



Arboricultural Impact Assessment

in Relation to Proposed Construction of
Detached Garage with Personal Gym at



**110 Marsden Road, Burnley,
Lancashire, BB10 2QP**

Prepared by:

Bowland 
Tree Consultancy Ltd

January 2024

**ARBORICULTURAL IMPACT ASSESSMENT
110 MARSDEN ROAD, BURNLEY**

CONTENTS

1. TREE SURVEY SCHEDULE FOR IMPACT APPRAISAL
2. BS5837: 2012 TABLE 1
3. GENERAL RECOMMENDATIONS FOR WORKS
4. TEMPORARY PROTECTIVE FENCING SPECIFICATION
5. TREE CONSTRAINTS PLAN
6. TREE IMPACT AND PROTECTION PLAN



Unit Two
11 Cannon Street
Preston
Lancashire
PR1 3NR

T: 01772 437150

E: info@bowlandtreeconsultancy.co.uk

Ground Floor
14 Castlegate
Penrith
Cumbria
CA11 7HZ

T: 01768 744450

**ARBORICULTURAL IMPACT ASSESSMENT
110 MARSDEN ROAD, BURNLEY**

PROJECT DETAILS

Project No.: BTC2875

Site: 110 Marsden Road, Burnley, BB10 2QP

Client: RPC Services Ltd

Council: Burnley Borough Council

Survey Date: 12 December 2023

Surveyed by: Joseph Lambert BSc(Hons) FdSc MArborA MICFor

Prepared by: Joseph Lambert BSc(Hons) FdSc MArborA MICFor

Checked by: Phill Harris MSc BSc(Hons) HND MArborA CEnv MICFor

Date of Issue: 12 January 2024

Version No: 1

DISCLAIMER

Survey Limitations: Unless otherwise stated all trees are surveyed from ground level using non-invasive techniques. The disclosure of hidden crown and stem defects, in particular where they may be above a reachable height or where trees are ivy clad or in areas of ground vegetation, cannot therefore be expected. All obvious defects, however, are reported. Detailed tree safety appraisals are only carried out under specific written instructions. Comments upon evident tree safety relate to the condition of said tree at the time of the survey only.

Unless otherwise stated all trees should be re-inspected annually in order to appraise their on-going mechanical integrity and physiological condition. It should, however, be recognised that tree condition is subject to change, for example due to the effects of disease, decay, high winds, development works, etc. Changes in land use or site conditions (e.g. development that increases access frequency) and the occurrence of severe weather incidents are also significant considerations with regards tree structural integrity and trees should therefore be re-assessed in the context of such changes and/or incidents and inspected at intervals relative to identified and varying site conditions and associated risks.

Where trees are located wholly or partially on neighbouring private third-party land then said land is not accessed and our inspection is therefore restricted to what can reasonably be seen from within the site. Stem diameters of trees located on such land are estimated. Any subsequent comments and judgments made in respect of such trees are based on these restrictions and are our preliminary opinion only. Recommendations for works to neighbouring third-party trees are only made where a potentially unacceptable risk to persons and/or property has been identified during our survey. Where significant structural defects of third-party trees are identified and associated management works are considered essential to negate any risk of harm and/or damage then we will first attempt to inform the site occupier of the issues and, if not possible, then inform the relevant Council. Where a more detailed assessment is considered necessary then appropriate recommendations are set out in the Tree Survey Schedule.

Where tree stem locations are not included on the plan(s) provided then they are plotted at the time of the survey using, where appropriate and/or practicable, a combination of measurement triangulation and GPS co-ordination. Where this is not possible then locations are estimated. Restrictions in these respects are detailed in the report.

The tree survey and any report information provided is intended as a guide to identify key tree related constraints to site development only. As such, the potential influence of trees upon existing or proposed buildings or other structures resulting from the effects of their roots abstracting water from shrinkable load-bearing soils is not considered herein. The tree survey information in its current form should not therefore be considered sufficient to determine appropriate foundation depths for new buildings. Accordingly, an updated survey, with reference to the current NHBC Standards Chapter 4.2 – Building Near Trees, must therefore be prepared for the specific purpose of informing suitable foundation depths subsequent to planning approval being granted. The advice of a structural engineer must also be sought with regard to appropriate foundation depths for new buildings.

Copyright & Non-Disclosure Notice: The content and layout of this report are subject to copyright owned by Bowland Tree Consultancy Ltd, save to the extent that copyright has been legally assigned to us by another party or is used by Bowland Tree Consultancy Ltd under license. The report remains the property of Bowland Tree Consultancy Ltd until such time as payment in full for the services conducted as per the contract of Bowland Tree Consultancy Ltd's appointment has been compensated. The report may not be copied or used without our prior written agreement for any purpose other than those indicated. Unauthorised reproduction or usage of the report by any person is prohibited.

Third Parties: Any disclosure of this document to a third party is subject to this disclaimer. The report was prepared by Bowland Tree Consultancy Ltd at the instruction of and for use by our client, as named. This report does not in any way constitute advice to any third party who is able to access it by any means, Bowland Tree Consultancy Ltd excludes to the fullest extent lawfully permitted all liability whatsoever for any loss or damage arising from reliance on the contents of this report.

Statutory Tree Protection: It is the client's responsibility to check for the presence of any statutory tree protection measures, such as the site's location within a Conservation Area and/or the presence of any Tree Preservation Orders, directly with the applicable Council's planning department prior to scheduling or carrying out any tree works. In turn, it is also the client's responsibility to check for the need for a felling licence with the Forestry Commission prior to scheduling or carrying out any tree works. Bowland Tree Consultancy Ltd cannot be held responsible for any decisions made by the client to prune or remove trees where any such statutory protection exists.

Liability: This report was prepared for the sole use of 'The Client' and, where applicable, the client's 'Agent', in accordance with the agreement under which the services were instructed. No warranty, express or implied, is made as to the advice in this report or any other service provided by Bowland Tree Consultancy Ltd. This report may not be relied upon by any other party except the client or any third party for whom the report is intended without the prior written permission of Bowland Tree Consultancy Ltd. The content of this report is, at least in part, based upon information provided by secondary data sources and on the assumption that all relevant information has been provided by those parties from whom it has been requested. Information obtained from any third party has not been independently verified by Bowland Tree Consultancy Ltd, unless otherwise stated in the report.

