

**Appendix 1 Tree survey and explanatory notes**

**Tree Survey Schedule**

**Site:** Witchtree Farm

**Date of Survey:** 30/11/2023

**Arboricultural Consultant/Surveyor:** J Choat

**Weather:** Clear, dry, light wind

Tree ref	Species Common and Scientific	Height in m	Stem diameter in mm	Radial distance required for RPA	Branch spread				Height of crown clearance in m	Age class	Ground condition	Water demand	Observations	Preliminary management recommendations	Works urgency	Estimated remaining contribution in years	Category grading
					N	E	S	W									
T1	Horse-chestnut Aesculus hippocastanum	19	1110	13.32	7	7	7	7	1	M	Bare soil	Moderate	Old fruit body at 1m, appears to be dryads saddle, associated with decay to sapwood from exposed wound. Bark detached to 4m.	Reduce crown by 3m. Monitor every 12 months to determine if decay is advancing, use of resistograph.	3	20	C1
T2	Horse-chestnut Aesculus hippocastanum	19	840	10.08	7	7	3	7	1	M	Bare soil	Moderate	Asymmetric crown. Several bud proliferation burs to 3m.	None	0	25	B1
T3	Cherry Sp Prunus Sp	12	420	5.04	3	5	5	5	2	M	Bare soil	Moderate	Within 3m of dwelling, crown causing nuisance of branch encroachment over roof, previously target pruned.	Consider removal.	3	10	C1
G1	Lawson's Cypress Chamaecyparis lawsoniana	15	470	5.64	2	2	2	2	1	EM	Bare soil	High	2 trees sharing crown, northern tree with dB of 290.	None	0	10	C1
T4	Lime Tilia Sp	10	700	8.4	2	2	2	2	0	M	Bare soil	Moderate	Basal preventing inspection. Topped at 7m. Within 3m of dwelling, crown and basal touching dwelling.	Option 1 Repollard /top. Option 2 Fell and replace.	3	10	C1
G2	Chamaecyparis obtusa Lawsons Cypress obtusa	4	100	1.2	1	1	1	1	0	Y	Bare soil	High	Maintained within outgrown shrub bed.	None	0	10	C1
T5	Apple Sp Malus Sp	6	240	2.88	4	2	2	2	1	M	Bare soil	Moderate	Asymmetric crown.	None	0	15	C1
T6	Pear Pyrus communis	12	500	6	3	3	3	3	1	M	Bare soil	Moderate	Rooted in unmanaged area, unable to fully assess. Compression fork at base, and again at 2m. Ivy clad to higher crown.	None	0	20	B1
T7	Apple Sp Malus Sp	6	400	4.8	4	2	2	2	1	M	Bare soil	Moderate	Rooted in unmanaged area, unable to fully assess. Asymmetric crown. Leaning stem. Dead branch / stem at 1m. Cavity at 1m.	Fell	3	5	C1
T8	Lawson's Cypress Chamaecyparis lawsoniana	7	530	6.36	2	2	2	2	0	M	Bare soil	High	Within 3m of dwelling, crown causing nuisance of branch encroachment over roof, previously topped.	Fell	3	10	C1
G3	Lawson's Cypress Chamaecyparis lawsoniana	15	450	5.4	2	2	2	2	0	M	Bare soil	High	Group of trees lining driveway. Varying DBH at approx. 450mm average.	None	0	20	C1

