

Shields Arboricultural Consultancy

'Derwen Deg', 59 Oakhurst Road, Oswestry, Shropshire, SY11 1BL

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Arboricultural Consultancy

Arboricultural Method Statement & Tree Protection Plan

At the Site of:

7 Derwen Court,
Sontley Road,
Wrexham

Ref: DCE/AMS/11/12

Inspection commenced on:
28th October 2012

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|-------------------------------|---|
| ▪ Trees, Litigation & the Law | ▪ Tree-related Environmental Impact Assessments |
| ▪ Planning & Appeals | ▪ Subsidence Risk Assessment |
| ▪ Mortgage Surveys | ▪ Trees & Development Sites (BS 5837) |
| ▪ Tree Preservation Orders | ▪ Tree Hazard & Risk Assessment |



Arboricultural Method Statement & Tree Protection Plan

7 Derwen Court,
Sontley Road,
Wrexham

Introduction

- 1.1 Shields Arboricultural Consultancy received instructions from Mrs S Madhavan to provide an Arboricultural Method Statement and Tree Protection Plan in respect of trees at the above property.
- 1.2 Planning permission has been granted to erect an extension to the south elevation of the main house subject to a satisfactory tree protection plan being prepared, approved and implemented.

Scope & Limitations

- 2.1 The purpose of this Arboricultural Method Statement (AMS) and Tree Protection Plan (TPP) is to assess the potential impact to existing trees, hedges and shrubs that would arise from undertaking the proposed works and to make recommendations to protect these features where appropriate.
- 2.2 The report is prepared in accordance with the recommendations of the British Standard Document BS 5837: 2012 'Trees in Relation to Construction'.
- 2.3 This report is not an ecological assessment and does not identify habitats or constitute a protected species survey.

Statutory Controls & Obligations

- 3.1 Forestry Act; the felling of trees is controlled by the Forestry Act, which requires that a felling licence is obtained prior to cutting down any trees. The Forestry Act does not apply to the felling of trees growing within an orchard, private garden, churchyard or public open space. The Forestry Commission has the responsibility for enforcing the Forestry Act.
- 3.2 Tree Preservation Orders & Conservation Areas; Local Authorities have specific powers under the Town & Country Planning Act 1990 as amended, to protect trees through the use of Tree Preservation Orders. Where trees are protected under such orders it is a criminal offence (subject to any exemptions for which provision may be made by the act or order) to undertake, cause or permit the cutting down, topping, lopping, uprooting, wilful damage or wilful destruction of trees except

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with the consent of the local planning authority. Similar controls apply to all trees growing within a designated Conservation Area.

- 3.3 Bats, wild birds and other protected species; The Wildlife & Countryside Act & the Conservation (Natural Habitats & C.) Regulations make it an offence to disturb or destroy bats and bat roosts and wild birds and their nests. Other species of plant and animal are also protected. These creatures often inhabit trees and sufficient care must be taken to ensure they are not affected during forestry and arboricultural works.

Site Description

- 4.1 The application site, known as 7 Derwen Court is a detached two story property set in its own private garden located in a residential cul de sac. The area is characterised by similar properties which were part of a large residential development of land at the Erddig Estate. The house is approximately 32 years old.
- 4.2 There are two Horse Chestnut tree within the rear garden, located close to the south boundary of the property, which backs on to neighbouring gardens. T1 is to the west corner of the garden and T2 to the east. They are large, mature specimens that would pre-date the house and form part of the original landscape planting associated with previous land use. Both trees are known to be protected by a Tree Preservation Order (see section 3.2).
- 4.3 The site is level with the dwelling to the situated to the north of the plot and its garden laid out to the south. It is at an elevation of approximately 85m above sea level and is generally sheltered. Soils appeared to be free draining and no areas of water logging were identified.

General Description of Proposed Works

- 5.1 Planning permission has been granted to construct a single story extension on the south elevation of the main house.
- 5.2 To ensure that trees are not adversely affected by the proposed works it is necessary to:
- a. Avoid physical damage to the aerial parts of the existing trees (i.e. impact and other damage to trunk and branches)
 - b. Avoid damage to existing trees as a result of the severance or other physical damage to their roots

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- c. Preserve the characteristics of the soil within the Root Areas of existing trees and any sites proposed for new planting, through the avoidance of any activity that would cause the soil to become compacted or otherwise disturbed or disrupted, and to avoid contamination by potentially harmful substances
- d. To ensure free gaseous exchange is permitted between the upper layers of soil and the atmosphere
- e. 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 Root Protection Area (RPA), around each tree. An RPA is the minimum area that must be maintained undisturbed to ensure that it is not damaged by construction activity. The size of the RPA is calculated for each tree and is based on its stem diameter and the shape should take account of ground conditions and any impediment to rooting and should represent the most probable position of the tree's root system.

