

ARBORICULTURAL METHOD STATEMENT

A) PRELIMINARY MATTERS

1. Prior to any ground modelling, demolition or construction work on site, the approved tree works (see FLAC dwg. no. 45-1011.03 or for planning consent NB not Outline consent) shall be undertaken by tree contractors (not unskilled personnel)

2. No plant access is permitted for tree work operations within the root protection areas (RPAs) of retention trees, including areas identified for temporary ground protection

3. All approved tree removals shall be undertaken by tree contractors. Each tree shall be cut down to a low stump

4. Trees for removal within the RPA of retention trees shall have their stumps ground out (also by tree contractors)

5. Stumps from felled trees outside of RPAs of retained trees can be grubbed out

B) INSTALLATION OF PHYSICAL TREE PROTECTION MEASURES

6. Following completion of enabling tree works, each phase shall have its own **plan of physical tree protection measures** (i.e. Type 1, Type 2 and Type 3 protection) installed (i.e. no in-situ) in line with the principles of BS5837:2012. These measures comprise:

- Tree Protection Fencing (TPF) to BS5837:2012 Figure 2 (see FLAC Type 1 at Inset Sketch 1) fitted with all-weather warning signs (see elsewhere on plan)

- FLAC Type 2 TPF (see Inset Sketch 2), on secondary alignments to provide access for a) works behind the primary alignment but within the RPAs and b) where proximity to the boundary does not allow on-site space for Type 1 scaffold framework supports

FLAC Type 3 TPF (see Inset Sketch 3) comprising double height Type 1 TPF for enhanced protection of confirmed veteran trees and significant construction operations. Type 3 TPF to exclude construction access from Veteran Tree Buffers (VTBs)

7. The TPF to be installed on the primary alignment (as per dwg key) prior to any demolition, ground works and construction operations. It shall be left in situ throughout the relevant period. The use of secure fencing may take the place of tree protection fencing if it is a) suitably robust and b) provides no less protection for above and below ground tree constraints with the exception of Type 3 TPF, which will be installed wherever specified

C) PROHIBITIONS & PRECAUTIONS

8. The fencing, ground protection and any existing hard surfaces within the root protection area comprising the Construction Exclusion Zone. Within this zone, the following activities are strictly prohibited during primary demolition (other than as described below):

- Excavation / lowering of levels into rootable soil: removal of surface or organic matter using hand tools is acceptable; screening or reduction in depth of topsoil is not acceptable without written either RPAs or VTBs that are to be used for proposal drainage must not be cleaned, improved, re-graded or re-profiled

- Removal of existing hard surfaces (= secondary demolition): below

- Grubbing out of redundant structures (see below)

TREE PROTECTION PHASING SCHEDULE

The following phasing schedule shall be strictly adhered to:

1. Pre-start site meeting (refer to Arboricultural Method Statement)
2. Implementation of physical tree protection (= establishment of Construction Exclusion Zone)
3. Audit of adjustments to/installation of secondary tree protection measures by FLAC
4. Pre-work
5. Secondary construction including hard landscaping
6. ARB OVERWATCH BY FLAC FOR ANY OPERATIONS WITHIN CONSTRUCTION EXCLUSION ZONE (see Arboricultural Supervision Schedule)
7. Removal of physical tree protection measures
8. Soft landscaping
9. Post-completion tree condition check by FLAC

ARBORICULTURAL SUPERVISION SCHEDULE

- General**
- 1. Pre-start meeting with contractors
 - 2. Audit of enabling tree works & tree protection system, fence and ground protection
 - 3. 2x weekly visits
 - 4. 2x fortnightly visits
 - 5. 3x monthly visits
 - 6. Quarterly visits until completion, inc. of soft landscaping
 - 7. Adjustments of TPF from primary to secondary alignments
 - 8. All/any works within the root protection areas (RPAs) (see specific tasks below) including excavations for retaining wall north of access

