

Tree Protection Plan and Arboricultural Method Statement

Land at
Bedwell Road
Cross Lanes
Wrexham

Ref:
AMS/CLM/04/19

Date:
26th April 2019

Commissioned by:
Mr N. Copeland

Prepared by
S. Shields

Arboricultural Method Statement

&

Tree Protection Plan

Land at
Bedwell Lane
Cross Lanes
Wrexham

This Arboricultural Method Statement & Tree Protection Plan has been prepared in accordance with the protocols, standards and procedures set out in BS 5837: 2012 'Trees in relation to design, demolition and construction'.

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Instruction

- 1.1 Shields Arboricultural Consultancy received instructions from Mr N. Copeland for N Copeland Construction LTD to provide a site specific Tree Protection Plan and Arboricultural Method Statement covering all construction operations at the above site in connection with the conditionally approved planning permission ref P/2018/0138 and current amendment P/2019/0316. The client or their agents may copy and distribute this report as required for the purpose of applying for planning permission for or preparing any documents or plans for this or future applications at this site.
- 1.2 Full planning permission has been conditionally granted to construct five dwellings and associated infrastructure in accordance with the approved plans and particulars of application p/2018/0138. This document is provided to fulfil the tree protection conditions imposed on that grant of planning permission and to support the application to revise the site layout.

Site description

- 2.1 The site is situated on agricultural land, set to pasture, off Bedwell Road, Cross Lanes, Wrexham. There are no trees on the site itself, but there are of trees on adjacent land which could potentially be impacted by the construction activities. These are shown on the tree protection plan and listed below. Previous survey tree reference numbers are used.



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Description of Trees

Ref. No.	Species	Stem Dia mm	N	E	S	W	Age	Cat	RPA m (Rad.)	Notes
T5	<i>Silver Birch</i>	400	6.3	5.2	1.5	5.6	M	B2		Condition: Fair Notes: In rear garden of existing dwelling.
T6	<i>Silver Birch</i>	400	2.7	3.1	3	5.6	M	B2		Condition: Fair Notes: As T5.
T7	<i>Ash</i>	800	7.0	6.3	4	7.0	OM	U		Condition: Poor Notes: Part of a group of trees off-site to west. Declining condition, some decay.
T8	<i>Oak</i>	860	3.9	6.2	5.5	7.0	OM	C		Condition: Poor Notes: Part of a group of trees off-site to west. Declining condition.
T9	<i>Oak</i>	900	7.0	10.0	11.0	10.0	M	A2		Condition: Good. Notes: Part of a group of trees off-site to west.
T10	<i>Oak</i>	840	7.0	7.0	5.5	8.2	M	B2		Condition: Good. Notes: Part of a group of trees off-site to west.
T11	<i>Oak</i>	940	7.0	9.0	8.0	8.3	M	A2		Condition: Good. Notes: Part of a group of trees off-site to west.
T12	<i>Oak</i>	480	5.0	5.1	6.2	5.2	M	C2		Condition: Good. Notes: Part of a group of trees off-site to west.

T13	Oak	840	4.6	6.2	8.0	6.9	M	A2		Condition: Good. Notes: Part of a group of trees off-site to west.
H14	Mixed									Condition: Fair. Notes: Mixed species hedge to the front of the site. Has become overgrown. Low species mix and occupying visibility splay, it is recommended that this hedge is removed and replaced as part of the landscaping of the development.

Arboricultural Operations

Permission to remove any tree must be obtained from the Local Planning Authority and must not be undertaken until all pre-commencement conditions have been discharged.

- 3.1 Hedgerow removal will be required to implement this development. It is recommended that the work should be undertaken by a suitably qualified person, holding public liability insurance for the sum of £5,000 000. All operators must hold relevant NPTC certificates. A site-specific risk assessment must be prepared and operators must work to a health and safety method statement. The use of Arboricultural Association Approved Contractors www.trees.org.uk/find-a-professional/Directory-of-Tree-Surgeons is recommended.
- 3.2 The contractor undertaking the work is responsible for any loss or damage arising as a result of the operations and agrees to indemnify the owner against such occurrences.
- 3.3 All tree protection measure specified in the following section and shown on the accompanying TPP are to be fully installed prior to the commencement of the arboricultural works. Where access is required to the trees, then suitable ground protection must be used in lieu of the tree protection fences.

