



ARBORICULTURAL METHOD STATEMENT

PROPOSED DEVELOPMENT

AT

THE AGEAS BOWL
SOUTHAMPTON

Author: C. Salisbury
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1.0 Discussion

- 1.1 The majority of the root system, of a tree, is in the surface 600mm of the soil, extending radially for distances frequently in excess of the trees height. Beyond the main structural roots (close to the base of the trunk), the root system rapidly sub-divides into smaller diameter roots: off this main system, a mass of fine roots develops.
- 1.2 The shape of the main structural roots develops in response to the need for the tree to have physical stability. Beyond these major roots, root growth and development is influenced by the availability of water and nutrients. Unless conditions are uniform around the tree, which would be unusual, the extent of the root system will be very irregular and difficult to predict. It will not generally show the symmetry seen in the branch system.
- 1.3 The parts of the root system, which are active in water and nutrient uptake, are very fine, typically less than 0.5mm diameter. They are short lived, developing in response to the needs of the tree, with the majority dying each winter. It is *essential* that conditions in the soil remain conducive to the healthy growth of these fine roots so that the water and nutrients necessary for healthy tree growth can be absorbed.
- 1.4 All parts of the root system, but especially the fine roots, are vulnerable to damage. Once they are damaged, water and nutrient uptake will be restricted until new roots have regenerated. Vigorous young trees will be capable of rapid regeneration but over mature trees will respond slowly, *if at all*.
- 1.5 In order to live and grow, roots need oxygen from the soil. Respiration by the roots and other soil organisms depletes this oxygen and increases carbon dioxide levels in the soil; a correct balance of these gases is normally maintained by diffusion between the soil and the atmosphere. Anything, which disturbs this balance, will affect the condition of the root system.
- 1.6 The factors that most commonly affect this diffusion adversely, and therefore damage roots, are the following: -
 - a) Compaction of the ground, which reduces the space between soil particles. This is particularly important on clay soils. A single passage by heavy equipment on clay soils or storage of heavy materials can cause significant damage.
 - b) Changing soil levels, even for a few weeks.
 - c) Covering the root area with impervious surfaces.
 - d) A rise in the level of the water table. Roots can tolerate submersion for short periods. But a permanent rise will deplete the soil of oxygen.
- 1.7 Serious damage is often caused during preliminary site works by stripping the topsoil. For this reason, such works should be avoided until protective fencing has been erected.
- 1.8 Excavations in the rooting area can sever roots. As the majority of roots are in the surface 600mm, even shallow excavations can cause damage.

- 1.9 Excavations for foundations, landscaping or service trenches are usually sufficiently deep to sever most of the roots, and it should therefore be assumed that all parts of the root system beyond the excavation would no longer serve the tree.
- 1.10 Excavation or soil stripping which severe or damage the roots may impair the stability of the tree and make it dangerous.

2.0 Method Statement

Before any form of development commences on the site the following works should be undertaken: -

2.1 Tree Works

2.1.1 Character Area 1 & 2

Tree No.	Proposed Works
T1, T8, T9, T17, G18, T22, T23, T24, T26, G27, T34, G35 & G36	Fell
G20	Fell section as shown on the enclosed plan

2.1.2 Character Area 3

Tree No.	Proposed Works
T61 & T62	Fell

2.1.3 Character Area 4

Tree No.	Proposed Works
T52 & G55	Fell
G54	Fell section as shown on the enclosed plan

2.1.4 Character Area 5

Tree No.	Proposed Works
W1b, G37a, G37b, G37c & G37d	Fell
G38	Fell section as shown on the enclosed plan

2.2 Protective Fencing

All fencing used on the site should fully comply with BS 5837:2012 (Trees in Relation to Construction – Recommendations).

- 2.2.1 The fencing should be strong and suitable for local conditions. It should also take into account the degree of construction activity on the site.

