

ARBORICULTURAL METHOD STATEMENT (AMS)

JANUARY 2025

Lawford Boarding Kennels

Greensbridge Lane

Tarbock Green

Liverpool

L35 1QH

U R B A N
G R E E N

QUALITY MANAGEMENT

Project No.:	UG2172			
Project:	Lawford Boarding Kennels, Tarbock Green			
Location:	Greensbridge Lane, Halewood, Tarbock Green, Liverpool, L35 1QH			
Title:	Arboricultural Method Statement			
Document Type:	BS 5837: 2012			
Date:	02/08/2024			
Prepared By:	Adam Hodgins			
Checked By:	Helen Millner			
Revision Status:				
Rev:	Date:	Issue/Purpose/ Comment:	Prepared:	Checked:
01	15/08/2024	Client comments	AH	HM
02	28/01/2025	Updated proposal	AH	HL

Arboricultural Method Statement (AMS)
Lawford Boarding Kennels, Greensbridge
Lane, Tarbock Green, Liverpool, L35 1QH

Construction work in close proximity to important trees, or within the Root Protection Area (RPA) of tree(s) due to be retained were identified within the Arboricultural Impact Assessment (AIA)
UG_2172_ARB_AIA_01_REV_03_FINAL.

This AMS should be read in conjunction with the Tree Protection Plan (UG_2172_ARB_TPP_01_REV_03), as it cross-references the Tree Protection Plan for each specific area of work.

The AMS aims to provide general guidelines to onsite personnel that must be followed when working close to trees on construction sites.

All site personnel should have access to this document and be made aware of any sections that may be relevant to their specific area of work.

It is essential to adhere to the recommendations within this document during on-site operations to ensure the successful retention of trees as part of the proposed development.