From the RPA a construction exclusion zone CEZ should be derived, this must be considered sacrosanct and must be suitably protected during the construction phase, using robust fencing or alternative ground protection methods, to prevent disturbance and damage occurring.

Arboricultural Implication Assessment

- 6.1 Full details of the tree surveyed are provided in appendix A. and their relative positions, crown spreads, root protection areas are indicated on the attached plans.
- 6.2 The trees can be satisfactorily protected to the standards recommended in BS 5837: 2012. No development will take place within the RPA and there is no requirement for any special construction techniques. A minor encroachment into the RPA is required to provide working space. This area will be protected using ground protection.

Arboricultural Operations

- 7.1 No Arboricultural Work is required to implement the planning permission.

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Arboricultural Method Statement

- 8.1 This arboricultural method statement (AMS) sets out the details of tree protection measures and the methodology for all proposed works that have the potential to affect the existing trees present on the site.
- 8.2 This document should be read in conjunction with the Tree Protection Plan (TPP). The TPP indicates the position of the Construction Exclusion Zone (CEZ) and the area of Ground Protection.
- 8.3 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.
- 8.4 All tree protection measures must be installed and inspected prior to bringing onto the site any plant, materials or equipment or undertaking any work. The Local Planning Authority (Wrexham Council) must be informed in writing once the tree protection measures are installed.
- 8.5 The site is to be inspected by the consulting arboriculturalist in accordance with the schedule of inspections and the findings of these inspections is to be reported to the LPA Tree Officer by email.
- 8.6 All measurements are given in metric using standard abbreviations.

Fencing and ground protection

- 8.7 The TPP indicates the position all protective fences and ground protection.
- 8.8 Given the low intensity of the development and the fact that it is within a residential garden the tree protection fencing will comprise 'herras' fence panels fixed in rubber block feet which are staked to the ground using steel rods. The fence panels will be securely fastened to each other using bolted clamps.
- 8.9 The ground protection specified will comprise a geo textile ground sheet on to which a layer of bark chips is spread to a depth of 25mm. Plywood boards, 20mm thick are placed on top of the bark chip and secured in place with steel pins to provide a stable working platform. Once installed the ground protection must be inspected and must then remain in place until completion of all operations and then only removed with the consent of the LPA. This is suitable for pedestrian access and light equipment, such as a 2 tonne mini excavator on rubber tracks, only. No equipment or machinery exceeding this limit to enter the site.
- 8.10 The fencing and ground protection will remain in place until completion of the construction phase and then only removed with the consent of the LPA.

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- 8.11 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

- 8.12 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.
- 8.13 No fires will be lit within 20m of the trunk of any tree that is to be retained.
- 8.14 Positions of site huts, toilets, storage and mixing areas should be to the front (north) of the house.
- 8.15 To ensure that all tree protection measures are properly installed the site is to be inspected and 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.

Schedule of Inspection

1. On completion of installation of ground protection and fencing prior to commencement of development works.
 2. On completion of project prior to the removal of ground protection and fencing.
- 8.16 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. The name and contact details of the appointed competent person will be submitted in writing to the Local Planning Authority prior to commencement of the approved development works 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. The appointed competent person will also inform the Local Planning Authority in writing within two working days of any damage to trees and/ or an unexpected event occurring in relation to the trees and/ or tree protection measures.

S.J.A. Shields

**Dip. Arb. (RFS), M.Arbor.A, MICFor.
Chartered Forester**

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List of Contacts

Local Planning Authority	Wrexham County Borough Council	01978 292017
LPA Arboriculturalist		01978 292529
Arboriculturalist	Shields Consultancy	01691 657189

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Arboricultural Implications and Recommendations

Ref. No.	Species	Top Height	Stem Dia	Stems	N	E	S	W	CC	FSB	Age	Rem Cont.	Cat.	Notes
1	Horse Chestnut (<i>Aesculus hippocastanum</i>)	16	950	1	9	8.5	9#	8#	2.5	N	M	20+	B1,2	Condition: Good. AIA: The tree can be protected and retained.
2	Horse Chestnut (<i>Aesculus hippocastanum</i>)	18	960	1	6.8	6#	7#	5.2	3	N	M	20+	B1,2	Condition: Good. AIA: As T1

BS 5837: 2012 provides the framework through which tree can be categorised in terms of their health, amenity value and long-term viability for retention on a development site. There are four categories, A,B,C & U.

