Lower Fleet Marston Farmhouse, Quarrendon

British Standard 5837:2012 Arboricultural Report

Tom Hurley BSc(For)Hons, MArborA

28th March 2024

Advanced Arboriculture Ltd • Venmore Barn • Woodbury • Exeter • Devon • EX5 1LD • t: 01395 239002 • e: info@advancedarb.com • w: www.advancedarb.com

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Introduction and Heads of Terms

Project Reference	TH/C015/0324
Site Address	Lower Fleet Marston Farmhouse, Quarrendon
Instruction	JCE Planning & Architectural Consultancy
Lead Surveyor	Tom Hurley, BSc(For)Hons, MArborA
Report Author	Tom Hurley, BSc(For)Hons, MArborA
Report Checked By	Joel Gray FdSc (Arb), NCF Arb, Cert Arb (ABC, RFS)
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Heads of Terms and Document Limitations

The purpose of this report is to provide a full arboricultural appraisal of the site and consider the effect of any construction proposals based on the data collected, following the principles of British Standard 5837:2012 *Trees in relation to design, demolition and construction – Recommendations*. As well as informing the overall design and layout of the site, the report shall provide a supporting statement for a planning application to the local planning authority. This report has been undertaken in accordance with the instructions of the client and is intended for their sole and specific use. Any transfer of ownership of this report will require the written consent of the original client and Advanced Arboriculture Ltd reserve the right to charge a fee for the preparation of any future Letters of Resilience.

The report has been prepared based on information available to Advanced Arboriculture Ltd at the time of writing, however, further technical, topographical, arboricultural, architectural, ecological or engineering information may come to light at any point subsequent to the site survey, including after the relevant arboricultural conditions have been cleared. It is the responsibility of the client or their delegated team to draw any changes in the project scope to our attention at the earliest opportunity.

Trees are dynamic structures and advice should be taken on validity two years after the survey was undertaken. The report may not be considered valid after more than three years. The report has been prepared using all reasonable skill and care. Opinions are provided in good faith.

The scheduling and implementation of any tree protection measures detailed in the report also remains the responsibility of the client or their delegated team. Whilst the project team may appoint any suitably qualified third-party arboricultural supervisor, Advanced Arboriculture Ltd are able to take on this role subject to the project manager's formal instruction.

Advanced Arboriculture Ltd shall not be held liable for any unauthorised deviation from the tree management recommendations, the tree protection measures and the project scheduling detailed within this report.

Tree Stock Appraisal

Lower Fleet Marston Farmhouse is located to the south of Berryfields Gated Road, a private right of way leading to the west from Crispin Street in Quarrendon, approximately 6km north-west of Aylesbury town centre. The nearest public right of way, Crispen Street, is located some 450m away.

The property comprises a large farmhouse set centrally, surrounded by expansive gardens. A gravelled driveway extends from the entrance gates to the dwelling.

A total of twenty individual trees, three areas of trees, one group of trees and three hedgerows have been surveyed for the purposes of preparing this British Standard 5837:2012 arboricultural survey.

The northern boundary of the site comprises mainly relatively young trees, most notably Lime T1, Alder T3 and Field Maple T4, all of which are young to middle-aged specimens with good future potential. Hybrid Black Poplar T5 is a larger specimen which, along with Hybrid Black Poplar T18 and the Poplars which form area A1, present larger canopy features within this relatively flat landscape. Areas A2 and A3, and hedgerow H1 provide a partial screen from Berryfields Gated Road but are not of any particular note from an arboricultural perspective.

The eastern boundary is defined by hedgerow H2, a mixed-species feature which is dominated by Hawthorn, Field Maple and Goat Willow, along with one Lombardy Poplar and further mixed understorey. A series of larger trees, including Field Maple T8, Lime T10 and Ashes T11 and T12, provide additional canopy form about the height of the hedgerow, though they cannot be seen as individual specimens from any public locations.

The north-eastern section of the garden hosts Pears T6 and T7, along with the three Hazels which comprise group G1. The Hazels have become drawn and etiolated and therefore recoppicing is considered reasonable management for these, irrespective of any construction works which may be proposed.

The southern and western boundaries of the site are defined by hedgerow H3. This Hawthorn hedge has historically been managed by flailing to a height of approximately 2.0m, though this management has since been allowed to lapse and the hedge now stands at approximately 5.0m.

The garden to the south-west of the farmhouse comprises one middle-aged Horse Chestnut, T13, along with four young Field Maple stems in a row, trees T14 to T17. These link to Hybrid Black Poplar T18 to the north. To the east of T18 is a small, poor quality Holm Oak of no significant value.

None of the trees are understood to be covered by a Tree Preservation Order, and the site is not located within a Conservation Area.

The British Standard 5837:2012 category split of the surveyed trees is as follows:

Trees - A: 0 (0%), B: 14 (70%), C: 6 (30%), U: 0 (0%)

Areas/Groups/Hedges - A: 0 (0%), B: 3 (43%), C: 4 (57%), U: 0 (0%)

A comprehensive commentary on each tree, including full spatial data, is provided within the attached Arboricultural Data Tables.

<u>A Note on Ash</u>

Ash Dieback Disease (ADD) is now widespread throughout the UK, though specific symptoms are not always obvious on more mature trees in the early stages of infection. The rate of decline of infected trees and the long-term prognosis for the health of Ash trees generally is currently uncertain. Some sources suggest that the UK may experience losses of up to 90% or more of its Ash trees in some areas; woodland trees in particular appear to be particularly prone to decline.

The identification of ADD infected Ash can be difficult from around October through early June, when trees are normally not in full leaf, unless the trees are very severely affected and contain large sections of deadwood.

Once infected, trees can decline rapidly and quickly lose their structural integrity. On reaching less than 50% of their normal foliar density, they are likely to require removal where they pose a threat to persons or property. Such trees can be become unpredictable and dangerous to fell or even to dismantle using normal rope access techniques, and may thus require removal using a mobile elevated work platform (MEWP) or other machinery. Hence, where trees in an early stage of infection are in locations that are inaccessible to machinery and would pose a risk to persons or property if they declined further, it may be appropriate to consider their pre-emptive removal while it is still possible to deal with them safely using conventional techniques. Each tree will need to be considered on its own merits, but the removal of good quality trees as a precautionary measure is unlikely to be recommended at this stage.

Current recommendations on those sites where Ash trees are present within falling distance of significant targets are that trees be inspected regularly, so as to account for the potentially rapid decline of currently healthy trees should ADD occur; this also applies where we may have not noted specific cases of ADD on a site at the time of survey, but we have no doubt that the disease will be present throughout the locality. Should any Ash trees on site show signs of rapid defoliation or dieback then further advice from an experienced arboriculturist should be sought.

When considering the longer-term management of Ash trees on a site, our advice is that, where such trees are within falling distance of significant targets or otherwise present a significant constraint to the site, then lesser quality trees are unlikely to be worthy of consideration for longer term retention. In these cases, removal of these lesser-quality Ash trees and their replacement with suitable alternative may well result in a net gain in amenity, landscape and biodiversity values for the site over the medium to long term.

Arboricultural Impact Assessment

The proposals show the significant relandscaping of the gardens and driveway surrounding the existing farmhouse. The works include the extension of the driveway around the western side of the farmhouse to re-utilise the main entrance and the construction of a swimming pool, parterre, formal lawn, ha-ha and folly. The proposals are supported by extensive new tree planting and landscape enhancements across the site.

