

Arboricultural Method Statement
Land at former Green Dragon Public House, Wrexham

From commencement of the above development, the following methodology shall be implemented in the manner and sequence described below, I have expanded on these points where necessary in the following text.

1. Pre-contract site meeting to disseminate information between all parties active on site
2. Pre-construction tree works, including access facilitation pruning and felling as identified at Appendix 4.(Hedge reduction in Winter)
3. Installation of all tree protection fences as per plan at Appendix 3
4. Local authority informed and check requested.
5. Main construction phase including any ground works and installation of services as per approved plan
6. Completion and removal of construction equipment
7. Landscaping works outside protective fences using machinery where required
8. Approval to remove tree protection for final landscaping works.
9. Final landscaping works inside Root Protection Areas of trees to be carried out by hand

1. Pre-contract site meeting

To outline working methods in relation to trees prior to any construction activity on site, a site meeting of the following shall take place:

- (a) Client
- (b) Architect/Planning Consultant
- (c) Structural Engineer
- (d) Main Contractor
- (e) Arboriculturist
- (f) Site Agent

2. Arboricultural Works

- 2.1 All work will be carried out in accordance with BS 3998 Recommendations for Tree Work 2010 industry best practice and in line with any works already agreed with the Council. Schedule of works at Appendix 4 to this report
- 2.2 The Tree Surgeon shall ideally be chosen from The Arboricultural Association's Approved Contractor list. Proof of experience and insurance provision will be required. All work shall be undertaken at the appropriate time and with the consent and approval of the Site Agent.
- 2.5 The statutory protection afforded by the Wildlife and Countryside Act and Countryside and Rights of Way will be adhered to. If further advice is required, particularly if bats are discovered during tree work, it will be obtained from Natural England or other competent persons and recommendations adhered to.
- 2.6 The stumps of any trees removed from within the Construction Exclusion Zone (CEZ) or the Root Protection Areas (RPA) of retained trees will be either; cut flush to ground level and left in situ or ground out using a stump grinder. They will not be winched out or excavated with a back hoe
- 2.7 The hedge restoration work will be carried out in winter.

3. Main Construction Phase

3.1 Tree Protection Measures

- 3.1.1 No construction or groundwork's shall be begun until the temporary protective fence has been erected to the satisfaction of the local planning authority. The fence shall be secure and able to withstand accidental contact with construction equipment. A suggested design for this is attached at Appendix 1. The fence will remain in situ until all construction works are finished on site. The purpose of this fence will be discussed within site induction courses so that all persons on site are aware of why it is important to retain its integrity during the construction phase. At Appendix 2 is a suggested sign design to place on the fence. Appendix 3 is the Tree Protection Plan proposed.
- 3.1.2 There shall be no storage of construction materials, site parking, site accommodation or equipment in any area designated as a Root Protection Area (RPA)
- 3.1.3 No fires shall be lit within 15m of any retained hedge
- 3.1.5 The Site Agent shall supervise deliveries by self-loading crane, with vehicles positioned in such a manner that retained hedgerows are not at risk of damage.
- 3.1.6 Care shall be taken when planning site operations in proximity of retained 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 to them and might make their safe retention impossible.

3.2 Site storage, parking, welfare facilities etc.

- 3.2.1 The site will require provision for; site storage, contractor parking, welfare facilities, temporary services/drainage, material drop off points etc.
- 3.2.2 None of the above provisions will be sited within the Root Protection Areas of retained hedges without the input of the Project Arboriculturist and the consent of the Local Planning Authority.