Tree Survey Methodology

- 4.1 All trees indicated on the site plan have been assessed in to establish their individual protection requirements in accordance with the protocols recommended in BS 5837: 2012 'Trees in Relation to Construction'. Measurements have been taken in accordance with the procedures and protocols set out in BS 5837: 2012 and the Forest Mensuration Handbook. Height measurements are approximate unless otherwise stated. Trees have been assessed as individuals,

groups or woodlands as appropriate. Where access to trees has been restricted, either as a result of their situation on private land or where vegetation or ground conditions are unfavourable, an estimation of trunk diameter has been made. This entails using a set of callipers to approximate the measurement. Estimates are rounded up to provide a margin. This technique has only been used where there is a sufficient buffer between the RPAs and any area disturbed by development. Where trees are in woodlands or groups only the outside edge trees are assessed unless there are larger trees with RPAs or crowns that would overlap the edge trees.

- 4.2 Where trees are to be retained, it is necessary to ensure that they are suitably protected to avoid damage during the construction phase of the development. It is also important to consider any long term implications; such as issues with shading or leaf litter that may arise as a result of tree retention.
- 4.3 To ensure that trees are not adversely affected by the construction works it is necessary to:
- The avoidance of physical damage to the aerial parts of the trees (i.e. Impact and other damage to trunk and branches)
 - The avoidance of damage to retained trees as a result of the severance or other physical damage to their roots
 - Preserve of the character of the soil, through the avoidance of any activity that would cause it to become compacted or otherwise disturbed or disrupted, and to avoid contamination by potentially harmful substances
 - To ensure free gaseous exchange is permitted between the upper layers of soil and the atmosphere
 - To ensure adequate (but not excessive) water supply to the soil and hence to tree roots

This would normally be achieved by establishing an area, known as a construction exclusion zone (CEZ) around each tree. The CEZ is derived from the root protection area (RPA) and the crown spread of the tree. The RPA represents the area occupied by the tree's root system and is calculated for each tree based on its stem diameter and the ground conditions present taking account of and any impediment to rooting. The RPA should represent the most probable position of the tree's root system.

The CEZ must be considered sacrosanct and be maintained completely undisturbed. No construction should take place within this area and it should not be used for storage of materials or fuels. Access for vehicles machinery or personnel is prohibited and to ensure that it is not damaged by construction activity it must be suitably protected during the construction phase, using robust fencing or alternative ground protection methods, to prevent disturbance and damage occurring.

Arboricultural Method Statement

- 5.1 This arboricultural method statement (AMS) sets out the details of tree protection measures afforded to the retained trees on and adjacent to the site.
- 5.2 This AMS should be read in conjunction with the Tree Protection Plan (CLM/TPP/04/19). The TPP indicates the construction exclusion zone (CEZ) that must be maintained around each retained tree. These areas must remain undisturbed during the construction process and must be protected using suitable fencing or ground protection as specified.
- 5.3 Copies of the TPP & the AMS must be available on site and all tree protection requirements explained to all persons undertaking activities on the site during the site induction process.
- 5.4 All general tree protection measures must be installed and inspected prior to bringing onto the site any plant, materials or equipment or undertaking any construction works or demolition or any arboricultural works. The LPA must be informed in writing once the tree protection measures are installed.
- 5.5 The site is to be inspected by the consulting arboriculturalist in accordance with the schedule of inspections (see section 5.18).
- 5.6 All measurements are given in metric using standard abbreviations.

Fencing and Ground Protection

- 5.7 The TPP indicates the position all protective fences.
- 5.8 Protective fencing will comprise herras fencing, securely fixed into place and braced to resist impact, or as otherwise agreed with the Local Planning Authority.
- 5.9 No ground protection is specified for this site.
- 5.10 The protective fencing must be inspected on installation and will remain in place until completion of the construction phase and then only removed with the consent of the LPA.
- 5.11 Other than works approved in writing by the LPA, no works including storage or dumping of materials shall take place within the exclusion zones defined by the protective fencing.

General Precautions

- 5.12 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 10m of the trunk of a tree that is to be retained or within any part of the CEZ. Spills kits, suitable for the type fluids, fuels and chemicals stored on site must be available on site and site operatives must have training in their use.
- 5.13 No fires will be lit within 20m of the trunk of any tree that is to be retained.

- 5.14 Storage and mixing areas, contactor parking and all site huts must be outside the CEZ.
- 5.15 Access to the work area is via the main site entrance and must not traverse the CEZ.
- 5.16 All service and drainage routes, below or above ground must avoid the CEZ. All services are to be installed in accordance with NJUG volume 4 Guidelines.
- 5.17 To ensure that all tree protection measures are properly installed and maintained the site shall be monitored by Shields Arboricultural Consultancy to the following schedule. Details of the findings and photographic evidence of the site inspection visits will be reported to the LPA by email within 24 hrs of the visit. All tree protection measures must remain in place until development work is completed and only removed after receiving written confirmation from the LPA.

