



Shields
Arboricultural Consultancy

Tree Protection Method Statement

Land at North Road,
Ponciau,
Wrexham

General Information

- 1.1 This tree protection method statement (TPMS) sets out the details of tree protection measures and the methodology for all proposed works that affect the retained trees on and adjacent to the site.
- 1.2 To ensure that trees are not adversely affected by the construction works it is necessary to:
 - a. The avoidance of physical damage to the aerial parts of the trees (i.e. Impact and other damage to trunk and branches)
 - b. The avoidance of damage to retained trees as a result of the severance or other physical damage to their roots
 - c. 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
 - 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) or Tree Protection Zone (TPZ), 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. The shape of the RPA should take account of ground conditions and any impediment to rooting and should represent the most probable position of the tree's root system. The RPA must be considered sacrosanct, kept free from all construction activity and disturbance and must be suitably protected during the construction phase, using robust fencing or alternative ground protection methods, to prevent disturbance and damage occurring.

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- 1.3 This document should be read in conjunction with the Tree Protection Plan (TPP). The TPP indicates the position of the RPA around each retained tree.
- 1.4 Copies of the TPP & the TPMS must be available on site and all tree protection requirements explained to all persons undertaking activities on the site during the site induction process.
- 1.5 All tree protection measures must be installed and inspected prior to bringing onto the site any plant, materials or equipment or undertaking any works or demolition, (with the exception of those works outlined in the hedgerow management specification detailed below) the local planning authority (LPA) must be informed in writing once the tree protection measures are installed.
- 1.6 The site is to be inspected by the consulting arboriculturalist in accordance with the schedule of inspections.
- 1.7 All measurements are given in metric using standard abbreviations.

Protective Fencing

- 2.1 The TPP indicates the position of all protective fences.
- 2.2 Protective fencing will comprise a 2.4 m high scaffold frame work with vertical and horizontal poles, driven into the ground to a depth of 0.6 m and well braced to resist impact. Onto this framework 'weldmesh' or 'herres' fencing panels must be securely fixed using scaffolding clamps (Appendix 1).
- 2.3 The fencing and ground protection will remain in place until completion of the main construction phase and then only removed with the consent of the LPA to permit completion of the scheme.
- 2.4 Other than works detailed within this statement or approved in writing by the local planning authority, no works including storage or dumping of materials shall take place within the zones defined by the protective fencing.

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Additional Precautions

- 3.1 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 10m of the trunk of a tree that is to be retained.
- 3.2 No fires will be lit within 20m of the trunk of any tree that is to be retained.
- 3.3 Positions of site huts, toilets, storage and mixing areas are identified on the TPP. Contractor parking should be off site or in areas identified on the TPP.
- 3.4 All services, both above and below ground must be located outside of the R\PA indicated on the TPP or installed in complete accordance with NJUG chapter 4 guidance. www.njug.org.uk

Hedgerow Management

- 4.1 All works are to be carried out in accordance with BS 3998: 1989 guidance.
- 4.2 Works are to be completed following construction during the landscaping phase of the development.

Existing Hedgerow North West Boundary

- 4.3 On inspection the existing hedgerow on the north west boundary was found to have become overgrown and invaded by goat willow. It is desired that this hedge be renovated. It is advised that all invasive goat willow plants are removed from the hedge and their stumps treated with herbicide to prevent re-growth. Pesticide regulations must be followed when undertaking this operation. Where practical the hedgerow is to be cut and laid in accordance with normal 'Welsh Border style', as describe by the National Hedge laying Society. Additional planting to enrich hedgerow and fill in gaps will be required.

Hedgerow Enrichment

- 4.4 Where gaps exist the hedgerow is to be enriched using a double offset row of 30cm/60cm bare root or cell grown transplants spaced on a

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300mm x 300mm planting matrix. Area to be planted is to be prepared by the removal of all ground vegetation leaving a bare soil site.

- 4.5 Transplants are to be notch planted and are to be protected using spiral tree guards and canes. Hand weeding to be undertaken two to three times per year for the first 3 years or as required to maintain a weed free area around transplants.
- 4.6 Hedgerow to comprise 70% Hawthorn (*Crataegus monogyna*) 20% Hazel (*Corylus avellana*), 10% Holly (*Ilex aquifolium*).

Schedule of Inspection

- 1. On completion of erection of fencing and installation of ground protection prior to commencement of development works
- 2. Monthly through out project
- 3. On completion of project

S.J.A. Shields

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

Contacts

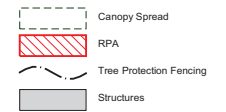
LPA	Wrexham County Borough Council	01978 292529
Arboriculturalist	Shields Consultancy	01691 657189

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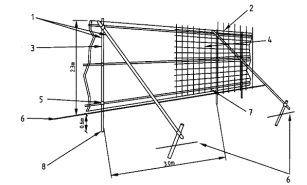
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Tree Protection Plan

Land at North Road, Ponciau,
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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