- 2.2.2 The fencing should be at least 2.3m in height and should be erected with both a vertical and horizontal scaffolding framework capable of withstanding impact, with vertical tubes spaced at a maximum of 3 m. This should support either weldmesh panels which should be securely fixed with wire or scaffold clamps.
- 2.2.3 Notices should also be erected on the fencing stating 'Protected Area - No operations within fenced area'.
- 2.2.4 The positioning of the protective fencing is also very important and should be erected in the proposed location identified in Appendix One. Once the fence has been erected it should never be crossed and particular care should be taken not to store any materials or soil within the protected area.

2.3 Additional Precautions Outside Fenced Areas

- 2.3.1 Oil, bitumen, cement or other material likely to cause damage to the tree will not be stacked or discharged within 10m of the trees stem or within the protective area. Also materials in general will not be stacked or discharged within the exclusion zone.
- 2.3.2 Concrete mixing and washing will not be carried out within 10m of any retained trees.
- 2.3.3 Fires will not be lit beneath the foliage or in a position where the flames could extend to within 5m of the foliage, branches or trunk. If the fire is large then this may necessitate a distance of at least 20m.
- 2.3.4 Trees that are to be retained will not be used as anchorage for equipment.
- 2.3.5 Notice boards, telephone cables, or other services will not be attached to any part of the retained tree.
- 2.3.6 Care should be taken when using cranes or other equipment near the canopy of the retained trees. Also any trees to be felled in proximity to the retained trees should be done so with particular care.

2.4 Installation of Special Surfacing

2.4.1 The following methodology supports the drawing indicating the construction of the proposed hard standing. The methodology is prepared on the basis of the sequence of operations necessary to complete the construction of the driveway with the minimum damage to the trees proposed for retention.

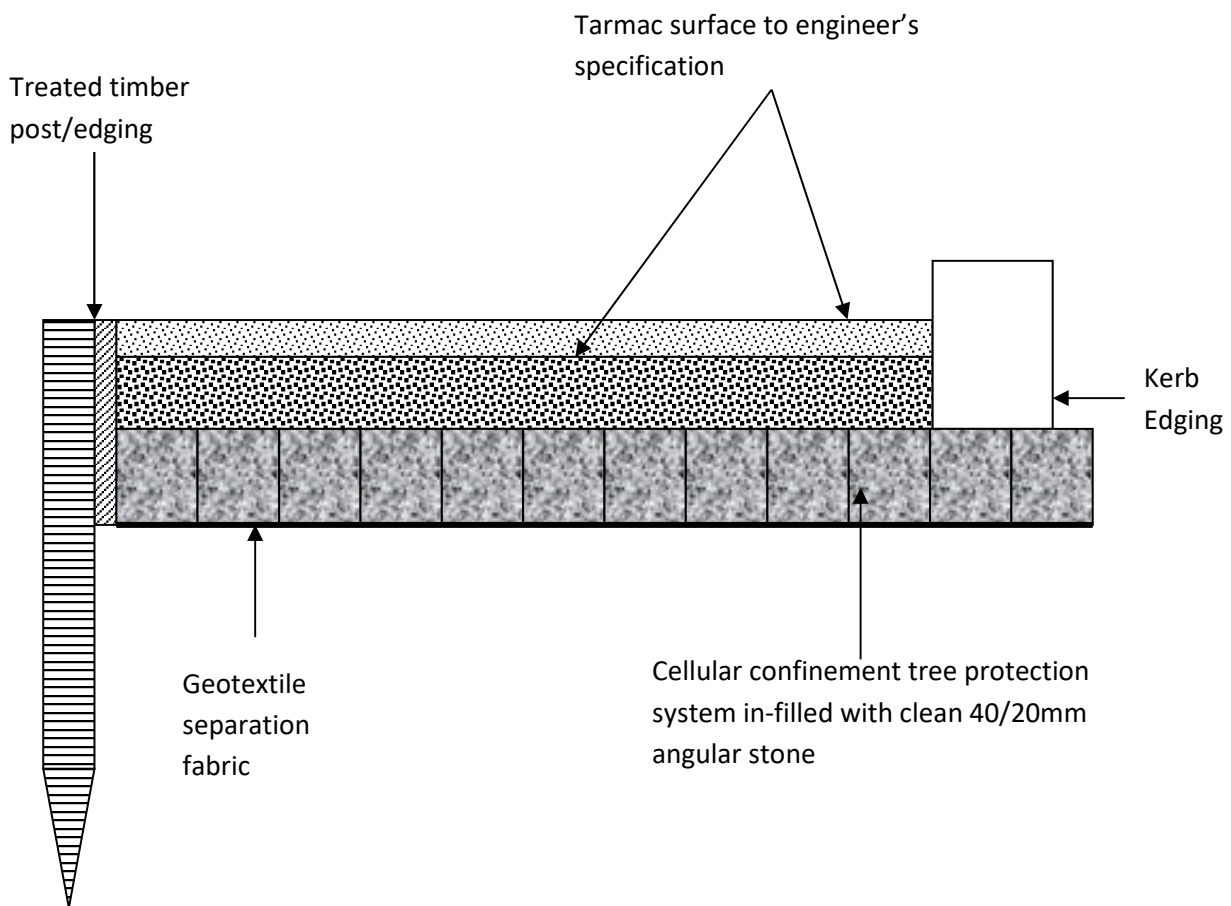
- Surface layer to be scraped off. This can be done either by hand or by very small machinery.
- Erect protective fencing to the edge of the construction area.
- Spread a sub grade material over the length of the driveway to fill any small ruts.
- Construct edging using treated timber if required.

