

LEGEND: TREE PROTECTION TO BS 5837:2012

- TREE PROTECTION FENCE: to be constructed in accordance with BS5837 prior to commencement.
- CONSTRUCTION EXCLUSION ZONE: to be protected from construction in accordance with BS5837.
- REINFORCED SLOPE: slope adjacent to existing trees to be constructed using Gabiwall TRP complete with support and erosion control matting to engineers details.
- DEMOLISHED BUILDING FOOTPRINT
- EXISTING HARD SURFACING
- DIMENSIONS: setting out dimensions from trunk of retained trees or other existing site features.
- TREES TO BE RETAINED: with root protection zone illustrated.
- TREE REMOVAL: trees to be removed to enable construction.

ARBOCULTURAL METHOD STATEMENT: refer to the Arboricultural Method Statement C160: 011 (AS001) for more detailed information.

TREE PROTECTION NOTES:

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

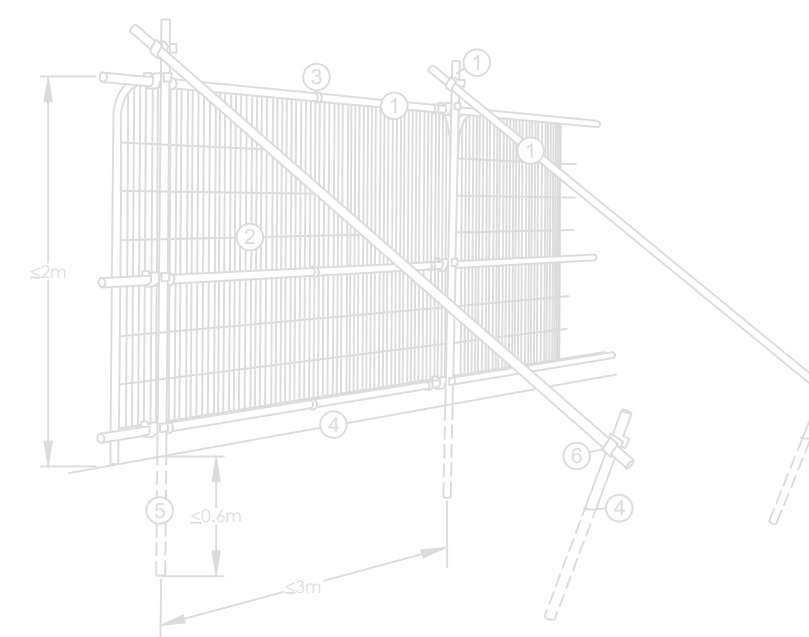
1.0 PRIOR TO COMMENCEMENT OF WORKS:

1.1 PRIOR TO COMMENCEMENT: all trees that are being retained onsite shall be protected by barriers and 1.0m ground protection before any machinery are brought onto the site, and before any demolition, development or siting of soil construction. The "Tree Protection Zone" (TPZ) associated with retaining trees designated for retention shall be protected from damage by erosion of scaffold framework barriers in accordance 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 Area" - as an area equivalent to a circle radius 12 times the stem diameter (single stem trees) or based on the combined stem diameter for retention trees (trees with more than one stem arising below 1.0m above ground level) refer to Clause 4.6.

1.3 TREE PROTECTION BARRIER: a vertical and horizontal scaffold framework will be used to resist impacts as illustrated below (refer to Figure 2 of BS5837:2012). The vertical tubes should be spaced at a maximum interval of 3 metres and driven vertically into the ground. Care should be taken to avoid underground services and contact with 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 arboriculturalist and the local planning authority.

As weather site notices should be attached to the barrier with words such as "CONSTRUCTION EXCLUSION ZONE - NO ACCESS". Once retained trees and ground protection shall not be removed or altered without prior approval of the project arboriculturalist and where necessary approval from the local planning authority.



1. Standard scaffold poles
2. Heavy gauge 200 x 100 galvanneal tube and wall mesh (10% gaps)
3. Poles secured to uprights and cross members with wire ties
4. Ground protection matting
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 wire or tall loads, or plant with booms, jibs or counterweights (including drilling & piling rigs) in order that they can operate without coming into contact with retained trees. The height or clearance of plant or proximity to trees shall be considered under supervision of a arboriculturalist to ensure adequate clearance from trees is maintained at all times. Access facilitation, including as agreed with the project arboriculturalist and/or local authority should be undertaken where necessary to maintain clearance. All Works to trees protected by a Tree Preservation Order or within a Conservation Area will need approval by the local authority.

