

Arboricultural Method Statement (BS5837: 2012)

Land at 12 Sontley Road, Wrexham, LL13 7EN

Prepared for:

Dave Cottle Civil Engineering Ltd
C/o Parry Davies Architects

Our Ref: 14/AIA/WXM/129 (Rev D)

November 2017

Tree Solutions Ltd

T: 01244 389114

E: info@tree-solutions.co.uk

W: www.tree-solutions.co.uk

SEQUENCE OF OPERATIONS

From commencement of the above development, the following methodology shall be implemented in the manner and sequence described:

1. Erect temporary protective fencing
2. Install ground protection boards within RPA of tree number 15 & 16
3. Main construction phase
4. Removal of temporary fencing
5. Landscaping within RPA's
6. Arboricultural site supervision

1. Temporary Tree Protective Fencing Erection

1. Following completion of the tree felling and prior to commencement of any site demolition, construction, preparation, excavation or material deliveries the main contractor shall erect the temporary protective fencing as detailed in the 'Tree Protection Specification' and in the location indicated on the Tree Protection Plan.

2. Install ground protection boards within RPA of tree numbers 15 & 16

1. The ground protection measures must be capable of supporting the expected loads and evenly distribute the carried weight over the track width of any vehicles that will use the access route in order to avoiding rutting, compaction and damage to the soil.
2. The method of protecting the ground for tracked construction traffic movements within the RPA will involve the use of a high density polyethylene track boards or bog mats laid across the RPA that extends beyond the protective fencing location butted together to form a continuous line as indicated on the Tree Protection Plan. The boards will be fixed in place by construction tie-rods to avoid any displacement details of which are to be approved for use by Tree Solutions and the LPA before installation commences.
3. Temporary ground protection materials shall be delivered and moved by low impact tracked machinery and installed by hand.
4. The ground beneath any protection boarding will be left undisturbed and will be protected with a porous geotextile fabric and side butting scaffold boards on a 100mm compressible layer such of sharp sand
5. Boards will remain in-situ until the construction of the building has been completed

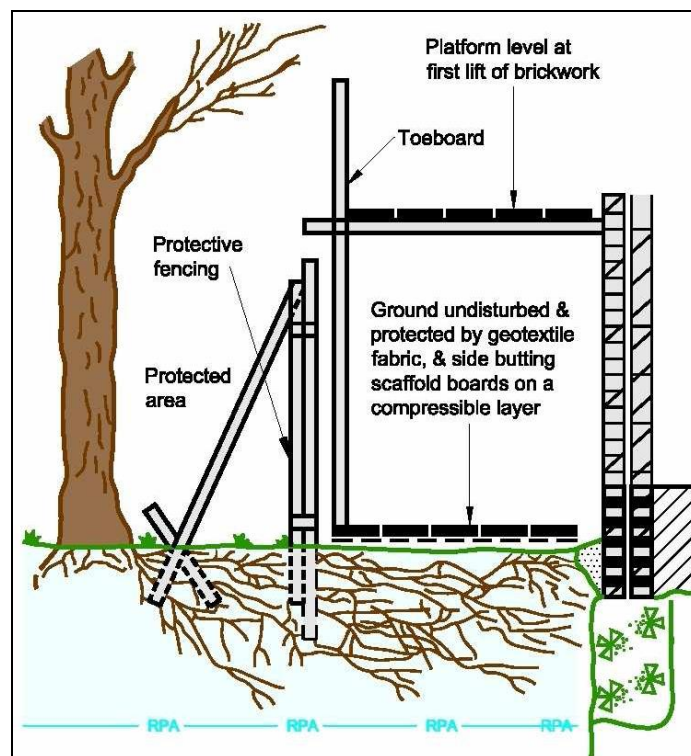


Plate 1 protective boards & scaffolding to be installed

3. Main Construction Phase

1. There shall be no storage of construction material, site parking, site accommodation or equipment in any area designated as the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing
2. 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 10 metres of the trunk of a tree that is to be retained. No fires will be lit.
3. The site agent shall supervise deliveries by self-loading crane, with vehicles positioned in such a manner that retained trees are not at risk of damage.

Avoiding Damage to Stems and Branches

4. 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.

On Site Storage of Spoil and Building Materials

5. Prior to and during all site construction works no spoil will be stored within the crown spread on any tree on or adjacent to the site even if proposed site work is to be within the crown spread. Any encroachment within this protected area will only be with the prior agreement of the LPA Arboricultural Officer.