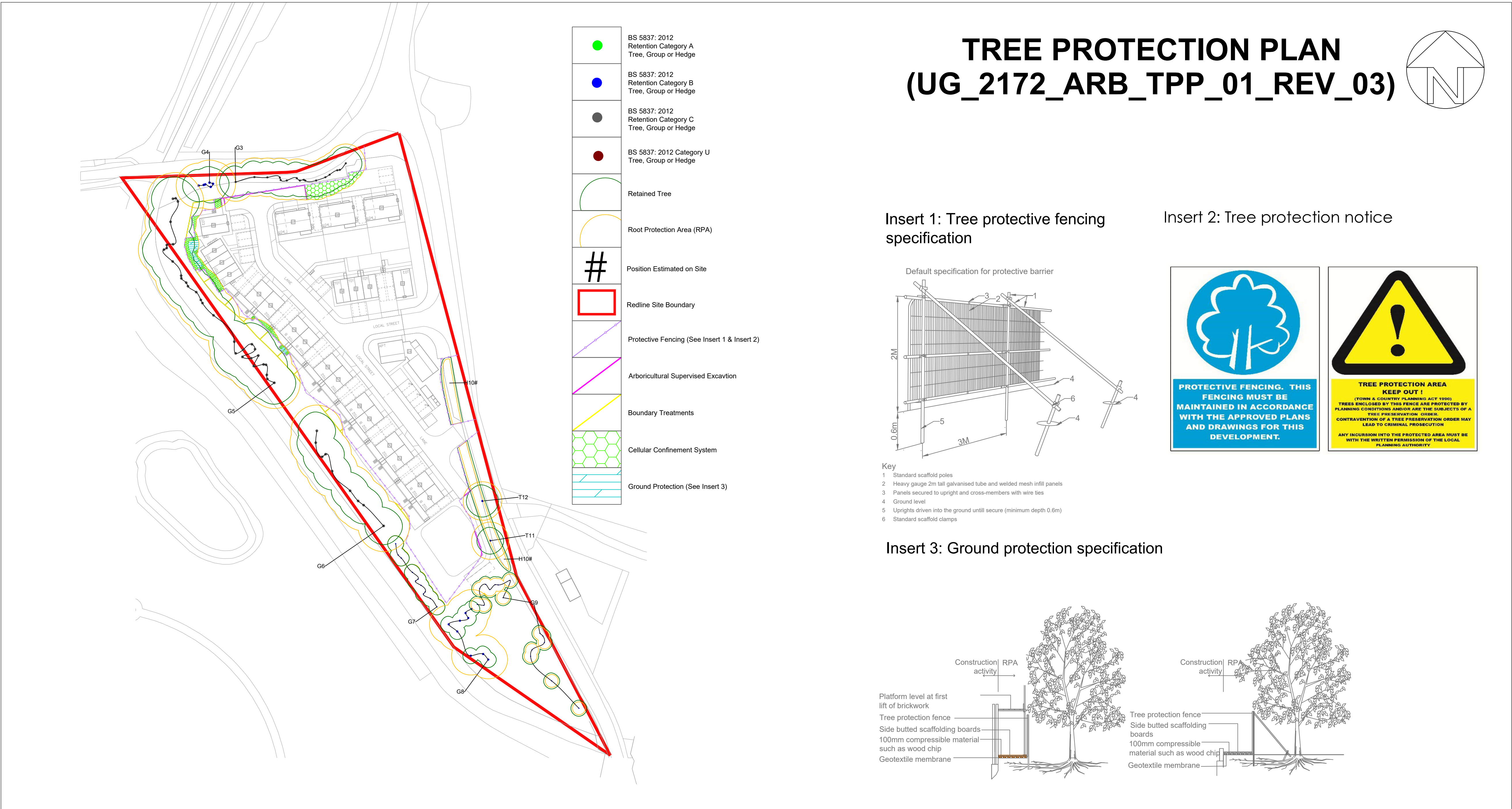
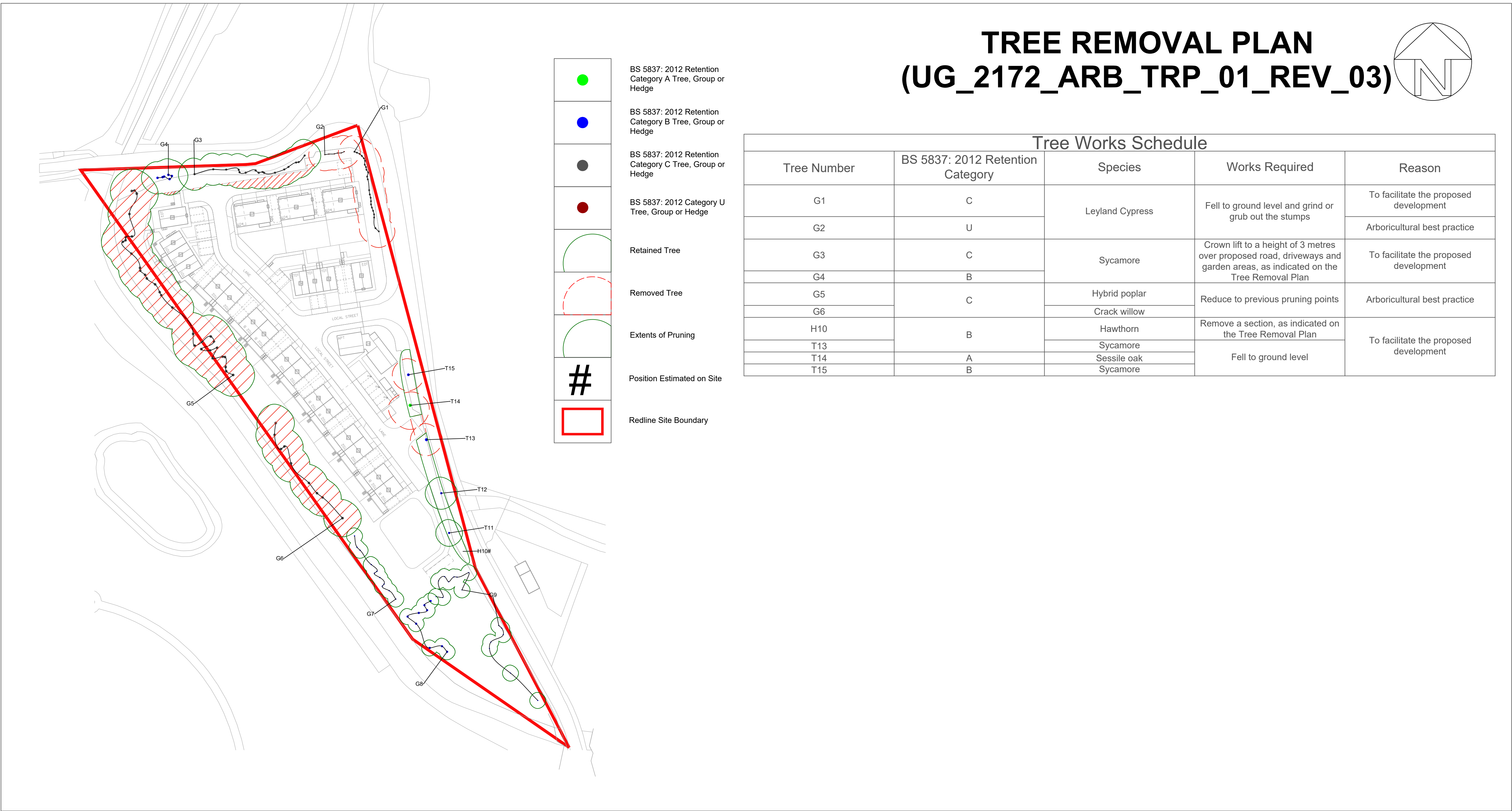
Compliance with the AMS will be a requirement of all relevant contracts associated with the proposed development.