G4	Lawson's Cypress Chamaecyparis lawsoniana	15	450	5.4	2	2	2	2	0	M	Bare soil	High	Group of trees lining driveway. Varying DBH at approx. 450mm average.	None	0	20	C1
G5	Lawson's Cypress Chamaecyparis lawsoniana	15	400	4.8	2	2	2	2	1	M	Bare soil	High	Group of spruce and Lawson cypress. Planted at 1.5m centres causing restricted lateral growth.	None	0	15	C1
G6	Lawson's Cypress Chamaecyparis lawsoniana	15	300	3.6	2	2	2	2	0	M	Bare soil	High	2 trees sharing crown.	None	0	20	C1
T9	Silver Birch Betula pendula	17	879	10.548	5	5	5	5	1	M	Grass	Low	Stem forks at 1m to form 3 co-dominant stems. Slight over extension of 2 lower primary laterals. Ivy clad to higher crown. Large rib on northern aspect at base,	Sever ivy and allow to die off, reinspect once ivy has died / fallen.	3	20	B1
G7	Silver Birch Betula pendula	15	400	4.8	3	3	3	3	0	EM	Grass	Varies	Group of Lawson cypress and alternate birch planted at 2m centres. Lower laterals from the birch are growing through the crown of the Lawson cypress.	Remove the cypress in favour of birch.	3	20	C1
T10	Willow Salix Sp	18	800	9.6	6	6	6	6	1	M	Grass	High	Tensile fork at 1.2m. Occasional deadwood within crown.	None	0	20	B1
T11	Ash Fraxinus excelsior	15	600	7.2	4	4	4	4	2	M	Grass	Moderate	Multi stem, lapsed coppice. Small split in one stem. Elm growing within coppice.	None	0	20	C1

## Explanatory Notes

### Referencing

Each tree is given a unique reference number and plotted on the attached plans for clear identity. Individual trees are referenced as T1, T2 etc., Groups G1, G2 etc. Hedgerows H1, H2 etc. and Woodlands W1, W2 etc.

### Species

All species are recorded using common names. Identification is made using experience and knowledge.

### Tree dimensions

Tree height is measured and recorded in meters and taken from the base of the stem to the tip of the crown. Height is estimated using experience and knowledge.

Diameter at Breast Height (DBH) is measured at approximately 1.5m from the ground up the stem and is measured and recorded in millimeters. DBH is measured accurately using a diameter tape.

Crown spread is measured in meters from the stem to the extent of the crown spread to each compass point (NESW). Crown spread is estimated using experience and knowledge.

Crown clearance is the height from ground level to the lowest branch and is measured in meters. Crown clearance is estimated using experience and knowledge.

### Age class

Age class falls in to 4 categories:

Y	Young
EM	Early Mature
M	Mature
OM	Over Mature

### Observations

The biological condition of the tree is assessed and noted. Notable defects are recorded; fruiting bodies, cankers, die back, exudates, etc. are recorded.

The mechanics of the tree are assessed and noted. Notable defects are recorded; buckling, rib formation, stresses, bulges, soil cracks, large cavities or wounds, tight branch junctions, etc. are recorded.

### Preliminary management recommendations

Tree management is recommended following the assessment of physiological and structural condition. Recommended works may include, no work required, crown reduction, crown lift, fell, crown thin, monitor etc.

### Estimated remaining contribution in years

An estimate of remaining life expectancy recorded in years. Estimated remaining contribution is made using experience considering the structural and physiological condition of the tree, nuisance, previous management, etc.

### Category grading and colour coding on plan

A (Green square) high quality and value

B (Blue square) moderate quality and value

C (Grey square) low quality and value

U (Red Square) those that cannot be retained as living trees

## **Sub categories**

- 1 arboricultural values
- 2 landscape values
- 3 cultural values, including conservation

## **Works priority**


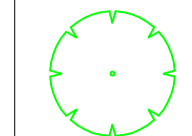
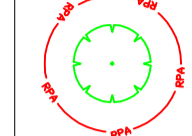
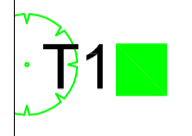
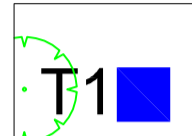


- 1 Works required immediately to make the tree safe
- 2 Works required within 60 days
- 3 Works required as part of routine operations
- 0 no works required

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**Appendix 2 Tree survey and constraints plan**



Legend:

- Tree reference 
- Tree and crown spread 
- Root protection area 
- BS 5837 Retention Category A 
- BS 5837 Retention Category B 
- BS 5837 Retention Category C 
- BS 5837 Retention Category U 

Notes:

This drawing was produced in colour; a monochrome copy should not be relied upon.



