Part 2: BS: 5837 Arboricultural Implications Assessment & 'Draft' Tree Protection Plan Report

Site:

The Whitworth
The University of Manchester
Oxford Road
Manchester
M15 6ER

Date of Site Visit:

9th February 2023

Prepared for:

The University of Manchester

Prepared by:

Mr G Davies
Arboricultural Consultant
ISA Tree Risk Assessment Qualified
Professional Tree Inspector Qualified

Bartlett Project Reference:

GD/230038/R2 Revision 1

Bartlett Tree Experts
Oakwood Nurseries
Chelford Road
Ollerton
Cheshire
WA16 8SE
www.bartletttree.co.uk

Submitted on 5th July 2023

© The F.A. Bartlett Tree Expert Company Ltd

TABLE OF CONTENTS

1.0 SCOPE OF REPORT 3
1.1 Instruction 3
1.2 Documents & supporting information 3
1.3 Aspects included within report 3
1.4 Aspects excluded from report 4
2.0 IMPLICATIONS OF PROPOSED DEVELOPMENT UPON EXISTING TREE POPULATION 5
2.1 Description of the proposed development 5
2.2 Table 1: Implications of proposed development upon existing tree population 5
2.3 Table 2: Mitigation measures required for proposed development & existing tree conflicts 7
2.4 Table 3: Tree work 8
3.0 SUMMARY OF IMPLICATIONS ASSESSMENT 9
3.1 Table 4: BS: 5837 categories & tree loss 9
3.2 Tree loss & Facilitation Pruning 9
3.3 Discussion of Direct Impacts 10
3.4 Discussion of Indirect Impacts: 11
3.5 Erection of tree protection barriers and laying of non-compacting ground protection 11
4.0 APPRAISAL OF TREE LOSS & RETENTION 12
4.1 Table 5: Summary of trees 12
APPENDIX 1 LIMITATIONS OF REPORT 13
APPENDIX 2 REPORT REFERENCES 14
APPENDIX 3 TREE PROTECTION PLANNING 15

1.0 SCOPE OF REPORT

1.1 Instruction

1.1.0 Bartlett Consulting has previously been instructed to undertake a tree survey and compose a Tree Constraints Plan (TCP) following the guidance of British Standard 5837: 2012 *Trees in Relation to Design, Demolition and Construction – Recommendations*, gathering data on trees and vegetation within the boundary of the proposed works site as well as those on neighbouring properties considered to be within influencing distance. Data pertaining to a total of twenty one (21) trees were obtained.

1.1.1 This report takes the previously gathered tree data and constraints, and overlays that information with the proposed site plan and proposed site layout, allowing for an evaluation of how the proposed restoration works to the retaining wall will co-exist with the tree population. Where there are trees which have the potential to influence, those trees must be considered as a constraint within the project planning.

1.2 Documents & supporting information

1.2.0 Bartlett Consulting was provided with the following documentation and plans prior to composing this report. They were sent via email in both PDF and DWG file format:

- Proposed Retaining Wall Drawing No: 078255-CUR-XX-XX-SK-40001 Rev P02

1.3 Aspects included within report

1.3.0 The information contained within this report follows the guidance of British Standard 5837 2012: *Trees in Relation to Design, Demolition and Construction – Recommendations*.

1.3.1 This Arboricultural Impact Assessment (AIA) is accompanied by a 'draft' Tree Protection Plan (dTPP). This plan illustrates trees to be retained and incorporated into the proposed development, identifies where above and below ground level constraints are caused and gives consideration to statutory controls, as well as the potential loss of trees on and adjacent to the site. Issues also considered identify any necessity to undertake facilitation pruning to retained trees, either arising from accommodation, excessive shading or due to an unacceptable amount of encroachment upon a retained tree's rooting zone.

1.3.2 The dTPP also identifies recommended locations of physical tree protection barriers, non-compacting ground protection, and site-specific working methodologies.

