



**Appendix 1 Tree survey and explanatory notes**

Site: Does Farm Wallow lane Naughton  
 Date of Survey: 13/12/2019  
 Surveyor: J Choat  
 Weather: Overcast/damp

<b>Quick key</b>	Small diameter deadwood = less than 100mm OHLE = overhead line equipment
Item colour coding	Subject to change following further assessment
	Estimated

Tree ref	Species	Height in m	Stem diameter in mm	RPA in M2	Radial distance required for RPA	Branch spread				Height of crown clearance in m	Age class	Ground condition	NHBC Water demand	Observations	Preliminary management recommendations	Works urgency	Estimated remaining contribution in years	Category grading
						N	E	S	W									
T1	Larch <i>Larix decidua</i>	11	540	131.9338368	6.48	3	3	3	3	1	M	Grass	Moderate	Leaning stem. Tear wound at 10m.	None	0	10+	C1
H1	Leyland cypress <i>Cupressus x leylandii</i>	2	100	4.52448	1.2	0.3	0.3	0.3	0.3	0	EM	Grass	High	Maintained on regular basis as formal hedge.	Maintain at current dimensions.	3	10+	C1
H2	Box <i>Buxus sp</i>	0.5	50	1.13112	0.6	0.2	0.2	0.2	0.2	0	EM	Grass	Moderate	Maintained on regular basis as formal hedge.	Maintain at current dimensions.	3	10+	C1
S1	Group of multi stem shrubs.	3	100	4.52448	1.2	1	1	1	1	0	M	Grass	Not provided	Maintained on regular basis.	Maintain at current dimensions.	3	10+	C1
T2	Cherry <i>Prunus kanzan</i>	5	320	46.3306752	3.84	4	4	4	4	1	M	Grass	Moderate	Low crown break. Large pruning wounds at 1m. Congested crown break with included unions.	None	3	10+	C1
T3	Cherry <i>Prunus avium</i>	8	390	68.8173408	4.68	3	3	3	3	1	M	Grass	Moderate	Good condition.	None	0	20+	B1
T4	Ash <i>Fraxinus excelsior</i>	15	1000	452.448	12	6	6	6	6	1	M	Grass	Moderate	3rd party, unable to fully assess. Lapsed pollard last cut circa 40 years. Ivy clad stem. Low crown encroachment in to site. Recent planting. Good condition, good stem taper and open well formed crown.	Recommend reduce crown or re-pollard.	3	20+	B1/2/3
T5	Lime <i>Tilia sp</i>	9	220	21.8984832	2.64	4	4	4	4	0.5	EM	Grass	Moderate	Recent planting. Good condition, good stem taper and open well formed crown.	None	0	30+	B1
T6	Chestnut leaved oak <i>Quercus castaneifolia</i>	4	180	14.6593152	2.16	3	3	3	3	0.5	EM	Grass	Moderate	Recent planting. Good condition, good stem taper and open well formed crown.	None	0	30+	B1
T7	Weeping beech <i>Fagus sylvatica</i>	5	100	4.52448	1.2	3	3	3	3	0	Y	Grass	Moderate	Recent planting. Misshaped crown due cultivation.	None	0	20+	C1
T8	Tulip tree <i>Liriodendron tulipifera</i>	8	240	26.0610048	2.88	3	3	3	3	0.5	EM	Grass	Low	Recent planting. Good condition, good stem taper and open well formed crown.	None	0	30+	B1
G1	Walnut <i>Juglans regia</i>	8	200	18.09792	2.4	3	3	3	3	0.5	EM	Grass	Moderate	Western most tree with low included union.	None	0	30+	B1
T9	Pin oak <i>Quercus palustris</i>	8	170	13.0757472	2.04	4	4	4	4	1.5	EM	Grass	High	Recent planting. Good condition, good stem taper and open well formed crown.	None	0	30+	B1
T10	Maidenhair tree <i>Ginkgo biloba</i>	4	100	4.52448	1.2	0.3	0.3	0.3	0.3	1	Y	Grass	Not provided	Recent planting. Good condition, good stem taper and open well formed crown.	None	0	30+	C1
T11	Oak <i>Quercus robur</i>	11	800	289.56672	9.6	5	5	5	5	3	M	Grass	High	3rd party, unable to fully assess. Lapsed pollard last cut circa 40 years. Ivy clad stem. Low crown encroachment in to site.	None	0	30+	A1/2/3
H3	Field maple <i>Acer campestre</i> Hawthorn <i>Crataegus monogyna</i>	2.5	75	2.54502	0.9	0.5	0.5	0.5	0.5	0	M	Grass	Varied	Maintained at current height and spread.	None	0	30+	C1/2/3
G2	Lime <i>Tilia sp</i>	12	400	72.39168	4.8	2	2	2	2	3	M	Grass	Moderate	Most in decline, some partially failed, significant die back.	Coppice	3	20+	C1/2/3
G3	Field maple <i>Acer campestre</i> Hawthorn <i>Crataegus monogyna</i> Sycamore acer <i>pseudoplatanus</i>	8	200	18.09792	2.4	3	3	3	3	0	EM	Bare soil	Varied	3rd party, unable to fully assess. Group of multi stem trees on boundary.	None	0	20+	C1/2/3

