Protective Fencing (Trees)

Protective fencing is to be erected prior to the commencement of any and all works on site and retained in place for the duration of the development.

Default Specification: To comprise of either 2.4m wooden site hoarding; or a 2.3m high scaffold framework comprising of vertical and horizontal framework, well braced to resist impacts, with uprights to be spaced at a maximum of 3.0m intervals and driven into the ground by a minimum of 600mm. On to this, standard anti-climb welded mesh panels are to be securely fixed to each other with at least two scaffold clamps and to the scaffold framework with wire.

Secondary Specification: To comprise of 2m tall welded mesh panels on rubber or concrete feet. Panels are to be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabilizer struts, which should be attached to a base plate and secured with ground pins.

All weather notices are to be attached at regular intervals on the weld mesh panels with words such as "Construction Exclusion Zone - KEEP OUT".

Tree Protection Area

KEEP OUT

Do **not** move this fence

(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECT OF A TREE PRESERVATION ORDER. CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY

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Ground Protection/ Replacement Hard Surfacing

The existing hard surfacing within the RPA of retained trees provides passive protection against compaction to the underlying soil and therefore must be retained for the duration of the project. when hard surfacing is being replaced, it shall be done so manually and under the direct supervision of the Project Arboriculturist; it must be replaced immediately with either the new hard surface treatment or with suitable ground protection, capable of withstanding the likely loading for the site.

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.

Note: The ground protection might comprise one of the following:

Pedestrian movments only: A single thickness of scaffold boards placed either on top of a driven scaffold frame, as to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100mm depth of woodchip), laid onto a geotextile membrane;

Pedestrian-operated plant up to 2t (gross weight): Proprietary inter-linked ground protection boards placed on top of a compression-resistant layer(e.g.150mm depth of woodchip), laid onto a geotextile membrane;

Wheeled/Tracked traffic exceeding 2t (gross weight): An alternative system (e.g. proprietary system or pre-cast reinforced concrete slabs) to be designed by a suitably qualified person to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

In all cases, the objective of the ground boarding is to avoid compaction of the soil beneath, so that tree root function remains unimpaired.

Supervised Excavation

All excavations situated either partially of completely within the RPAs of retained trees are to be undertaken manually; unless other wise permitted and under the direct supervision of the Project Arboriculturist.

Any roots that are to be cut will be cleanly severed by the Project Arboriculturist using a suitably sharp hand saw or secateurs. The edge of all excavations closest to the retained trees will be covered with damp hessian to prevent drying out, and where necessary be shuttered to prevent soil collapse or contamination by concrete. If appropriate soil beneath the depth of the excavation may be sheet piled, regular piled or have individual piles installed.

Manual excavation: Excavations within the RPAs of retained trees will initially be undertaken by hand under the direct supervision of the Project Arboriculturist to a minimum depth of 600mm (to be confirmed by the Project Arboriculturist), whether its for proposed foundations, hard surfacing or underground services. The soil is to be loosened with the use of a fork or pick and/or air-spade and then cleared with a shovel and/or the aid of an air-vac.

Mechanical excavation: In some situations and at the discretion of the Project Arboriculturist, excavation within the RPAs may be able to consist of a mixture of mechanical and manual excavation.
Where an excavator is used it will be fitted with a suitably sized toothless grading bucket; using a grading / scrapping motion rather than digging. During each motion the excavator should be restricted to removing no more than 10 - 20mm of soil in any any one pass. If any roots are discovered, mechanical excavation will be stopped immediately and manual excavation will take over to expose the root. Upon the root being uncovered and either severed or protected the excavations can then continue. Any excavator or other machinery that is to be used will be situated outside of the RPAs of all retained trees or on top of suitably constructed ground protection.

Where an excavator or any other machinery is to be used within RPAs or beneath canopies the Project Arboriculturist will clearly instruct the operator about what they want and expect to happen prior to any works may commence.

'No-dig' Surfacing

Multi-dimensional confinement system: Prior to the installation of the new 'no-dig' surfacing, existing vegetation may be removed either with hand tools or sprayed with an approved non-residual herbicide such as 'Glyphosate'. Any small hollows on the surface may be filled with clean sharp sand (not builders sand) to a maximum depth of 150mm.