- Lay geotextile mat over smoothed area.
- Extend the Geoweb perforated tree root protection system over the area of the driveway with sufficient overlap such that kerbs can be constructed on top of the Geoweb.
- Fill the voids within the Geoweb with reduced fines Type 1 material working into the site over the top of the Geoweb.
- Lay kerbs and surface over the Geoweb such that the construction binds itself together.
- Construct finished surface as required in line with guidance illustrations below.

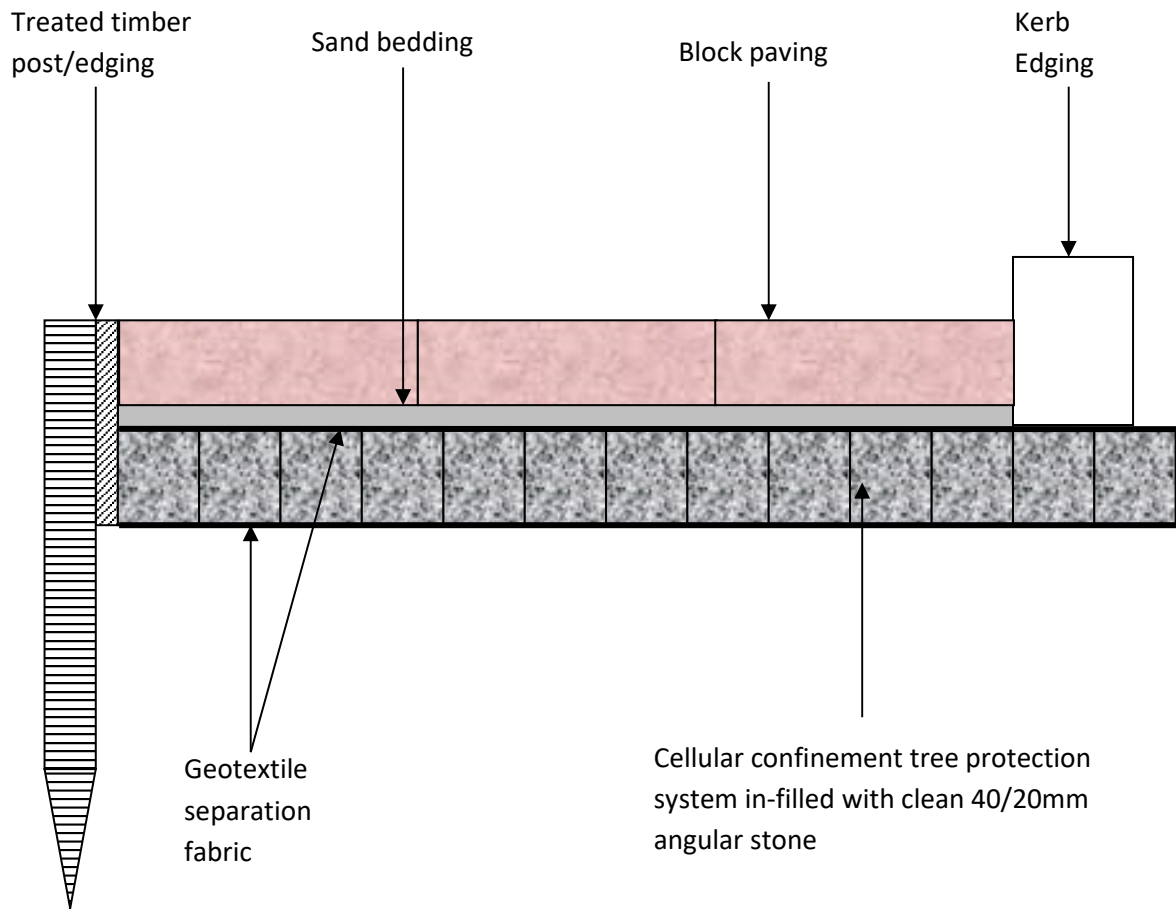
GEOWEB BASED CONSTRUCTION – (INDICATIVE ONLY)