## 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 millimetres. 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**

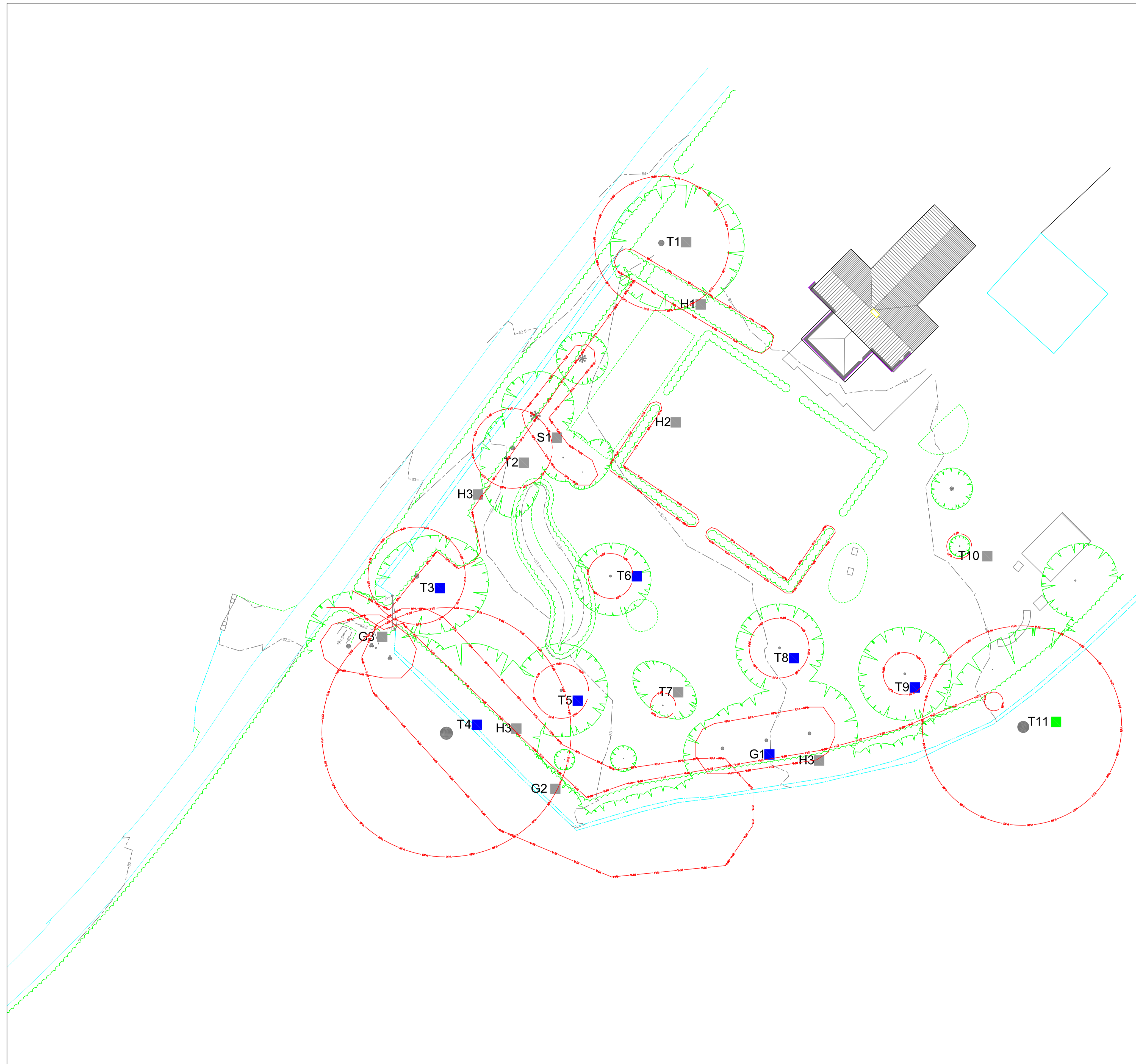
- 1 arboricultural values
- 2 landscape values
- 3 cultural values, including conservation

