

Tree Work Schedule

No.	Species	Works	Category
G1, G3, 3, 4, 9-12, 25 & 26	Various	Various works already approved under previous scheme	Various
	Pitosporum	Fall tree to ground level, remove stump	B1
3	Common yew	Fall tree to ground level, remove stump	B1
9	Norway maple	Fall tree to ground level, remove stump	B1

All tree work is to be undertaken in accordance with British Standard BS 3998:2010 Tree work - Recommendations. All arising's are to be removed and the site is to be left as found. 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 timber lorries, tractors, excavators or cranes shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

Protective Fencing

To be erected prior to the commencement of all works 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 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 should be erected 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 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 2t 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 likely loading to which it will be subjected.

Supervised Excavation

Excavation adjacent to RPAs are to be undertaken under direct on-site arboricultural supervision. Excavation will consist of a mixture of mechanical and manual excavation.
 Initial excavation will be undertaken by hand under to a minimum of 200mm deep of any excavation, the soil is to be loosened with the use of a fork or pick and then cleared with the aid of an air-spade, air-aval or shovel. There after excavation can be undertaken using an excavator with a suitably sized toothless grading bucket using a grading motion rather than digging and taking no more than 10 - 20mm deep swipes at any time, if any roots are discovered mechanical excavation will be stopped immediately and manual excavation will resume to expose the root. All roots to be cut will be clearly severed with the use of a hand saw or secateurs. The edge of the excavation closest to the retained trees will be covered over 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 600mm may be sheet piled, regular piled or individual piles. Any deeper excavations may be undertaken by a machine provided it works from outside the RPA or has appropriate ground protection in place to move and work upon.

Hard Surfacing Removal

Removal of and or replacement of hard surfacing situated either partially or completely within the RPAs of retained trees shall be undertaken with care and under the direct on-site arboricultural supervision as these areas are likely to contain roots.
 Where this is necessary the wearing course will be broken up using a hand held pneumatic breaker, hand tools and a wheel barrow to break up and remove the surfacing. If it is necessary to remove the sub base this is to be undertaken using hand tools such as a fork to loosen the material and removed using shovels and wheel barrows.
 In some situations and at the discretion of the arborist it may be possible to use an excavator using a hydraulic breaker and suitably sized toothless grading bucket. If an excavator is to be used it must be situated outside of the RPAs, on top of the hard surfacing working away from the RPAs or from ground boarding.
 Which ever system is used the is to be NO disturbance of the soil beneath. If roots are found they are to be covered over with damp hessian and a layer of either sharp sand, wood chip or top soil to prevent desiccation.

'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-axial geo-grid (tensar TriAx 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 banked up with clean top soil.

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-start meeting.
2. Location of protective measures.
3. Supervised demolition of hard surfacing, kerb edging and foundations etc. within RPAs of tree 2.
4. Installation of temporary retaining system at tree 2.
5. Installation of 'No Dig' hard vehicular surfacing within the RPAs of trees 2.
6. Installation of 'No Dig' hard pedestrian surfacing within the RPAs of trees 2, 6 & G3.
7. Any excavations within or adjacent to RPAs, including foundations, hard surfacing or underground services.
8. Removal of protective measures.
9. Sign off as completed in compliance with this method statement and referenced documents

Arboricultural Method Statement

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

NOTE:
 Trees 14 and 23 have been removed from all plans as they removed from site following permission from Camden for risk management reasons.

Arboricultural supervision:
 Demolition of existing surface and structures within the RPAs of trees 2 & 3. The replacement/new 'no dig' sub-base, e.g. CellWeb™, will be installed in line with manufacturers guidelines for expected loading. The final surface treatment will be porous.