Protective Fencing

- Temporary protective fencing will need to be installed at the alligment indicated on the Tree Protection Plan in Appendix 4, of the AIA UG_2172_ARB_01_REV_01, prior to the commencement of any construction activities on site including the delivery of materials and site facilities.
- Any fencing that is damaged so that it is no longer able to protect retained trees must be replaced/repaired immediately with appropriate fencing at the alignment indicated on the Tree Protection Plan.
- The `in-ground` system involves driving vertical scaffold poles approximately 0.6m into the ground onto which are affixed horizontal scaffold poles and bracing struts. 2m high anti-climb weldmesh panels are then wired to the scaffold framework. The vertical scaffold poles should be at a maximum 3m apart,
- No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to the tree roots when locating uprights.
- A 600mm x 300mm warning sigh reading `TREE PROTECTION AREA KEEP OUT` shall be fixed to every 10m of protective fencing.

Ground Protection

- The primary method of ground protection is the installation of a compressible layer (e.g. woodchip) over a geotextile fabric with side butting scaffold boards.
- Ground protection measures whilst working within the RPA must be capable of supporting the expected loads and avoid compaction of the soil.
- The boarding will be left in place until the construction works are finished.
- Scaffolding may first be erected with the uprights on spreader boards and the ground protection installed around the uprights.



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Graphical representations of equipment on this drawing have been co-ordinated, but are approximations only. Please refer to the specifications and / or details for actual sizes and / or specific contractor construction information.

Notes:-

02	28/01/25	UPDATED PROPOSAL	AH	HL
01	15/08/24	CLIENT COMMENTS	AH	HM
REV.	DATE	DESCRIPTION	DRAWN	CHK'D

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Client:

MR. JOHN MORGAN

Project:

LAWFORD BOARDING
KENNELS, TARBOCK GREEN

Title:

ARBORICULTURAL
METHOD STATEMENT

Issue:

PLANNING

Drawn:	AH	Checked:	HM	Approved:	HM
Project:	UG2172	Scale @ A0:	N/A	Date:	02/08/24
Dwg No:	UG_2172_ARB_AMS_01	Revision:	02		

Cellular Confinement System

The new surface must utilise a Cellular Confinement system to avoid compaction and undue damage to the rooting environment.