The proposals have sought arboricultural advice from an early stage in the detailed design phase of the project. This has identified the key tree-related constraints and allowed the initial concept designs to be refined to ensure that any arboricultural impact is minimised.

The significant majority of the proposals remain comfortably outside of any of the identified arboricultural constraints, and this includes ensuring an allowance for tree growth in the future. The new walls for the courtyard to the rear of the farmhouse clip the root protection area of Pear T7 very marginally, but this represents less than 1% of the tree's overall root protection area, with the remainder of the root protection area and its surroundings remaining unaffected.

The new section of driveway extends into the root protection area of Horse Chestnut T13 but this is addressed by the utilisation of a no-dig specification (see Arboricultural Guidance Sheet AGS301 attached); furthermore, the extent of any encroachment has been minimised by amending the design and pulling the driveway edge away from this tree as far as practicable.

The proposed parterre also encroaches into the root protection area of Horse Chestnut T13, but the construction for this has been amended such that it will be constructed using gravel pathways rather than the paving which was originally specified.

The garage has been relocated to ensure that it remains outside of any root protection areas and this is now in an arboriculturally sustainable location.

The remainder of the construction remains outside of any arboricultural constraints, thus ensuring that the pool and surrounding structures, the ha-ha, the formal lawn, the patio and folly, and the wetland and mound present a negligible risk of harm to any trees.

The indicative landscaping proposals show a total of 44 new trees, alongside extensive new hedging. Given that no trees are required for removal to enable the proposed construction, this clearly represents a significant net increase in tree numbers, as well as further screening the site from Berryfields Gated Road.

Recommendations and Conclusions

Overall, the proposals allow for the retention of all key trees with a negligible risk of any harm as a consequence of construction activities. The site layout is therefore considered to be sustainable from an arboricultural perspective subject to the appropriate care being taken during construction, and robust protective fencing and ground protection being installed and maintained for the duration of the project.

This document includes a full detailed Tree Protection Plan and Arboricultural Method Statement which will ordinarily be referenced within a condition of any planning consent granted by the local planning authority.

Tree Works Recommendations

Ref	Species	Proposed Works
G1	Hazel	• Recoppice in the interests of their long-term retention irrespective of any construction proposals

Informatives

The appointed tree work contractor must ensure that all tree works comply with British Standard 3998:2010 *Tree Works – Recommendations* and it is strongly advised that the appointed tree contractor is Arboricultural Association Approved to ensure high standards and a consistency of work.

Under the Wildlife & Countryside Act 1981 & Countryside & Rights of Way Act 2000 it is an offence to recklessly damage or destroy the nest of a wild bird whilst in use or being built; planning consent does not provide a defence against prosecution under these Acts. Trees, shrubs and hedgerows on this site may contain nesting birds between 1st March and 31st August and it is advisable to undertake a survey of the site before commencing any vegetation removal between these dates, to ensure that no nesting birds are present. Advanced Arboriculture are able to undertake a survey to identify the presence of bats or nesting birds if required at the request of the client.

Tree Protection Statement

Tree Protection Statement Introduction

The attached Tree Protection Plan and Arboricultural Method Statement detail the tree protection measures required for the proposals, the timing of the provision of tree protection measures, and the retention of a suitably qualified arboricultural supervisor in the event of any accidental damage to the trees.

This document must be reviewed by the project manager and/or site manager with the arboricultural supervisor prior to the commencement of any works to ensure that both the scheduling and protection measures detailed within the Arboricultural Method Statement remain achievable and realistic. Once the Tree Protection Plan and Arboricultural Method Statement Plans have been reviewed and signed off by both the site manager and arboricultural supervisor, these drawings must be held on site for ongoing reference and to allow the local planning authority to check them at any reasonable time. Any variations to the Tree Protection Plan or Arboricultural Method Statement must be copied to the local planning authority; in the case of major variations to these documents, written approval may be required.

Arboricultural Supervision

An ad-hoc arboricultural inspection programme is shown on the Arboricultural Method Statement Plans. Inspections must be requested by the project manager and/or site manager where the project scope changes, or where unforeseen construction activities may present a threat to retained trees on or adjacent to the site. The attached Arboricultural Supervision Record Sheet must be filled in on an ongoing basis and retained on site for inspection by the local planning authority at any reasonable time.

Staff Induction

The Arboricultural Method Statement references the attached Arboricultural Staff Induction Sheet. This must be read, understood and signed by all site operatives, including sub-contractors, as an integral element of their initial site induction. The purpose of this is to minimise the potential for damage to trees during construction.

Protective Fencing

Protective fencing is a key element of the tree protection measures for this project. This comprises 76 braced Heras panels (see Arboricultural Guidance Sheet AGS101 attached); the specification for these matches the specification detailed within British Standard 5837:2012. There may be instances on site where it is desirable to substitute braced Heras fencing with site hoarding; the specification for the hoarding and the method statement for its construction must be approved prior to installation by the arboricultural supervisor.

A further nine panels of Heras fencing are shown around Horse Chestnut T13. These will be required if construction of the no-dig section of driveway and the parterre are not part of the initial tranche of works.

A total of 145 metres of high visibility fencing (see Arboricultural Guidance Sheet AGS105) is also shown on the Tree Protection Plan. The purpose of this is to act as a visual demarcation of the construction exclusion zones where there is considered to be a low risk of damage to retained trees from plant, materials or personnel.

All fencing must be erected prior to the commencement of any mobilisation to site by contractors, plant or materials and must remain in situ until all construction works have been completed and approval for removal is granted by the arboricultural supervisor.

Site Organisation

Prior to the commencement of any demolition or construction activities on site, the locations for site offices, welfare facilities, parking, a materials storage area and a concrete/plaster mixing area must be designated and marked on the Tree Protection Plan.

It may be possible to locate site huts, cabins and welfare facilities where protective fencing is shown on the Tree Protection Plan, however, this will only be possible with the written consent of the arboricultural supervisor and subject to the following conditions:

- The site huts will remain in situ for the duration of the project (if not, protective fencing will still be required prior to the installation of the huts, or after their removal);
- There is sufficient crown height available to accommodate the huts without the need for unauthorised crown lifting or pruning;
- Any services or sewerage for the huts must be remain above ground and not require excavation;
- No discharge from the huts, including grey water, shall be permitted within the demarcated construction exclusion zone, with the exception of rainwater from the roofs or guttering;
- Where foundation pads are required to support huts, these must comprise timber sleepers or Jack Pads (see www.jackpad.co.uk) placed on the existing ground level (digging foundations in must be avoided).

Parking, materials storage and materials mixing must remain outside of the designated construction exclusion zones, and the materials mixing area should be bunded or contained such that any spillage or rinsings cannot run towards the root protection areas of any retained trees.

There is not considered to be sufficient space to accommodate bonfires within the site due to the risk of heat damage to either the rooting system or crown of any retained tree.

If bonfires are permitted, these must remain at least ten metres from either the construction exclusion zone, root protection area or crown spread of any tree, whichever is closer; this is to minimise any risk of heat damage to either the rooting system or crown of any retained tree.