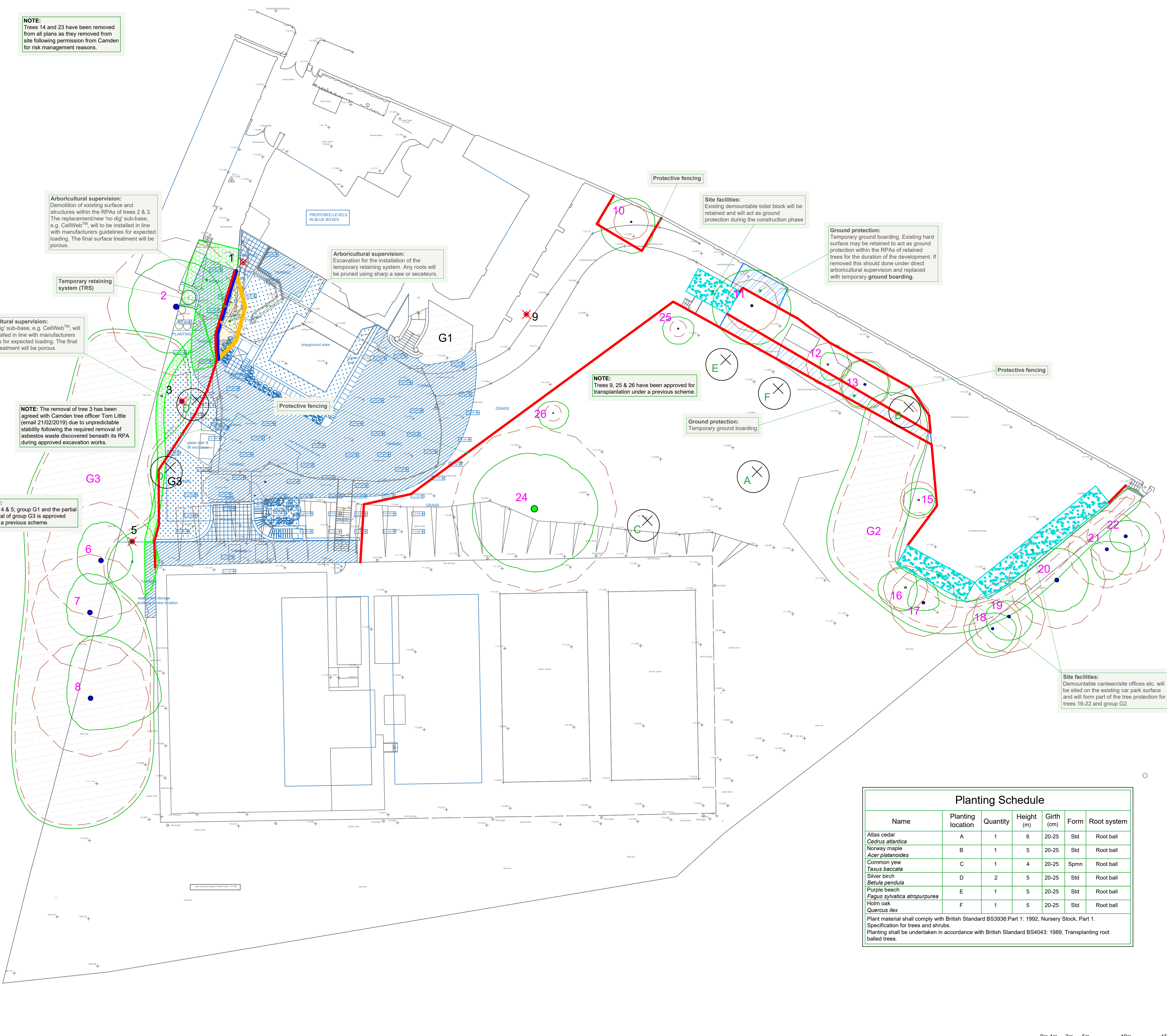
Arboricultural supervision:
 Excavation for the installation of the temporary retaining system. Any roots will be pruned using sharp a saw or secateurs.

Arboricultural supervision:
 The 'no dig' sub-base, e.g. CellWeb™, will be installed in line with manufacturers guidelines for expected loading. The final surface treatment will be porous.

NOTE: The removal of tree 3 has been agreed with Camden tree officer Tom Little (email 21/02/2019) due to unpredictable stability following the required removal of asbestos waste discovered beneath its RPA during approved excavation works.

NOTE: Trees 4 & 5; group G1 and the partial removal of group G3 is approved under a previous scheme.

NOTE: Trees 9, 25 & 26 have been approved for transplantation under a previous scheme.



Planting Schedule

Name	Planting location	Quantity	Height (m)	Girth (cm)	Form	Root system
Atlas cedar	A	1	6	20-25	Std	Root ball
Cedrus atlantica	A	1	6	20-25	Std	Root ball
Norway maple	B	1	5	20-25	Std	Root ball
Acer platanoides	B	1	5	20-25	Std	Root ball
Common yew	C	1	4	20-25	Spmn	Root ball
Taxus baccata	C	1	4	20-25	Spmn	Root ball
Silver birch	D	2	5	20-25	Std	Root ball
Betula pendula	D	2	5	20-25	Std	Root ball
Purple beech	E	1	5	20-25	Std	Root ball
Fagus sylvatica atropurpurea	E	1	5	20-25	Std	Root ball
Holm oak	F	1	5	20-25	Std	Root ball
Quercus ilex	F	1	5	20-25	Std	Root ball

Plant material shall comply with British Standard BS3096:Part 1: 1992, Nursery Stock, Part 1. Specification for trees and shrubs.
 Planting shall be undertaken in accordance with British Standard BS4043: 1989, Transplanting root balled trees.



Rev: Date: Notes:

A	01/05/19	Updated 'based on' plans' reposition of tree 25 & 26; removal and replacement of Tree 9 (formerly planned for relocation); amended reference confirming the agreement to remove tree 3.
B	10/05/19	Amended tree planting schedule
C	26/06/19	Amended tree planting schedule; tree 'B' moved
D	26/06/19	Tree 'B' moved

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Project: Channing Junior School, Fairseat, Highgate Hill, N6 5JR

Client: Channing School

Drawing: Tree Protection Plan: Hall Phase

Based on: 343.36/PLA57/C; 343.43/WD304/D; 343.43/WD304/D

Drawing No: Arbtch TPP 03 Rev: D

Date: Apr 2019 Scale: 1:250 @ A1 Drawn: JCH

Key:

Tree Nos.: 2	Tree Canopies: [Green Circle]	Trunks: [Black Circle]
RPAs: [Red Circle]	Category 'A' trees: [Green Circle]	Category 'B' trees: [Blue Circle]
Category 'C' trees: [Grey Circle]	Trees to be removed (approved): [Red Star]	Topo. survey: [Black Square]
Proposed layout: [Blue Line]	Protective fencing: [Red Line]	Ground boarding: [Blue Hatched Box]
Site facilities: [Blue Box]	Temp. retaining system: [Blue Box]	Manual / Supervised excavation: [Yellow Hatched Box]
No Dig hard surfacing: [Green Box]	Planting locations: [Black X]	

All dimensions should be checked on site. No dimensions are to be scaled from this drawing. Please notify us of any discrepancies found. Arbtch Consulting Ltd. cannot be held responsible for inaccuracies in the base drawing on 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 trees. This drawing is not to be read as a definitive part of the engineering or construction design or method statement. An arborist or structural engineer should be consulted 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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