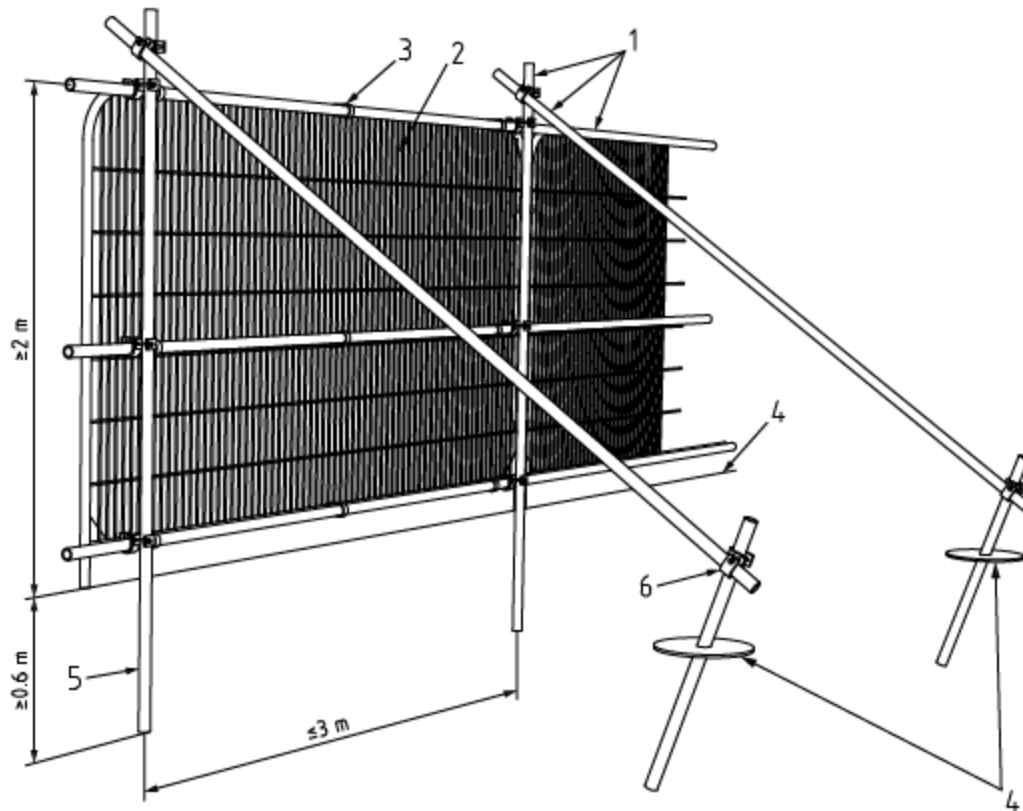
4. Underground Services

- 4.1 Although every effort has been made to ensure the routing of services does not encroach into Root Protection Areas, if for whatever reason installation within Root Protection Areas is required the project Arboriculturist and local authority must be notified prior to any tree protection barrier removal and the following details adhered to.
- 4.2 Trenching for the installation of underground services severs any roots present and may change the local soil hydrology in a way that adversely affects the health of the trees. For this reason particular care will be taken in the routing and methods of installing underground services. Wherever possible, they will be kept together and arboriculturally sensitive methods of excavation used. At all times where services are to pass within the Root Protection Area, detailed plans showing the proposed routing will be drawn up in conjunction with an Arboriculturist. Such plans will also show the levels and access space needed for installing the services.
- 4.3 The preferable method for trenching within Root Protection Areas to avoid damage is via excavation using an 'air spade' or similar. This tool utilises compressed air to remove soil from around tree roots causing minimal damage. This approach will be utilised whenever possible.
- 4.4 Reference can be made to National Joint Utilities Group publication Volume 4 (NJUG Vol. 4) for guidance, but any approach must be approved by the Project Arboriculturist and brought to the attention of the Local Authority Tree Officer. Unless an emergency arises, there shall be no new excavation for the installation, renewal, or repair of underground services within any area designated as a Root Protection Area and Construction Exclusion Zone and enclosed by Temporary Protective Fencing (unless very low root volume is established beforehand).

5.0 Landscaping works inside Root Protection Areas

5.01 All landscaping work including levelling, cultivation and vegetation control shall be carried out by hand within the Root Protection Areas of the hedges. No herbicides shall be used to control weed growth.

Appendix 1 Fence Design



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

1) Suggested design of protective fence (BS5837 2012)

Appendix 2 Sign Design



TREE PROTECTION AREA KEEP OUT !