The four general principles that will require strictly upholding when designing a no dig solution within the RPA are:

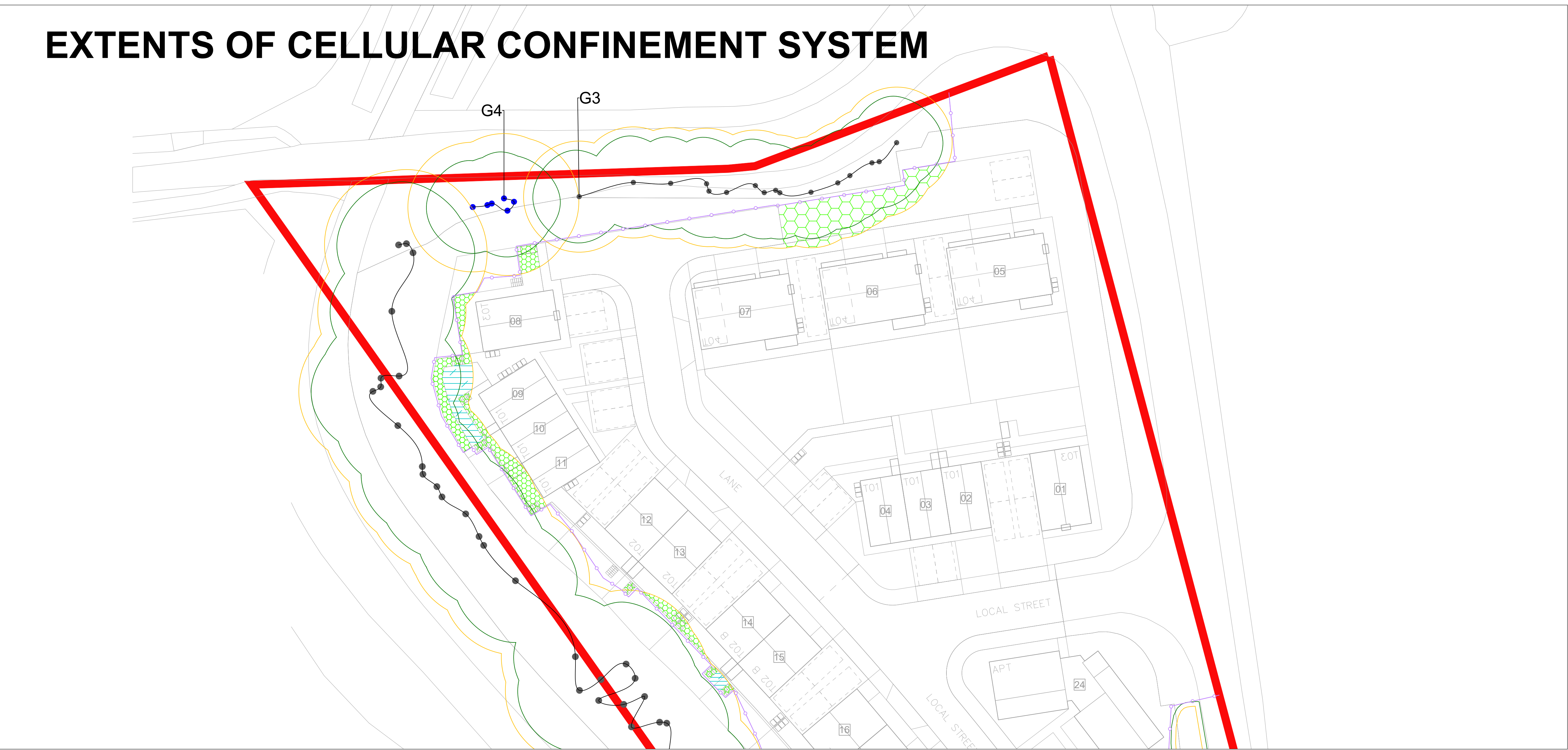
- Roots must not be severed.
- Ground Levels must not be changed.
- Soil structure must not be damaged by compaction.
- Oxygen and water must be able to diffuse into the soil below.

A Cellular Confinement system will ensure that no excavation is required. This will therefore lead to an increase in ground levels.

