

Arboricultural Method Statement

Robinwood Activity Centre, Cross Lanes, Wrexham

Prepared for:

ROBINWOOD ACTIVITY CENTRES

Our Ref: 23/AMS/WXM/309

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SEQUENCE OF OPERATIONS

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

1. Tree surgery works
2. Erect temporary tree protective fencing
3. Install ground protection for plant and materials
4. Install ground protection for meeting room
5. Excavation of foundations within RPA of T5
6. Main construction phase
7. Removal of temporary fencing
8. Landscaping within RPA of trees
9. Arboricultural site supervision

1. Tree Surgery Works

1. Before the erection of the temporary protective fencing, all tree removal & remedial works shall be implemented in accordance with the tree survey schedule at *Appendix 1* of Arboricultural Impact Assessment Ref: 22/AIA/WXM/309
2. All possible efforts must be made to prevent damage to retained trees including potential root incursion or compaction caused by vehicle access.
3. All arboricultural works shall conform to the recommendations of BS 3998 (2010) 'Recommendations for Tree Work'
4. All operatives shall be equipped with and use personal protective equipment (PPE) in accordance with current Health & Safety Executive current directives and industry codes of practice.
5. Performance of all arboricultural operations and use of equipment shall be in accordance with current Health & Safety Executive current directives and industry codes of practice
6. Any additional access facilitation pruning required shall be undertaken by qualified tree contractors and conform to the recommendations of BS 3998 (2010) 'Recommendations for Tree Work'

2. Erect Temporary Tree Protective Fencing

1. Prior to commencement of any 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. Photographic evidence of tree protective fencing will be issued to WCBC Tree Officer for approval upon completion. Any damage occurring to protective fencing during the development phase shall be made good by the main contractor.

3. Install Temporary Ground Protection Boards for Construction Plant/Materials

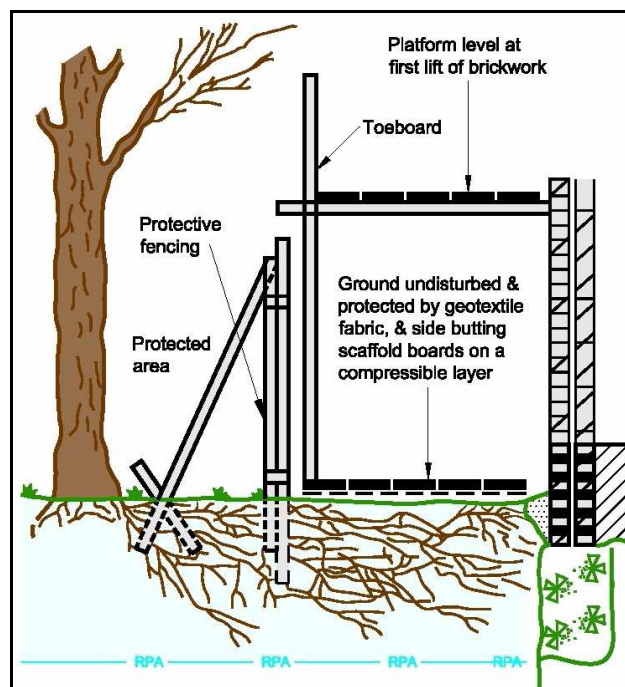
1. Prior to commencement of any development or plant and materials being brought onto site ground protection must be installed where indicated with a Cyan hatch on the Tree Protection Plan at **Appendix 1**
2. The ground protection measures must be capable of supporting the expected plant loads and evenly distribute the carried weight over the track width in order to avoiding rutting, compaction and damage to the soil.
3. Temporary ground protection materials shall be delivered and moved by low impact tracked machinery and installed by hand
4. The ground protection will involve the use of a bog mats or ground guards to be agreed with the LPA
5. The ground beneath the mats 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 or wood chip



P1 – Example of ground guards used for plant access within RPA of trees

4. Install Ground Protection for Meeting Room

1. Prior to commencement of any development ground protection shall be installed where indicated with an orange hatch on the Tree Protection Plan at **Appendix 1**
2. Ground protection shall be installed in accordance with the specification in plate 1 below.
3. 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
4. Boards will remain in-situ until the construction of the building has been completed



