

Arboricultural Assessment

for

**Garage at Bagendon Manor
Bagendon
Cirencester GL7 7DX**

Prepared by

Tim Pursey

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1.0 Date of survey

1.1 July 2021

2.0 Surveyor

2.1 Tim Pursey

3.0 Instructions

3.1 As a result of a potential planning application, I am instructed to undertake an arboricultural assessment and to prepare a report assessing the impact that the proposed development will have on trees growing at the site.

3.2 The report includes:

- An indication of the constraints placed on the design by the trees on site
- A schedule indicating the tree survey results
- A preliminary arboricultural method statement
- A tree constraints plan – drawing TP 2786/2107/TCP appended
- A tree protection plan – drawing TP 2786/2107/TPP appended

4.0 Report limitations

4.1 All inspections were made from ground level, using binoculars where necessary. Should a more detailed inspection, by climbing or by elevated platform, be required then this will be highlighted within the survey recommendations.

4.2 I have not contacted the local planning authority to determine the legal status of the trees on site. If any trees are the subject of an order, or the land forms part of a Conservation Area then it will be necessary to properly notify, or to obtain prior permission from, the local authority before carrying out any works on the trees.

4.3 Trees are living, dynamic organisms. Their health and overall condition changes as the trees grow and can be affected by external conditions. For this reason, the condition survey and any recommendations given are valid for a period not exceeding one calendar year from the date of issue of this report.

5.0 Proposals

- 5.1 It is proposed to remove an existing single garage and replace with a double garage.
- 5.2 One Hazel is proposed to be removed to facilitate works.

6.0 Tree survey

- 6.1 See schedule of tree survey results.

7.0 Assessment of Impact

- 7.1 The existing garage lies to the immediate south of an access track. Mature trees of moderate quality grow both to the north of the garage and to the south. The existing and proposed new garage lie well outside the root protection areas (RPAs) of the trees to the north and will not be affected in any way by the proposals.
- 7.2 The RPAs of the three Sycamores to the south of the garage extend as far as the existing garage and the footprint of the larger proposed garage encroaches slightly into the RPAs.
- 7.3 Between the existing garage and the three Sycamores, there is a cesspit which appears to have been subject to excavation in recent months. Despite being within the RPAs, there is unlikely to be significant root growth in this area.
- 7.4 The proposed new garage extends into the RPAs of the Sycamores by a limited amount. The degree of encroachment represents less than 5% of the RPA for each of the three trees. This is considered insignificant and the trees are unlikely to be affected by the proposals.
- 7.5 However, as a precautionary measure, protective fencing and some ground protection will be employed to minimise risk of damage to any of the retained trees.
- 7.6 One single Hazel is proposed to be removed as part of the works and this is easily replaced following completion of works. Beech hedges either side of the existing garage will be cut back to improve access to the new, wider garage
- 7.7 There should be no detrimental effects on the retained trees as a result of the works and all retained trees should grow on.

8.0 Preliminary Method Statement to Mitigate Impact

8.1 Tree Works

Hazel T8 will be removed. Beech hedges either side of the garage entrance will be pruned back and tidied as required. Works will be completed by persons both qualified and experienced to do so and in accordance with BS3998:2010 *Recommendations for Tree Work*.

8.2 Protective Fencing

Retained trees will be protected from the impact of construction by a small amount of protective fencing to be erected in accordance with BS5837:2012 *Trees in Relation to Design, Demolition and Construction – Recommendations*.

8.3 This fencing is designed to protect all parts of the trees, both above and below ground. It will be erected using Heras panels erected in a conventional fashion with supporting feet pinned to the ground to prevent movement. It is particularly important that the fencing be completely rigid and immobile.

8.4 The fence will be erected in the positions shown on the attached plan, TP 2786/2107/TPP and will be erected to protect the trees before any work commences. The protective fencing will remain in situ until all construction works are completed.