Depth of confinement system variable according to use- refer to manufacturer

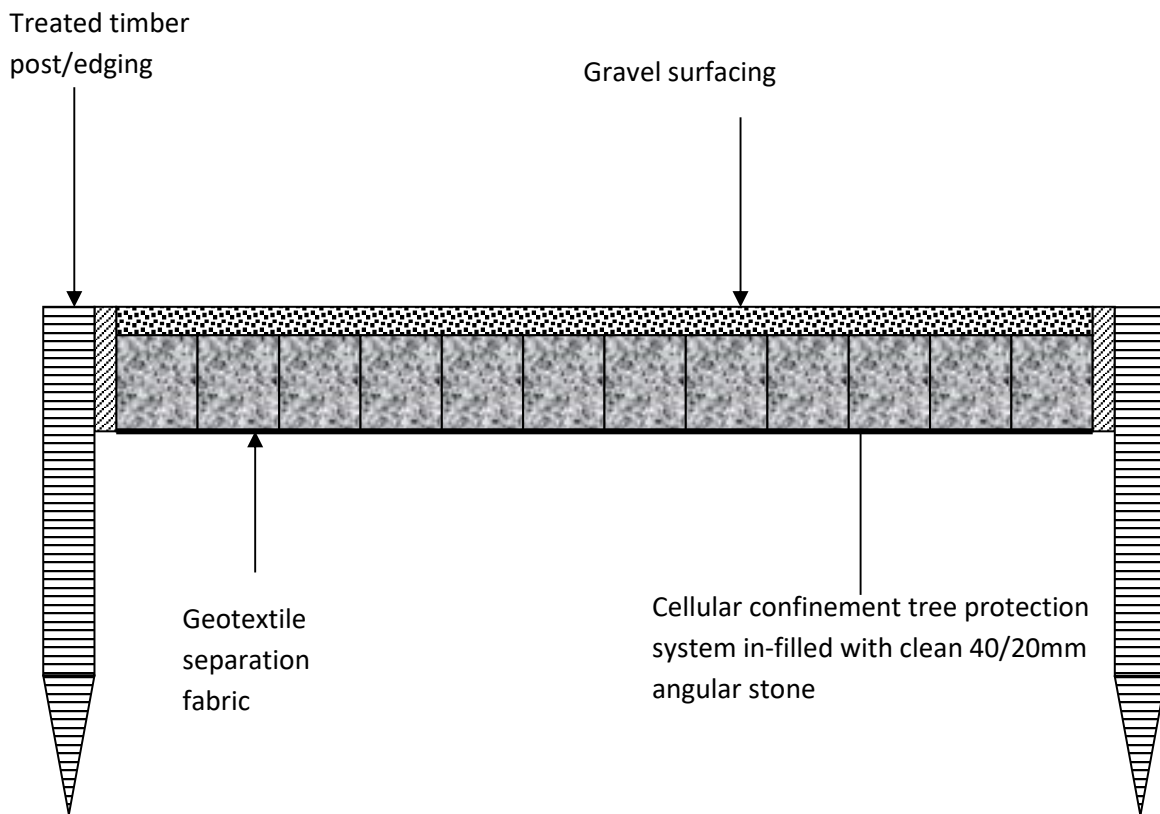
Tarmac Surface



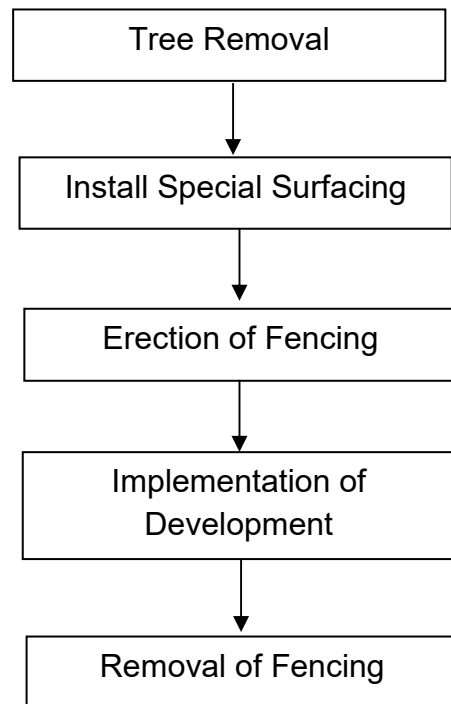
Block Paved Surface



Gravel Surface



2.5 Summary of Methodology for the Protection of the Trees



Appendix One

Tree Plan



- Existing Trees Retained
- Existing Trees Removed
- Root Protection Area
- Tree protection fencing
- Special Measures

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Site Address:
Ageas Bowl
Southampton