P2 - protective boards & scaffolding to be installed

5. Excavation of Foundations within RPA of T5

1. Excavation work on northern gable that encroaches within the RPA of tree number 5 is to be undertaken under the direct supervision of the Arboricultural Clerk of Works (ACoW)
2. Any roots encountered during excavation are to be cleanly pruned back to the next available inner node by the ACoW using hand saw or secateurs
3. No roots are to be left exposed at any time

6. 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. Any damage to trees as a result of construction/engineering work will be logged and reported to the project ACoW

Avoiding Damage to Stems and Branches

- 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

Cement Mixing

- The cement mixer will be laid on top of plywood boards in a position outside the RPA of any trees. The mixer will be kept in this position throughout all development work.

On Site Storage of Spoil and Building Materials

- Prior to and during all site construction works no spoil will be stored within the Root Protection Area of 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 by the prior agreement of Wrexham Council Arboricultural Officer.

7. Remove all Temporary Tree Protective Fencing

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

8. Landscaping within RPA of Trees

1. There shall be **no rotovating** of ground within any area designated as a Root Protection Area (RPA) and Construction Exclusion Zone (CEZ) and enclosed by Temporary Protective Fencing.
2. Other than the approved works, there should be no additional 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.

9. ARBORICULTURAL SITE SUPERVISION

1. The project ACoW shall attend a pre-contract meeting and provide a tool-box talk on tree protective measures to be implemented in accordance with the approved method statement (AMS)
2. Prior to commencement of any site demolition and subsequent construction work, Tree Solutions shall inspect the erection of all tree protection measures outlined in this AMS and as indicated on the Tree Protection Plan. Photographic evidence of the location and specification of all protective fencing will be forwarded to the Wrexham County Borough Council Tree Officer upon completion together with a signed off completion form
3. All proposed work within any designated RPA will be overseen by the Tree Solutions with photographic records taken and signed inspection report emailed direct to the LPA for approval
4. The project ACoW to undertake monthly site inspections for the first 3 months and then every second month for the duration of the project

Arboricultural Clerk of Works (ACoW)

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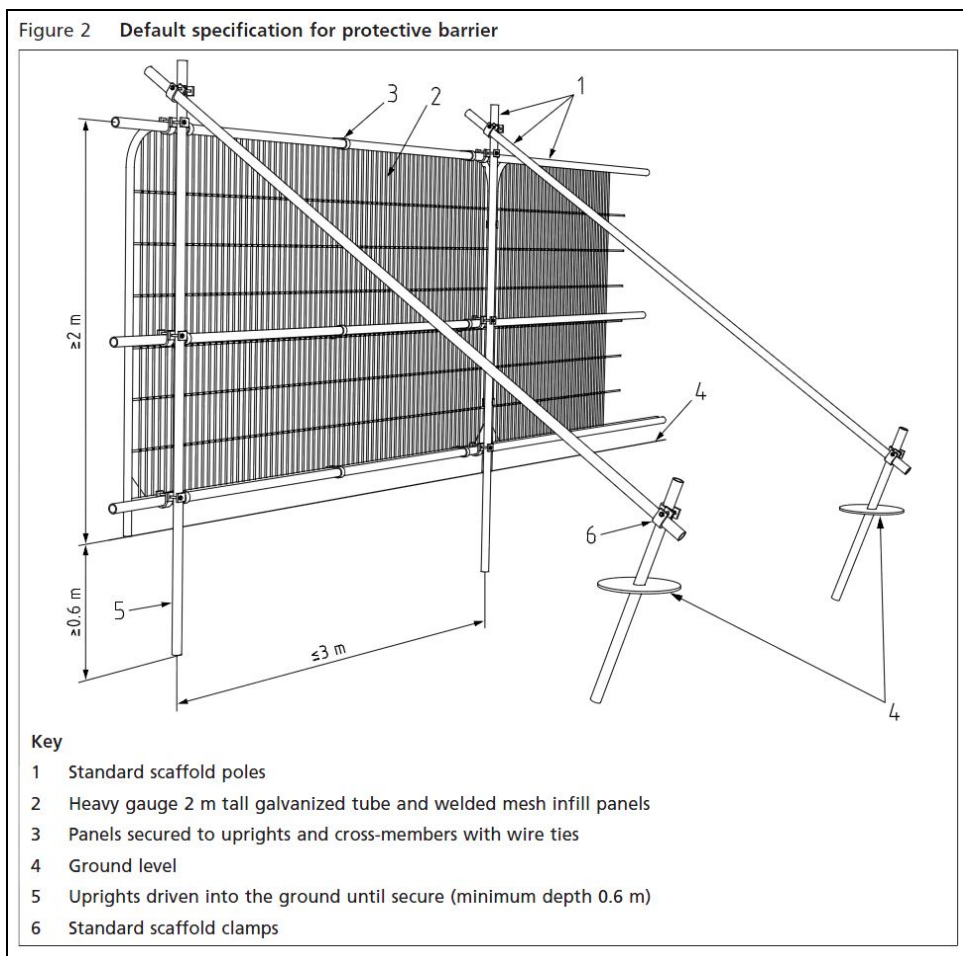
TREE PROTECTIVE FENCING