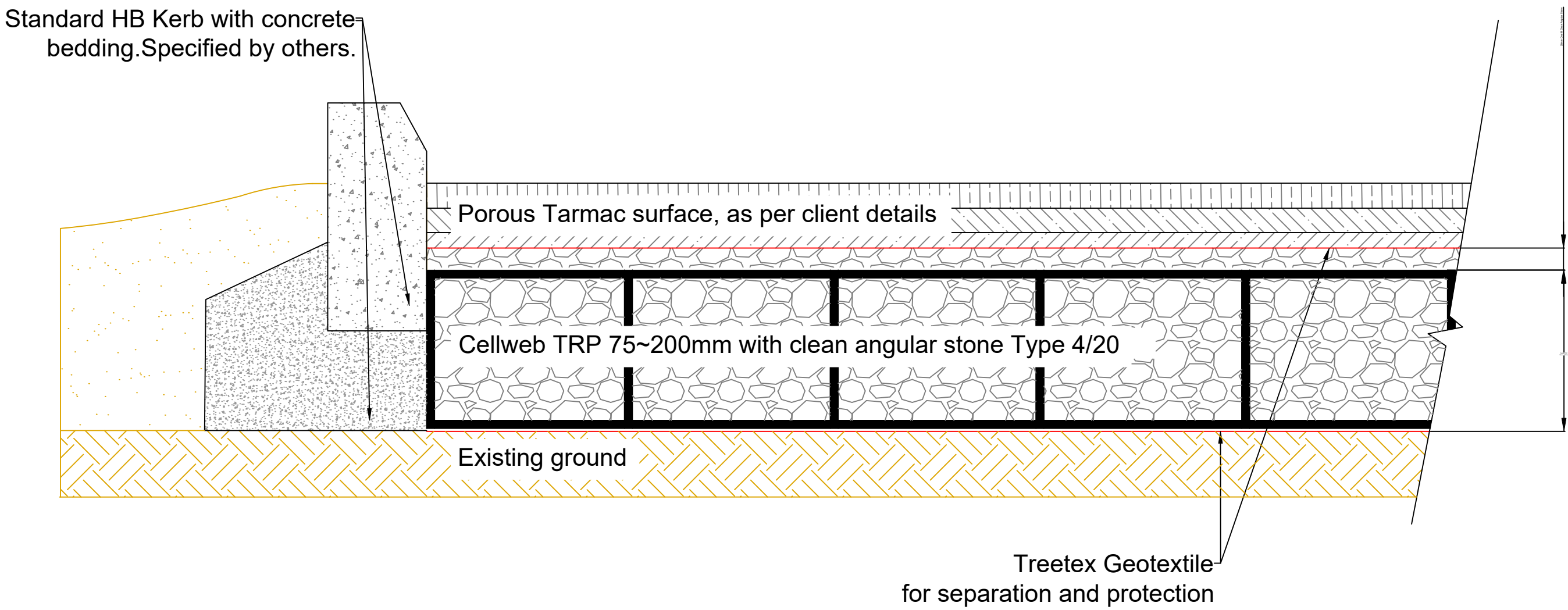
The sequence of events for the installation of the Cellular Confinement system will be as follows:

- 1.Remove the surface vegetation within the footprint of the roadway up to 50mm.
- 2.A 40mm layer of washed sharp sand containing no fines or salt will be spread across the footprint of the roadway filling any hollows. High points must not be compacted though rolling.
- 3.Appropriate kerbing/edging will be set above ground level. The cellular confinement system may be retained using pins that are driven into the ground and supported by treated timber edging.
- 4.A geotextile membrane will be laid over the footprint of the roadway with each section overlapping by a minimum of 300mm.
- 5.Open out and lay the specified layer thickness of cellular (to be confirmed by product manufacturer and engineer) and pin in place between the edging boards. It may be necessary to cut the cellular confinement system to size using a sharp knife or it can be left uncut and folded up against the edgings if preferred.
- 6.Ensure that the cells are fully expanded by inserting steel fixing pins at approximately 1-2m spacings (depending on specific engineering requirements). Avoid tree root damage during the pinning process.
- 7.The cells must be filled with clean, open graded angular aggregate, normally in the particle size range of 5mm - 45mm, not single sized or rounded aggregate. The project engineer may determine alternative fill materials.
- 8.Do not roll the surface, a light vibratory compaction plate (whacker) may be permitted to settle the stone into the cells. Do not contaminate the filled cells with site debris, soil or mud.
- 9.Install the permeable pavement layer/wearing course.