8.5 The protective fencing will be clearly marked indicating its purpose to all persons on site. Signs will be minimum A3 in size and will clearly state that the protective fencing will not be moved under any circumstances. The protected area behind the fencing will be considered sacrosanct and no entry into this area will be permitted for *any* reason except to maintain the protective fencing. No excavation is permitted, no changes in ground level, no plant will track across this area at any time, and no storage of any materials within this area will be permitted.

8.6 Ground Protection

Ground protection will be installed in the location shown in drawing TP 2786/2107/TPP prior to commencement of any works and will remain in situ until substantive works are completed.

8.7 Ground protection will consist of plywood boards laid upon a compressible layer such as woodchip laid 75mm thick. Boards may be pegged in place if necessary.

8.8 The purpose of the ground protection is to prevent ground being torn up and to minimise the degree of any soil compaction.

8.9 Services

Any new services will be installed outside the RPAs of any retained trees. There is plenty of space on site so avoiding RPAs should not be problematic.

8.10 Ground Levels

Ground levels within the rooting area of any retained tree will remain unaltered unless otherwise specified by the project arboriculturist.

8.11 General

No storage or mixing of cement/concrete will be permitted anywhere within 10 metres of any retained tree. Account will be taken of any slopes in order to avoid the possibility of cement washings running into the rooting areas of retained trees.

8.12 Oil, bitumen or other material likely to be injurious to a tree should not be stacked or discharged within 10 metres of the trunk. Materials generally should not be stacked or discharged within 5 metres of the trunks.

8.13 Arboricultural Supervision

Given the minimal risk of damage to trees on site, no further input from the project arboriculturist is considered necessary.

29th July 2021

Tim Pursey

Chartered Arboriculturist

Tree Survey

Key:

- Height: Estimated in metres.
- Stem diameter: Measured at 1.5m above ground level.
- Branch spread: Estimated in metres at four cardinal points.
- Height of crown
Clearance: Height in metres (estimated) above adjacent ground level to inform on ground clearance, crown stem ratio and shading.
- Age class: Young tree in first third of its life expectancy
Middle age tree
Mature trees
Over Mature
Veteran
- Category grading: **A/B/C/U** – In accordance with BS 5837:2012 *Trees in relation to design, demolition and construction – Recommendations.*
- Category A – High Quality
Category B – moderate quality
Category C- low quality
Category U – trees for removal
- All surveys and inspections made from ground level unless otherwise stated.