Validity: The findings and recommendations contained within this report are, providing its recommendations are observed and the site conditions are retained as per the date(s) of the survey, valid for a period of twelve months from the last survey date. This period of validity may be reduced should there be any changes in factors affecting both the surrounding environment and/or built structures in relative proximity to the trees. The condition of trees should be re-appraised directly, through a site survey, following major weather events such as storms, changes undertaken to the site's conditions, inclusive of demolition and/or ground works, or the removal of existing site vegetation, including trees.

TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT APPRAISAL

Site: 110 Marsden Road, Burnley, Lancashire, BB10 2QP

Client: RPC Services Ltd

Surveyor: Joseph Lambert Chartered Arboriculturist

Survey Date: 12 December 2023

Job Reference: BTC2875

No.	Species	Height	Stem Diam.	Branch Spread	Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m ²)	RPA Radius (m)
T1	Common Beech	15.5	640	N 3.5 E 6 S 6 W 3.5	7 2	M	M	<ul style="list-style-type: none"> Tree located in sealed hard standing driveway within small gravel area approximately 1.5x1.5m around stem with block paved border. Canopy previously excessively raised with resultant very small canopy to height ratio, and subsequent reduced stem mass damping abilities. Number of electrical installations (i.e. lights and CCTV cameras) attached to stem between approximately 3-4m height with evident envelopment into stem in parts. Upper canopy showing a moderate reduction in vitality. 	<ul style="list-style-type: none"> Retain tree in context of proposed development. Ensure protection of tree throughout establishment of Construction Exclusion Zone (CEZ) as indicated on Tree Impact and Protection Plan (TIPP) using 'Type 3' fencing and through retention of existing sealed hard surfacing and boundary features. 	10+	C1	185	7.68
T2	Wych Elm	10	1x220 1x180 (ts)#	N 4.5 E 4.5 S 4.5 W 4.5	2.5 2	SM	G	<ul style="list-style-type: none"> Located on neighbouring land beyond 1.8m high wooden panel fence and shrubs and not accessed or viewed in detail. Not projected to be impacted by proposed development works. 	<ul style="list-style-type: none"> Not applicable (N/A). 	10+	C1	37	3.41
T3	Common Holly	7	170#	N 2.5 E 2.5 S 2.5 W 2.5	N/A 1.5	SM	G	<ul style="list-style-type: none"> Located on neighbouring land beyond 1.8m high wooden panel fence and shrubs and not accessed or viewed in detail. Not projected to be impacted by proposed development works. 	<ul style="list-style-type: none"> N/A. 	10+	C1	13	2.04
T4	Common Beech	13.5	350#	N 4.5 E 4.5 S 4.5 W 4.5	2.5-W 2	EM	G	<ul style="list-style-type: none"> Located on neighbouring land beyond 1.8m high wooden panel fence and shrubs and not accessed or viewed in detail. Root Protection Area (RPA) offset to south-west due to low stone retaining wall along boundary of site and sealed hard standing within surveyed site projected to have restricted root growth and development to north-east. RPA not projected to be impacted by proposed development works. 	<ul style="list-style-type: none"> Prune north-east side of canopy to reduce by approximately 2m back to boundary fence to facilitate development as proposed. NB: Tree located on neighbouring third party land and, as such, all works to be undertaken from within site curtilage by suitably qualified tree contractor following notification to applicable tree owner(s). 	20+	B1	55	4.2

Headings and Abbreviations:

No. - Allocated sequential reference number - Tree (T), Group (G), Woodland (W) or Hedge (H) reference number - refer to plan and to numbered tags where applicable
Species: - Common name
Height: - In metres, to half nearest metre - where possible approximately 20% are measured using an electronic clinometer and the remainder estimated against the measured trees. In the case of Groups and Woodlands the measurement listed is that of the highest tree
Stem Diam.: - Stem diameter in millimetres, to nearest 10mm - measured and calculated as per Annex C of BS5837:2012. MS = multi-stemmed, TS = twin-stemmed
Branch Spread: - Crown radius measured (or estimated where considered appropriate) from the four cardinal points (north, east, south and west) to give an accurate visual representation of the crown
Branch & Canopy Clearances: - Existing height above ground level, in metres, of first significant branch and direction of growth (e.g. 2.5-N) and of canopy at lowest point - to inform on crown to height ratio, potential for shading, etc.
Life Stage: - Estimated age class - Y = young, SM = semi-mature, EM = early-mature, M = mature, PM = post-mature
PC: - Physiological Condition - a measure of the tree's overall vitality, i.e. D = Dead, MD = Moribund, P = Poor, M = Moderate, G = Good
General Observations and Comments: - Comments relating to the tree's overall condition and any other pertinent factors including structural defects, current and potential direct structural damage, physiological decline, poor form, etc.
Management Recommendations: - Either Preliminary or In Consideration of the Proposal - In the case of Arboricultural Constraints Surveys the recommended management works only take existing site and tree circumstances and conditions into account and not proposed developments. Arboricultural Impact Assessment and Method Statement related Surveys take the proposed development into consideration with recommendations made accordingly. More than one option may be given if considered appropriate

ERC: - Estimated Remaining Contribution - in years as per BS5837:2012 (i.e. <10, 10+, 20+, 40+)
Cat. Grade: - Category Grading - tree retention value listed as U, A, B or C - in accordance with BS5837:2012 Table 1
RPA m²: - Root Protection Area in m² - calculated area around the tree that must be appropriately protected throughout the development process in order avoid root damage
RPA Radius (m): - Root Protection Area Radius - in metres measured from the centre of the stem to the line of tree protection
(Estimated Dimensions): - Where trees are located off-site, or are inaccessible for any other reason, and accurate measurements or other information cannot be taken then the information provided is estimated and is duly suffixed with a '#' symbol