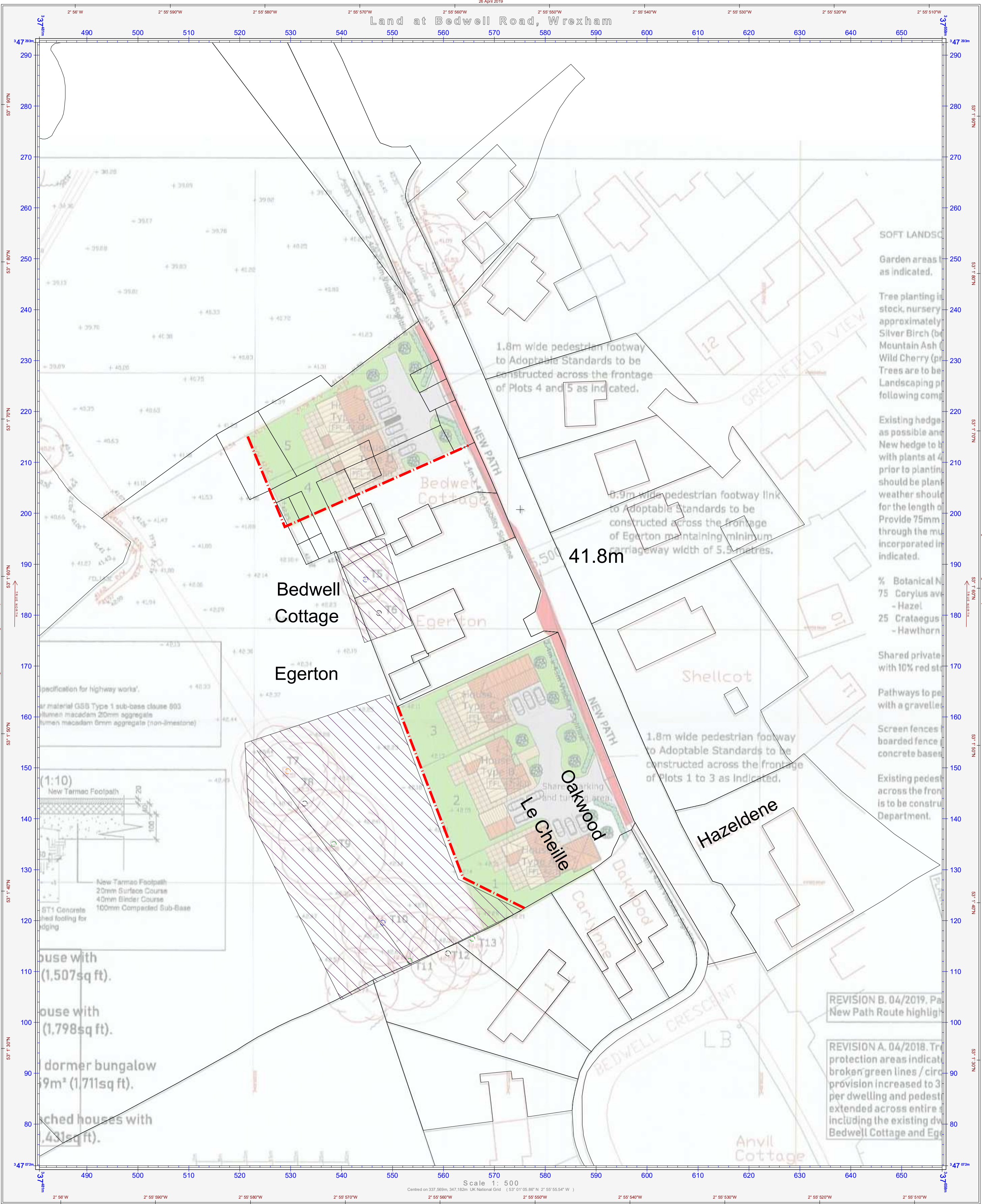
Schedule of Inspection

1. On completion of erection of fencing and installation of ground protection prior to commencement of development works
 2. Monthly throughout the project
- 5.18 Prior to the commencement on site of any work, a competent person is to be appointed to monitor the day to day activities on site. In the case of a tree being damaged or where an unexpected event arises it will be for this person to contact Shields Arboricultural Consultancy to seek advice on contingency measures.

S.J.A. Shields

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26th April 2019



Shields Arboricultural Consultancy

Tree & Woodland Management Solutions

Tree Protection Plan

Land at
Bedwell Road
Wrexham

- Tree Cat A
- Tree Cat B
- Tree Cat C
- Tree Cat U
- CEZ
- Tree Protection Fencing

Drawing No: CLM/TPP/04/19/01

Drawn By: S. Shields

Scale: 1:500 @ A2

Date: 26th April 2019

Revision:

Do not scale from this drawing all dimensions to be checked on site
Drawing is colour coded and a monochrome copy should not be relied upon

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