4. Remove all Temporary Tree Protective Fencing

1. Tree Protective fencing will only be removed upon completion of all construction work and once all machinery associated with the works has left site.

5. Landscaping within the RPA of trees

1. Landscaping works will be implemented in accordance with a scheme approved by the LPA
2. There shall be **no rotovation** of ground within any area designated as a Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing.
3. No hard landscaping works or excavation for cables or any other service should be installed within the Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) without the written consent of the LPA.

6. ARBORICULTURAL SITE SUPERVISION

1. The erection of all tree protection measures outlined in this AMS and as indicated on the Tree Protection Plan will be inspected by the contract Arboricultural Consultant immediately after erection. Photographic evidence of the location and specification of all protective fencing will be forwarded to the LPA Tree Officer upon completion.
2. All proposed work within any designated RPA will be overseen by the contract Arboricultural Consultant with photographic records taken and signed inspection report emailed direct to the LPA for approval
3. The contract Arboricultural Consultant to make visits to site to inspect all tree protection measures during all key development work within close proximity to retained trees.
4. Site manager to email monthly photographs of all tree protective measures to LPA Tree Officer

Useful Contacts

Arboricultural Consultant

Name: Alistair Henderson
Tel: 01244 389114
Mobile: 07766 774508
Email: alistair@tree-solutions.co.uk

LPA Arboricultural Officer

Name: Jon Brewin
Tel: 01978 298763
Email: jon.brewin@wrexham.gov.uk

TREE PROTECTIVE FENCING

- 1 Before the commencement of any site excavations and subsequent construction works (other than those set out in the schedule of tree works contained in this document), protective fencing will be erected as detailed on the Tree Protection Plan and as specified below. The LPA Tree Officer will be given 5 days notice upon completion of the fencing in order to inspect and approve prior to the commencement of any site works.
- 2 The fencing will consist of a scaffold framework in accordance with Figure 2 of BS 5837 – 2012 (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.
- 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
- 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
- 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

The fence types are shown on the Tree Protection Plan with the following colour key:-

1. **Magenta** - 2.0M high heavy duty rhino panels (with extra central support bar) mounted on scaffold poles (driven in to the ground) and secured with anti tamper bolts – as illustrated below.



Tree Protective Fencing Specification

Key

- 1 Standard scaffold poles
- 2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
- 3 Panels secured to uprights and cross-members with wire ties
- 4 Ground level
- 5 Uprights driven into the ground until secure (minimum depth 0.6 m)
- 6 Standard scaffold clamps



The new hard surface section identified by hatching shall be constructed over the existing ground without excavation other than removal by hand, of surface vegetation and minor (<75mm high) surface irregularities or loose soil to a depth of not more than 150mm

Any excavation of ground within the hatched area shall be by hand and shall be supervised by the consulting Arboriculturist

The new surfacing in the hatched area shall be constructed using the 'Geoweb' Cellular Confinement System to enable adequate loadbearing capacity to be achieved with minimal depth of construction

All aggregates used in the construction shall contain no-fines, crushed griststone or sandstone.

