSESSMENT

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	30/03/2009
VIEWING CONDITIONS:	CLEAR
JOB REFERENCE:	09/AIA/P2/WXM/22

PAGE: 1 OF 2

Tree No.	Species	Age	Height (m)	Crown Spread (m)	D.B.H (mm)	Vitality	Comments	Management	BS 5837 Retention Category	BS5837 RPA Radius (m)
T1	Oak	PM	17 C- 2	N: 7.6 S: 8.4 E: 9.2 W: 10	1710	M/G	- Large dominant veteran Oak tree located on field boundary to east of Maes y Groes. - Dieback and dead wood within crown but not abnormal amount for tree this age - Minor butt decay - Torn limbs within crown from past storm damage - Tree of high biodiversity and historical value to locale. - E.R.C. $\geq$ 40 years	• N/A	A1 & 3	15
T2	Pine	M	18 C- 3.5	N: 5.7 S: 11.7 E: 7.7 W: 5.3	940	G	- Good quality mature specimen tree with no significant defects - E.R.C. $\geq$ 40 years	• N/A	A1 & 3	11.3

HEADINGS & ABBREVIATIONS

TREE NO.

AGE RANGE:

DBH:

CROWN SPREAD:

VITALITY:

BS 5837 RETENTION CATEGORY:

BS 5837 RPA RADIUS:

E.R.C

REFERENCE NUMBER. REFER TO PLAN OR NUMBERED TAGS WHERE APPLICABLE

Y = YOUNG, SM = SEMI MATURE, EM = EARLY MATURE, M = MATURE, PM = POST MATURE

STEM DIAMETER – MEASURED AT 1.5 METRES

MEASURED DIAMETER OF CROWN AT 4 CARDINAL COMPASS POINTS

A MEASURE OF PHYSIOLOGICAL CONDITION. D = DEAD, MD = MORIBUND, P = POOR, M = MODERATE, G = GOOD

RETENTION VALUE BASED ON TABLE 1 BS 5837 (2005)

RADIUS FROM STEM TO THE LINE OF THE TREE PROTECTION AS SET OUT IN TABLE 2 OF THE STANDARD

ESTIMATED REMAINING CONTRIBUTION (YEARS)

TREE SURVEY SCHEDULE

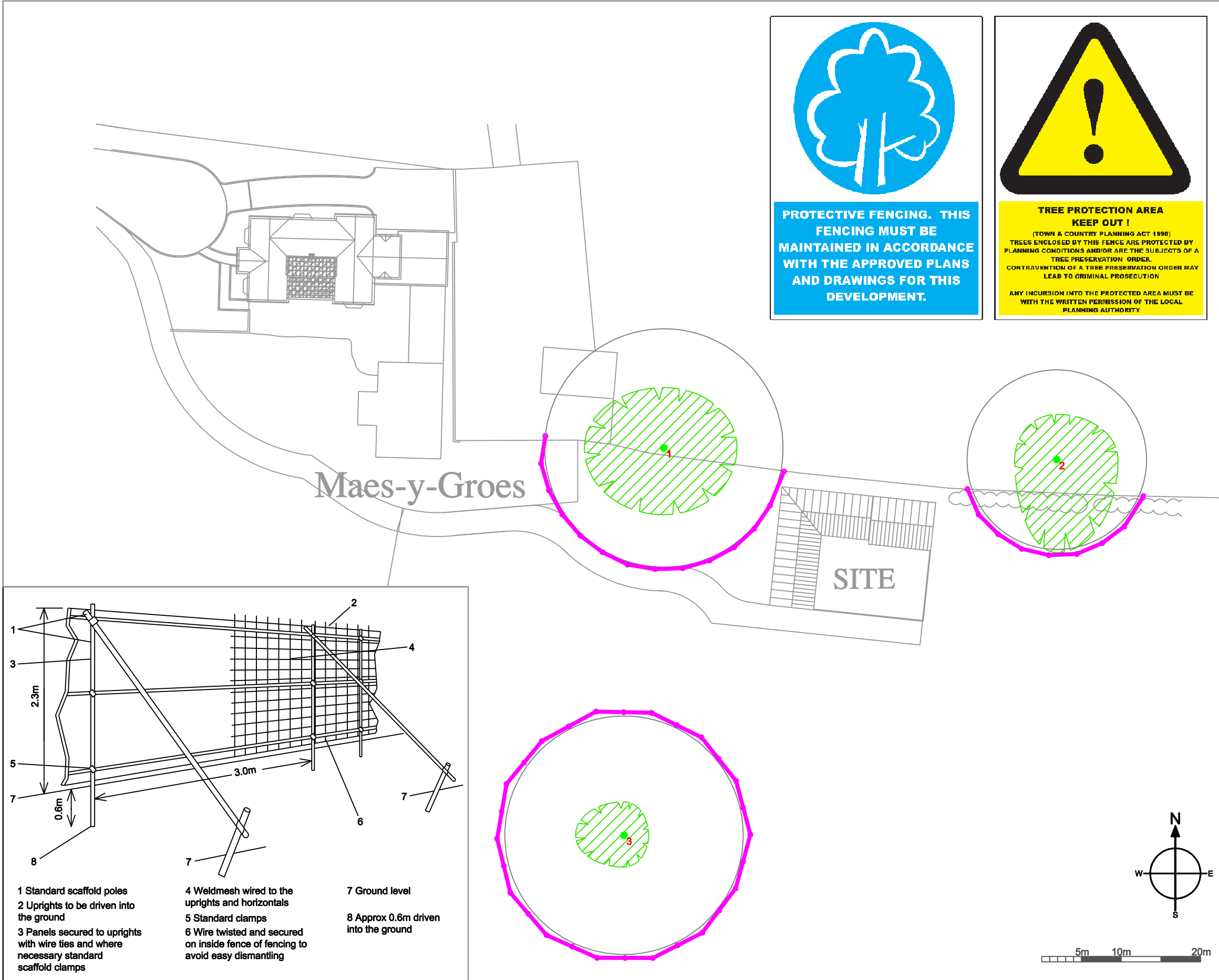
SITE:	LAND AT MAES Y GROES, BANGOR ON DEE, WREXHAM
CLIENT:	MR & MRS JONES
BRIEF:	ARBORICULTURAL IMPACT ASSESSMENT