Drawing Title:
Method Statement Plan - Character Area 1

Drawing No:
ABS/MS/01 Rev. D

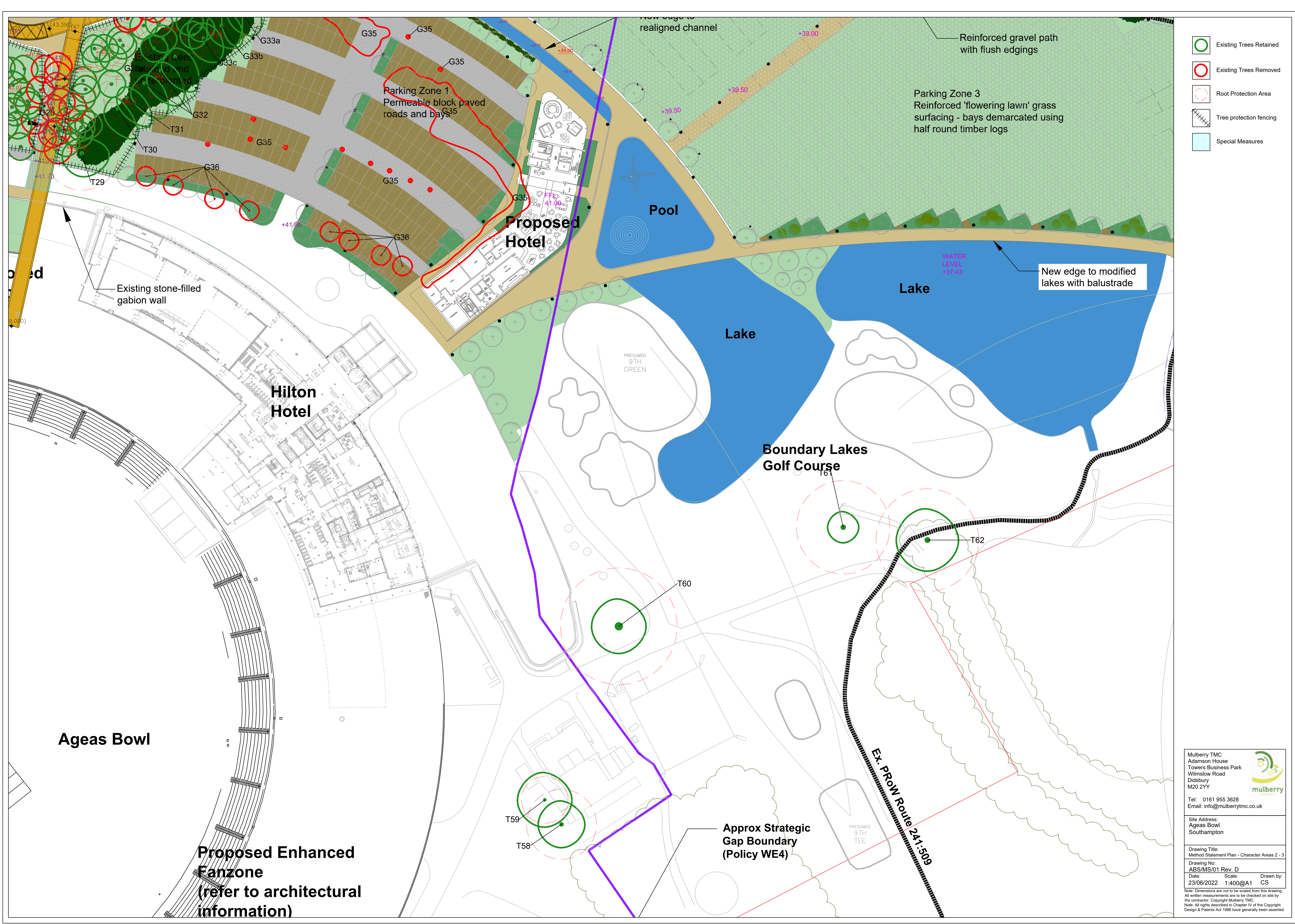
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23/06/2022

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Drawn by:
CS

Note: Dimensions are not to be scaled from this drawing.
All written measurements are to be checked on site by the contractor. Copyright Mulberry TMC.

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- Existing Trees Retained
- Existing Trees Removed
- Root Protection Area
- Tree protection fencing
- Special Measures

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Site Address:
 Ageas Bowl
 Southampton