1.3.3 Mitigation measures are also provided within this report, identifying the need for physical tree protection barriers, non-compacting ground protection, as well as tree replacement planting.

1.3.4 Modified RPA's will be illustrated if known, below ground level obstructions exist, or, where considered appropriate to do so, whilst tree shade patterns and future canopy spread for young trees will also be illustrated where necessary.

1.0 SCOPE OF REPORT (Continued…)

1.4 Aspects excluded from report

1.4.0 This report does not include an Arboricultural Method Statement (AMS), or a 'final' Tree Protection Plan (TPP).

1.4.1 The contents of this report do not include discussions regarding subsidence and/or heave as a result of retention or tree removal, nor does this report consider the water demands of trees present to determine foundation design and depth. If required, this can be provided on request.

1.4.2 Following the initial site visit and tree survey, we believe that there is a Low potential for wildlife and ecological associations with the trees subject to this report. Ecological associations are considered to include nesting birds within the crowns.

1.4.3 The Wildlife and Countryside Act 1981, as amended by the Countryside and Rights of Way Act 2000, provides statutory protection to birds, bats, insects and other species that inhabit trees, hedgerows, or other associated vegetation. Ecological considerations that involve EU Habitats Directive will overrule any arboricultural recommendations as given within this report.

1.4.4 It is the recommendation of Bartlett Consulting that professional, detailed, advice is sought from an ecologist (if not done-so already) to confirm the consideration of Bartlett Consulting and to check if any such constraints apply to this site and its development proposals.

1.4.5 All trees must be thoroughly and properly assessed for nesting birds prior to the commencement of any recommended tree works.

2.0 IMPLICATIONS OF PROPOSED DEVELOPMENT UPON EXISTING TREE POPULATION

2.1 Description of the proposed development

2.1.0 From the information provided to us and listed in Section 1.2 above, it is our understanding that the following aspects of proposed development which influence, or are influenced by the existing trees are:

1. Excavation of the soils
2. Part demolition of the existing retaining wall
3. Pouring of mass concrete footings and rebuilding of retaining wall

2.2 Table 1: Implications of proposed development upon existing tree population

Tree Ref.	Species	Category	Removal due to		Mitigation Required		Aspect of Development affecting retained tree
			Works	Condition	Crown	RPA	
T1	Common Ash *Fraxinus excelsior*	U1	N/A	N/A	N/A	N/A	• None
T2	Common Ash *Fraxinus excelsior*	B2	N/A	N/A	N/A	N/A	• None
T3	Common Ash *Fraxinus excelsior*	U1	N/A	✓	N/A	N/A	• None
T4	Common Ash *Fraxinus excelsior*	U1	N/A	✓	N/A	N/A	• None
T5	Common Ash *Fraxinus excelsior*	B2	N/A	N/A	N/A	N/A	• None
T6	Common Ash *Fraxinus excelsior*	U1	N/A	✓	N/A	N/A	• None
T7	Common Ash *Fraxinus excelsior*	B2	N/A	N/A	N/A	✓	• Proposed temporary access route within RPA for plant machinery
T8	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	✓	• Proposed temporary access route within RPA
T9	London Plane *Platanus x hispanica*	A2	N/A	N/A	✓	✓	• Proposed temporary access route within RPA • Western crown overhanging proposed temporary access
T10	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	✓	• Proposed temporary access route within RPA
T11	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	✓	• Proposed temporary access route within RPA
T12	London Plane *Platanus x hispanica*	A2	N/A	N/A	✓	✓	• Proposed temporary access route within RPA • Northern crown overhanging proposed temporary access
T13	London Plane *Platanus x hispanica*	A2	N/A	N/A	✓	✓	• Proposed temporary access route within RPA • Northern crown overhanging proposed temporary access
T14	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	✓	• Proposed temporary access route within RPA • Excavation works within RPA equating to approximately 1% loss of viable rooting environment