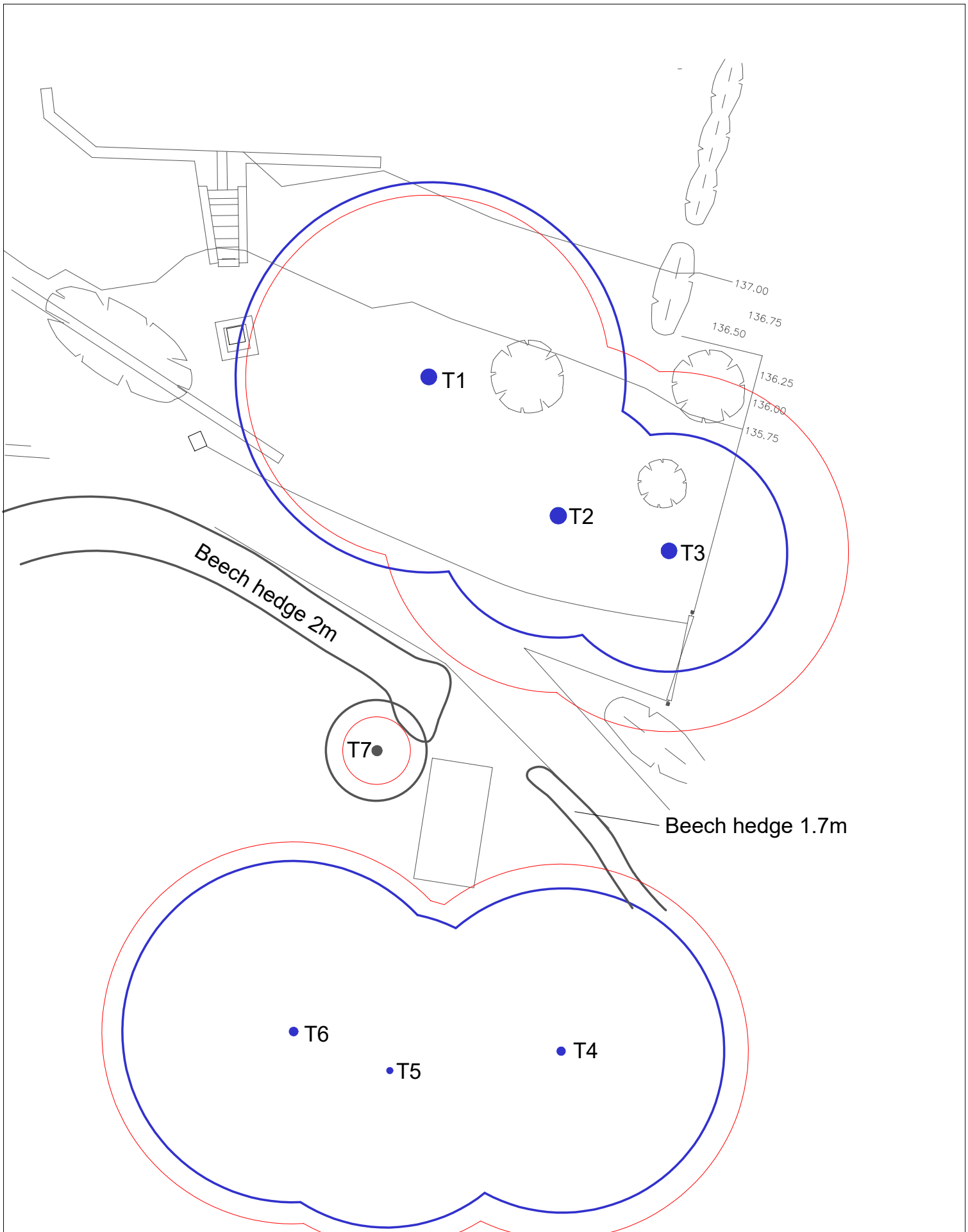
Garage at Bagendon Manor, Bagendon, Cirencester GL7 7DX

Tree No.	Species	Height (m)	Stem Dia. (mm)	Crown Radius (m)				Crown Ht. (m)	Age Class	Remaining Contribution	Structural and Physiological Condition	Preliminary Management Recommendations	Retention Category
				N	E	S	W						
T1	Norway Maple	17	625		6	8	8	2.5	Mat	40+	Normal	None	B1 B2
T2	Japanese Cedar	20	610	4	4	4	4	4	Mat	40+	Normal	None	B1 B2
T3	Japanese Cedar	20	625	4	4	4	4	4	Mat	40+	Normal	None	B1 B2
T5	Sycamore	20	650	7	6		4	3	Mat	40+	Normal	None	B1 B2
T6	Sycamore	20	600	6.5	5		5	3	Mat	40+	Normal	None	B1 B2
T7	Sycamore	20	675	7	7		5	3	Mat	40+	Normal	None	B1 B2
T8	Hazel	4	200	3	3	3	3	1	Mat	40+	Normal	None	C1