Drawing Title:
 Method Statement Plan - Character Areas 2 - 3

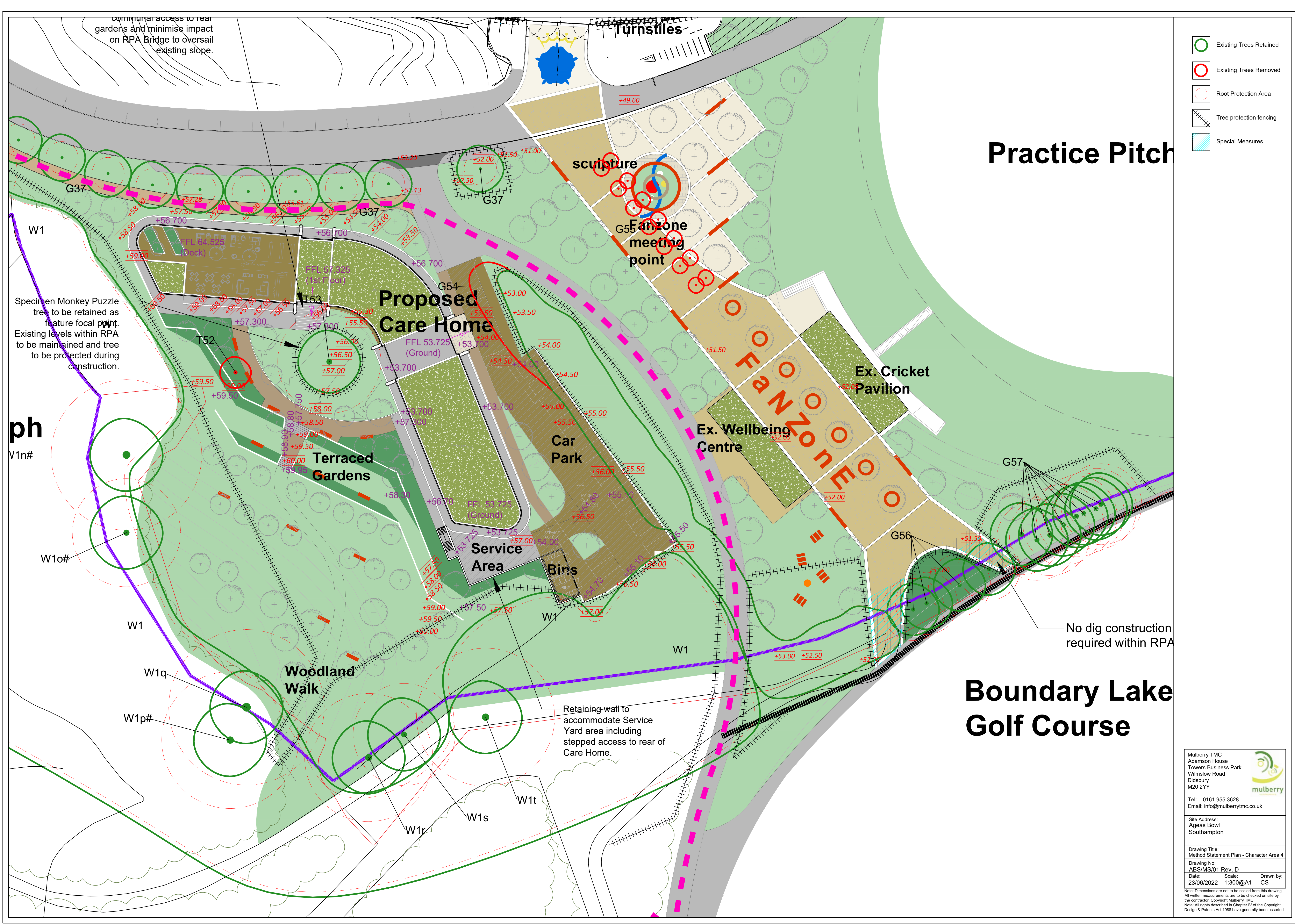
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- Existing Trees Retained
- Existing Trees Removed
- Root Protection Area
- Tree protection fencing
- Special Measures

Practice Pitch

Boundary Lake Golf Course

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Site Address:
Ageas Bowl
Southampton