Tree Ref.	Species	Category	Removal due to		Mitigation Required		Aspect of Development affecting retained tree
			Works	Condition	Crown	RPA	
T15	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	✓	• Proposed temporary access route within RPA • Excavation works within RPA equating to less than 1% loss of viable rooting environment
T16	London Plane *Platanus x hispanica*	A2	N/A	N/A	✓	✓	• Proposed temporary access route within RPA • Northern crown overhanging proposed temporary access • Excavation works within RPA equating to 9% loss of viable rooting environment
T17	London Plane *Platanus x hispanica*	A2	N/A	N/A	✓	✓	• Proposed temporary access route within RPA • Northern crown partially overhanging proposed temporary access • Excavation works within RPA equating to approximately 4% loss of viable rooting environment
T18	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	✓	• Proposed temporary access route within RPA
T19	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	N/A	• None
T20	*Sycamore Acer pseudoplatanus*	A2	N/A	N/A	N/A	N/A	• None
T21	London Plane *Platanus x hispanica*	A2	N/A	N/A	N/A	N/A	• None

2.0 IMPLICATIONS OF PROPOSED DEVELOPMENT UPON EXISTING TREE POPULATION (Continued…)

2.3 Table 2: Mitigation measures required for proposed development & existing tree conflicts

Tree Ref	Species	Category	Mitigation Required
T7	Common Ash *Fraxinus excelsior*	B2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP
T8	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP
T9	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP
T10	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP
T11	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection, as per 'Draft' Tree Protection Plan: GD/230038/dTPP
T12	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP
T13	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP
T14	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP Air spade trench in line with proposed excavation to a depth of 1.0m under arboricultural supervision carrying out root severance with a sharp and sterile pair of secateurs or handsaw
T15	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP Air spade trench in line with proposed excavation to a depth of 1.0m under arboricultural supervision carrying out root severance with a sharp and sterile pair of secateurs or handsaw
T16	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP Air spade trench in line with proposed excavation to a depth of 1.0m under arboricultural supervision carrying out root severance with a sharp and sterile pair of secateurs or handsaw
T17	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP Air spade trench in line with proposed excavation to a depth of 1.0m under arboricultural supervision carrying out root severance with a sharp and sterile pair of secateurs or handsaw
T18	London Plane *Platanus x hispanica*	A2	Install temporary non-compacting cellular confinement ground protection Instal robust tree protection barriers, as per 'Draft' Tree Protection Plan: GD/230038/dTPP

2.0 IMPLICATIONS OF PROPOSED DEVELOPMENT UPON EXISTING TREE POPULATION (Continued…)

2.4 Table 3: Tree work

Tree Ref	Species	Category	Schedule of works prior to erection of tree protection barriers
T3	Common Ash *Fraxinus excelsior*	U1	• Remove to ground level
T4	Common Ash *Fraxinus excelsior*	U1	• Remove to ground level
T6	Common Ash *Fraxinus excelsior*	U1	• Remove to ground level
T9	London Plane *Platanus x hispanica*	A2	• Crown lift western crown to provide minimum 5.0m clearance above ground level
T12	London Plane *Platanus x hispanica*	A2	• Crown lift northern crown to provide minimum 5.0m clearance above ground level
T13	London Plane *Platanus x hispanica*	A2	• Crown lift northern crown to provide minimum 5.0m clearance above ground level
T16	London Plane *Platanus x hispanica*	A2	• Crown lift northern crown to provide minimum 5.0m clearance above ground level
T17	London Plane *Platanus x hispanica*	A2	• Crown lift northern crown to provide minimum 5.0m clearance above ground level

3.0 SUMMARY OF IMPLICATIONS ASSESSMENT

3.1 Table 4: BS: 5837 categories & tree loss

BS: 5837 Category	Quantity	Tree Reference Number
A	0	
B	0	
C	0	
U	3	T3, T4, T6
Total	3	

3.2 Tree loss & Facilitation Pruning

3.2.0 There is no requirement for tree removal to facilitate the proposed works, however, a number of light pruning works, in way of crown lifting, will be required to provide suitable clearance over the site.