### **Works priority**

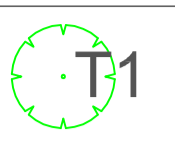
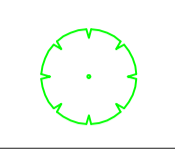
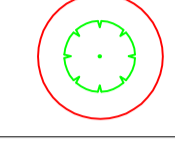


- 1 Works required immediately to make the tree safe
- 2 Works required within 60 days
- 3 Works required as part of routine operations
- 0 no works required



**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: Does Farm, Naughton

Drawing Title: Tree Survey and Constraints Plan

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Date: 14th December 2019

Scale: 1:200 @ A1

Drawing Number: TPSarb0280719 TS/CP

**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=000000000030213642>

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

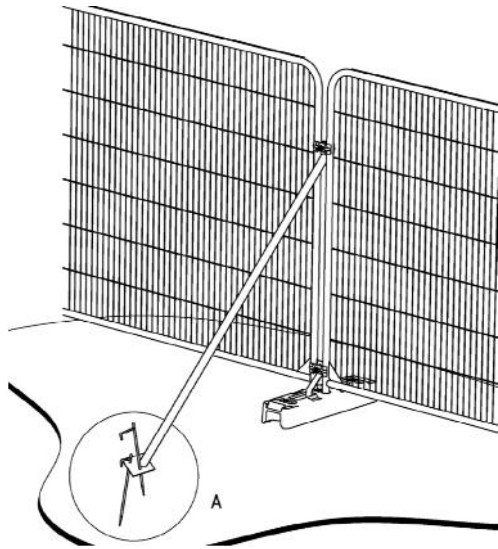


Diagram 2 Weldmesh panels with block supports and further block supports to brace intermediate impacts

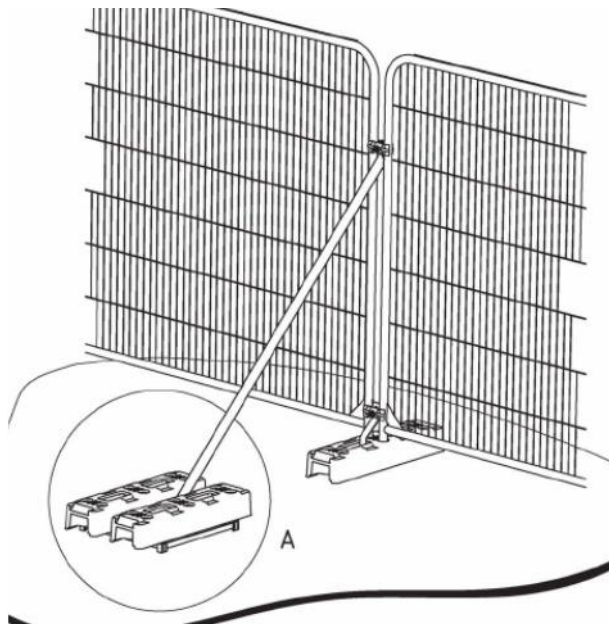
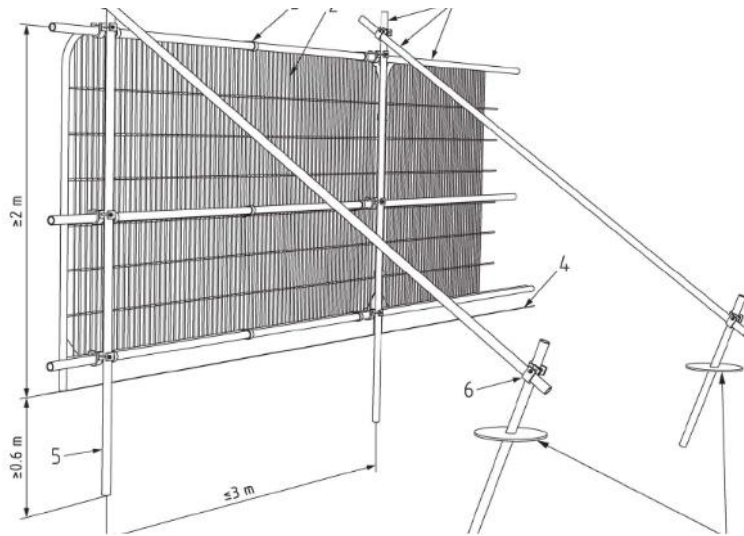