TREE SURVEY SCHEDULE FOR ARBORICULTURAL IMPACT APPRAISAL

Site: 110 Marsden Road, Burnley, Lancashire, BB10 2QP

Client: RPC Services Ltd

Surveyor: Joseph Lambert Chartered Arboriculturist

Survey Date: 12 December 2023

Job Reference: BTC2875

No.	Species	Height	Stem Diarn.	Branch Spread	Branch & Canopy Clearances	Life Stage	PC	General Observations and Comments	Management Recommendations	ERC	Cat. Grade	RPA (m ²)	RPA Radius (m)
T5	Sycamore	11	280#	N 3 E 3 S 2.5 W 2.5	N/A 2	SM	G	<ul style="list-style-type: none"> Located on neighbouring land beyond 1.8m high wooden panel fence and shrubs and not accessed or viewed to inspect in detail. RPA offset to south-west due to low stone retaining wall along boundary of site and sealed hard standing within surveyed site projected to have restricted root growth and development to north-east. Not projected to be impacted by proposed development works. 	N/A.	20+	B1	35	3.36
T6	Common Beech	11	160#	N 3 E 2.5 S 2.5 W 2.5	N/A 2	SM	G	<ul style="list-style-type: none"> Located on neighbouring land beyond 1.8m high wooden panel fence and shrubs and not accessed or viewed to inspect in detail. Not projected to be impacted by proposed development works. 	N/A.	20+	B1	12	1.92
T7	Sycamore	14.5	550#	N 2 E 2.5 S 6.5 W 6.5	6.5-S 2.5	M	M	<ul style="list-style-type: none"> Located on neighbouring land beyond 2m high wooden panel fence and shrubs and not accessed or viewed to inspect in detail. Dense Ivy throughout further impeded inspection. Very highly biased canopy south and west. Tree located sufficient distance from proposed development and, as such, not projected to be impacted by works. 	N/A.	10+	C1	137	6.6
T8	Wild Cherry	12	300#	N 3 E 4.5 S 3 W 3	3-E 2.5	EM	M	<ul style="list-style-type: none"> Located in unclear boundary behind dog kennel and unable to access or inspect in detail. Dense Ivy throughout. Not projected to be impacted by proposed development works. 	N/A.	10+	C1	41	3.6
G1	Goat Willow, Leyland Cypress, Horse Chestnut	≤ 5.5	≤ 120#	N ≤ 2 E ≤ 2.5 S ≤ 2.5 W ≤ 2.5	N/A ≥ 0	SM	G	<ul style="list-style-type: none"> Located on neighbouring land and not accessed or inspected in detail. Evidently managed on site side back to boundary. Not projected to be impacted by proposed development works. 	N/A.	10+	C1	≤ 7	≤ 1.44
H1	Leyland Cypress	2	N/A	≈ 1 wide	N/A 0	SM	G	<ul style="list-style-type: none"> Hedge regularly managed from here to rear boundary. Not projected to be impacted by proposed development works. 	N/A.	10+	C1	N/A	≈ 0.5

BS5837:2012 Table 1 – Cascade Chart for Tree Quality Assessment

Category and definition	Criteria (including subcategories where appropriate)			Identification on plan
<p>Trees unsuitable for retention (see Note)</p> <p>Category U</p> <p>Those in such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years</p>	<p>Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other category U trees (e.g. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</p> <ul style="list-style-type: none"> ■ Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline ■ Trees infested with pathogens of significance to the health and/or safety of other trees nearby, or very low quality trees suppressing adjacent trees of better quality <p>Note: <i>Category U trees can have existing or potential conservation value which it might be desirable to preserve; see BS5837:2012 paragraph 4.5.7.</i></p>			Red
<p align="center">3. Mainly cultural values, including conservation</p>				
<p>Trees to be considered for retention</p>				
<p>1. Mainly arboricultural qualities</p>				
<p>2. Mainly landscape qualities</p>				
<p>3. Mainly cultural values, including conservation</p>				
<p>Category A</p> <p>Trees of high quality with an estimated remaining life expectancy of at least 40 years</p>	<p>Trees that are particularly good examples of their species, especially if rare or unusual; or those that are essential components of groups or formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)</p>	<p>Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features</p>	<p>Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)</p>	Green
<p>Category B</p> <p>Those of moderate quality and value: those in such a condition as to make a significant contribution. A minimum of 20 years is suggested.</p>	<p>Trees that might be included in the high category, but are downgraded because of impaired condition. Examples include the presence of remediable defects including unsympathetic past management and minor storm damage</p>	<p>Trees present in numbers, usually as groups or woodlands, so they form distinct landscape features which attract a higher collective rating than they might as individuals. But which are not, individually, essential components of formal or semi-formal arboricultural features. For example, trees of moderate quality within an avenue that includes better, A category specimens. Or trees which are internal to the site, therefore individually having little visual impact on the wider locality</p>	<p>Trees with clearly identifiable conservation or other cultural benefits</p>	Blue
<p>Category C</p> <p>Those trees of low quality and value: currently in adequate condition to remain until new planting could be established - a minimum of 10 years is suggested - or young trees with a stem diameter below 150 mm</p>	<p>Trees not qualifying in higher categories</p>	<p>Trees present in groups or woodlands, but without this conferring on them significantly greater landscape value, and/or trees offering low or only temporary screening benefit</p>	<p>Trees with very limited conservation or other cultural benefits</p>	Grey
<p>Note – Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150mm should be considered for relocation</p>				

GENERAL WORKS RECOMMENDATION ARBORICULTURAL IMPACT ASSESSMENT	
Site:	110 Marsden Road, Burnley, Lancashire, BB10 2QP
Client:	RPC Services Ltd

Surveyor:	Joseph Lambert Chartered Arboriculturist
Survey Date:	12 December 2023
Job Reference:	BTC2875

General Recommendations in Respect of Works:

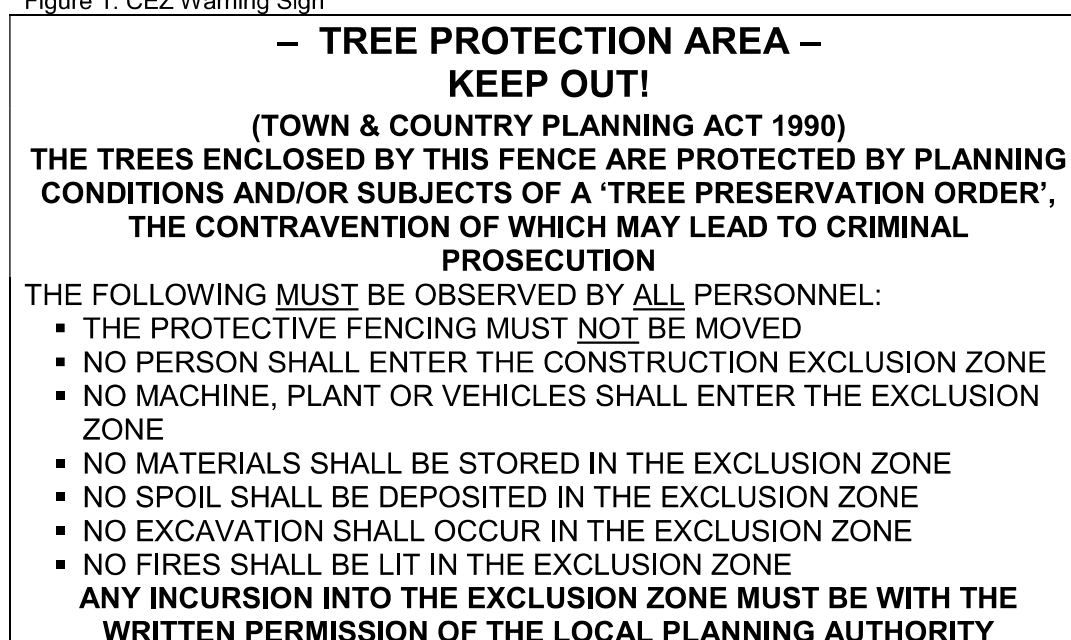
- Any tree works should be implemented by suitably qualified and experienced arboricultural contractors in accordance with the tree works detailed in the Tree Survey Schedule prior to the erection of the Temporary Protective Fencing.
- Any tree works should conform to British Standard BS3998:2010 Tree Work - Recommendations.
- Performance of all arboricultural operations and use of equipment should be in accordance with current directives of the Health and Safety Executive (HSE) and industry codes of practice.
- All operatives should be equipped with and use Personal Protective Equipment (PPE) in accordance with current directives of the HSE and industry codes of practice.
- All tree stumps scheduled for removal that are located within a distance of 6.0 metres of any retained tree should be removed by mechanical stump grinder and not by mechanical excavator.
- All possible efforts should be made by the tree contractor and any other site operatives to prevent damage to retained trees.
- There shall be no vehicular or plant (e.g. wood chipper) access within the RPAs of retained trees that are not under hard surfaced areas, as detailed on the TPP.
- All tree works arising should be removed from the site.
- No services are to be installed below ground level within RPAs.
- No construction related operations should occur within RPAs, unless specifically detailed and agreed with the LPA tree officer.
- No concrete should be mixed within RPAs.
- No excavation or any other operations should occur within the RPAs, other than as detailed and agreed with the LPA tree officer.
- All construction equipment and materials should be stored outside RPAs.
- No fires should be lit within 15.0m of any tree crown.
- Deliveries by crane should be supervised by the Site Manager, positioning the vehicle in such a manner that retained trees are not put at risk of damage.
- No substances with potential to contaminate the soil (e.g. chemicals, concrete washings, diesel, vehicle washings, etc.) should be discharged within 10.0 of any tree crown. This should take into consideration the topography of the site in order to avoid materials running towards trees.
- No notice boards, phone cables or services should be attached to any part of any tree.
- A log should be kept of any activity or incident with an impact or potential impact on protected trees and made available at all times for review by the Project Tree Consultant and the Tree Officer.

- TEMPORARY PROTECTIVE FENCING & GROUND PROTECTION SPECIFICATION -

Construction Exclusion Zones (CEZs), shall be enclosed by **Temporary Protective Fencing** and/or, where necessary, **Temporary Ground Protection Measures**. The fencing/ground protection Type(s), locations, and extents shall be agreed, in writing, with the Local Planning Authority (LPA). In turn, the **Temporary Protective Fencing** and/or **Temporary Ground Protection Measures** shall:

1. be constructed as in accordance with the Type 1, Type 2 or Type 3 'Temporary Protective Fencing Construction' sections and, where applicable the 'Temporary Ground Protection Measures' section, as detailed herein and agreed, in advance with the LPA;
2. be retained in place throughout the development process until completion of the project, and only removed following receipt of written permission from the LPA;
3. be sited in the area(s) defined by the Root Protection Areas on the associated Tree Impact Plan, or as the CEZs on the Tree Protection Plan;
4. be erected prior to any construction, demolition or excavation works and remain in place for the duration of the project;
5. preclude any delivery of site accommodation and/or materials and/or plant machinery;
6. preclude all construction related activity, with the sole exception of specified arboricultural works and any other works to be carried out under supervision that have been agreed by all parties;
7. preclude the storage of all development related materials and substances including fuels, oils, additives, cement and/or any other deleterious substance; and
8. be affixed with a 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1, below), at every 10.0 metre length of protective fencing.
9. Important: Any incursion into CEZs must be by prior arrangement, following consultation with the LPA.