No-dig Surfacing

No-dig surfacing is shown on the Tree Protection Plan where an the new section of driveway crosses the root protection area of Horse Chestnut T13. This must be installed at the earliest opportunity, utilising a temporary wear course as required for the duration of the construction programme, replacing this with a

final permanent wear course on completion of all construction works.

A suggested specification detail is shown within Arboricultural Guidance Sheet AGS301 though this will need to be reviewed and amended as necessary by a suitably qualified engineer. During the review of this document by the project manager and/or site manager, the site levels will need to be reviewed, noting that no-dig surfacing can typically add 250-300mm to existing ground levels, and surrounding surfaces may therefore need to be amended to match.

Services

The location of proposed new services has not been made available to Advanced Arboriculture Ltd at the time of this report's preparation. All services must be routed outside of the root protection areas of all retained trees. Where this is not possible, alternative installation methods must be investigated, including manual digging, directional boring, etc.

It is recommended that the engineering drawings showing the proposed service routes are forwarded to Advanced Arboriculture Ltd for review prior to the commencement of any ground works or services installation. Advanced Arboriculture Ltd are able to forward a PDF or AutoCAD DWG file directly to the project engineers on request showing the accurate locations of the root protection areas.

Hard and Soft Landscaping

Any hard landscaping within the root protection area of any retained trees which includes changes in ground levels (cut or fill), new walls or new paths will require further arboricultural review to ensure that any detrimental impact is limited. If unsustainable damage is considered to be unavoidable then the landscaping scheme will require revision.

Soft landscaping near retained trees, including the planting of new trees and shrubs, must be undertaken with considerable care due to the potential for rooting damage. Mechanical rotovation or cultivation within the construction exclusion zones shown on the Tree Protection Plan must be avoided as this can cause significant damage to the rooting system of adjacent trees.

All new trees must be sourced from a reputable nursery and planted in accordance with the recommendations detailed within British Standard 8545:2014. Advanced Arboriculture Ltd are able to provide an independent verification of the quality of new trees prior to planting on request.

Arboricultural Data Tables

Cascade Chart For Tree Quality Assessment (Source: British Standard 5837:2012)

Category and definition	Criteria (including subcategories where appropriate)		
Trees unsuitable for retention			
Category U Those in such a condition that they cannot realistically be retained as living trees in the context or the current land use for longer than 10 years	• 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) • Trees that are dead or are showing signs of significant, immediate, and irreversible overall decline • Trees infected 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 *Note: Category U trees can have existing or potential conservation value which it may be desirable to preserve*		
	1. Mainly arboricultural qualities	**2. Mainly landscape qualities**	**3. Mainly cultural values, including conservation**
Trees to be considered for retention			
Category A Trees of high quality with an estimated life expectancy of at least 40 years	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)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood-pasture)
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects, including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to a wider locality	Trees, groups or woodlands of significant conservation, historical, commemorative or other value (e.g. veteran trees or wood - pasture
Category C Trees of low quality with an estimated remaining life expectancy or at least 10 years, or young trees with a stem diameter below 150mm	Unremarkable trees of a very limited merit or such an impaired condition that they so not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value; and/or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural value

Abbreviations used in the survey are as follows:

Tree No Corresponding to plan

Species Common name

Ht Detailed in metres

Sprd Crown spread as measured at the four cardinal points of the compass

Stem Dia Diameter at breast height in mm (1.5 metres above ground level), or measured in accordance with the prescribed British Standard protocol in the case of multi-stemmed specimens (see Annex C in British Standard 5837:2012 for full details)

RPA Root Protection Area radius in metres (derived from the British Standard 5837:2012 formulae)

Ht to L/B Crown height, as measured to the height of the lowest branch

Dir Direction from which the lowest branch arises

Cr Ht Height of crown above ground level

Age Class
- Y Young (grown to less than one third of life expectancy)
- MA Middle Aged (grown to between one to two-thirds of life expectancy)
- M Mature (grown to over two thirds of normal life expectancy)
- OM Over Mature
- V Veteran

SULE Safe useful life expectancy range in years

Cond Condition, both physiological and structural:
- G Good (trees with no significant defects)
- F Fair (trees with some defects amenable to surgery)
- P Poor (trees with significant defects)
- Dead Dead

BS Cat British Standard 5837:2012 Category (see Table 1 in British Standard 5837:2012 for full details)

m/s Denotes multistem tree along with the individual stem diameters

# Denotes estimated value where access was not possible

Data: Individual Trees **Site Reference: TH/C015/0324** **Location: Lower Fleet Marston** **Inspection Date: 12th March 2024** **Lead Surveyor: Tom Hurley**

Tree No.	Species	Height (m)	Cr Sprd (m)	Stem Dia (mm)	RPA Rad (m)	RPA Area (m²)	LB Ht (m)	Cr Ht (m)	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T1	Lime	7.5	N: 3.0 E: 3.5 S: 3.5 W: 4.0	270	3.30	34	2.0/W	1.5	Y	>40	G/G	• Boundary specimen which has been pruned back from adjacent private road	• No works required at the present time	B2
T2	Alder	8.5	N: 3.0 E: 2.5 S: 1.0 W: 2.0	180	2.10	14	2.0/E	1.5	Y	20-40	G/F	• Tree dominated by T1 (Lime) adjacent	• No works required at the present time	C1
T3	Alder	9.0	N: 3.0 E: 2.5 S: 3.5 W: 3.0	220	2.70	23	2.0/S	1.5	Y	>40	G/G	• Tree has good form	• No works required at the present time	B2
T4	Field Maple	10.0	N: 5.0 E: 4.5 S: 5.0 W: 6.0	460 (m/s: 430, 160)	5.40	92	0.0/E	2.0	MA	>40	G/F	• Small sub-dominant stem arises immediately above ground level on eastern aspect	• No works required at the present time	B1
T5	Hybrid Black Poplar	21.0	N: 7.0 E: 9.0 S: 7.5 W: 6.0	720	8.70	238	3.5/S	2.5	MA	20-40	G/G	• Main stem forks into multiple stems at 5.0m	• No works required at the present time	B2
T6	Pear	7.0	N: 3.5 E: 3.0 S: 2.5 W: 2.5	270	3.30	34	2.5/W	2.5	MA	>40	F/F	• Tree located on lawn	• No works required at the present time	B3
T7	Pear	7.5	N: 4.5 E: 3.0 S: 5.0 W: 5.5	420	5.10	82	2.0/S	1.5	M	>40	G/F	• Tree located on lawn • Significant wounds on main stem	• No works required at the present time	B3
T8	Field Maple	12.0	N: 6.5 E: 5.0 S: 4.5 W: 5.5	640 (m/s: 6 x 260)	7.50	177	2.0/W	1.5	M	20-40	G/F	• Multi-stemmed specimen with some decay in base	• No works required at the present time	B2
T9	Plum	8.5	N: 1.0 E: 2.5 S: 3.0 W: 2.0	280	3.30	34	1.0/W	1.0	MA	10-20	F/F	• Fungal fruiting bodies and deadwood present • Tree has limited future potential	• No works required at the present time	C1

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Data: Individual Trees **Site Reference: TH/C015/0324** **Location: Lower Fleet Marston** **Inspection Date: 12th March 2024** **Lead Surveyor: Tom Hurley**