EXTENTS OF CELLULAR CONFINEMENT SYSTEM

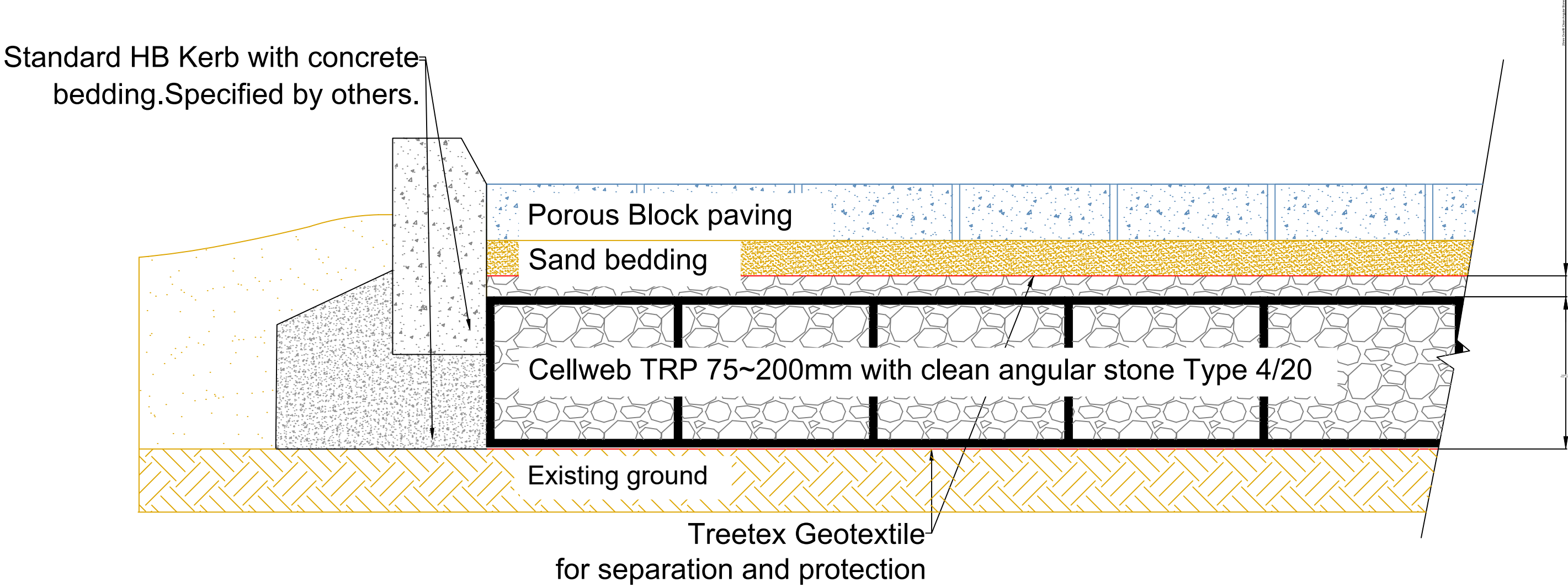


Cellweb 75~200mm Porous Tarmac Surface Standard Detail



Note: Subbase could be required depending on the existing ground CBR % and the type of traffic on the surface.

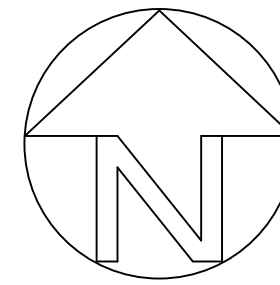
Cellweb 75~200mm Porus Paving Standard Detail



Note: Subbase could be required depending on the existing ground CBR % and the type of traffic on the surface.