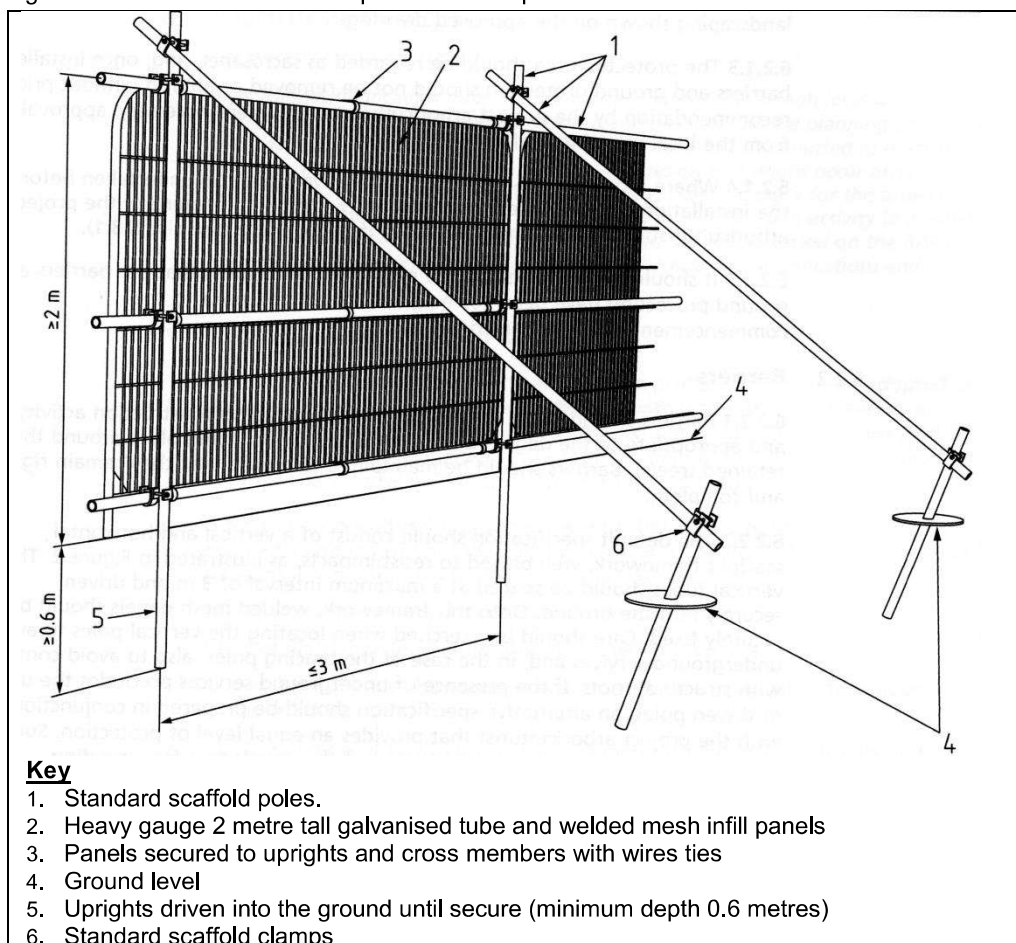
Figure 1: CEZ Warning Sign



Type 1 (i.e. 'Default') Temporary Protective Fencing Construction (see Figure 2, below)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall butt together and be securely fixed to a scaffold framework, as per points 3 to 5 of Figure 2, overleaf.
3. The scaffold framework shall comprise of upright poles of at least 3.0 metres in length driven no less than 0.6 metres into the ground at maximum 3.0 metre centres with horizontal and diagonal poles fixed to the uprights, as per points 4 to 5.
4. The two horizontal rail poles shall be attached to the uprights at heights of 0.6 and 1.8 metres with 3 no. clamps to each joint.
5. The diagonal scaffold pole struts be clamped to the top rail of the scaffold framework at a 45° angle and extend back into the CEZ and clamped to a 0.7 metre length of scaffold tube that shall be driven no less than 0.5m into the ground.
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

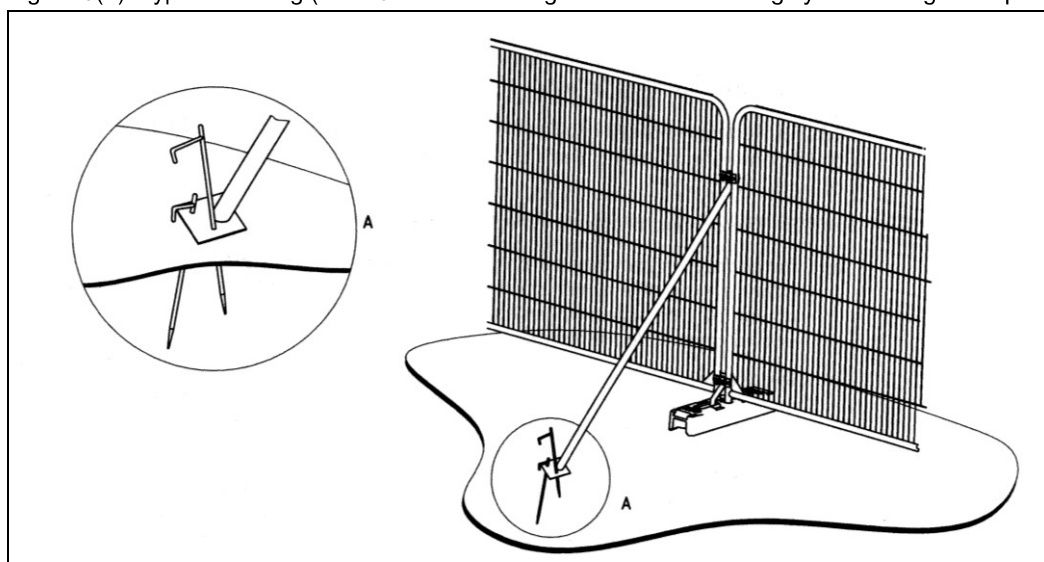
Figure 2: BS5837:2012 Default specification for protective barrier



Type 2 Temporary Protective Fencing Construction (see Figure 3(a), below)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall stand on rubber or concrete feet.
3. The panels shall butt together, and be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence.
4. The distance between the fence couplers shall be at least 1.0 metre, and shall be uniform throughout the fence.
5. The panels shall be supported on the inner side by stabiliser struts, which shall be clamped to the scaffold framework at a 45° angle and extend back into the CEZ and shall be attached to a base plate, which shall be secured to the ground with pins (Figure 3a).
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