- 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.
- 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 daily; 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 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**



Tree Protective Fencing Specification

Appendix One
Tree Protection Plan

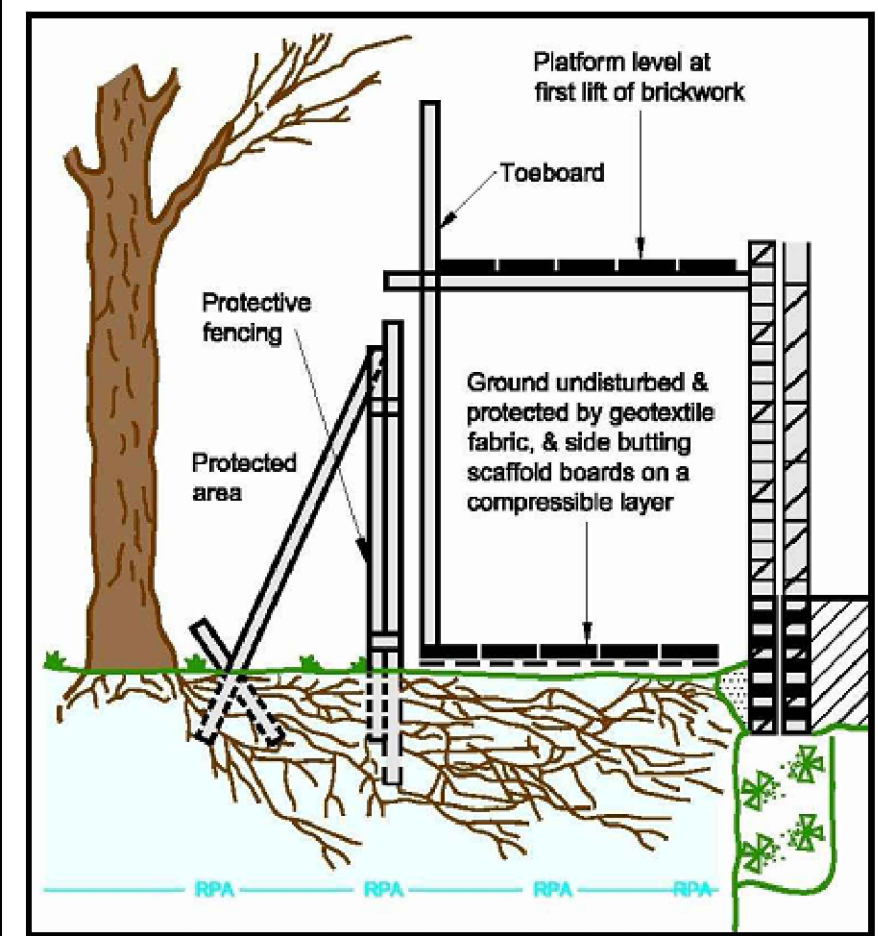
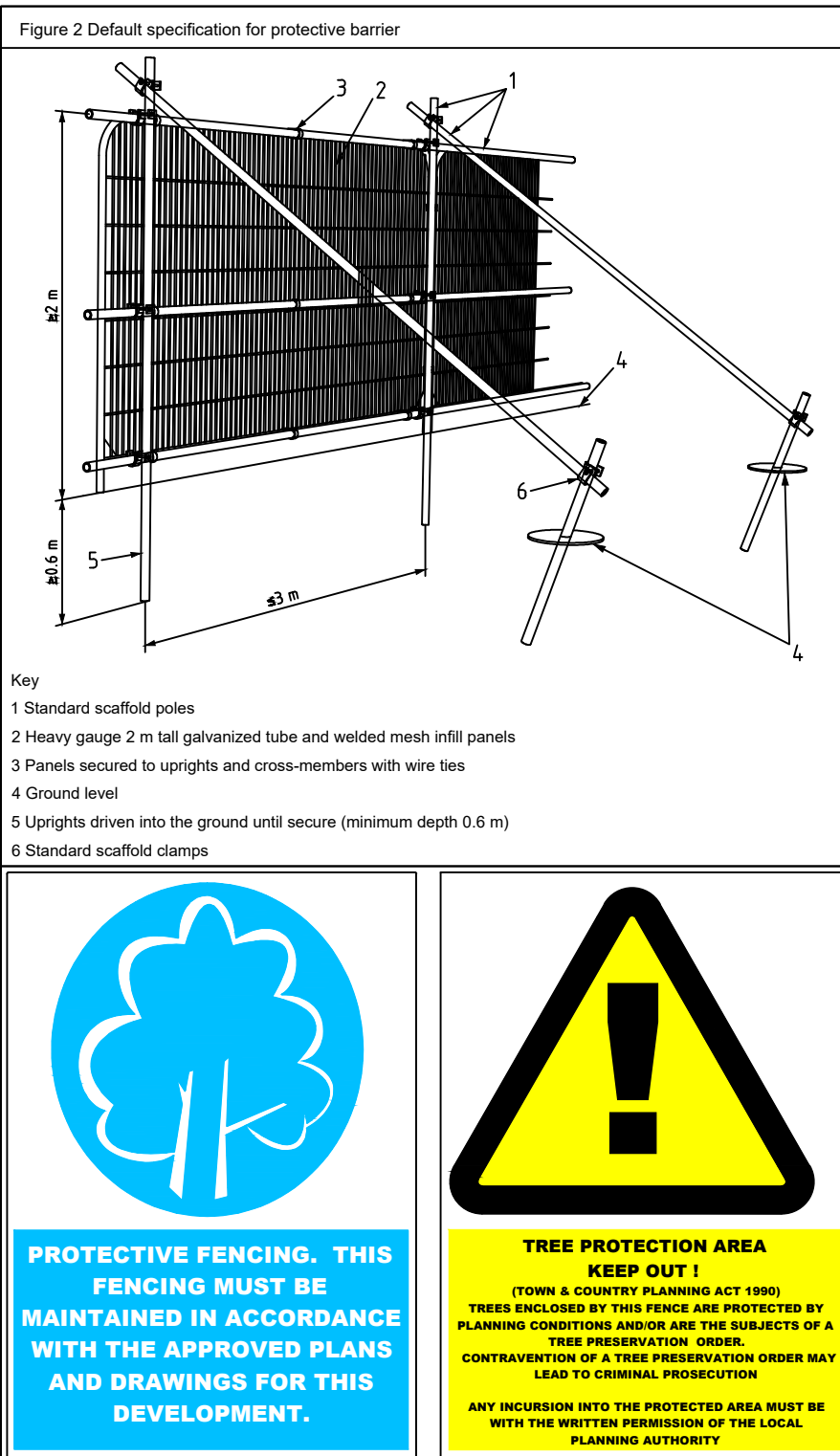


Figure 1 - protective boards & scaffolding to be installed within RPA

'No-Dig' Hard Surface Construction

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 Arboriculturalist.

The new surfacing in the hatched area shall be constructed using the "Geoweb" Cellular Confinement System to enable adequate load bearing capacity to be achieved with minimal depth of construction. All aggregates used in the construction shall contain no-fines, crushed gritstone or sandstone.