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Notes:-



	BS 5837: 2012 Retention Category A Tree, Group or Hedge
	BS 5837: 2012 Retention Category B Tree, Group or Hedge
	BS 5837: 2012 Retention Category C Tree, Group or Hedge
	BS 5837: 2012 Category U Tree, Group or Hedge
	Retained Tree
	Root Protection Area (RPA)
	Redline Site Boundary
	Protective Fencing (See Insert 1 & Insert 2)
	Cellular Confinement System
	Ground Protection (See Insert 3)

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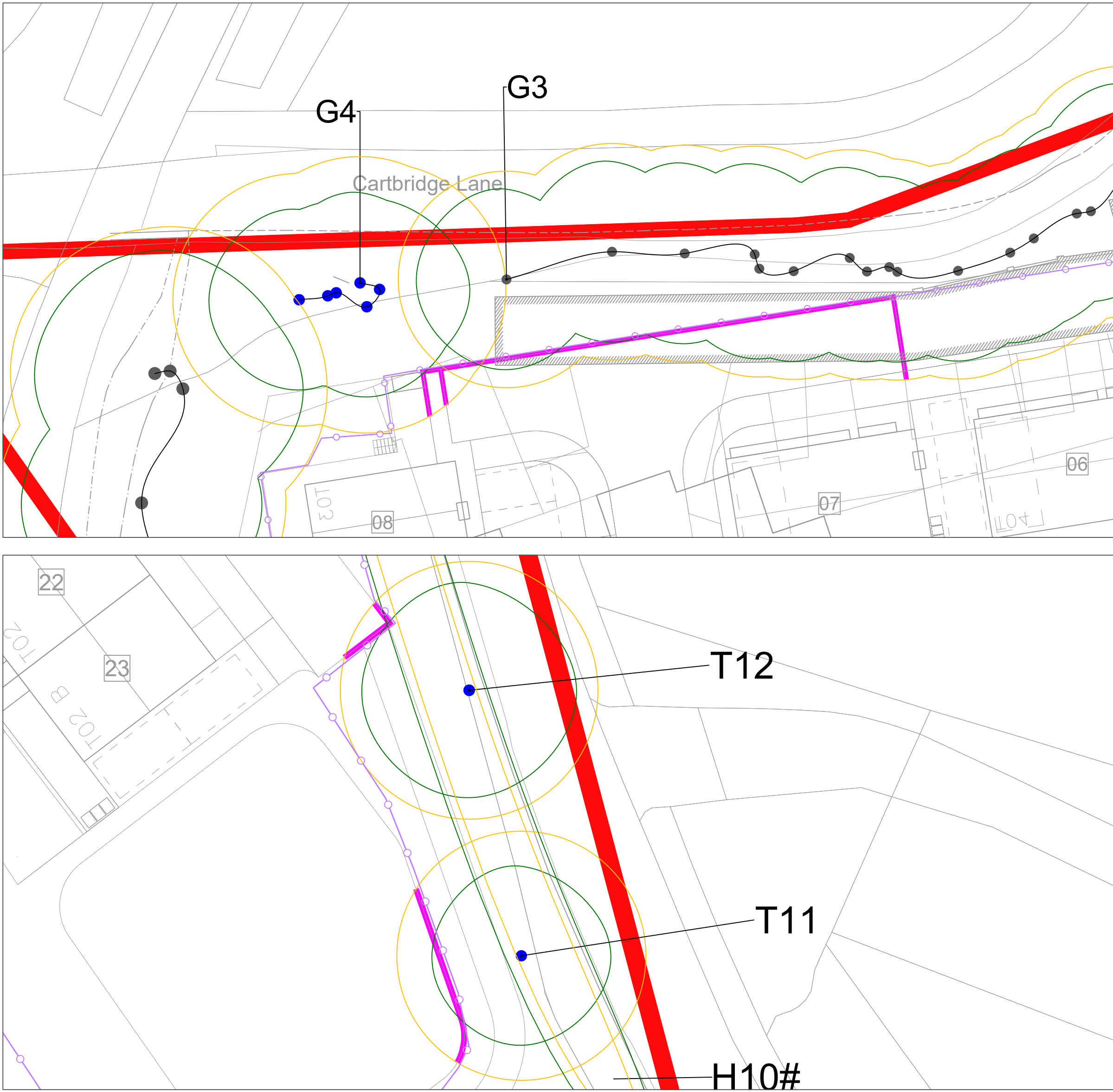
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Arboricultural Supervised
Excavations and Root Pruning