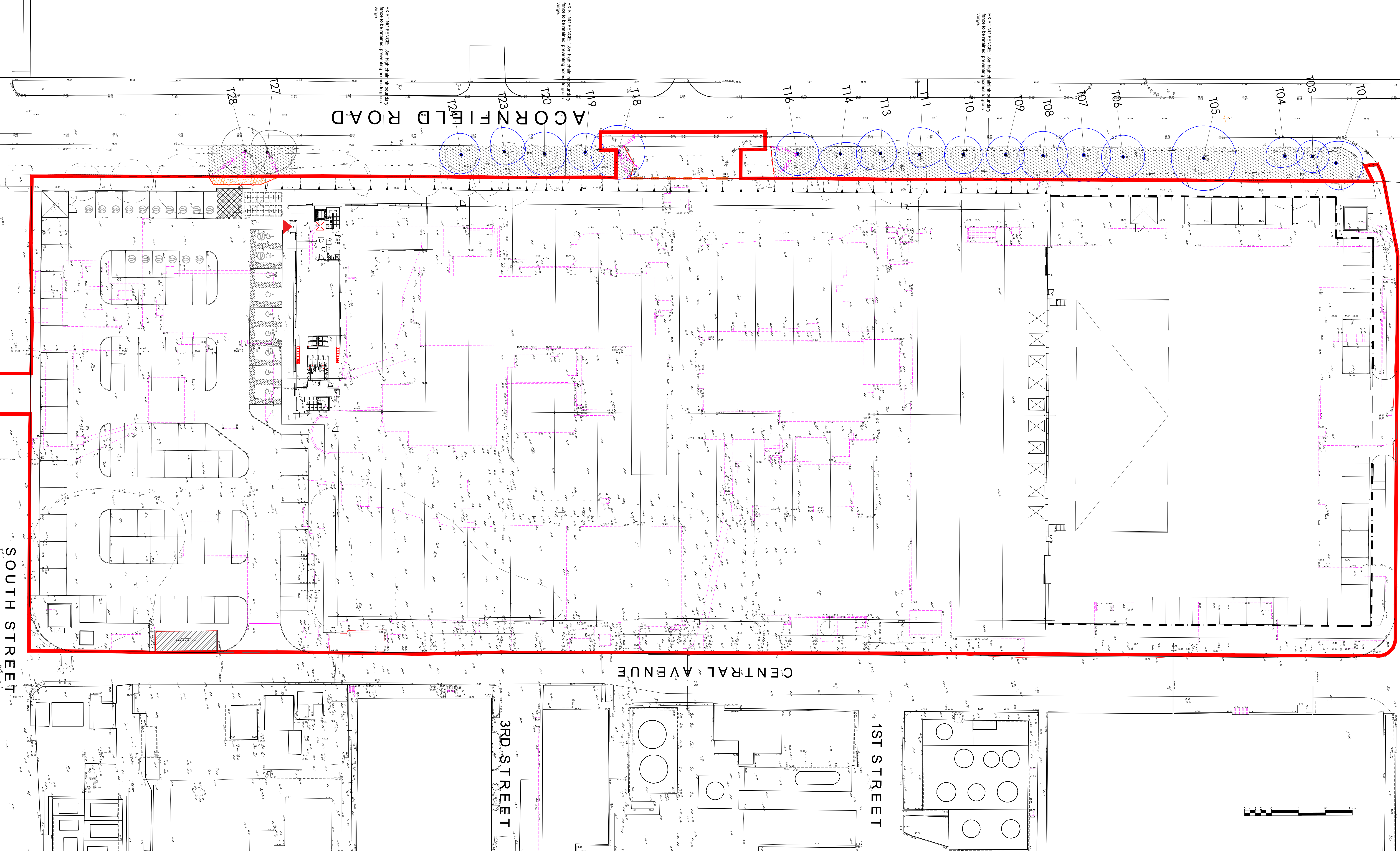
2.2 Any materials whose accidental spillage would cause damage to a tree should be stored and handled well away from the outer edge of the RPA e.g. concrete, masonry, shales or and vehicle washings. Allowance shall be made for sloping ground to avoid damaging material running towards retained trees.

2.3 Fires on site 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 identified at all times with safe to leave.

2.4 Trees are not to be used as endanchors 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, stopping or disturbing topsoil within the RPA is prohibited.

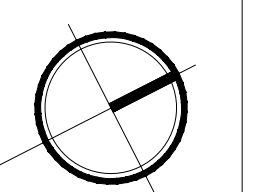


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rev	date:	amendments:	alt:
A	18/02/2022	Trees T02, T12 & T22 removed.	E.H
B	22/02/2022	Layout amended.	E.H
C	29/03/2023	Layout amended.	E.H



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landscape design ltd

client: KNOWSLEY IMAGE
BUSINESS PARK LTD

project:
SITE 3, IMAGE BUSINESS PARK
KNOWSLEY

title:
TREE PROTECTION PLAN

status:
PLANNING

date: AUG/21
scale: 1:250
drawn: E.C.H.
checked: T.G-W
number: 21-50-04
revision: C

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