Project:

Witchtree Farm, Witchtree Lane, Hempstead

Drawing Title:

Tree Survey and Constraints Plan

**TPS**

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## Appendix 3 Barrier construction profile

Permission to reproduce extracts from BS 5837:2012 is granted by the British Standards Institution (BSI). No other use of this material is permitted. The complete British Standard can be purchased from the BSI online shop: <http://shop.bsigroup.com/en/ProductDetail/?pid=00000000030213642>

Diagram 1 Weldmesh panels with block supports pegged to brace light impact

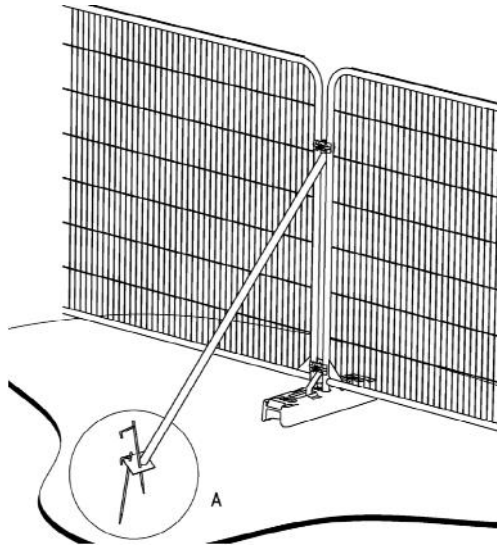


Diagram 2 Weldmesh panels with block supports and further block supports to brace intermediate impacts

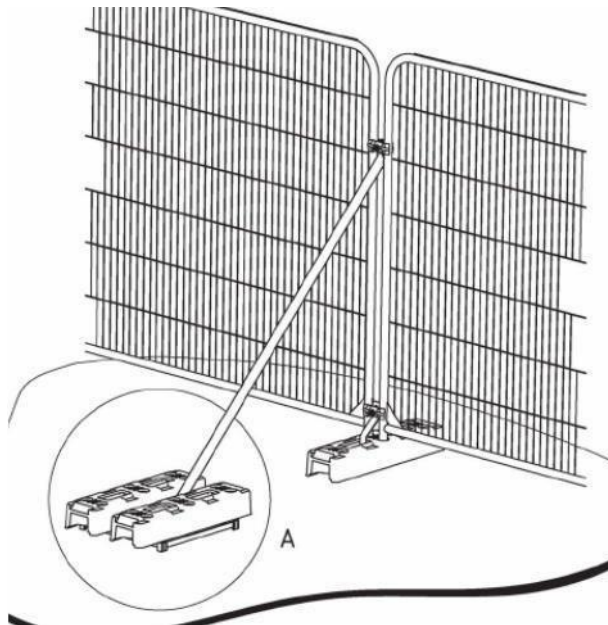
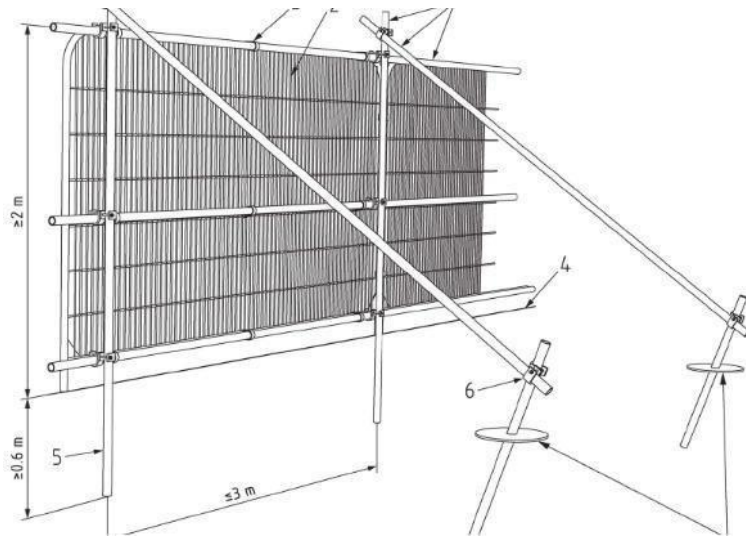




Diagram 3 Weldmesh panels with scaffold frame posts driven into the ground to brace heavy impacts