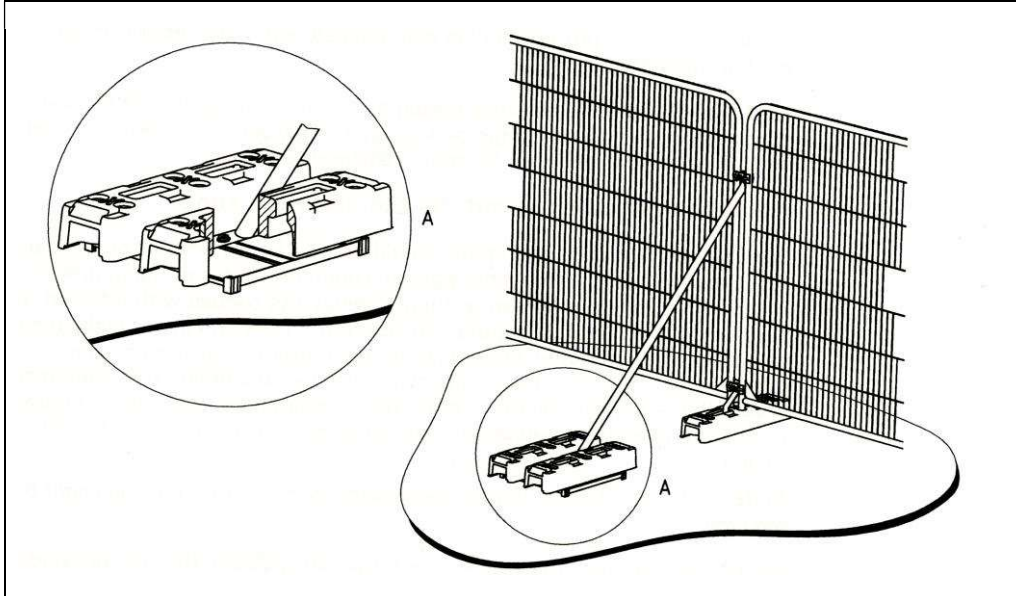
Figure 3(a): Type 2 Fencing (BS5837:2012 above-ground strut stabilising system with ground pins)



Type 3 Temporary Protective Fencing Construction (see Figure 3(b), overleaf)

1. Temporary protective fencing panels shall be weldmesh "Heras" panels of at least 2.0 metres in height.
2. The panels shall stand on rubber or concrete feet.
3. The panels shall butt together, and be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence.
4. The distance between the fence couplers shall be at least 1.0 metre, and shall be uniform throughout the fence.
5. The panels shall be supported on the inner side by stabiliser struts, which shall be clamped to the scaffold framework at a 45° angle and extend back into the CEZ and shall be attached to a block tray base (Figure 3b).
6. No fixing shall be made to any tree and all possible precautions shall be taken to prevent damage to tree roots when locating posts.
7. A 600mm x 300mm warning sign reading "TREE PROTECTION AREA KEEP OUT" (see Figure 1) shall be fixed to every 10.0 metre length of protective fencing.
8. On completion of erection, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Protective Fencing.

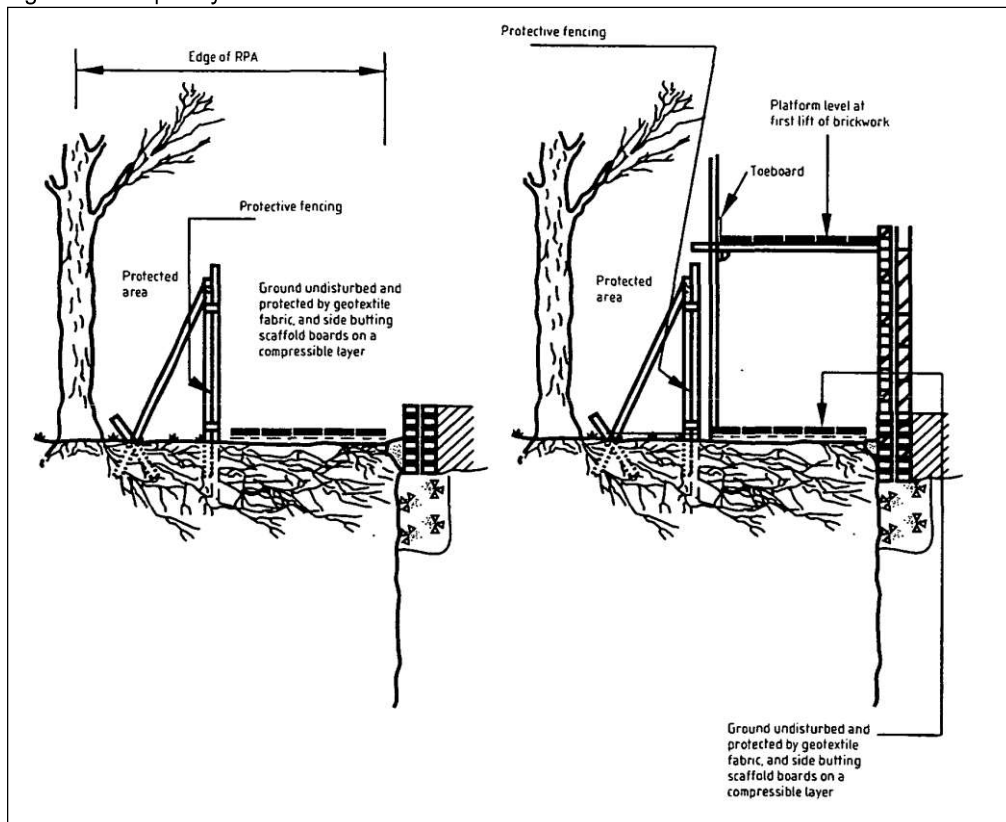
Figure 3(b): Type 3 Fencing (BS5837:2012 above-ground stabilising system with strut on block tray)



Temporary Ground Protection

1. Any necessary Temporary Ground Protection areas shall conform to Figure 4, below, unless otherwise agreed with the LPA.
2. The Ground Protection Area shall be left undisturbed and covered by a semi-permeable geotextile membrane which shall, in turn, be covered by a compressible layer consisting of a material such as woodchip.
3. Side-butting scaffold boards shall then be fitted to cover the Ground Protection Area.
4. On completion of installation, and prior to any demolition or construction works, site preparation, excavation or delivery of plant and materials, the Consulting Arboriculturist or the LPA Tree Officer, as agreed, shall inspect the Temporary Ground Protection.
5. The Temporary Ground Protection shall remain in place until completion of the project and only removed following receipt of written permission from the LPA.