Tree No.	Species	Height (m)	Cr Sprd (m)	Stem Dia (mm)	RPA Rad (m)	RPA Area (m²)	LB Ht (m)	Cr Ht (m)	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T10	Lime	10.0	N: 3.5 E: 4.5 S: 3.5 W: 3.0	310	3.60	41	1.5/S	1.0	Y	>40	G/G	• Tree forks at 1.0m	• No works required at the present time	B1
T11	Ash	15.0	N: 5.0 E: 5.5 S: 9.5 W: 5.0	500	6.00	113	3.0/S	1.5	MA	10-20	F/G	• Some deadwood present • Tree forms coalesced crown with Ash T12 adjacent	• No works required at the present time	C1
T12	Ash	13.0	N: 7.0 E: 5.5 S: 9.5 W: 8.5	490	6.00	113	2.5/S	1.0	MA	10-20	F/F	• Crown appearance consistent with early-stage Ash Dieback Disease but this will need verifying when tree is in leaf • Tree forms coalesced crown with Ash T11 adjacent	• No works required at the present time	C1
T13	Horse Chestnut	14.0	N: 8.0 E: 7.5 S: 8.5 W: 6.0	750	9.00	254	2.5/N	0.5	MA	>40	G/F	• Attractive specimen to front of house • Tree appears to be have been reduced in the past	• No works required at the present time	B1
T14	Field Maple	11.0	N: 3.5 E: 4.0 S: 4.5 W: 4.5	350	4.20	55	1.0/S	1.0	Y	>40	G/G	• Tree forms one of a line of four Field Maples	• No works required at the present time	B2
T15	Field Maple	9.0	N: 2.5 E: 3.0 S: 2.5 W: 3.5	220	2.70	23	0.0/S	0.5	Y	>40	G/G	• Tree forms one of a line of four Field Maples	• No works required at the present time	B2
T16	Field Maple	9.0	N: 3.0 E: 4.0 S: 3.5 W: 3.5	340	4.20	55	0.5/S	1.0	Y	>40	G/F	• Tree forms one of a line of four Field Maples	• No works required at the present time	B2
T17	Field Maple	7.5	N: 3.0 E: 3.0 S: 3.0 W: 3.0	240	3.00	28	1.5/S	2.0	Y	>40	G/G	• Tree forms one of a line of four Field Maples	• No works required at the present time	B2
T18	Hybrid Black Poplar	22.0	N: 7.5 E: 10.0 S: 8.5 W: 7.0	790	9.60	290	3.0/W	2.5	MA	20-40	G/F	• Tree growing in very boggy area • Main stem leans to the south	• No works required at the present time	B2

Data: Individual Trees **Site Reference: TH/C015/0324** **Location: Lower Fleet Marston** **Inspection Date: 12th March 2024** **Lead Surveyor: Tom Hurley**

Tree No.	Species	Height (m)	Cr Sprd (m)	Stem Dia (mm)	RPA Rad (m)	RPA Area (m²)	LB Ht (m)	Cr Ht (m)	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
T19	Holm Oak	6.0	N: 3.0 E: 4.0 S: 3.5 W: 2.0	290	3.60	41	0.0/W	0.5	Y	10-20	G/P	• Small leaning specimen • Decay in base	• No works required at the present time	C1
T20	Hawthorn	3.5	N: 1.5 E: 1.5 S: 1.5 W: 1.5	100	1.20	5	0.0/E	0.0	Y	20-40	G/F	• Young specimen with multi-stemmed form	• No works required at the present time	C1

Data: Areas/Groups/Hedges **Site Reference: TH/C015/0324** **Location: Lower Fleet Marston** **Inspection Date: 12th March 2024** **Lead Surveyor: Tom Hurley**

Ref No.	Species	Height (m)	Cr Sprd (m)	Stem Dia (mm)	RPA Rad (m)	RPA Area (m²)	LB Ht (m)	Cr Ht (m)	Age Cl	SULE	Cond Phys/Str	Observations	Recommendations	BS Cat
A1	• Poplar	<17.0	Max: 7.5m	<550	<6.60	<137	>=1.0	>=1.0	Y-MA	10-20	F-G/P-G	• Cluster of Poplar stems in a very wet corner of site	• No works required at the present time	C1
A2	• Blackthorn • Mixed Shrubs	<7.5	Max: 3.0m	<150	<1.80	<10	>=0.0	>=0.0	Y-MA	20-40	F-G/F-G	• Ornamental boundary plantings	• No works required at the present time	C1
A3	• Field Maple • Blackthorn • Rowan • Mixed Shrubs	<7.5	Max: 4.5m	<200	<2.40	<18	>=0.0	>=0.0	Y-MA	20-40	F-G/F-G	• Ornamental boundary plantings	• No works required at the present time	C1
G1	• Hazel	<5.5	Max: 4.0m	<300	<3.60	<41	>=0.0	>=0.0	MA	20-40	G/F	• Group of 3 Hazel coppice stools • Stools are becoming drawn and leggy so would benefit from recoppicing	• Recoppice irrespective of construction proposals	B3
H1	• Privet	<3.0	Max: 1.0m	<100	<1.20	<5	>=0.0	>=0.0	MA	20-40	G/F	• Frontage hedge	• No works required at the present time	C1
H2	• Hawthorn • Field Maple • Goat Willow • Lombardy Poplar	<14.0	Max: 4.0m	<250	<3.00	<28	>=0.0	>=0.0	Y-MA	>40	P-G/P-G	• Eastern boundary hedgerow	• No works required at the present time	B3
H3	• Hawthorn	<5.0	Max: 1.0m	<200	<2.40	<18	>=0.0	>=0.0	Y-MA	>40	F-G/P-G	• Primarily Hawthorn hedgerow which has been historically managed to a height of ~2.0m by flailing	• No works required at the present time	B3

Photograph 1: Lime T1

Photograph 2: Alder T2

Photograph 3: Alder T3

Photograph 4: Field Maple T4

Photograph 5: Poplar T5

Photograph 6: Pear T6

Photograph 7: Pear T7

Photograph 8: Field Maple T8

Notes

- Copies of these photographs in JPEG format are available from Advanced Arboriculture on request.

Drawing Title:

Photographs

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
n/a	A3	TH

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Venmore Barn
Woodbury
Devon EX5 1LD
t: 01395 239002
e: info@advancedarb.com
w: www.advancedarb.com

Photograph 9: Plum T9

Photograph 10: Lime T10

Photograph 11: Ash T11

Photograph 12: Ash T12

Photograph 13: Area A1

Photograph 14: Area A2

Photograph 15: Area A3

Notes

- Copies of these photographs in JPEG format are available from Advanced Arboriculture on request.

Drawing Title:

Photographs

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
n/a	A3	TH

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Photograph 16: Horse Chestnut T13

Photograph 17: Field Maple T14

Photograph 18: Field Maple T15

Photograph 19: Field Maple T16

Photograph 20: Hedge H1

Photograph 21: Hedgerow H2

Photograph 22: Hedgerow H3

Notes

- Copies of these photographs in JPEG format are available from Advanced Arboriculture on request.