3.2.1 As detailed within the tree works (table 3 above) pruning will be required to 5 category A London Plane trees T9, T12, T13, T16 & T17. The works will be limited to minor pruning of the lower branches where necessary to accommodate machinery and temporary structures. The works will have a negligible impact on tree health and will not visually impact on the appearance of the trees nor the amenity benefits they currently provide.

3.2.2 The Common Ash trees T3, T4 and T6 have been recommended for removal regardless of the proposed works due to their current physiological and structural condition and the risk this poses to persons and property both private and public.

3.2.3 I would recommend that suitable replacement planting is carried out following completion of construction works, to mitigate against their loss.

3.0 SUMMARY OF IMPLICATIONS ASSESSMENT (Continued…)

3.3 Discussion of Direct Impacts

3.3.1 The site is located adjacent to a group of mature Category A trees; T8 to T21, which pose a variety of significant constraints upon the proposed works due to their size and proximity.

3.3.2 To suitably rebuild the retaining wall with the appropriate footings I have been informed there is a need to excavate the soils 2750mm from the retaining wall to a depth of approximately 2550mm as indicated within the structural engineers drawing *Ref:078255-CUR-XX-XX-SK-40001 Rev P02*. This will inevitably incur a degree of tree root severance. It is widely accepted that the London Plane tree species is somewhat tolerant to a degree of root pruning, however to what extent pruning is required will be largely unknown until the excavation works begin.

3.3.3 To provide a better understanding as to tree root morphology, I would recommend preliminary root investigation works are conducted, employing air-spade technology, excavating along the outer line of the proposed excavation pit to a depth of 1.0m. This should be carried out under the direct supervision of a suitably qualified arboriculturalist.

3.3.4 If significant roots are encountered and root severance is not deemed appropriate then roots must be retained, covered in a damp hessian cloth and worked around.

3.3.5 During the excavation works it will not be possible to extend the excavation pit beyond the dimensions already specified in order to batter back the sides to a safe angle. As such, either the width of the pit must be reduced to allow for battering, or an alternative method of temporary ground stabilization will have to be utilized.

3.3.6 Following completion of the works, the excavated pit will be backfilled. To improve the viability of this infilled section for roots, I would recommend that the top 1.0m is filled with a good quality topsoil and ameliorated with BioChar®.

3.0 SUMMARY OF IMPLICATIONS ASSESSMENT (Continued…)

3.4 Discussion of Indirect Impacts:

3.4.1 Access entering and exiting the site will require the need for work men and machinery to track over the calculated RPA's of a several trees. To prevent harmful compaction of the soils, a suitably specified, non-compacting ground protection will need to be installed prior to any works commencing on site.

3.4.2 Plant machinery will need to access the site through Whitworth Park. It would be impractical to fence off the entire route through the park however a clearly defined and agreed route must be established prior to works on site. A banksman must be used to guide the machinery at all times. The plant machinery access route must only use the existing hardstanding pathways and only essential plant equipment should be brought onto the site.

3.4.3 Due to the physical constraints posed by the retained trees and limited available room on the immediate site, there is a need to establish a dedicated area to temporarily hold the excavated soils.

3.4.4 The supporting dTPP has highlighted an area outside the RPA of retained trees suitable for the temporary storage of soils.

3.5 Erection of tree protection barriers and laying of non-compacting ground protection

3.5.1 In order to safeguard the retained trees on and adjacent to the site, it will be necessary to erect robust tree protective barriers prior to the commencement of works on site and to ensure that they remain in-situ for the duration of the project.

3.5.2 As discussed above where tree protection fencing is off set to allow construction activities then a suitable non-compacting ground protection must be in place.