Figure 4: Temporary Ground Protection – Recommended Construction



KEY

T = Individual Tree
 G = Group of Trees
 H = Hedge

Please refer to associated Tree Survey Schedule and appendices for specific details in respect of items below:

Tree Categorisations:

Those to be Considered for Retention:

Category 'A' Tree/Group/Hedge
 Those of a High Quality with an Estimated Remaining Life Expectancy of at Least 40 Years

Category 'B' Tree/Group/Hedge
 Those of a Moderate Quality with an Estimated Remaining Life Expectancy of at Least 20 Years

Category 'C' Tree/Group/Hedge
 Those of a Low Quality with an Estimated Remaining Life Expectancy of at Least 10 Years, or Young Trees

Those Considered Unsuitable for Retention:

Category 'U' Tree/Group/Hedge
 Those in Such a Condition that they Cannot Realistically be Retained as Living Trees in the Context of the Current Land Use for Longer Than 10 Years

Note: The locations of the surveyed trees, groups and hedges are not included on the ordnance survey based plan provided, and were subsequently plotted by the subcontractor at the time of the survey. As such, the locations of the trees, groups and hedges cannot therefore be considered to be entirely accurate.

Root Protection Areas (RPAs):

RPAs
 Areas of Ground Around Trees that Should be Protected Throughout Development. The RPAs are defined in terms of a 'Construction Exclusion Zone' and Temporary Protective Fencing Specification

Project:
 110 MARSDEN ROAD
 BURNLEY
 LANCASHIRE
 BB10 2QP

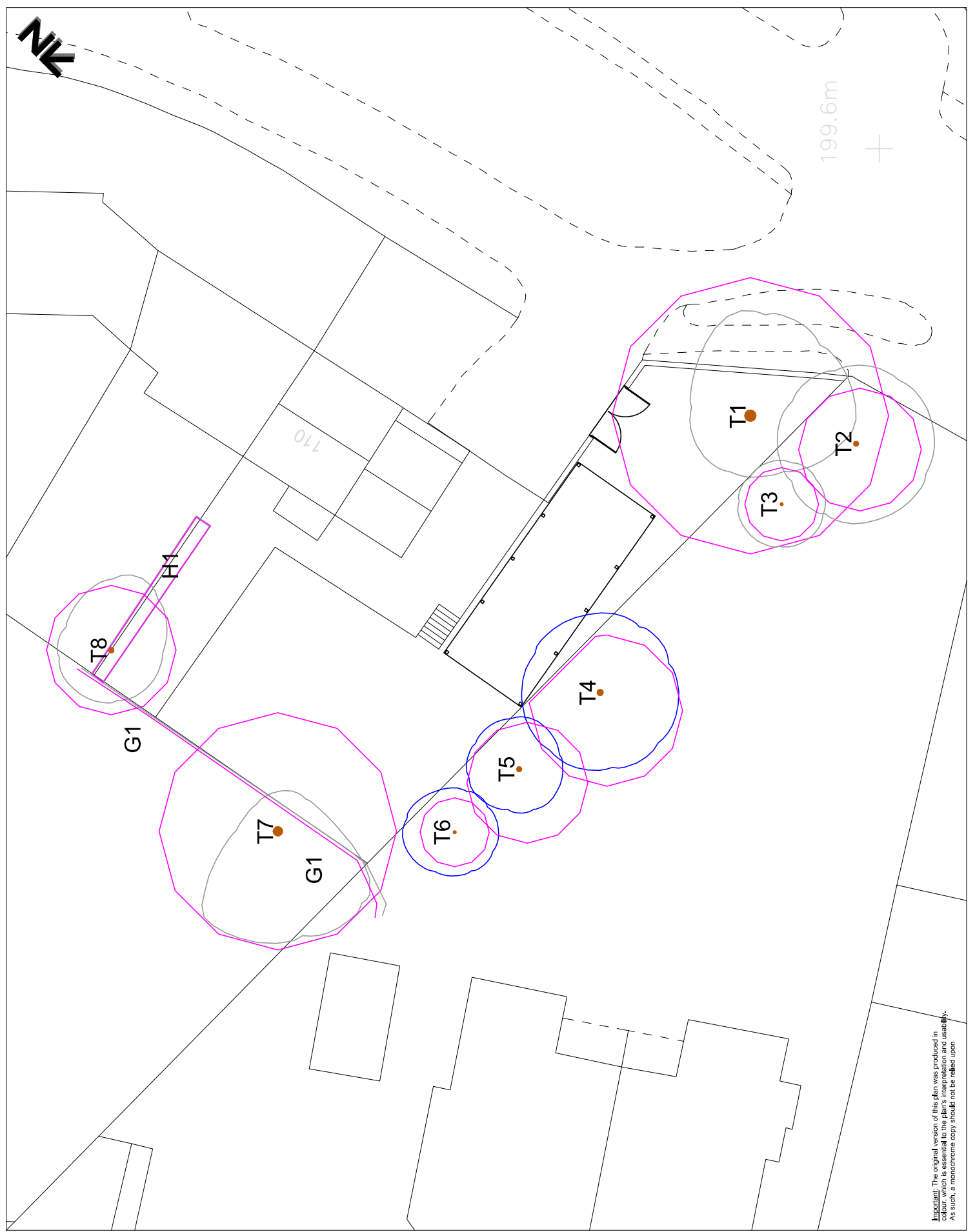
Client:
 RPC SERVICES LTD

Title:
TREE CONSTRAINTS PLAN
 In Relation to Proposed Construction of Detached Garage with Personal Gym

Scale: 1:200@A3
 Date: December 2023
 Drawn by: JL
 Checked by: PH

Bowland
 Tree Consultancy Ltd
 e: info@bowlandtreeconsultancy.co.uk
 t: 01252 510100

Ref: BT23/75-CP Rev:



Important: The original version of this plan was produced in colour, which is essential to the plan's interpretation and usability. As such, a monochrome copy should not be relied upon