SURVEYOR:	A. HENDERSON
ASSESSMENT DATE:	30/03/2009
VIEWING CONDITIONS:	CLEAR
JOB REFERENCE:	09/AIA/P2/WXM/22

PAGE: 2 OF 2

Tree No.	Species	Age	Height (m)	Crown Spread (m)	D.B.H (mm)	Vitality	Comments	Management	BS 5837 Retention Category	BS5837 RPA Radius (m)
T3	Oak	PM	4 C- 1	N: 4.2 S: 4 E: 3.1 W: 6.1	3000	M	- Veteran Oak of significant historical value - E.R.C. ≥ 40 years	N/A	A1 & 3	15

Appendix Two
Tree Protection Plan



LEGEND

Root Protection Area Modified to Account for Site Features

Category

Root Protection Area

Category A

Category B

Category C

Category R

Tree Position Approximate (not in original topo)

Tree Protection Fencing

Crown Spread

Tree Number

Client:

Mr & Mrs Jones

Project:

Proposed New Stable Block on land at Maes y Groes, Bangor on Dee, Wrexham

Title:

Tree Protection Plan

Scale: 1:500 @ A3

Date: June 2009

Drawn By: AM

Revision: A

Job Ref:

09/AIA/P2/WXM/22

Do not scale from this drawing all dimensions to be checked on site.

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Appendix Three

Tree Protection Sign



**PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



**TREE PROTECTION AREA
KEEP OUT !**

**(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY
PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A
TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY
LEAD TO CRIMINAL PROSECUTION**

**ANY INCURSION INTO THE PROTECTED AREA MUST BE
WITH THE WRITTEN PERMISSION OF THE LOCAL
PLANNING AUTHORITY**

Appendix Four
Site Supervision Form

ARBORICULTURAL SITE SUPERVISION

Planning Ref No.
 Developer:
 Site Address:
 Site Agent:
 Visit Date:
 Arboricultural Supervisor:

Site Supervision

Was all Tree Protective Fencing in place? Yes ☐ No ☐

Was any debris noticed within Total Exclusion Zones? Yes ☐ No ☐

Are any special works scheduled for the coming building period? Yes ☐ No ☐

Details:

.....

Are any amendments proposed to plans? Yes ☐ No ☐

Details:

.....

Signed:

(For and on behalf of Tree Solutions)

Signed:

(For and on behalf of developer or main contractor)

Circulation:

Tree Solutions	
Developer Head Office	
Site Agent	
Local Planning Authority	
Architect	

ARB REF: