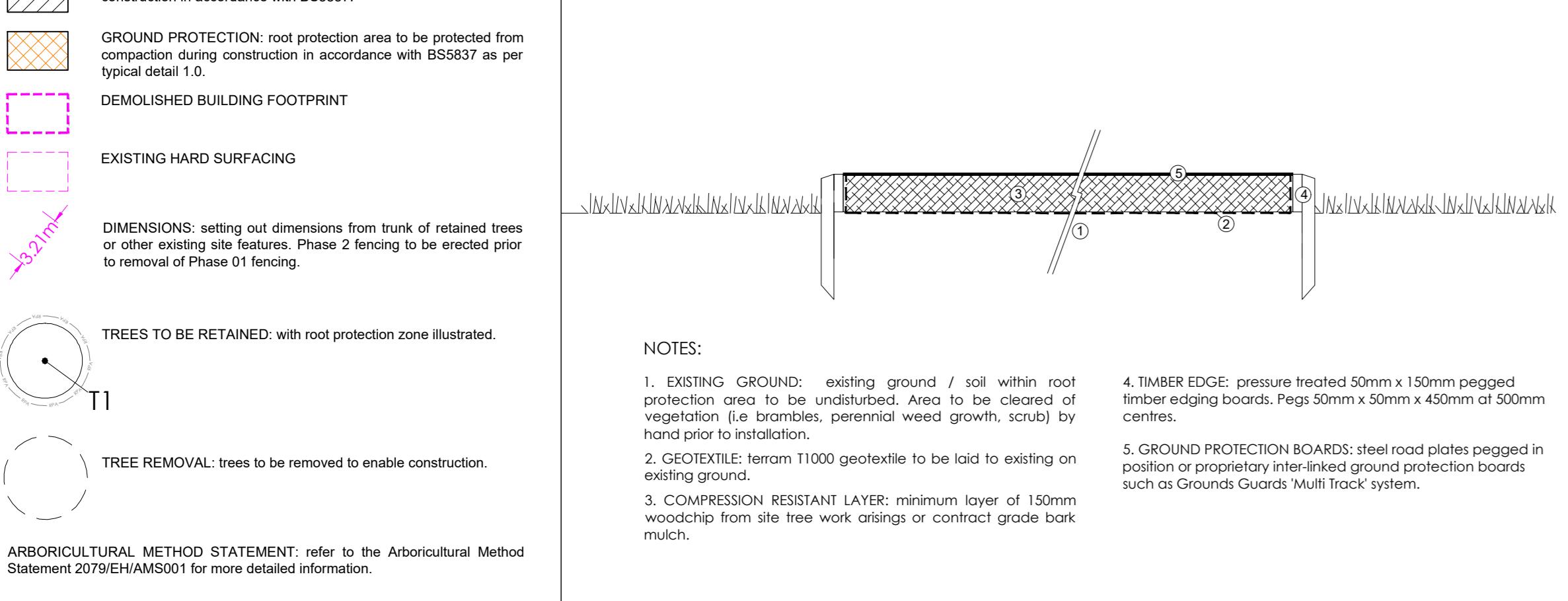


LEGEND: TREE PROTECTION TO BS 5837:2012	
	TREE PROTECTION FENCE: Phase 1 fencing to be constructed in accordance with BS5837 prior to commencement.
	CONSTRUCTION EXCLUSION ZONE: to be protected from construction in accordance with BS5837.
	GROUND PROTECTION: not protection area to be protected from compaction during construction in accordance with BS5837 as per typical detail 1.0.
	DEMOLISHED BUILDING FOOTPRINT
	EXISTING HARD SURFACING
	DIMENSIONS: setting out dimensions from trunk of retained trees or other existing site features. Phase 2 fencing to be erected prior to removal of Phase 01 fencing.
	TREES TO BE RETAINED: with root protection zone illustrated.
	TREE REMOVAL: trees to be removed to enable construction.
	ARBICULTURAL METHOD STATEMENT: refer to the Arboricultural Method Statement 2079/EH/AMS001 for more detailed information.

## 1.0 TEMPORARY TREE GROUND PROTECTION: Pedestrian operated plant < 2 tonnes (Scale 1:20)



ARBICULTURAL METHOD STATEMENT: refer to the Arboricultural Method Statement 2079/EH/AMS001 for more detailed information.



### TREE PROTECTION NOTES:

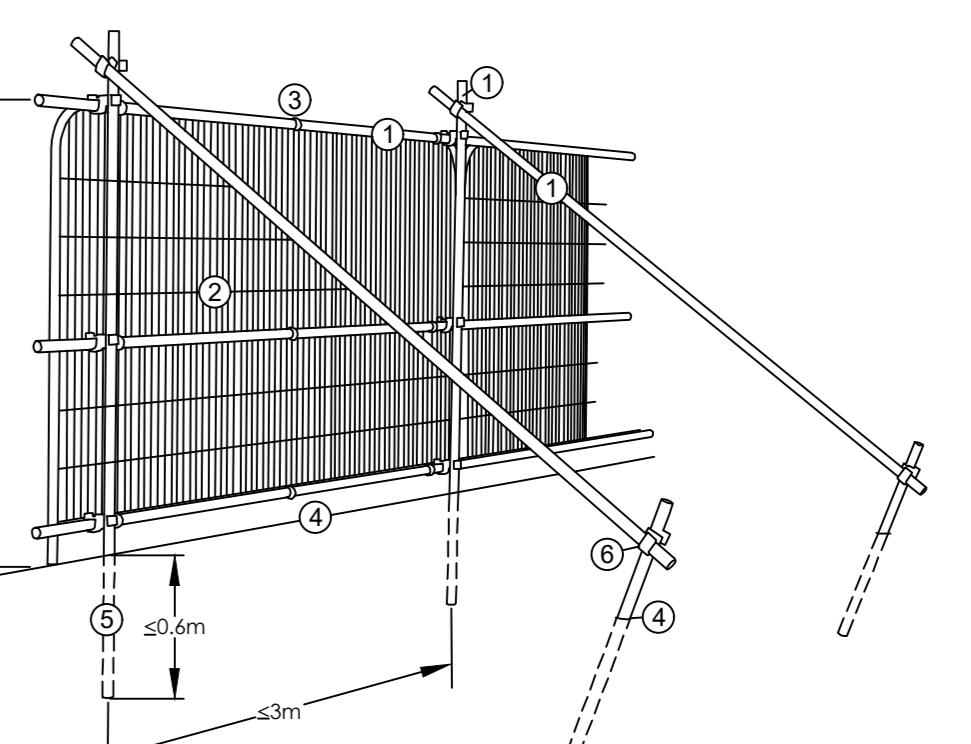
'Trees in relation to design demolition and construction' BS5837:2012

1.0 PRIOR TO COMMENCEMENT OF WORKS:

1.1 PRIOR TO COMMENCEMENT: all trees that are being retained onsite shall be protected by barriers and / or ground protection before any materials or machinery are brought onto the site and before any demolition, development or stripping of soil commences. This shall include trees associated with existing structures. Trees retained for retention shall be protected from damage by erection of scaffold framework barriers in accordance with BS 5837:2012 Figure 2 including where specified appropriate ground protection.

1.2 EXTENT OF ROOT PROTECTION AREA (RPA): as shown on the Tree Protection Plan (TPP) the RPA is generally to be in accordance with Annex D, Table D.1 Root Protection Areas. The RPA should be at a maximum interval of 3 metres and driven securely into the ground. Vertical tubes should be angled to avoid damage to the tree's roots and structural roots. In the presence of underground services, retained hard surfacing or where special circumstances dictate an alternative specification as illustrated in Figure 3 of BS5837:2012 may be acceptable subject to agreement with the project arboriculturist and the local planning authority.

All weather site notices should be attached to the barrier with words such as 'CONSTRUCTION EXCLUSION ZONE - NO ACCESS'. Once installed, barriers and ground protection shall not be removed or altered without prior approval of the project arboriculturist and where necessary approval from the local planning authority.



#### 1. Standard scaffold poles

1. Heavy gauge 2m tall galvanised tube and weld mesh infill panels
2. Heavy gauge 2m tall galvanised tube and wire mesh panels
3. Fixings to uprights and cross members with wire ties
4. Ground Level
5. Uprights driven into ground until secure (minimum depth 0.6m)
6. Standard scaffold clamps

#### 2.0 ADDITIONAL PRECAUTIONS:

2.1 Planning of site operations should take sufficient account of wide or tall loads, or plant with booms, lols or counterweights (including drilling & piling rigs) in order that they can operate without coming into contact with retained tree. The transit or traverse of plant in proximity to trees shall be conducted under supervision of a bankmaster to ensure clearances and correct working sequences. Access routes and working plans as agreed with the project arboriculturist and/or local authority should be undertaken where necessary to maintain clearance. NB Works to trees protected by a Tree Preservation Order or within a Conservation Area will need approval by the local authority.

2.2 Any materials whose accidental spillage would cause damage to a tree should be stored and handled well away from the outer edge of its RPA e.g. concrete mixings, diesel oil and vehicle washings. Allowance shall be made for sloping ground to avoid damaging materials running towards retained trees.

2.3 Flammable materials should be avoided. Where they are unavoidable, they should not be lit in a position where heat could affect foliage or branches. The potential size of a fire and wind direction should be taken into account when determining its location, and should be attended at all times until safe to leave.

2.4 Trees are not to be used as anchorages for equipment, or for other purposes. Notice boards, telephone cables, or other services should not be attached to any part of the tree.

2.5 The dumping of spoil or rubbish, placing of temporary accommodation and storage of materials within the root protection area is prohibited.

2.6 The change of ground level, excavating, stripping or disturbing topsoil within the RPA is prohibited.

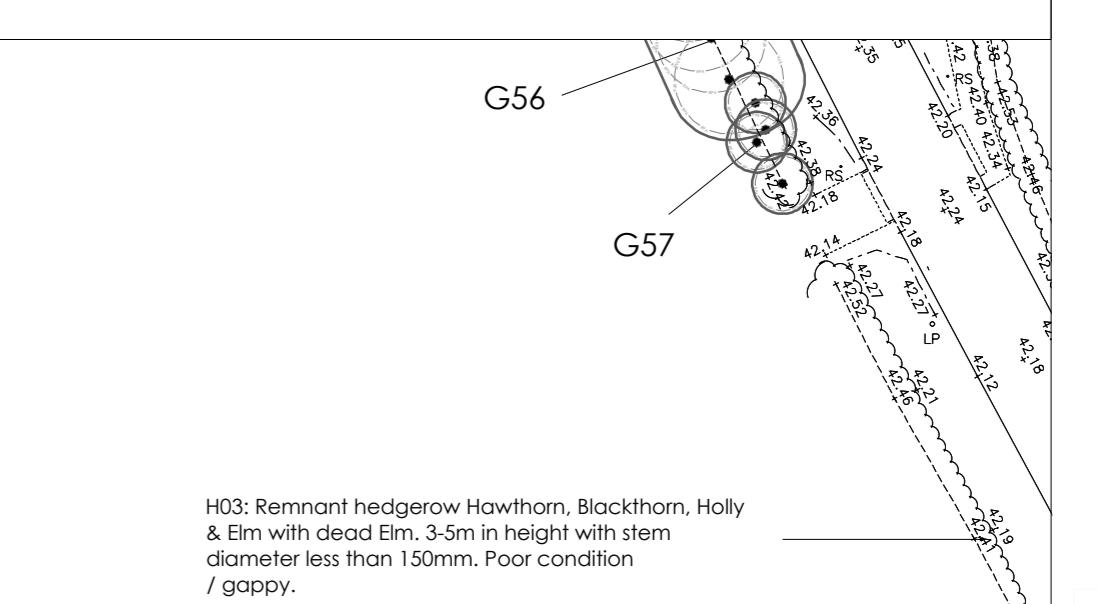
#### 3.0 GROUND PROTECTION DURING DEMOLITION & CONSTRUCTION

3.1 Where construction working space or temporary construction access is specified within the RPA, this should be facilitated by a set-back in the alignment of the protection from the outer edge of the root protection area. Existing ground surface that is not proposed for re-use as part of the finished design should be retained to act as temporary ground protection during construction, rather than being removed during demolition. The suitability of such surfaces for this purpose should be evaluated by the project arboriculturist and/or local authority.

3.2 Where the setback of the tree protection barrier exceeds unmade ground to construction damage, new temporary ground protection should be installed as part of the implementation of physical tree protection measures prior to work starting on site.

3.3 New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil, for example:

- a) for pedestrian movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, so as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geotextile membrane;
- b) for pedestrian-operated plant up to a gross weight of 2 t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geotextile membrane;
- c) for wheeled or tracked construction plant exceeding 2 t gross weight, an alternative system (e.g. heavy duty beams or precast reinforced concrete slabs) for an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected. If necessary sand should be laid on the ground as a compressible layer.



H03: Remnant hedge Rowan, Hawthorn, Blackthorn, Holly & Elm with dead stem, 3.5m in height with stem diameter less than 100mm. Poor condition / gappy.

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