1. Any necessary excavation must be carried out using hand tools to avoid direct damage to the protective bark of tree roots. It may be possible in some instances to use specialised equipment such as high air pressure machinery to excavate the soil with minimal disturbance to roots.
2. Exposed roots will be wrapped in dry, clean Hessian sacking to prevent desiccation and to protect from rapid temperature changes. In warmer weather, the sacking should be kept moist by regular watering. Sacking should be removed before backfilling.
3. Roots less than 25mm diameter may be pruned back, preferably to a growing point. A sharp cutting tool such as bypass secateurs or a handsaw should be used to leave the smallest wound possible. Roots greater than 25mm in diameter should be retained wherever possible.
4. Root pruning should be carried out under the supervision of the Arboricultural Consultant to ensure that only roots necessary to facilitate the development will be removed and the long-term well-being of retained trees is maintained.
5. Backfilling of any excavation should be carried out by hand to avoid direct root damage by excessive compaction and should include, where possible, the replacement of inert granular material mixed with sharp sand (not builder's sand) around retained roots.



EXTENTS OF ARBORICULTURAL
SUPERVISED EXCAVATION



Boundary Treatments

1. Where fencing is to be installed within RPAs of retained trees, post holes will be excavated by hand and kept as narrow as possible. Trial holes will be dug using a manually operated soil augur in order to position post holes to avoid major roots.
2. Exploratory post holes will be dug before committing to positions. If any roots in excess of 25mm are encountered they are to remain intact and the post hole will be relocated to avoid them. The fencing system must permit such flexibility (i.e. where fixed panel widths are used, all post holes must be excavated before committing to the final location)
3. All post holes will be excavated by hand and kept as narrow as possible (maximum diameter 300mm).
4. Any roots in excess of 10mm which are severed will be neatly pruned back with secateurs. This will encourage healing and reduce the likelihood of infection.



EXTENTS OF BOUNDARY TREATMENTS



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Retention Category A
Tree, Group or Hedge

BS 5837: 2012
Retention Category B
Tree, Group or Hedge

BS 5837: 2012
Retention Category C
Tree, Group or Hedge

BS 5837: 2012 Category U
Tree, Group or Hedge

Retained Tree

Root Protection Area (RPA)

#

Position Estimated on Site

Redline Site Boundary

Protective Fencing (See Insert 1 & Insert 2)

Arboricultural Supervised Excavation

Boundary Treatments

Ground Protection (See Insert 3)

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Arboricultural Monitoring Schedule				
Task	Description	Person Responsible	Date	Signed
Work Schedule	Agree timeline of construction works, including key arboricultural works.	Site manager / Arboricultural Consultant		
Inspection of Tree Works	Ensure that all tree works have been completed in accordance with the schedule and in accordance with BS 3998: 2010 ' <i>Tree work - Recommendations</i> '.	Local Authority Tree Officer / Arboricultural Consultant		
Inspection of Protective Fencing	Inspection of protective fencing prior to any construction works beginning on site to ensure that it is installed in accordance with the Tree Protection Plan.	Local Authority Tree Officer / Arboricultural Consultant		
Supervised Excavation with Possible Root Pruning	Supervision of hand dig / air spade excavation in accordance with the Tree Protection Plan and root pruning as required by consultant.	Local Authority Tree Officer / Arboricultural Consultant		
Hand Dig	Excavation by hand of areas shown on the Tree Protection Plan.	Local Authority Tree Officer / Arboricultural Consultant		
Installation of Cellular Confinement System	Cellular confinement system to be installed in accordance with the suppliers specification.	Local Authority Tree Officer / Arboricultural Consultant		
Inspection of Protective Fencing	Ad hoc inspection of protective fencing to ensure continued tree protection during construction.	Local Authority Tree Officer / Arboricultural Consultant		
Inspection of Protective Fencing	Inspection and sign off of protective fencing upon completion of construction prior to its removal.	Local Authority Tree Officer / Arboricultural Consultant		

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ARBORICULTURAL
MONITORING SCHEDULE

Issue:

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