Category A: Trees of high quality and value in such a condition as to be able to make a substantial contribution (a minimum of 40 years)

- 1 Trees that are particularly good examples of their species, or essential components of groups or formal arboricultural features.
- 2 Trees, groups or woodlands that 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.
- 3 Trees, groups or woodlands of significant conservation, historical, commemorative or other value.

Category B: Trees of moderate quality and value in such a condition to make a significant contribution (a minimum of 20 years)

- 1 Trees that might be included in a higher category but are downgraded because of impaired condition.
- 2 Trees present in numbers, usually as groups of woodlands that form distinctive landscape features.
- 3 Trees with clearly identifiable conservation or other cultural benefits.

Category C: Trees of low quality and value currently in adequate condition to remain until new planting could be established. Trees in this category would not usually be retained if they would pose a significant constraint to development.

Category U: Trees in such a condition that their existing value would be lost within 10 years and which should, in the current context be removed for arboricultural reasons.

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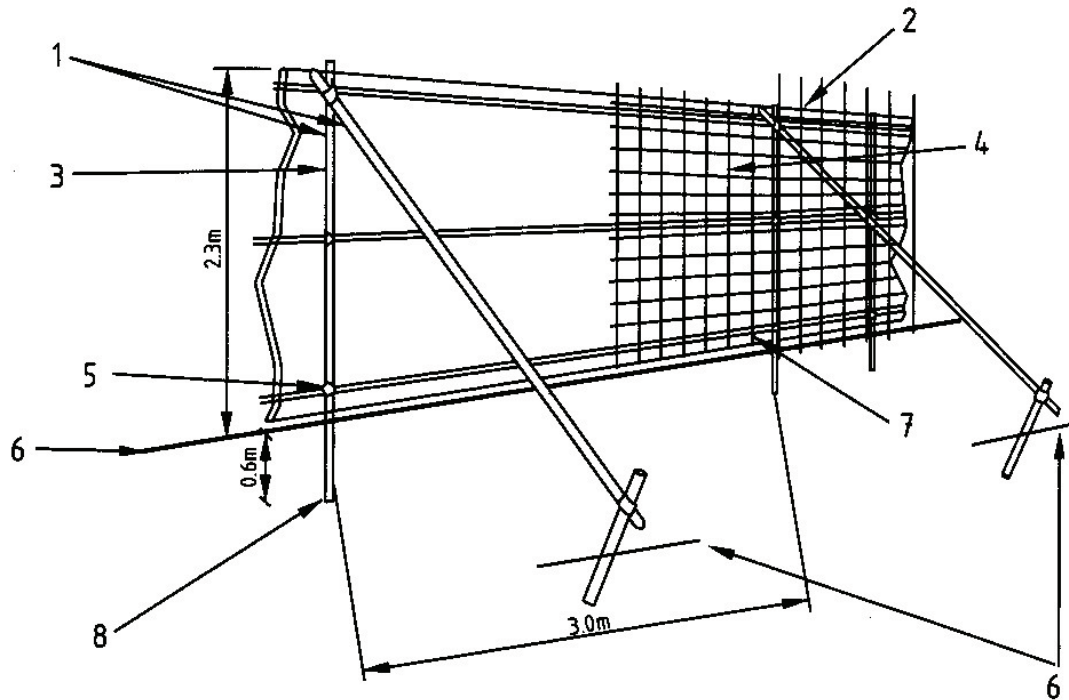
Key

Tag No	Identification number for tree	Species	Species of tree
Top Height	Estimated height of tree	Stem Dia.	Diameter of stem at 1.5 metres
Stems	Number of stems	Crown Spread	At compass points
CC	Crown Clearance	FSB	Direction of first significant branch
Rem. Cont	Remaining safe life expectancy in years	RPA	Root protection area in m ²
Cat.	BS Category (see above)	AIA	Arboricultural Implication Assessment
Age	Y - Young Trees SM - Semi Mature EM - Early Mature M Mature OM - Over Mature exceeds normal life expectancy for species		
Condition	Good Relatively free from defects and / or major pests and diseases Fair Some defects, which could be addressed through tree surgery or minor pests or early symptoms of diseases Poor Substantial defects or terminal decline Dead Dead		



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Recommended Design of Tree Protection Fencing



