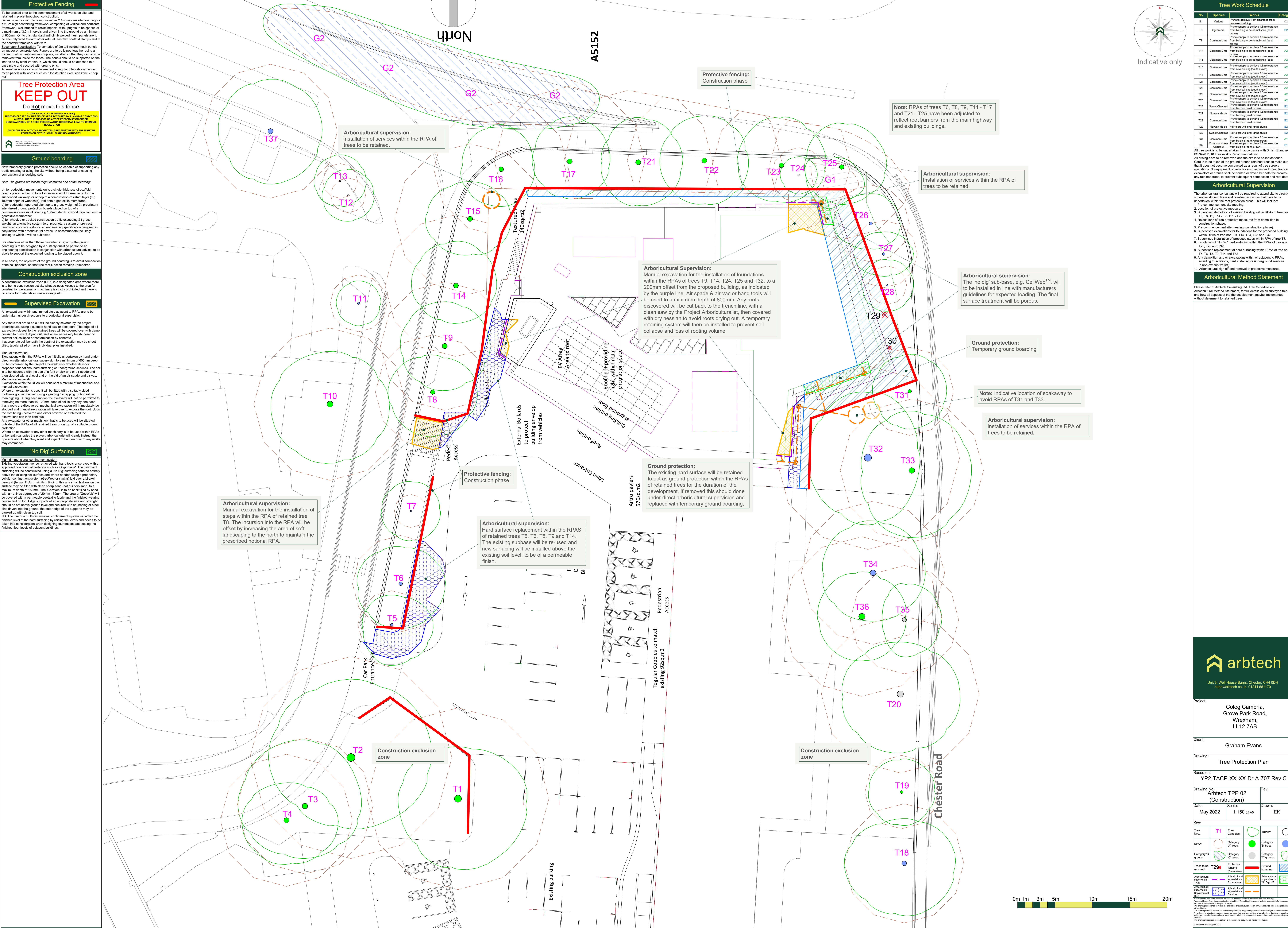




Protective Fencing

To be erected prior to the commencement of all work on site, and retained in place throughout construction.
Default specification: To comprise either 2.4m wooden site hoarding or a 2.3m high scaffolding 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 to 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-rattle couplers, installed to 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 should be erected at regular intervals on the wind mesh panels with words such as "Construction exclusion zone - Keep out!"

Tree Protection Area
KEEP OUT
Do not move this fence

TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY A PLANNING CONDITION. ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.

Ground boarding

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:

a) for pedestrian movements 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.
b) for pedestrian-operated plant up to a gross weight of 2t, 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.
c) for wheeled or tracked construction traffic, exceeding 2 t gross weight, an alternative system (e.g. proprietary system or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the heavy loading to which it will be subjected.

For situations other than those described in a) or b), the ground boarding is to be designed by a suitably qualified person to an engineering specification in conjunction with arboricultural advice, to be able to support the expected loading to be placed upon it.

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

Construction exclusion zone

A construction exclusion zone (CEZ) is a designated area where there is to be no construction activity what-so-ever. Access to the area for construction personnel or machinery is strictly prohibited and there is no scope for materials or waste storage etc.

Supervised Excavation

All excavations within and immediately adjacent to RPAs are to be undertaken under direct on-site arboricultural supervision.