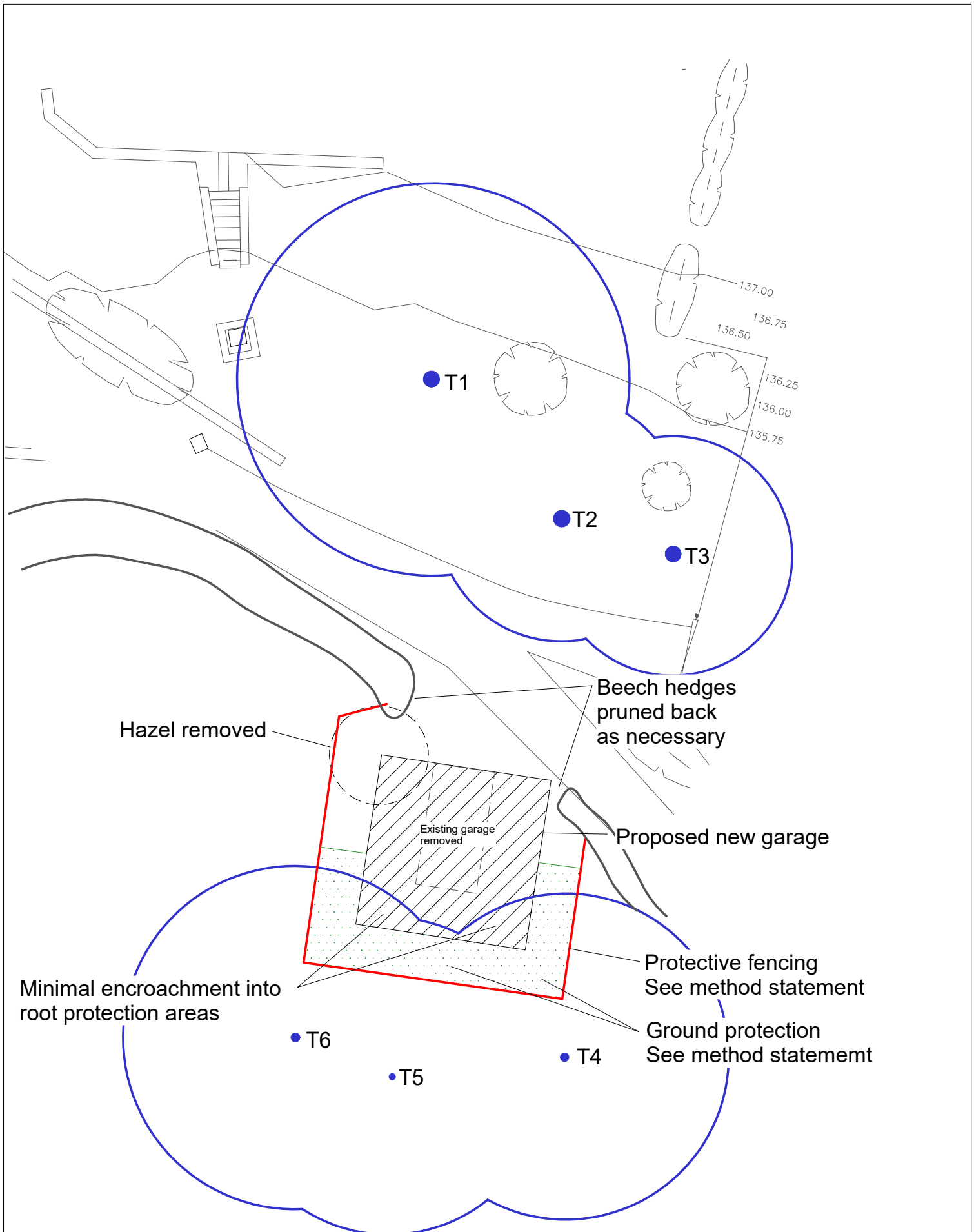
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- Guidelines for The Planning, Installation and Maintenance of Utility Services in
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APN12 Through the Trees to Development Patch, D.
ARIN 130/95/ARB Tree Root Systems Dobson, M.



<ul style="list-style-type: none"> ● Category B trees ● Category C trees ○ Root protection area 	Tim Pursey Arboricultural Consultant 1 Stanley Park, Lower Easton, Bristol BS5 6DT Tel 0117 951 1375 Email info@tree-expert.com				
	Tree Constraints Plan Garage at Bagendon Manor				
	SIZE	CAGE CODE	DWG NO		IREV
A4		TP 2786/2107/TCP			
SCALE	1:200	29 Jul 2021	SHEET		



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Tree Protection Plan
Garage at Bagendon Manor

SIZE	CAGE CODE	DWG NO.	IREV
A4		TP 2786/2107/TPP	
SCALE	1:200	29 Jul 2021	SHEET