ARBORICULTURAL SUPERVISION & REPORTING

14. All high risk operations (i.e. intra-RPA) require arboricultural supervision. Additionally ongoing inspection of the tree protection measures shall be provided whilst works are in progress. A schedule of supervision is provided elsewhere on this drawing.
- A WRITTEN & PHOTOGRAPHIC REPORT WILL BE PROVIDED WITHIN 5 WORKING DAYS OF EACH MONITORING VISIT

NO-DIG FOOTWAY/CYCLEWAY CONSTRUCTION USING THREE-DIMENSIONAL CELLULAR CONFINEMENT SYSTEM

In the position shown on this plan by the orange hatching, construction shall be undertaken over the existing ground **without excavation** using a proprietary three-dimensional cellular confinement system such as Geosynthetics/Cellweb.

The system shall comprise:

- 1. A porous geotextile membrane laid over the ground
- 2. A three-dimensional cellular confinement system opened out and fixed in place over the membrane
- 3. Earth reinforcement using sleepers or pinned kerb stones placed on the existing surface
- 4. Crushed, angular stone (20-40mm) with no-fines filled into the cells
- 5. Permeable resin-bonded gravel or other permeable wearing course over the aggregate to allow gaseous exchange and water infiltration

NOTES: There shall be no construction access over unprotected ground in the locations shown.

The work shall be undertaken during the landscaping phase (see separate box relating to landscaping) after all other construction has been completed

A DETAILED SITE-SPECIFIC CONSTRUCTION DESIGN SHALL BE PREPARED BY AN ENGINEER OR PRODUCT MANUFACTURER PRIOR TO INSTALLATION

LANDSCAPING WITHIN RPAs

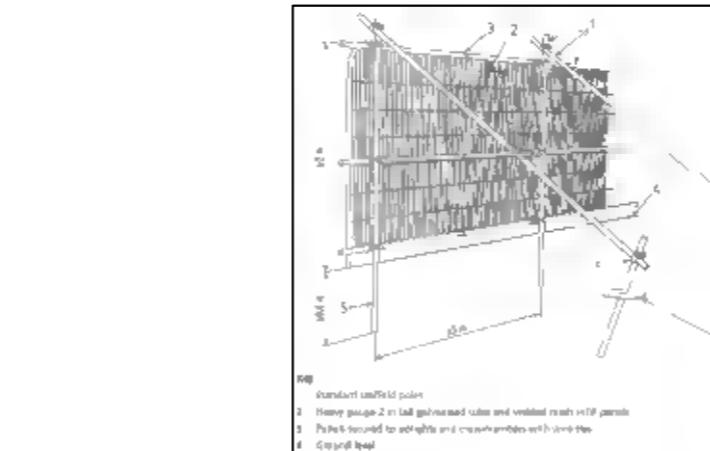
After primary construction has been completed the Tree Protection Fencing shall be removed to allow landscaping to take place.

Prior to landscaping commencing the project arboriculturist shall meet the landscape contractors to discuss what is proposed and precautions required.