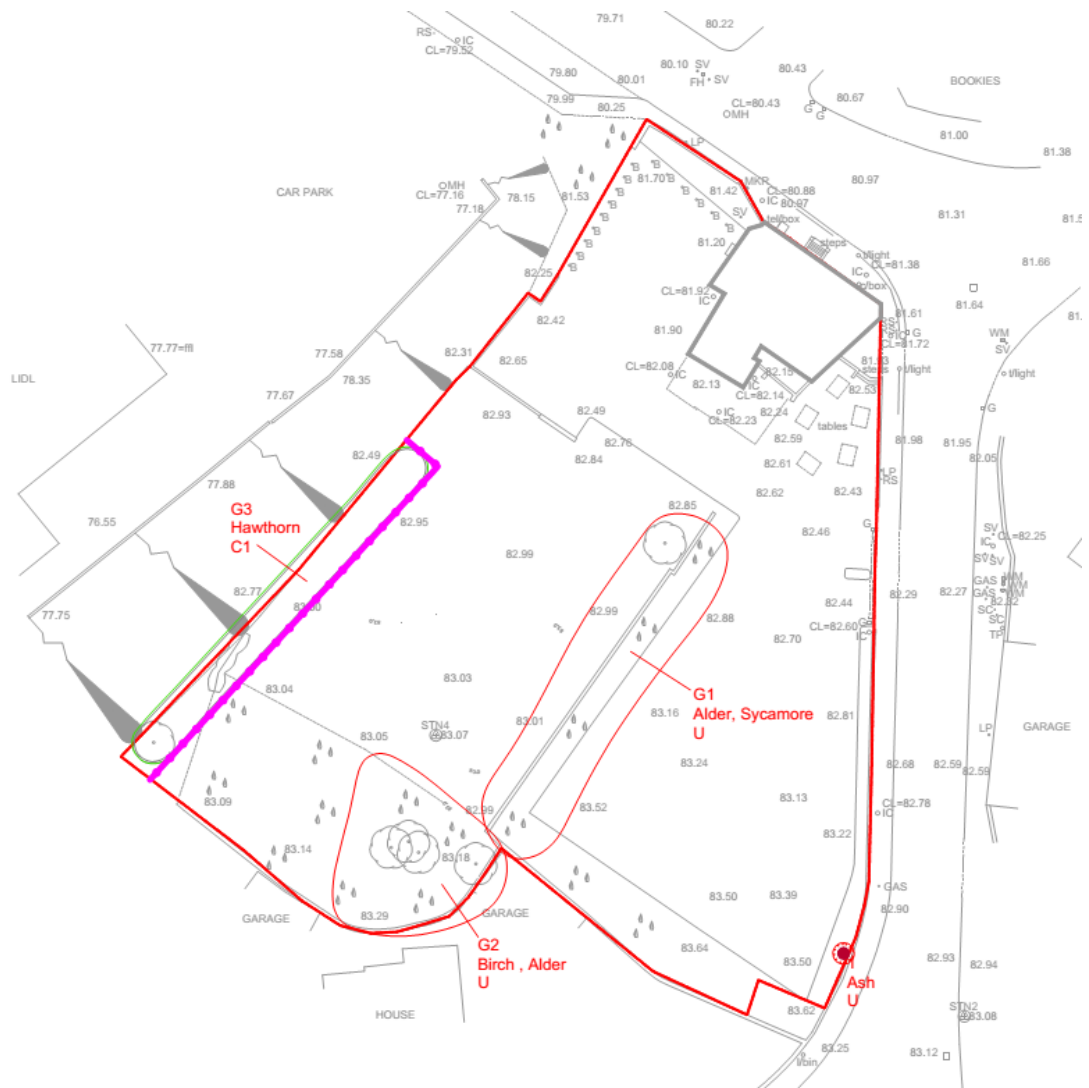
(TOWN & COUNTRY PLANNING ACT 1990)

**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 3 Plan



1) Tree Protection Plan*

**Available electronically*

Appendix 4 Schedule of tree works

Tree No	Species	Works Required
G1	Alder, Sycamore	Fell
G2	Alder, Birch	Fell
G3	Hawthorn	The hedge is in an unmanaged state and should be reduced to 2m in height and the width at the base shall also be 2m, regular clipping shall be carried out to maintain the hedge at these sizes. The initial works will be carried out in winter. Any gaps should be replanted with Hawthorn stock

All the above works will be carried out to BS5998 2010 or otherwise informed by more recent research.