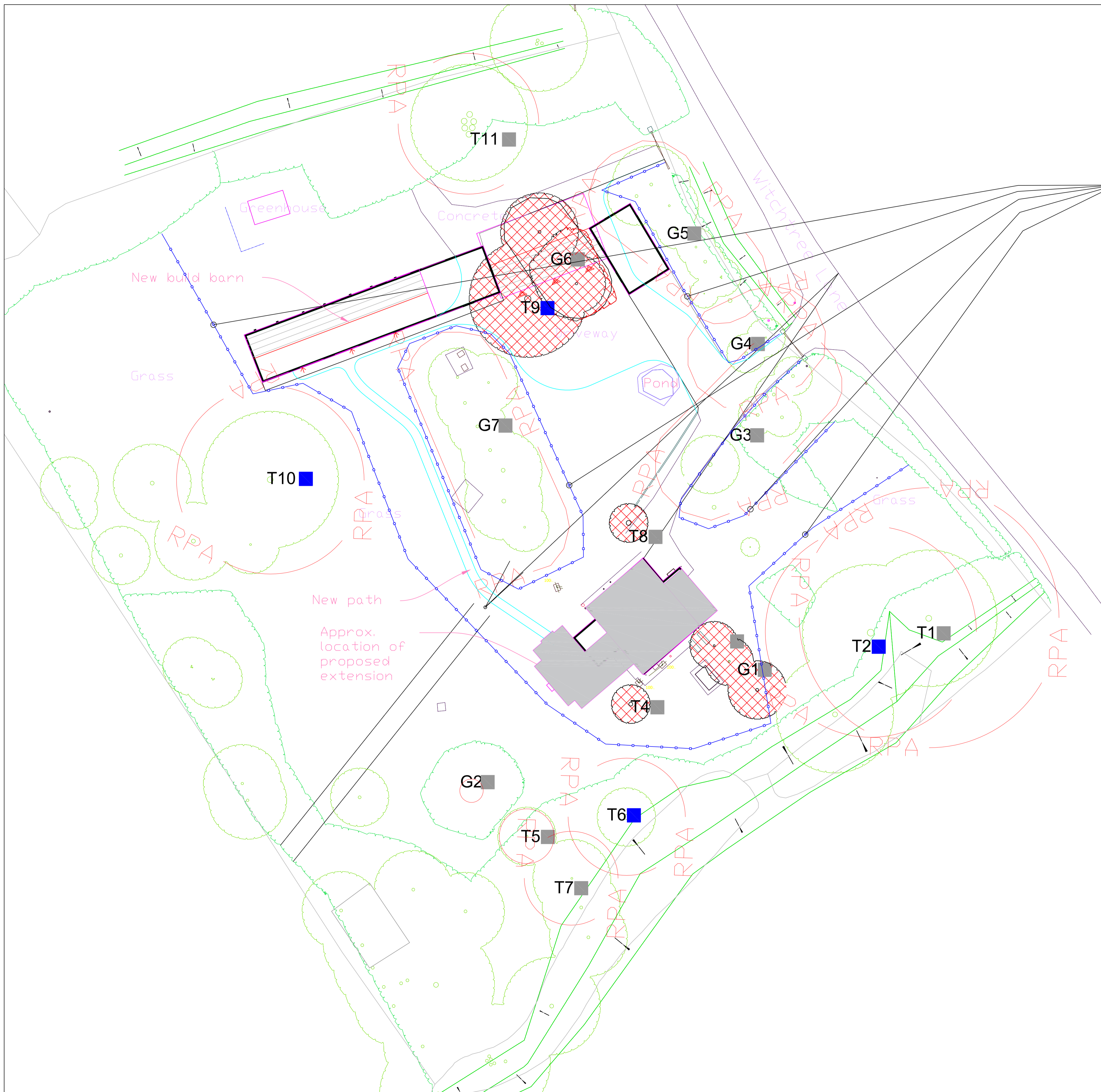
# **Construction Exclusion Zone**

**These trees have been retained and protected as part of the planning permission for this site.**

**Any breach of the protection will result in enforcement action from the Local Authority.**



**Appendix 5 Tree protection plan**



**Key Arboricultural Work Phasing**

All methods statements below and annotations to the plan are to be read in conjunction with the Arboricultural Impact Assessment Ref TPS00155.