Drawing Title:

Photographs

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
n/a	A3	TH

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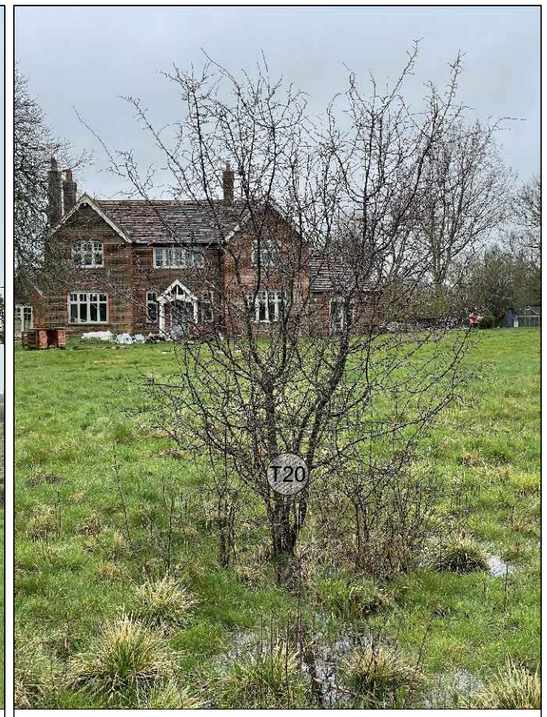
Photograph 23: Field Maple T17

Photograph 24: Poplar T18

Photograph 25: Holm Oak T19



Photograph 26: Hawthorn T20

Photograph 27: Hedgerow H3

Photograph 28: Group G1

Photograph 29: Entrance from Berryfields Gated Road

Notes

- Copies of these photographs in JPEG format are available from Advanced Arboriculture on request.

Drawing Title:

Photographs

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
n/a	A3	TH

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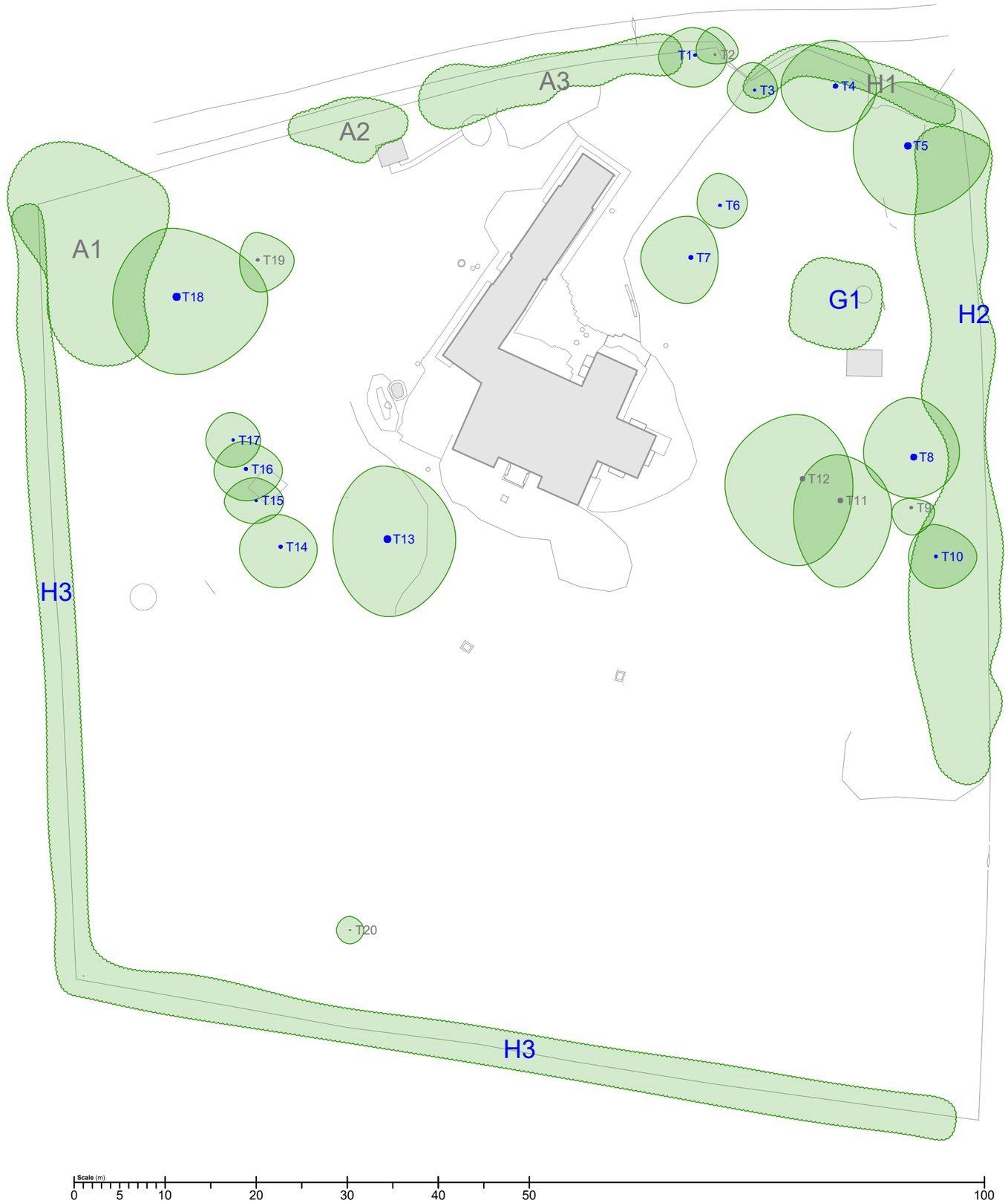

Key

- Tn Category A tree
- Tn Category B tree
- Tn Category C tree
- Tn Category U tree
- Individual tree crown spread
- Collective crown spreads
- Root protection area
- BS5837:2012 shade path
- Proposed development footprint
- Construction exclusion zone
- Braced Heras fencing (see AGS101)
- Temporary sections of braced Heras fencing
- High-visibility barrier fencing (see AGS105)
- Construction exclusion zone
- No-dig surfacing (see AGS301)

N

Notes

•

Drawing Title:

Tree Location Plan

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
1:500	A3	TH

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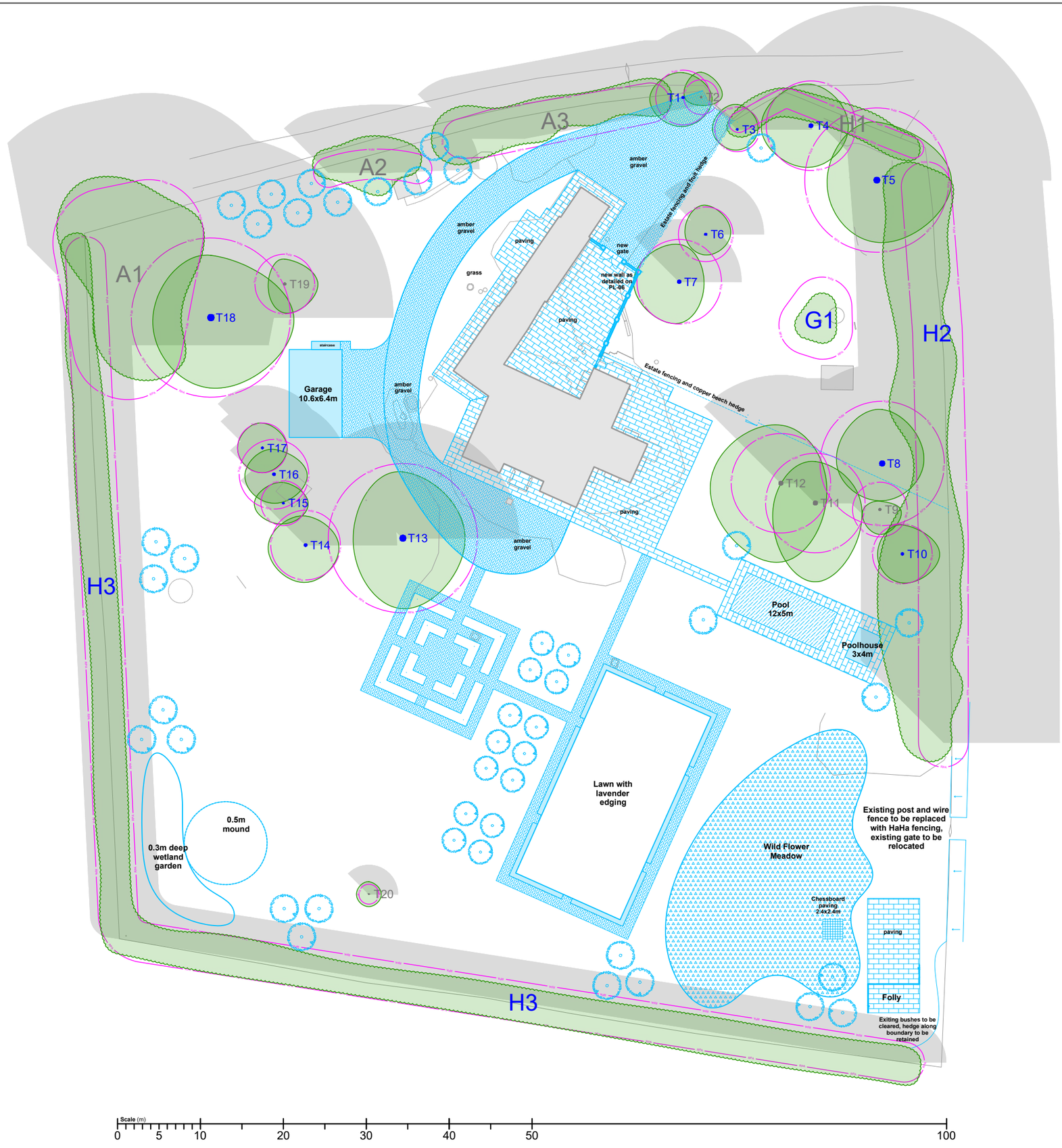

Key

- T_n Category A tree
- T_n Category B tree
- T_n Category C tree
- T_n Category U tree
- Individual tree crown spread
- Collective crown spreads
- Root protection area
- BS5837:2012 shade path
- Proposed development footprint
- Construction exclusion zone
- Braced Heras fencing (see AGS101)
- Temporary sections of braced Heras fencing
- High-visibility barrier fencing (see AGS105)
- Construction exclusion zone
- No-dig surfacing (see AGS301)

N

Notes

•

Drawing Title:

Tree Constraints Plan

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
1:500	A3	TH

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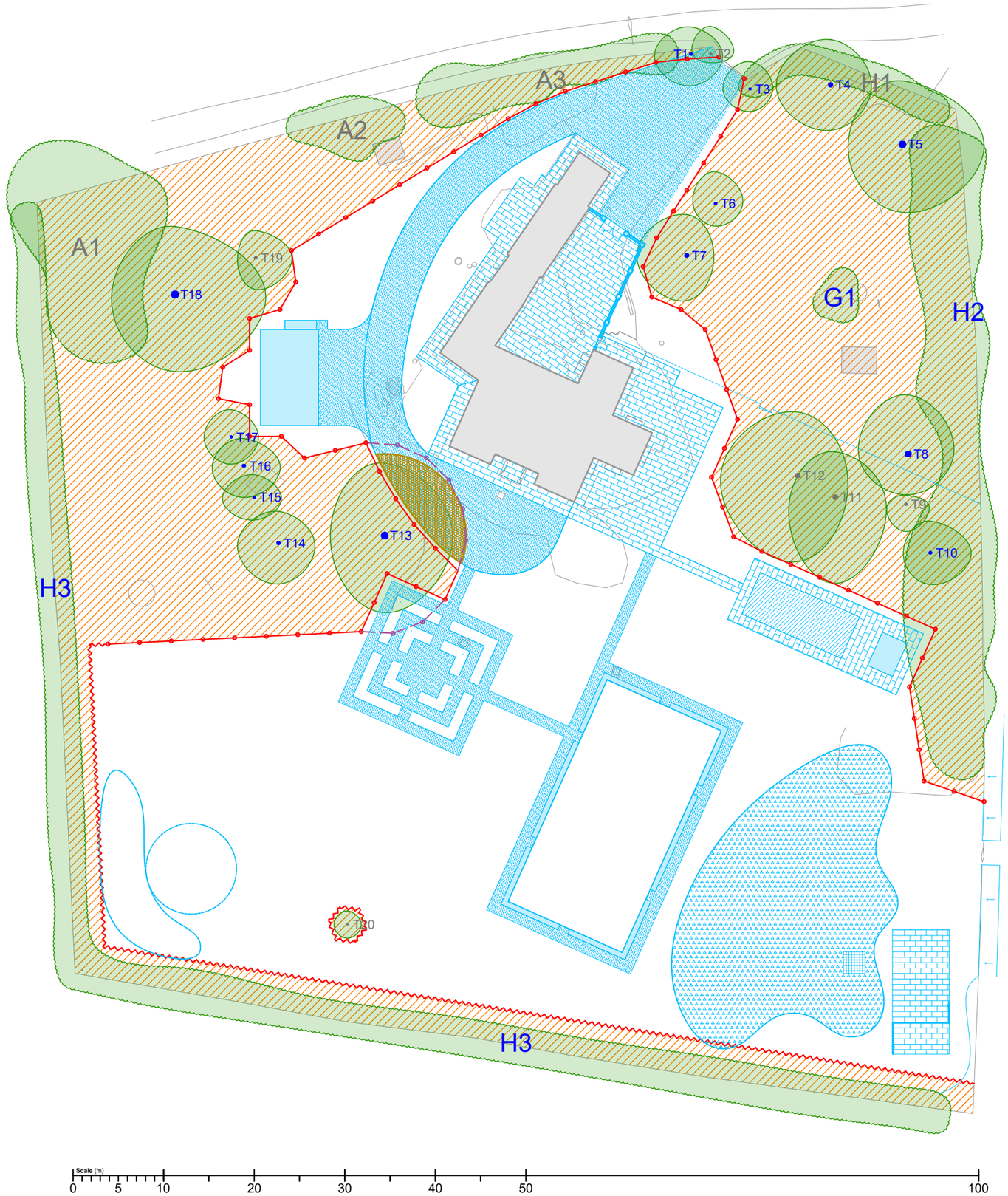

Key

- Tn Category A tree
- Tn Category B tree
- Tn Category C tree
- Tn Category U tree
- Individual tree crown spread
- Collective crown spreads
- Root protection area
- BS5837:2012 shade path
- Proposed development footprint
- Construction exclusion zone
- Braced Heras fencing (see AGS101)
- Temporary sections of braced Heras fencing
- High-visibility barrier fencing (see AGS105)
- Construction exclusion zone
- No-dig surfacing (see AGS301)

Notes

- **Protective fencing must not be breached or dismantled at any point during the construction programme without the written consent of the local planning authority.**
- **Failure to fully comply with this Tree Protection Plan may result in the local planning authority pursuing enforcement action.**
- **It is the Site Manager's responsibility to ensure that all site personnel, plant and materials remain outside of the Construction Exclusion Zones and protective fencing at all times.**

Drawing Title:

Tree Protection Plan

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
1:500	A3	TH

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T17

T16

T15

T14

T13

Temporary sections of fencing to be installed prior to commencement of any construction works. North-east section to remain in situ until the no-dig surfacing can be installed. South-east section to remain in situ until the commencement of the installation of the parterre.

0 1 2 3 4 5 10 20

Key

- Tn Category A tree
- Tn Category B tree
- Tn Category C tree
- Tn Category U tree
- Individual tree crown spread
- Collective crown spreads
- Root protection area
- BS5837:2012 shade path
- Proposed development footprint
- Construction exclusion zone
- Braced Heras fencing (see AGS101)
- Temporary sections of braced Heras fencing
- High-visibility barrier fencing (see AGS105)
- Construction exclusion zone
- No-dig surfacing (see AGS301)

N

Notes

- **Protective fencing must not be breached or dismantled at any point during the construction programme without the written consent of the local planning authority.**
- **Failure to fully comply with this Tree Protection Plan may result in the local planning authority pursuing enforcement action.**
- **It is the Site Manager's responsibility to ensure that all site personnel, plant and materials remain outside of the Construction Exclusion Zones and protective fencing at all times.**

Drawing Title:

Tree Protection Plan

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
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e: info@advancedarb.com
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Arboricultural Method Statement

All works to be undertaken sequentially in accordance with the following schedule:

1. Tree Protection Plan and Arboricultural Method Statement to be reviewed and signed off by the Site Manager and Arboricultural Supervisor (see below). Any amendments to be made and a copy of all revised documents sent to the local planning authority as necessary. Signed off copy to be held on file in the site office for the duration of construction works.
2. All site personnel, including sub-contractors, to be advised of tree protection requirements during induction (see Arboricultural Induction Sheet).
3. All tree works to be undertaken in accordance with British Standard 3998:2010.
4. Protective fencing to be installed as per the specification detailed within Arboricultural Guidance Sheet AGS101 **and AGS105**.
5. Arboricultural supervisor to attend site to inspect tree protection measures prior to the commencement of any construction activities (may be done via Skype/Facetime where practicable).
6. Construction to commence in accordance with approved site layout.
7. Advanced Arboriculture to undertake inspections at key trigger points (see Arboricultural Supervision Inspection Record) along with ad hoc inspections at the request of the site manager or client. All inspections to be logged on the Arboricultural Supervision Inspection Record and any issues to be raised within an Exception Report to the client.
8. Any accidental damage to trees to be reported immediately to Advanced Arboriculture with any necessary remedial works to be agreed with the local planning authority.
9. Fencing to be dismantled only on completion of all construction works and to allow for soft landscaping.
10. Signed copy of this drawing and Arboricultural Supervision Inspection Record to be held on project files on completion of all construction works.

Notes

- **The arboricultural supervision requirements are detailed within the attached supervision record but may be further modified by a planning condition.**
- **The arboricultural supervision schedule must be incorporated into the project programme, ensuring that the arboricultural supervisor is contacted with a minimum of five working days before the identified key trigger points.**
- **Failure to fully comply with this Arboricultural Method Statement and supervision programme may result in the local planning authority refusing to sign off any tree-related planning conditions, or pursuing enforcement action.**
- **It is the client's responsibility to appoint an arboricultural supervisor prior to the commencement of the project on site. Advanced Arboriculture Ltd cannot be held liable for any failure to follow this schedule or for non-compliance with the prescribed tree protection measures and method statements.**
- **The client may appoint any suitably qualified and experienced arboricultural consultant to fulfil the role of arboricultural supervisor, but Advanced Arboriculture Ltd are able to take on this role on request.**

Document Review

The Arboricultural Method Statement must be reviewed and signed off by the Site Manager and Arboricultural Supervisor prior to the commencement of works to ensure that it is fit for purpose.

Site Manager: _____

Arb Supervisor: _____

Date: _____

	Yes	No
Document reviewed?	☐	☐
Issues raised?	☐	☐
Revised document required?	☐	☐

Drawing Title:

Arboricultural Method Statement Plan

Location:

Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
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t: 01395 239002
e: info@advancedarb.com
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Tree Protection Information

Trees on this site are legally protected by the Local Planning Authority.

- Planning conditions, Tree Preservation Orders and Conservation Area regulations mean that damage to trees may result in enforcement action and all site works being stopped.

Protective fencing must not be moved or dismantled under any circumstances.

- The protective fencing for the trees is there to protect the trees and their rooting systems.
- The fencing must not be moved for any reason unless it has been approved by the Site Manager and the Arboricultural Supervisor.

The Construction Exclusion Zones are not to be used for any reason.

- These areas are there for a reason: to protect the tree above and below the ground.
- Storage of materials, the mixing of concrete, the fueling of machines, the parking of vehicles, *etc.* all cause damage to a tree's roots so use a designated zone for these activities.

Trees are not to be used for any purpose - they are there for the future.

- Trees are not to be used as a place to screw signs onto, or as cable supports.
- Fires can do massive damage to trees, both above and below ground, and even some distance away. If a fire is permitted on site, it must be at least ten metres from the nearest branch of any retained tree.

Extra care will always be required when craning or using excavators.

- It's too easy to accidentally swing an excavator boom, HIAB, crane jib or load into the branches or trunk of a tree so extra care is always required.
- Plan all movements carefully, make sure the operator has good visibility and, where possible, use an experienced banksman.

What to do if it all goes wrong?

- Accidents can happen so if a tree is damaged, even only slightly, this must be reported to the Site Manager immediately.
- If the Site Manager is not available then contact Advanced Arboriculture immediately to seek further advice.

All site staff including archaeologists, consultants, contractors, sub-contractors, arborists and landscapers must sign below to confirm that they have read and understood this information

Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**
Full Name:	**Signature:**	**Full Name:**	**Signature:**
Company:	**Date:**	**Company:**	**Date:**

Notes for Site Manager

- **Damage to trees during construction can result in enforcement action, including the local authority issuing Stop Notices or pursuing prosecution for damage to trees covered by a Tree Preservation Order.**
- It is essential that all staff working on site, including contractors, sub-contractors and delivery drivers, are made aware of the tree protection measures in operation on this site.
- It may be necessary to read the sheet out to personnel with limited literacy or language skills.
- Every member of staff must sign this sheet to confirm that they have fully understood the tree protection measures. The sheet must remain on site with the Tree Protection Plan and Arboricultural Method Statement to allow for inspection at any reasonable time by the Arboricultural Supervisor or the Local Planning Authority Arboricultural Officer.
- In the event of any queries, concerns or amendments, please contact Advanced Arboriculture at the earliest opportunity.
- **It is essential that the project has a designated Arboricultural Supervisor. If this role has not been assigned then please contact the client or Project Manager to request authorisation to appoint an Arboricultural Supervisor.**
- **It is the Site Manager's responsibility to ensure that all staff are fully inducted, that all tree protection measures are installed and maintained correctly, and that the scheduling detailed within the Arboricultural Method Statement is followed.**