1 Standard scaffold poles 2 Uprights to be driven into the ground 3 Panels secured to uprights with wire ties and/or standard scaffold clamps 4 Weldmesh wired to the uprights and horizontals 5 Standard clamps 6 Ground level 7 Wire twisted and secured on inside face of fencing to avoid easy dismantling 8 Approx. 0.6 m driven into the ground

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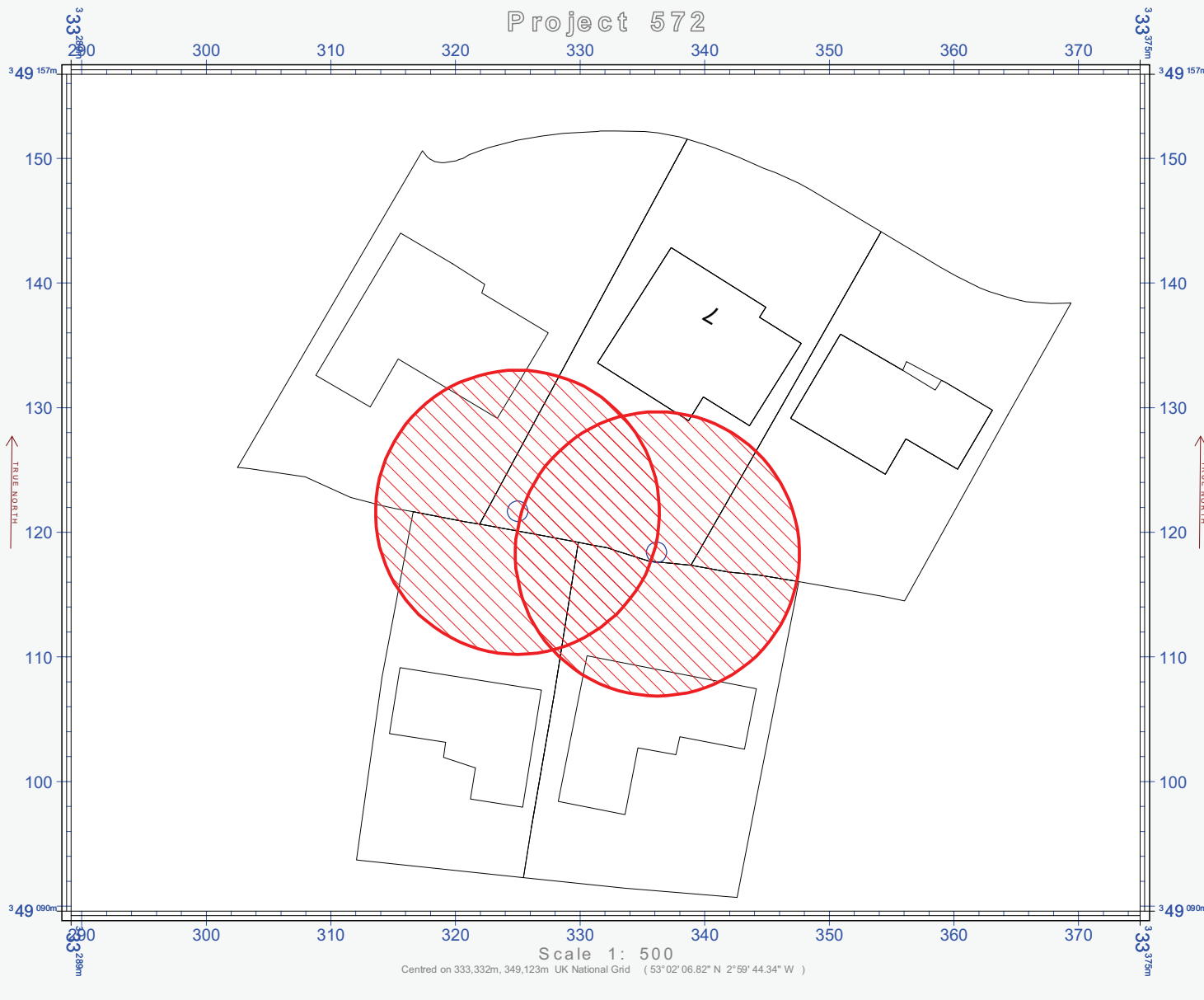
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Project 572