KEY

- T = Individual Tree
- G = Group of Trees
- H = Hedge

Please refer to associated Tree Survey Schedule and appendices for specific details in respect of items below:

Tree Categorisations:

Those to be Considered for Retention:

- Category 'A' Tree/Group/Hedge
Those of a High Quality with an Estimated Remaining Life Expectancy of at Least 40 Years
- Category 'B' Tree/Group/Hedge
Those of a Moderate Quality with an Estimated Remaining Life Expectancy of at Least 20 Years
- Category 'C' Tree/Group/Hedge
Those of a Low Quality with an Estimated Remaining Life Expectancy of at Least 10 Years, or Young Trees

Those Considered Unsuitable for Retention:

- Category 'U' Tree/Group/Hedge
Those for which a Condition that the Crown Root System is Retained as Living Trees in the Context of the Current Land Use for Longer Than 10 Years

Note: The locations of the surveyed trees, groups and hedges were not included on the ordnance survey based plan provided, and were subsequently plotted by the subcontractor at the time of the site visit. As such, the locations of the trees, groups and hedges cannot therefore be considered to be entirely accurate.

Root Protection Areas (RPAs):

- RPAs
Areas of Ground Around Trees that Should be Protected Throughout Development and Construction to Form a Construction Exclusion Zone - see Temporary Protective Fencing Specification

Tree Protection Measures:

- Construction Exclusion Zones (CEZs)
Areas of Ground Around Retained Trees to be Protected Throughout Development and Construction to Form a Construction Exclusion Zone - see Temporary Protective Fencing Specification

Note: Temporary fencing to be installed prior to commencement of development works and to remain in place for duration of works

Project:
110 MARSDEN ROAD
BURNLEY
LANCASHIRE
BB10 2QP

Client:
RPC SERVICES LTD

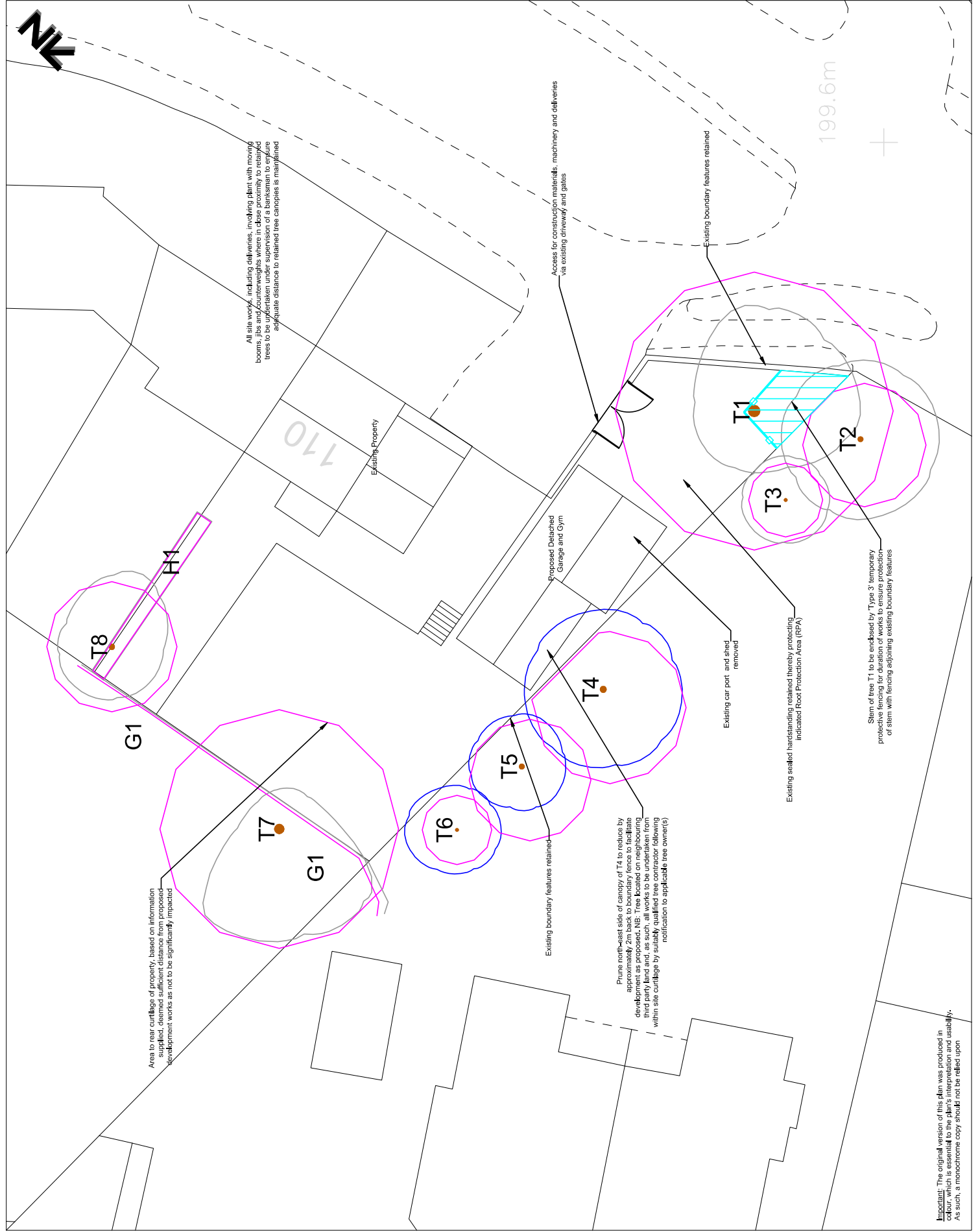
Title:
TREE IMPACT AND PROTECTION PLAN

in accordance with the provisions of the Tree Preservation Act 1965

Scale: 1:200@A3
Date: January 2024
Drawn by: JL
Checked by: PH



Ref: BT23/75-TTP Rev.



Stem of tree T1 to be enclosed by Type 2 temporary protective fencing for duration of works to ensure protection of stem with fencing adjoining existing boundary features

Important: The original version of this plan was produced in colour, which is essential to the plan's interpretation and usability. As such, a monochrome copy should not be relied upon