4.0 APPRAISAL OF TREE LOSS & RETENTION

4.1 Table 5: Summary of trees

BS: 5837 Category	Remove	Retained		Total
		Tree work	No works	
A	0	5	9	14
B	0	0	3	3
C	0	0	0	0
U	3	0	1	4
Total	3	5	13	21

APPENDIX 1 LIMITATIONS OF REPORT

Limitations of the Arboricultural Implications Assessment

- This assessment is based upon information obtained from the BS: 5837 Tree Survey.
- All dimensions and measurement are based upon previously obtained data the BS: 5837 Tree Survey and from drawings provided to Bartlett Consulting.
- This assessment considers the possible implications to the proposed built structures. Suggestions from an arboricultural perspective may be provided outlining an alternative site layout. Such suggestions must be considered by the project Architect/Designer/or Engineer before implementing any suggestions.

Data on which the assessment is based

- Validity, accuracy and findings of the report are directed by the accuracy of information provided to Bartlett Consulting at the time of conducting the tree survey and during report writing.
- Checking of independent data/information will not be undertaken, with particular reference given to scaled maps and drawings provided to Bartlett Consulting

Validation of the assessment

- The assessment considerations/findings in this report remain valid for a period of one year, from the date of issuance.
- Such considerations/findings will become invalid if any building works are undertaken, soil levels altered, or any unsolicited tree works undertaken.
- If any alterations to the existing building structures, or soil levels, or if any unsolicited tree works have been completed, it is the recommendation of Bartlett Consulting that a new BS: 5837 Tree Survey/report is undertaken to reflect these changes.

Tree in relation to other properties

- This assessment only considers the trees in relation to the site and the proposed structures within it, as identified.
- The assessment does not comment upon trees in relation to structures beyond the boundaries of the site as identified (third party properties).
- Consideration of potential impact upon neighbouring built structures may be provided if pertinent, in the instances where boundary tree planting is proposed/required.
- Damage to, or potential damage to, any other built structures that is not referred to within this report are not considered, unless otherwise stated. This includes both neighbouring structures as well as any other structure on the site.

Trees in relation to subsidence, heave and direct damage

- This report does not deal with matters concerning subsidence or heave to any existing built structure on or neighbouring the site. It may be prudent to consider the effects of heave on any built structure if trees are to be removed.
- Similarly, the issue of direct damage (physical damage caused by tree roots) is not dealt with in this report.

Tree subject to statutory controls

- Whilst Bartlett Consulting has made attempts to ascertain if any of the trees subject to this report are 'protected', their status is always subject to change. Therefore, the final responsibility for checking statutory protection for trees rests with the employed contractor and not with Bartlett Consulting
- Any prescribed tree works to a protected tree are provided due to perceived hazard and risk, and should be considered acceptable by the Local Planning Authority (LPA). However appropriate notification must still be provided to the LPA as they may take an alternative point of view.

Trees are subject to environmental factors

- The statements, findings and preliminary recommendations made within this report do not take into account any effects of extreme climate and weather incidences, vandalism, changes in the natural and built environment around the tree(s) after the date of this report, nor any damage whether physical, chemical or otherwise.

Copyright

- All rights in this report are reserved. The contents and format are for the exclusive use of the addressee in dealing with the site. It may not be sold, lent, hired or divulged to any third party not directly involved in this site without the written consent of Bartlett Consulting.

APPENDIX 2 REPORT REFERENCES

As a progressive company, we keep abreast of research data relating to Arboriculture. All observations, recommendations and works are based on current industry standard reference material and a selection of pertinent items is shown below.

This survey and report have evolved from industry material including the following:

- BS 5837: (2012) *Trees in Relation to Design, Demolition and Construction – Recommendations*
- BS 3998: (2010) *Tree Works - Recommendations*
- Town & Country Planning Act (Tree Preservation) (England) Regulations 2012
- Town & Country Planning Act (As amended) 1990
- Mattheck, C, Bethge K, Weber K. (2015) *The Body Language of Trees – Encyclopaedia of Visual Tree Assessment.* Karlsruhe Institute of Technology Campus North.
- National Joint Utilities Group (2007) *Publication Volume 4: Issue 2 Guidelines for the planning, installation and maintenance of utility apparatus in proximity to trees.*
- National House Building Council Standard, Part 4.2 – *Building Near Trees*

Bartlett Consulting's arboricultural expertise has been used to interpret these references for practical application to the site and the trees which are the subject of this report, and to provide the most appropriate advice and guidance at this stage of project planning.