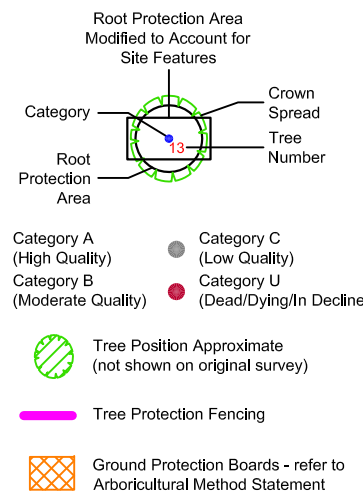
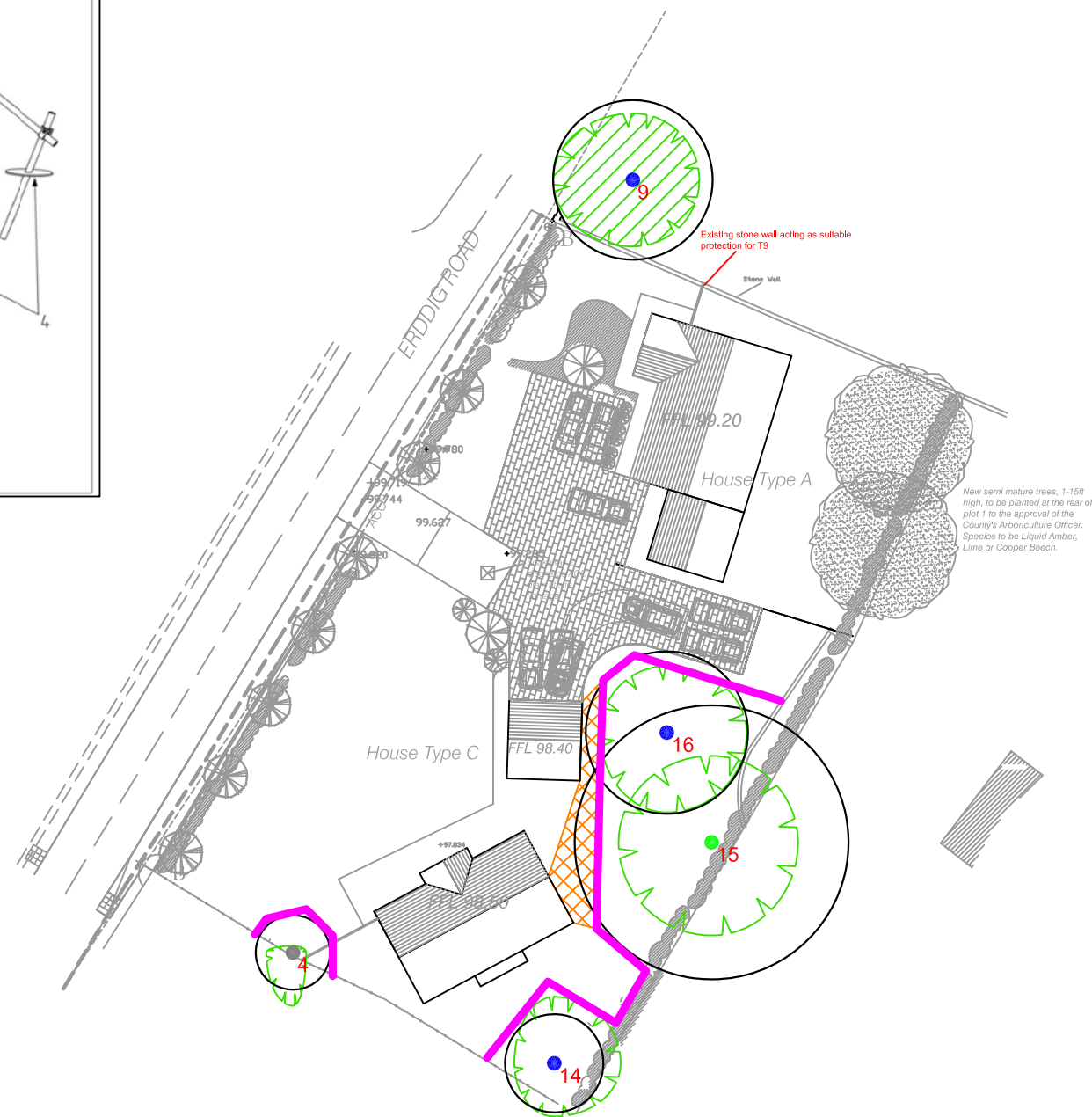
Limestone shall not be used

The surface wearing course shall be material agreed with the Local Planning Authority

The construction will be an Engineer designed specification

Edge restraints or kerbs to the 'no-dig' sections or hard standing shall be constructed without excavation of ground other than that described at 1 above

Final surface levels at either end of the 'no-dig' sections shall be dictated by the final surface levels of the 'no-dig' section, and not vice-versa



Client: Dave Cottle Civil Engineering Ltd

Project: Land at 12 Sontley Road, Wrexham

Title:	Tree Protection Plan
--------	----------------------

Scale: 1-500@A3	Date: November 2017
--------------------	------------------------

Drawn By: AM	Revision: D
-----------------	----------------

Job Ref:	Drawing No:
14/AIA/WXM/129	03

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

The copyright of this document resides with Tree Solutions unless assigned in writing by the company



E: info@tree-solutions.co.uk
W: www.tree-solutions.co.uk
T: 01244 389114
M: 07766 774508