Drawing No: NRP/TPP/07/10/01

Drawn By: S. Shields

Scale: 1:500 @ A2

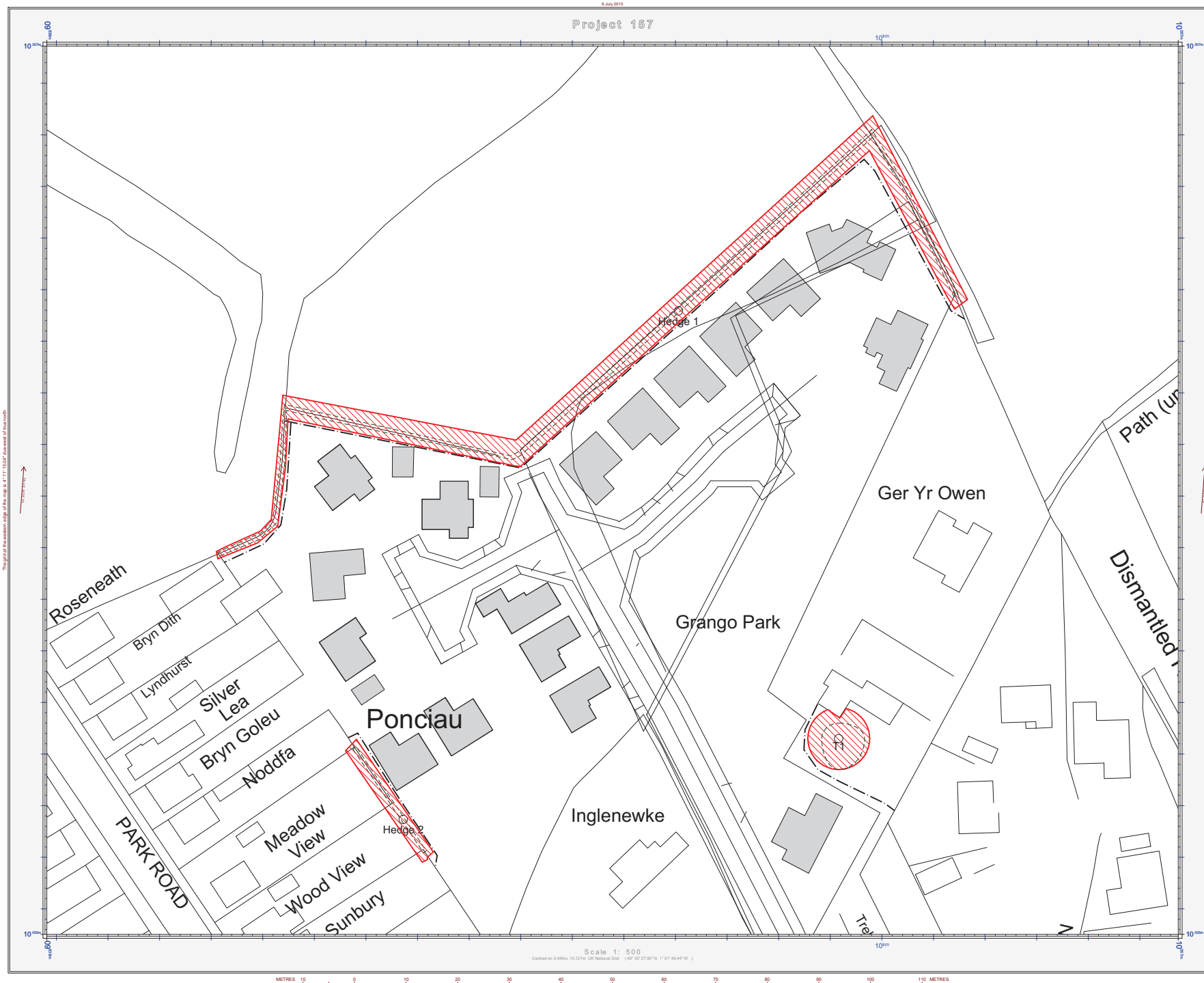
Date: 5 July 2010

Revision:

Shields Arboricultural Consultancy

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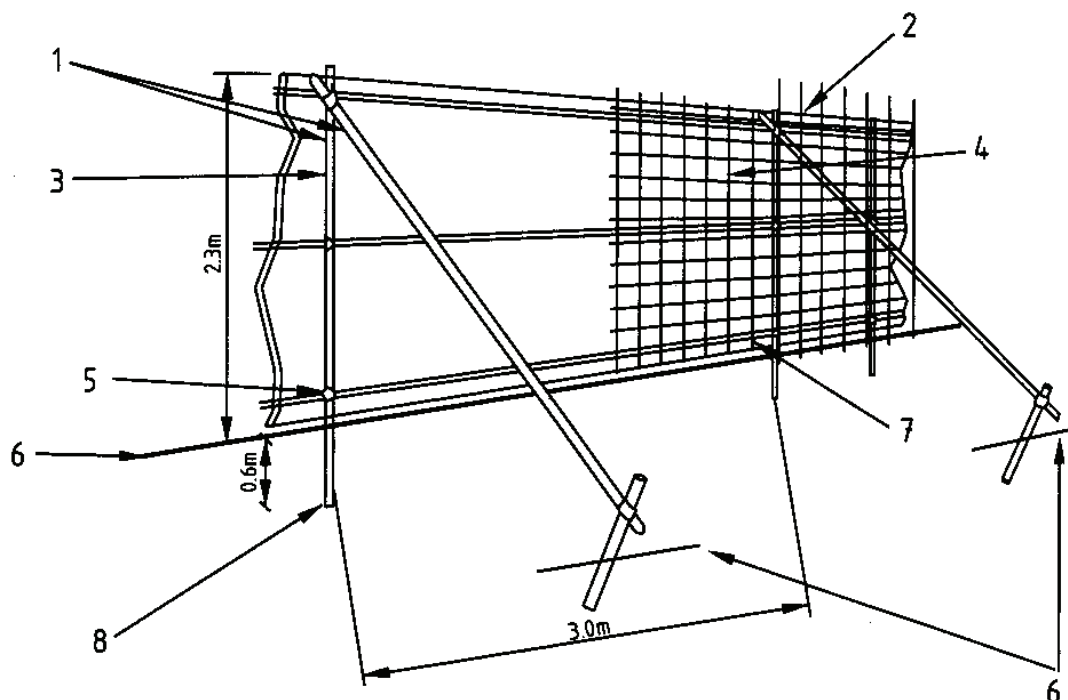
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