The location and removal of the trees protected is to be supervised by the project arboriculturist and confirmed as correct as per the monitoring and action section 20.5.5.10.8 within the accompanying impact assessment Ref TPS00155. Further monitoring measures during the construction phase are recommended within the monitoring specifications, the condition of the trees protection will be determined by the arboriculturist.

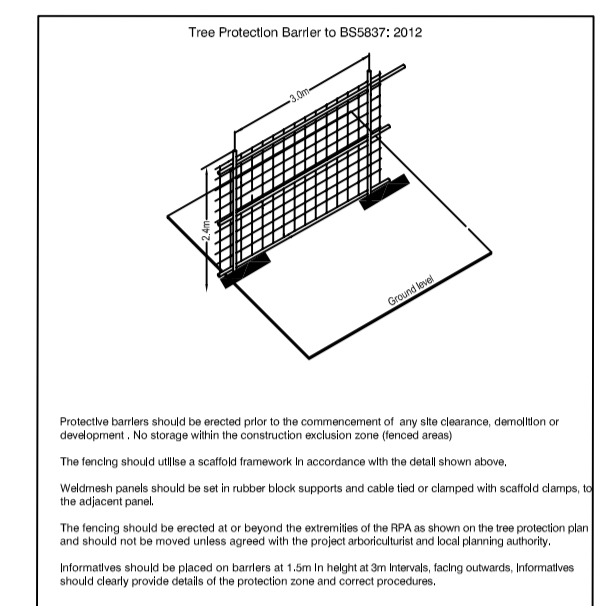
Phase 1 - Tree works - See section 7 of accompanying impact assessment, to include measurements, within the RPA.

Phase 2 - Build - Develop plan for barrier and ground protection.

Phase 3 - Interim build phase.

Phase 4 - Soft and hard landscaping above barrier protection.

Phase 5 - Removal of barrier protection.



**Construction Exclusion Zone**

No access is permitted.

The trees beyond this protected zone are subject to planning conditions and statutory protection.

Any breach of this zone will result in enforcement action by the Local Authority.

**Soft surfaces within RPA**

- No tractor mounted or heavy plant retaining machinery is to be used unless working on surface for the purpose to reduce ground level and prevent soil compaction.
- Cultivation is to be completed using manual hand tools only.
- Existing soil is to be used, where additional soil is required it should be contained free, well drained and suitable for use as an in situ and planting existing trees/shrubs.
- Damage to roots is to be avoided, large structural roots may be seen at or near the surface and these should be marked from the stem of the tree from the surface. After around the root diameter structural roots that lie deeper to ground should be marked.
- Changes to ground levels are to be avoided, any lowering or raising of levels should be carried out using a suitable method statement that provides continued soil conditions of gas exchange and water penetration.
- Planting is to be done with care and to avoid severing tree roots, generally, planting should be completed outside the RPA.

**Legend:**

- Tree reference: T1
- Tree and crown spread: [Diagram of tree crown]
- Root protection area: [Diagram of RPA]
- Temporary barrier protection: [Diagram of barrier]
- Trees / hedges to be removed: T4

**Notes:**

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**Project:** Witchtree Farm, Witchtree Lane, Hempstead

**Drawing Title:** Tree Protection Plan

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**Appendix 6**

Example of arboricultural monitoring form

# Tree Planning Solutions

## Contract Monitoring Form

### Details

Date	
Time	
Surveyor	
Client	
Site	
Ref	

### Trees

Tree ref	Condition	Recommendations

### Barrier

Tree ref	Barrier type	RPA radial distance as per planning permission	Actual barrier radial distance at site	Condition of barrier	Condition of signage	Comments

# Tree Planning Solutions

## Ground Protection

Tree ref	Type of ground protection installed	RPA distance as per planning permission	Actual distance of ground protection at site	Condition of ground protection	Comments

## Additional Comments