Any roots that are to be cut will be cleanly severed by the project arboriculturist using a suitable hand saw or excavator. The edge of all excavation closest to the retained trees will be covered over with damp hessian to prevent drying out, and where necessary be shrouded to prevent soil collapse or contamination by concrete.
If appropriate soil beneath the depth of the excavation may be sheet piled, lagged piled or have individual piles installed.

Manual excavation:
Excavations within the RPAs will be initially undertaken by hand under direct on-site arboricultural supervision to a minimum of 600mm deep (to be confirmed by the project arboriculturist), whether its is 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-spade and air-vac.
Mechanical excavation:
Excavation within the RPAs will 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 / scraping motion rather than digging. During each motion the excavator will not be permitted to remove more than 10 - 20mm deep of soil in any one pass.
If any roots are discovered, mechanical excavation will immediately be stopped 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 a suitable ground protection.
Where an excavator or any other machinery is to be used within RPAs or beneath canopies the project arboriculturist will clearly identify the operator about what they want and expect to happen prior to any works may commence.

'No Dig' Surfacing

Multi-dimensional confinement system
Existing vegetation may be removed with hand tools or sprayed with an approved non residual herbicide such as Glyphosate. The new hard surfacing will be constructed using a 'No Dig' surfacing situated entirely above the existing soil surface and where needed using a proprietary cellular confinement system (GeoWeb or similar) laid over a bi-based geo-grid (tenax Tufex or similar). Prior to this any small hollows on the surface may be filled with clean sharp sand (not builders sand) to a maximum depth of 150mm. 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 should be set above ground level and secured with haunching or steel pins driven into the ground, the outer edge of the supports may be tanked up with clean top soil.
NB: 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 taken into consideration when designing foundations and setting the finished floor levels of adjacent buildings.

Tree Work Schedule

No.	Species	Works	Category
G1	Various	Plants to be removed from proposed building.	C2
T6	Burrow	Plants to be removed from building to be demolished (see T6)	B2
T8	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T8)	A2
T14	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T14)	A2
T15	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T15)	A2
T16	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T16)	A2
T17	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T17)	A2
T21	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T21)	A2
T22	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T22)	A2
T23	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T23)	A2
T25	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T25)	A2
T26	Sweet Chestnut	Plants canopy to achieve 1.5m clearance from building to be demolished (see T26)	B2
T27	Honey Maple	Plants canopy to achieve 1.5m clearance from building to be demolished (see T27)	B2
T28	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T28)	B2
T29	Honey Maple	Plants canopy to achieve 1.5m clearance from building to be demolished (see T29)	B2
T30	Sweet Chestnut	Plants canopy to achieve 1.5m clearance from building to be demolished (see T30)	B2
T31	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T31)	A1
T32	Common Lime	Plants canopy to achieve 1.5m clearance from building to be demolished (see T32)	B1

At tree work is to be undertaken in accordance with British Standard BS 5836:2010 Tree work - Recommendations.
Care is to be taken of the ground around retained trees to make sure that it does not become compacted as a result of tree surgery operations. No equipment or vehicles such as similar rollers, tractors, excavators or cranes shall 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 oversee all demolition and construction works that have to be undertaken within the tree protection areas. This will include:
1. Pre-commencement site meeting.
2. Location of protective measures.
3. Supervised demolition of existing building within RPAs of tree nos. T6, T8, T9, T14, T17, T21 - T25.
4. Relocation of tree protective measures from demolition to construction phase.
5. Pre-commencement site meeting (construction phase).
6. Supervised excavations for foundations for the proposed building within RPAs of tree nos. T9, T14, T24, T25 and T32.
7. Supervised installation of proposed steps within RPA of tree nos. T25, T28 and T32.
8. Installation of 'No Dig' hard surfacing within the RPAs of tree nos. T6, T8, T9, T14, T17, T21 - T25.
9. Supervised replacement of hard surfacing within RPAs of tree nos. T6, T8, T9, T14, T17, T21 - T25.
10. Any demolition and or excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services (a non-exhaustive list).
11. Arboricultural sign off and removal of protective measures.

Arboricultural Method Statement

Please refer to Arbtech Consulting Ltd. Tree Schedule and Arboricultural Method Statement, for full details on all relevant areas and how all aspects of the development may be implemented without detriment to retained trees.

arbtech

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Project:

Coleg Cambria, Grove Park Road, Wrexham, LL12 7AB

Client:

Graham Evans

Drawing:

Tree Protection Plan

Based on:

YP2-TACP-XX-XX-Dr-A-707 Rev C

Drawing No:

Arbtech TPP 02 (Construction)

Date:

May 2022

Scale:

1:150 @ A0

Drawn:

EK

Key:

Tree Nos.	T1	Tree Categories	Trunk	
RPAs		Category 'A' trees	Category 'B' trees	
Category 'B' groups		Category 'C' trees	Category 'D' groups	
Trees to be removed:		Protective boarding	Ground boarding	
Arboricultural supervision - T6		Arboricultural supervision - foundations	Arboricultural supervision - 'No Dig' RL	
Arboricultural supervision - T26		Arboricultural supervision - foundations	Arboricultural supervision - 'No Dig' RL	

0m 1m 3m 5m 10m 15m 20m