Drawing Title:
Method Statement Plan - Character Area 4

Drawing No:
ABS/MS/01 Rev. D

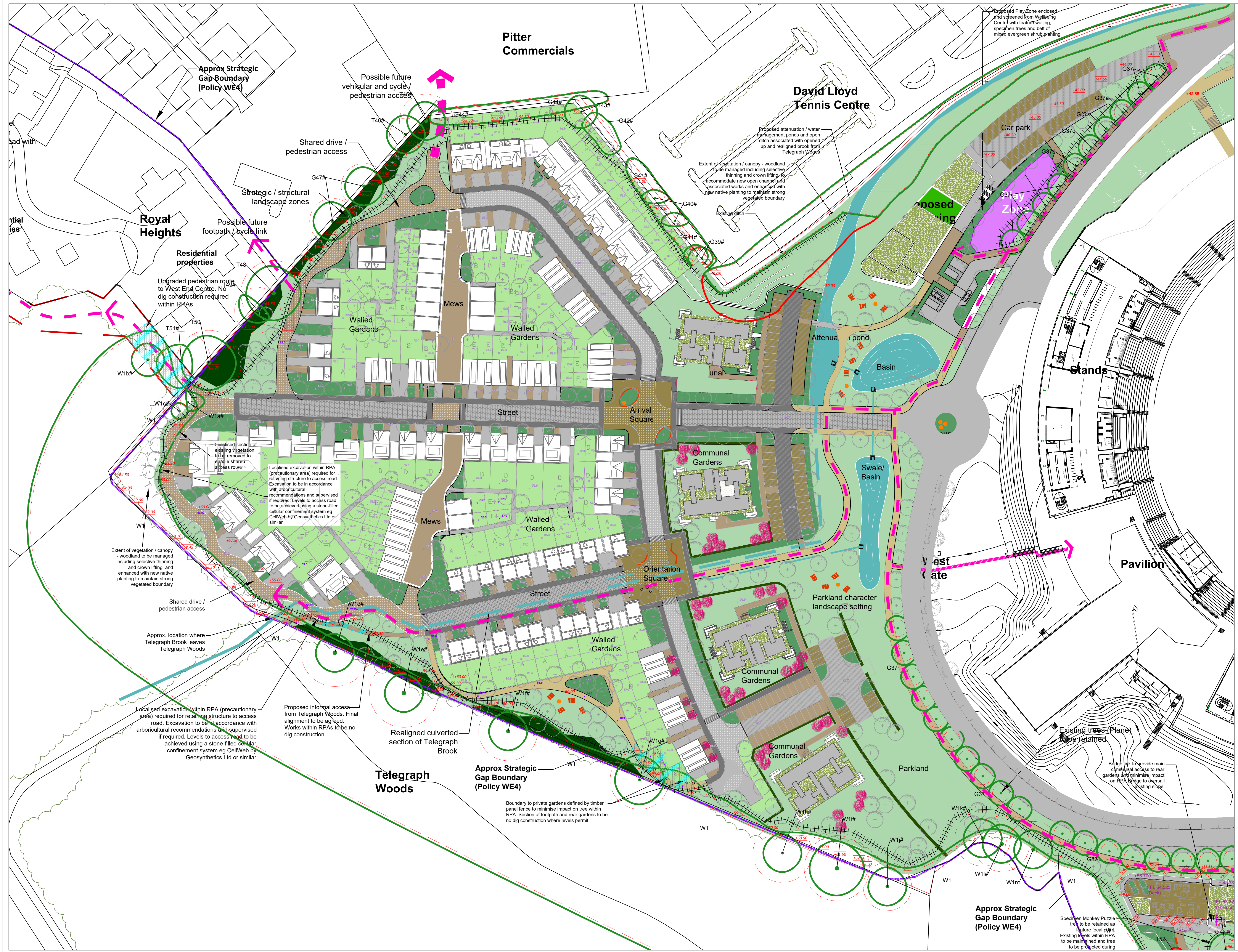
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- Existing Trees Retained
- Existing Trees Removed
- Root Protection Area
- Tree protection fencing
- Special Measures



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Site Address:
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Southampton

Drawing Title:
Method Statement Plan - Character Area 5

Drawing No:
ABS/MS/01 Rev. D

Date:
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Scale:
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Appendix Two

Tree Protection Fencing

Tree Protection Fencing (BS5837: 2012)