Diagram 3 Weldmesh panels with scaffold frame posts driven into the ground to brace heavy impacts





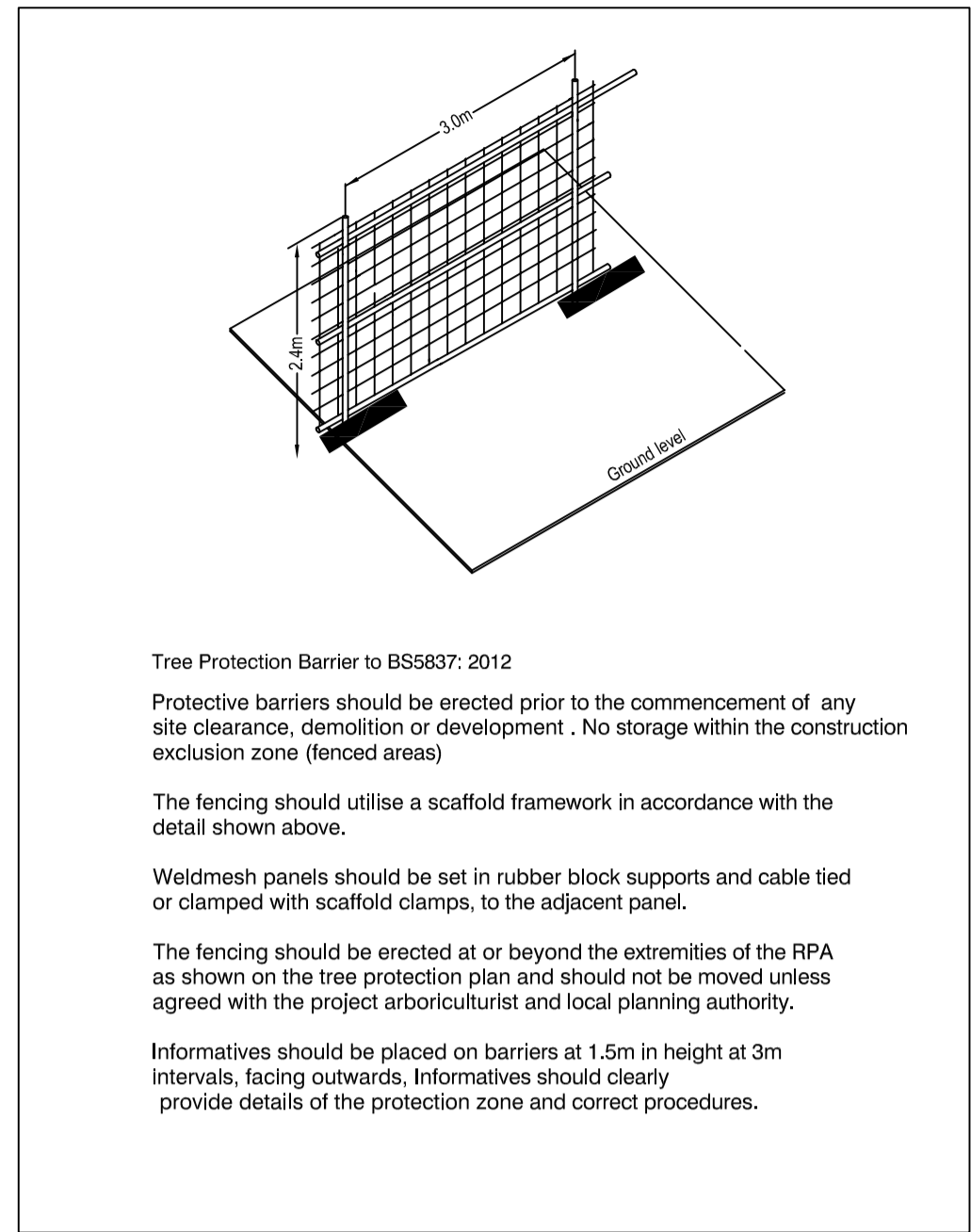
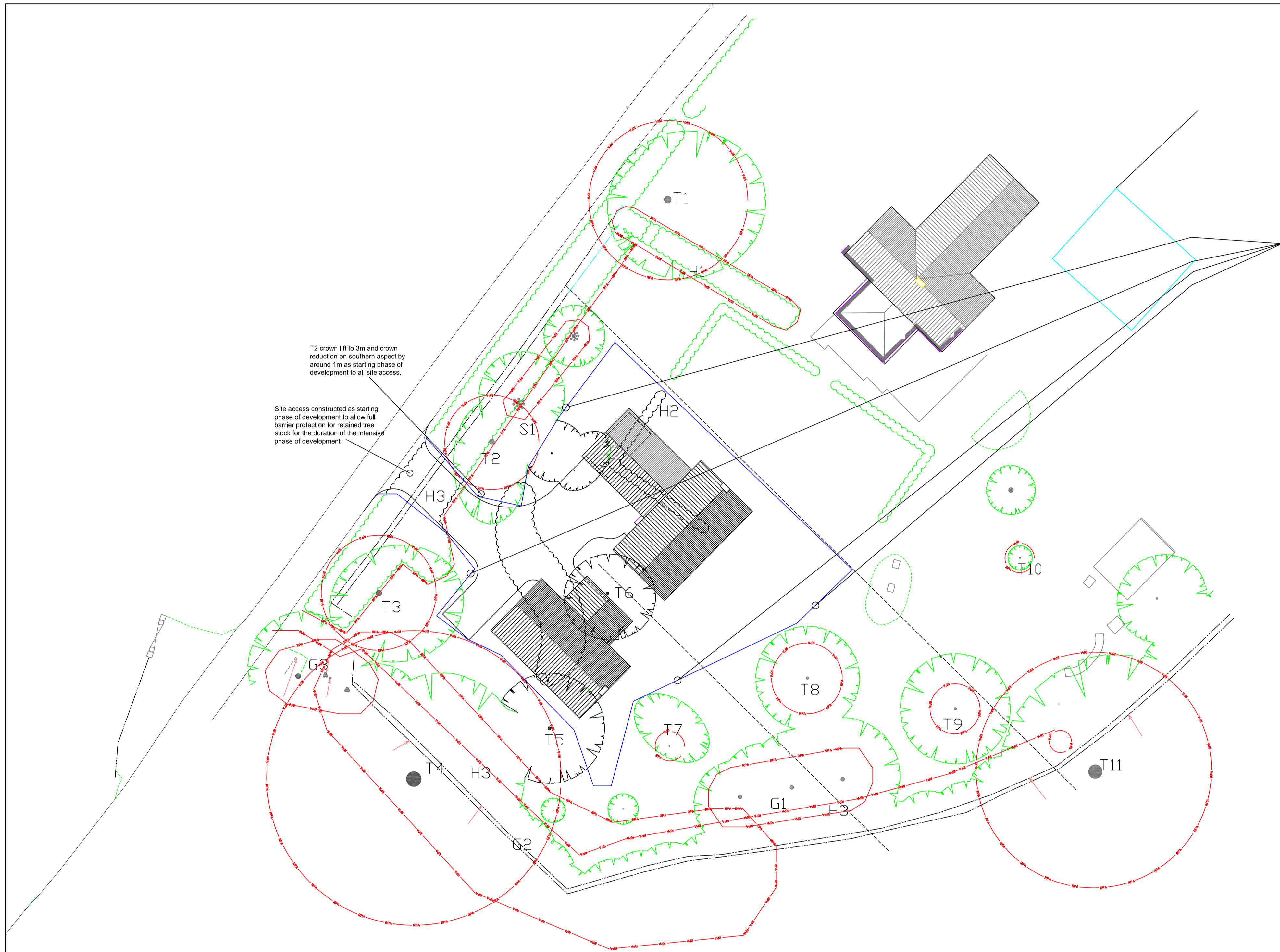
# **Construction Exclusion Zone**

**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**



Weatherproof informative to be placed on barriers

**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

- Legend:
- Tree reference
  - Tree and crown spread
  - Root protection area
  - Temporary barrier protection
- 

Notes:

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Project: Does Farm, Naughton

Drawing Title: Tree Protection Plan

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Date: 30th December 2019

Scale: 1:200 @ A1

Drawing Number: TPSarb0280719 TSCP



## **Appendix 6**

Example of site monitoring pro forma

# Tree Planning Solutions

## Contract Monitoring Form

### Details

<b>Date</b>	
<b>Time</b>	
<b>Surveyor</b>	
<b>Client</b>	
<b>Site</b>	
<b>Ref</b>	

### 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