APPENDIX 3TREE PROTECTION PLANNING

The draft Tree Protection Plan (dTPP) referenced GD/230038/dTPP can be found as an appendix at the end of this report. The TPP has been prepared in accordance with Section 7.1 of British Standard 5837:2012.

Either tree protective fencing or ground protection will be required to safeguard the trees against damage which may be sustained throughout redevelopment of the site, and this plan is indicative of the anticipated locations and/or zone of tree protection measures. The dTPP has also been annotated to show indicative locations where, from an Arboricultural perspective, there is free space for the various demolition and construction requirements as well as site huts, outside of the zone of influence for tree protection & preservation.

The TPP has been drafted at this early stage to inform the client and landowners of these requirements, as well as illustrate how the tree protection measures and tree constraints may influence the free space around the site once development commences.

Vertical Barriers: physical protection measures for the retained trees, which will ensure that the designated RPA becomes an exclusion zone during any stage of development. Fencing will prevent machinery, men, materials, and other site activities from occurring within the RPA or damaging the tree crown.

Vertical barriers should be fit for the purpose of excluding construction activities, and appropriate to the degree and proximity of the site operations. A final specification will be provided once the layout has been finalised and agreed by all parties. An illustration has been included below for reference.

The vertical barriers shall completely exclude access during all phases of site operations. The protected areas shall not be used for the storage of materials or spoil, nor for the mixing of substances or the disposal of any residues. Materials, equipment and arising debris will not be stacked against the vertical barrier, even temporarily. A4 sized Notice Signs must be laminated and attached to the vertical barrier at regular intervals so all visitors and operatives are aware of the tree protection requirements.

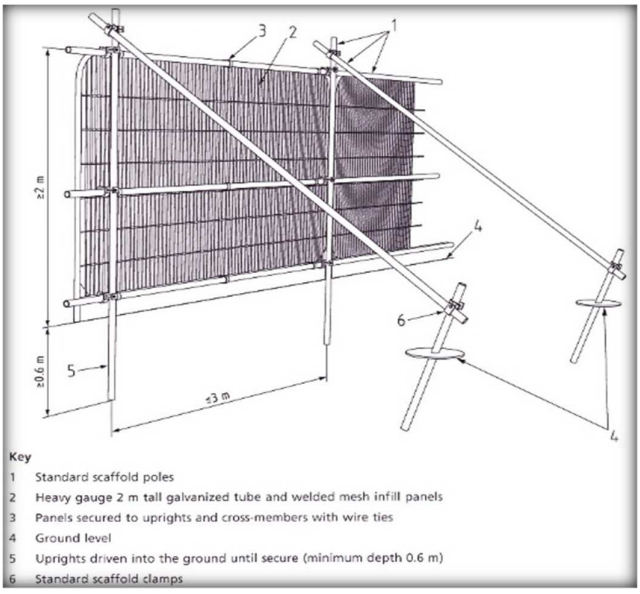


Figure 1: Illustration of Vertical Tree Protection Barrier

APPENDIX 3TREE PROTECTION PLANNING (Continued…)

Where access on room for construction activity is required within the RPA of retained trees a suitably specified temporary non--compacting ground protection must be installed subject to the manufacturers and engineers' instructions and with reference to the instruction below.

Grass either cut short or removed. Sharp sand is to be imported and spread over the area by hand equipment (wheelbarrows, shovels and rakes only) to bring the surface to an even level.

A geotextile material such as Fibretex F4m is to be laid on the surface of the ground.

A 3-dimensional cellular confinement material such as Cellweb Tree Root Protection System supplied by Geosynthetic Technologies Ltd, or similar product is to be laid on top of the geotextile membrane.