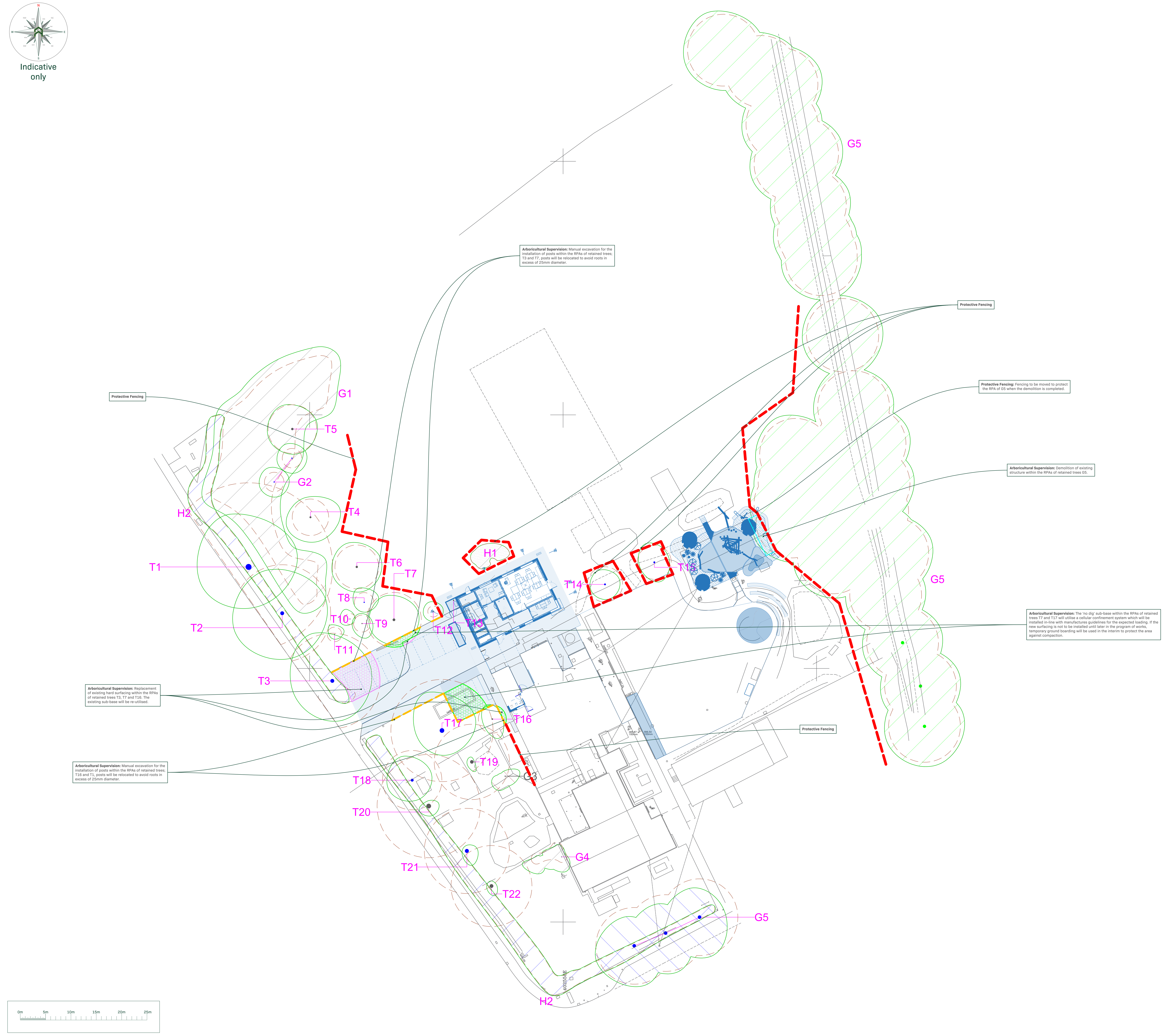
The new hard surfacing will utilise a 'No-dig' sub-base such as a a proprietary cellular confinement system (GeoWeb or similar) laid over a bi-axel geo-grid (tensar TriAx or similar) so that it can be constructed entirely above the existing soil level. The 'GeoWeb' is to be back filled by hand with a no-fines aggregate of 20mm - 30mm. The area of 'GeoWeb' will be covered with a permeable geotextile fabric and the finished wearing course laid on top. Edge supports of an appropriate size and strength are to be set above ground level and secured with haunching or steel pins driven into the ground. the outer edge of the supports may be banked up with clean top soil.

Note: The use of a multi-dimensional confinement system will affect the finished level of the hard surfacing by raising the levels and needs to be considered when designing foundations and setting the finished floor levels of adjacent buildings.

Engineered solution: Where an engineered solution is to be used it is to be designed by a suitably qualified person in conjunction with the advice of the Project Engineer, Arboriculturist and the resulting site specific investigations. Any and all excavations required during the site investigation and design stage or for the installation of foundations are to be undertaken manually and under the direct supervision of the Project Arboriculturist. A full and detailed design for the proposed engineered surfacing and the associated foundations will be provided by the Project Engineer and design team.

Arboricultural Method Statement

All tree works must be undertaken in accordance with British Standards. Please refer to the Tree Schedule, Arboricultural Method Statement & Tree Protection Plan, for full details of all surveyed trees and how the development maybe implemented without detriment to retained trees.