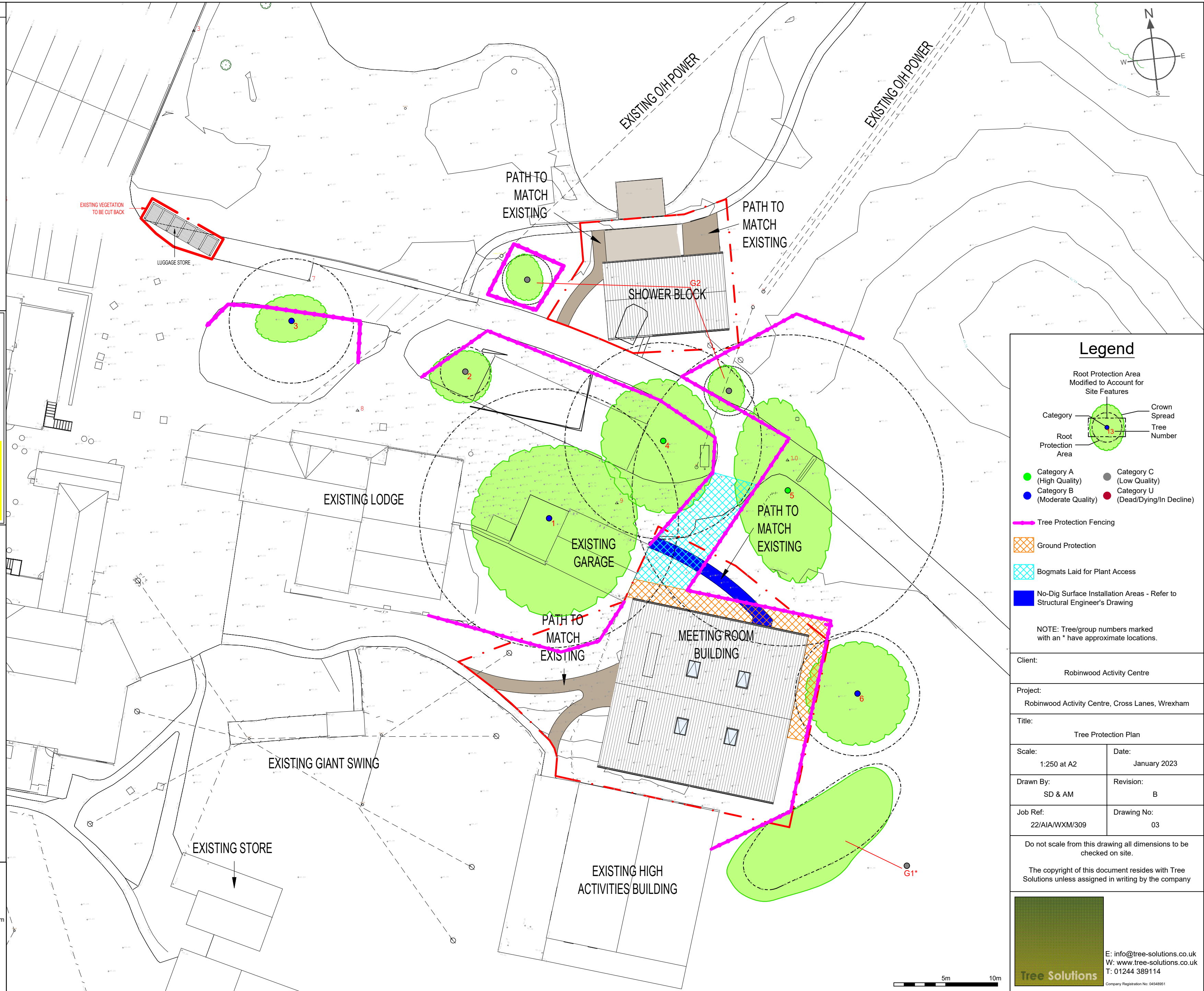
Limestone shall not be used.

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 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.



Appendix Two
Tree Protection Sign



**PROTECTIVE FENCING. THIS
FENCING MUST BE
MAINTAINED IN ACCORDANCE
WITH THE APPROVED PLANS
AND DRAWINGS FOR THIS
DEVELOPMENT.**



**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**