Edging supports of railway sleepers or other treated timber or appropriate edging to be laid and pinned to the ground preferably through the cell confinement material.

The cells are to be filled with a no-fines aggregate commencing at the leading edge of the works and progressing forwards. Material can be imported to, and spread within, the working area by small excavators not exceeding 2 tonne capacity providing they work only off the filled cells area.

Typical details of construction are shown within Figure 2.

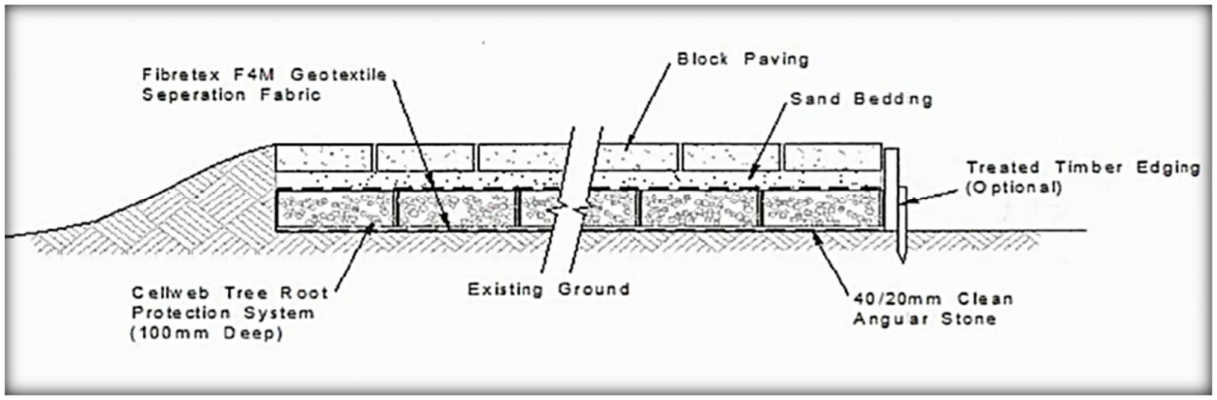
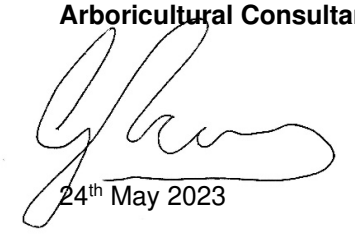
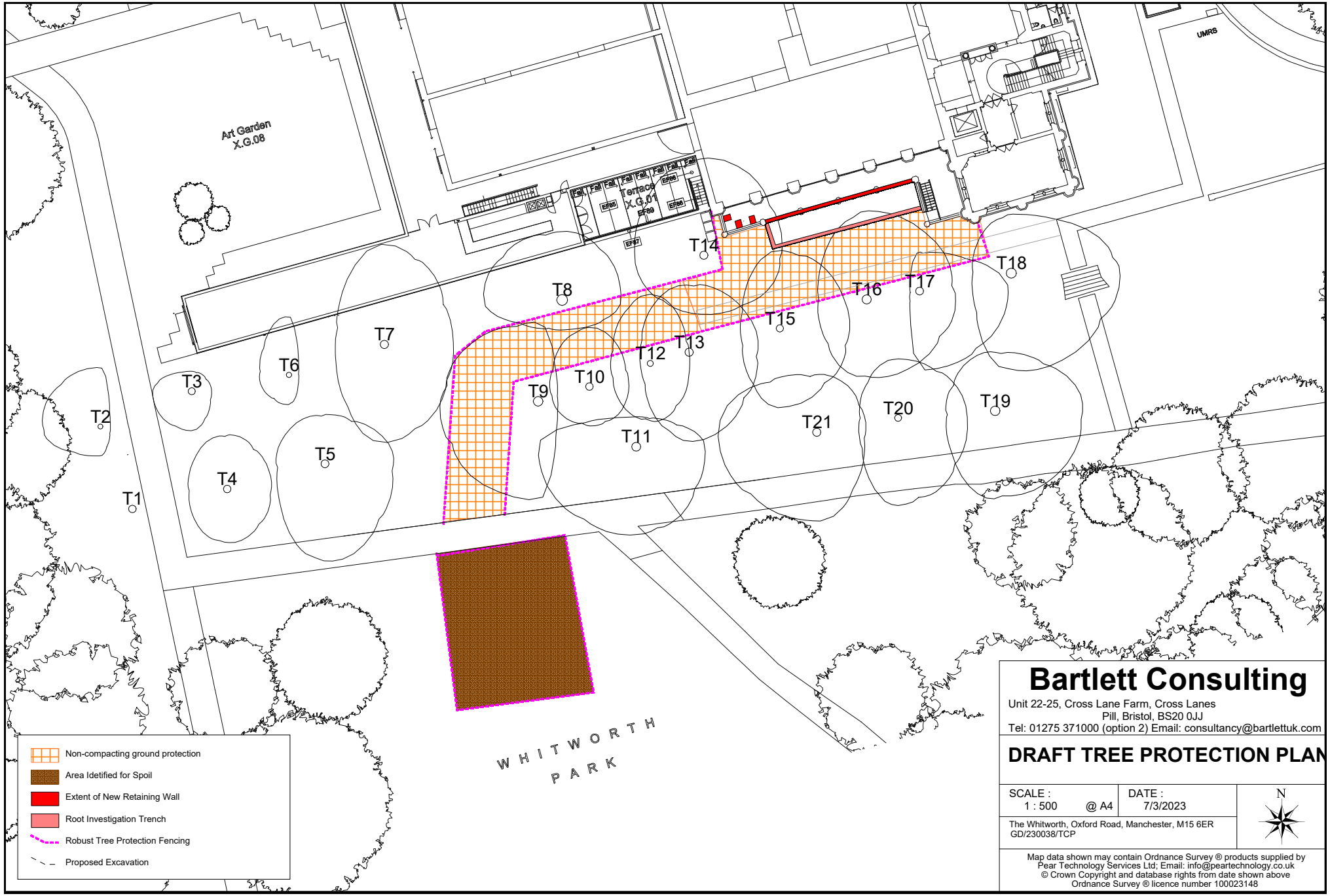