Protective Fencing

Arboricultural Supervision: Manual excavation for the installation of posts within the RPAs of retained trees; T3 and T7, posts will be relocated to avoid roots in excess of 25mm diameter.

Protective Fencing

Protective Fencing: Fencing to be moved to protect the RPA of G5 when the demolition is completed.

Arboricultural Supervision: Demolition of existing structure within the RPAs of retained trees G5.

Arboricultural Supervision: The 'no dig' sub-base within the RPAs of retained trees T7 and T17 will utilise a cellular confinement system which will be installed in-line with manufactures guidelines for the expected loading. If the new surfacing is not to be installed until later in the program of works, temporary ground boarding will be used in the interim to protect the area against compaction.

Arboricultural Supervision: Replacement of existing hard surfacing within the RPAs of retained trees T3, T7 and T16. The existing sub-base will be re-utilised.

Protective Fencing

Arboricultural Supervision: Manual excavation for the installation of posts within the RPAs of retained trees; T16 and T1, posts will be relocated to avoid roots in excess of 25mm diameter.

Tree Work Schedule

Ref.	Species	Works	Category
T3	Pedunculate oak	Prune: Crown lift to 4 m for new parking spaces clearance	B1
T7	Goat willow	Prune: Crown lifting for a 0.5 m clearance from new fence line	C1
T12	Common beech	Prune: Crown lifting to 2 m and selective branch reduction pruning for clearance from fence line	C1
T13	Common beech	Fell: Remove tree to ground level and remove stump	C1
H1	Osier	Partial Fell: Remove a portion of the south side of hedge for a 1 m clearance from building	C2
H2	Common hawthorn	Prune: Selective pruning / removal for a 0.5 m clearance from fence line and car parking area	B2

All tree work is to be undertaken in accordance with British Standards (BS)3998:2010 Tree Work - Recommendations. All arisings are to be removed and the site left as it was found. Care is to be taken to ensure that the ground around retained trees does not become compacted as a result of tree surgery operations. No equipment or vehicles such as (but not limited to) timber lorries, tractors, excavators, or cranes are to be parked or driven beneath the crowns of any retained trees to prevent subsequent compaction and root death.

Arboricultural Supervision

The arboricultural consultant will be required to attend site to directly supervise all demolition and construction works that have to be undertaken within the root protection areas. This will include:

1. Pre-commencement site meeting.
2. Location of protective measures.
3. Supervised demolition of structure within the RPAs of G5.
4. Relocation of protective measures.
5. Supervised excavations for fence posts within RPAs of tree nos.T3, T7, T16 and T17.
6. Installation of 'No Dig' and replacement hard surfacing within the RPAs of tree nos. T3, T7, T16 and T17.
4. Installation of 'No Dig' play surfacing within the RPAs of tree nos. T15 and G5.
5. Any demolition and or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (a non-exhaustive list).
6. Arboricultural sign off and removal of protective measures.

Referenced Documents

Title:	Originator:	Drawing Number:	Key
Existing Ground Floor Plan	Footprint Architects	2425-FTP-XX-MSOC-DR-A-1004	—
Proposed Site Plan	Footprint Architects	2425-FTP-XX-MSXX-DR-A-1005	—

Rev:	Date:	Notes:
01	24/04/2026	Initial arrangement.

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Client:
Stepnell

Drawing:
Tree Protection Plan

Project No.:	Drawing No.:	Revision No.:
43495568	TPP01	01

Date:	Scale:	Drawn:
Apr 2026	1:250@ A0	AOJ

Tree Key:

Tree/Group number:	1T	Tree Canopies:	◯	Trunks:	○
Root Protection Area:	◌	Ancient / Veteran Tree Buffer Zone:	●	Ancient woodland Extent (DEFRA):	◯
Category 'U' Tree Stems (BS5837):	●	Category 'U' Tree Groups (BS5837):	▥	Category 'A' Tree Stems (BS5837):	●
Category 'A' Tree Groups (BS5837):	▨	Category 'B' Tree Stems (BS5837):	●	Category 'B' Tree Groups (BS5837):	▨
Category 'C' Tree Stems (BS5837):	●	Category 'C' Tree Groups (BS5837):	▤	Category 'V' Tree Stems:	●
Category 'V' Groups:	▤	Basic Shading Arc:	◔	Trees to be Removed:	◌

All dimensions should be checked on site. No dimensions are to be scaled from this drawing.
Please notify us of any discrepancies found. Arbtech Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing in which this plan is based.
This drawing is designed to reflect the principles of the layout or design only, and relates only to the protection of retained trees.
This drawing is not to be read as a definitive part of the engineering or construction designs or method statement. An architect or structural engineer should be contacted over any matters of construction, detailing or specification and for any standards or regulatory requirements relating to proposed structures, hard surfacing or underground services.
This drawing was produced in colour - a monochrome copy should not be relied upon.

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