The grid at the western edge of the map is 0°48' 0.498" due west of true north



METRES 10 0 10 20 30 40 50 METRES

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Tree Location Plan

7 Derwen Court
Sontley Road
Wrexham

Legend

-  Tree Cat B
-  RPA

Drawing No: DCE/TPP/11/12/01

Drawn By: S. Shields

Scale: 1:500 @ A4

Date: 13th November 2012

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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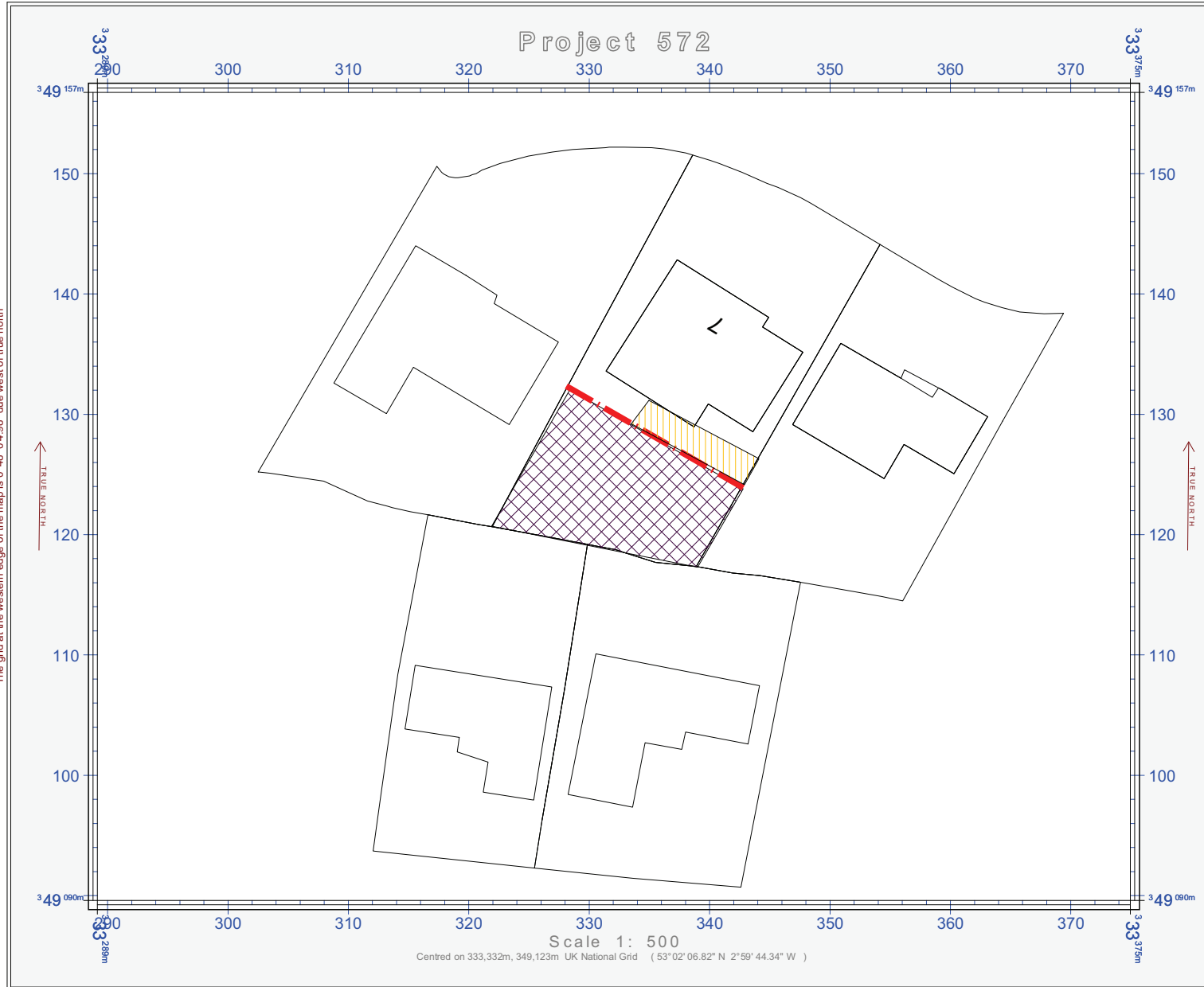
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Project 572

The grid at the western edge of the map is 0°48' 0.498" due west of true north

The grid at the eastern edge of the map is 0°48' 0.128" due west of true north



METRES 10 0 10 20 30 40 50 METRES

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Tree Protection Plan

7 Derwen Court

Sontley Road

Wrexham

Legend

-  CEZ
-  Ground Protection
-  Tree Protection Fencing

Drawing No: DCE/TPP/11/12/02

Drawn By: S. Shields

Scale: 1:500 @ A4

Date: 13th November 2012

Revision:

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