Figure 2: Showing an example of 3D cellular confinement system when applied to support block paving.

● Once erected, both barriers and types of ground protection will be sacrosanct and must not be moved or adjusted during any stage of site operations without the prior written consent of Bartlett Consulting and LPA.

We trust that the contents and recommendations contained within this report were informative, easy to understand and helpful to you, with regards to managing your tree. Should you have any further questions or concerns, please do not hesitate to contact us again.

REPORT CLASSIFICATION:	BS: 5837 Arboricultural Implications Assessment & Draft Tree Protection Plan
REPORT STATUS:	Final
REPORT COMPLETED BY:	Mr G Davies *FdSc Arb* **Arboricultural Consultant**
SIGNATURE:	
DATE:	24th May 2023
REPORT REVIEWED BY:	Mr James Percy-Lancaster **Senior Arboricultural Consultant**
SIGNATURE:	
DATE:	2nd June 2023
REVISED REPORT REVIEWED BY:	Ruth Le Poidevin Consultancy Administrator
SIGNATURE:	R Le Poidevin
DATE:	4th July 2023



Bartlett Consulting

Unit 22-25, Cross Lane Farm, Cross Lanes
Pill, Bristol, BS20 0JJ
Tel: 01275 371000 (option 2) Email: consultancy@bartlettuk.com

DRAFT TREE PROTECTION PLAN

SCALE :	DATE :
1 : 500 @ A4	7/3/2023

The Whitworth, Oxford Road, Manchester, M15 6ER
GD/230038/TCP

N

Map data shown may contain Ordnance Survey ® products supplied by Pear Technology Services Ltd; Email: info@peartechnology.co.uk
© Crown Copyright and database rights from date shown above
Ordnance Survey ® licence number 100023148