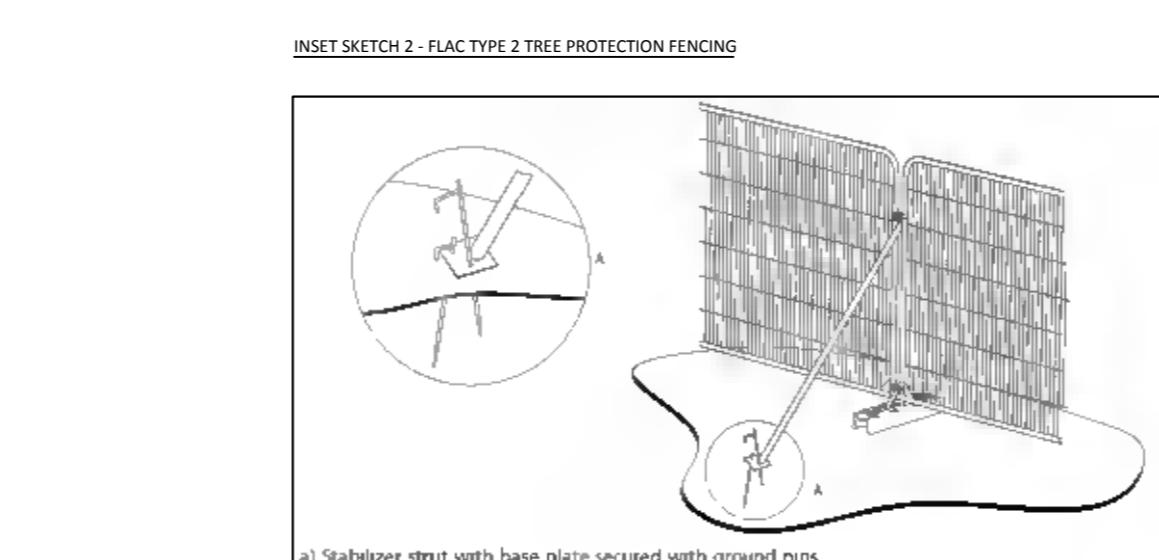
The following principles shall be followed within the RPA of retained trees:

- 1. Planning of operations should take sufficient account of wide loads, roll loads and plant with booms, jibs and counterweights (including lifting rigs), in order that they do not damage trees or roots. Such contact can result in serious damage to trees and might make their safe retention impossible.
- 2. Consequently, any transit or storage of plant in proximity to trees should be undertaken under the supervision of a bonsman, to ensure that adequate clearance from trees is maintained at all times. Access facilitation pruning should be undertaken where necessary to maintain this clearance
- 3. No machinery shall pass over the ground unless protected by existing hard surface or temporary ground protection
- 4. If excavation is required, this shall be localised and undertaken carefully by hand tools only ensuring that roots are preserved
- 5. There shall be no changes in levels, unless agreed by the project arboriculturist

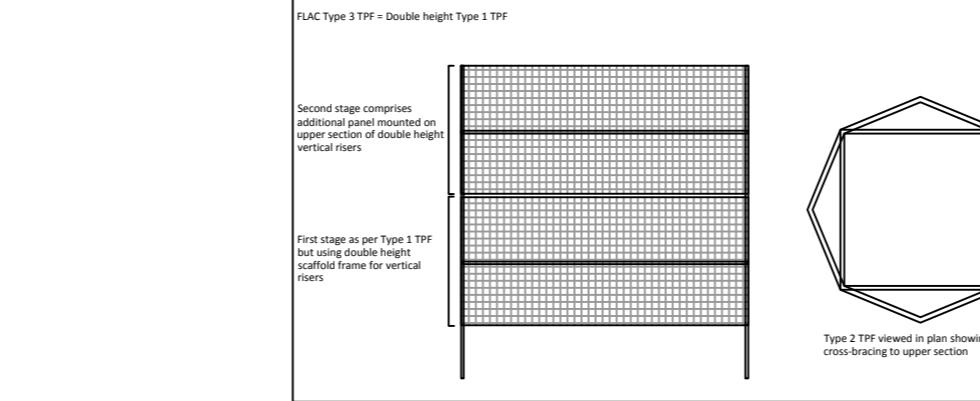
INSET SKETCH 1 - FLAC TYPE 1 TREE PROTECTION FENCING



INSET SKETCH 2 - FLAC TYPE 2 TREE PROTECTION FENCING



INSET SKETCH 3 - FLAC TYPE 3 TREE PROTECTION FENCING



EXAMPLE ALERT & PROHIBITION SIGN TO BE FITTED TO TREE PROTECTION FENCING



OUTLINE ARBORICULTURAL MANAGEMENT PLAN (HEADS OF TERMS)

Outline Arboricultural Management Plan (Head of Terms)</



Transport Planning | Flood & Water Management | Civil Engineering

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