Arboricultural Supervisor
(unless otherwise instructed)

Name:	Tom Hurley
Company:	Advanced Arboriculture
Tel:	01395 239002
Mobile:	07967 384910
Email:	th@advancedarb.com

Drawing Title:
Arboricultural Site Induction Sheet

Location:
Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
n/a	A3	TH

Advanced Arboriculture
Venmore Barn
Woodbury
Devon EX5 1LD
t: 01395 239002
e: info@advancedarb.com
w: www.advancedarb.com

Arboricultural Supervision Inspection Record

Inspection Trigger Point Stages

The following project stages will trigger the need for an inspection by the arboricultural supervisor (tick all that apply):

A	Tree Protection Statement review	✓
B	Tree protection inspection	✓
C	Pre-site-enabling inspection*	
D	Pre-demolition inspection	
E	Pre-groundworks inspection	
F	Pre-construction inspection	
G	Mid-construction inspection**	
H	Construction completion inspection	
I	Pre-landscaping inspection	
J	Project completion inspection	✓
S	Scheduled inspections	
X	Ad-hoc inspection (client request)	
Y	Ad-hoc inspection (LPA request)	
Z	Unannounced inspection	

Note:
The number of inspections will be determined during the preparation of the Tree Protection Statement based on anticipated risk of harm to trees. These trigger points may be modified by the local planning authority and included as a condition of any planning consent.

* Site enabling includes construction of access routes, site compound setup, materials storage setup, *etc.*
** Timing of mid-construction to be defined at Tree Protection Statement Review stage

Tree Protection Statement Review

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Consultees: Client ☐
Architect ☐
Project Engineer ☐
Project Manager ☐
Site Manager ☐
Demolition Contractor ☐
Groundworks Contractor ☐
Landscape Contractor ☐
LPA Tree Officer ☐

Others: (Please specify) ______________ ☐
______________ ☐

Comments:

	Yes	No
Planning conditions checked?	☐	☐
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Inspection Record

Stage (see trigger points): __________

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Project Completion Inspection (Stage H)

Date: ____________________

Inspector: ____________________

Meeting: On-site ☐
On-line ☐

Comments:

	Yes	No
All concerns addressed/resolved?	☐	☐
Tree issues?	☐	☐
Fencing/ground protection issues?	☐	☐
Document revision required?	☐	☐

Notes for Site Manager

- **Where arboricultural supervision is included as a condition of a planning consent, there is a legal obligation to ensure that it is complied with in full.**
- It is the site manager's responsibility to ensure that the arboricultural supervisor is appointed and inspections commissioned as per the planning consent. Failure to comply with the prescribed arboricultural supervision requirements remains the responsibility of the client.
- Reasons for requesting additional ad hoc inspections may include accidental damage to trees, an amendment to proposals, or to clarify a detail on the Tree Protection Plan or Arboricultural Method Statement. The Arboricultural Supervisor shall make every effort to attend site within 48 hours of receiving a request from the Site Manager.
- Inspections at key trigger points may coincide with scheduled inspections
- Local planning authority officers may ask to see the completed Arboricultural Supervision Inspection Record at any reasonable time.
- Any issues raised during an inspection may require the Arboricultural Supervisor to prepare an Exception Report detailing remedial works or actions; these must also be kept on file in the site office.
- On completion of all construction works, a copy of this completed document must be sent to the local planning authority by the Arboricultural Supervisor to discharge the relevant conditions of the planning consent.

Arboricultural Supervisor

(unless otherwise instructed)

Name: Tom Hurley
Company: Advanced Arboriculture
Tel: 01395 239002
Mobile: 07967 384910
Email: th@advancedarb.com

Drawing Title:
Arboricultural Supervision Log

Location:
Lower Fleet Marston Farmhouse, Quarrendon

Date:	Project Reference:	Revision:
28.03.2024	TH/C015/0324	1.0
Scale:	**Paper Size:**	**Drawn By:**
n/a	A3	TH

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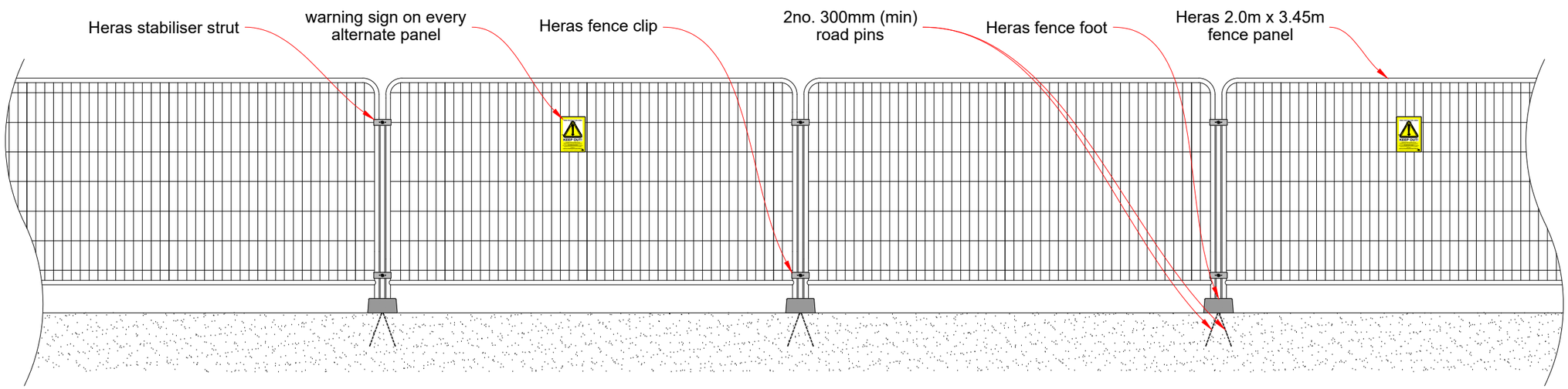
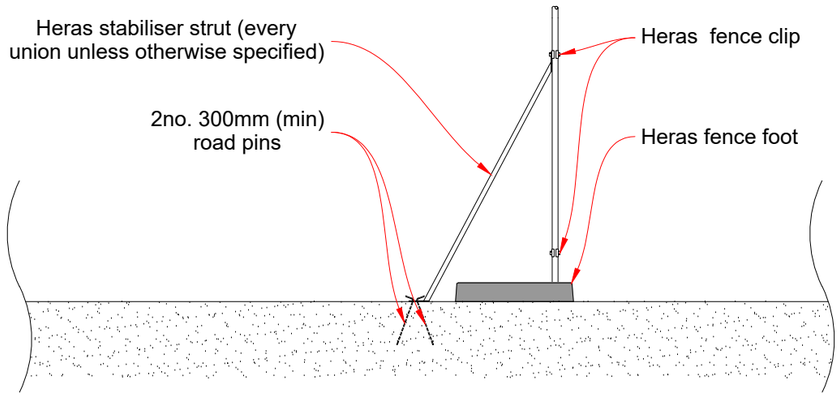
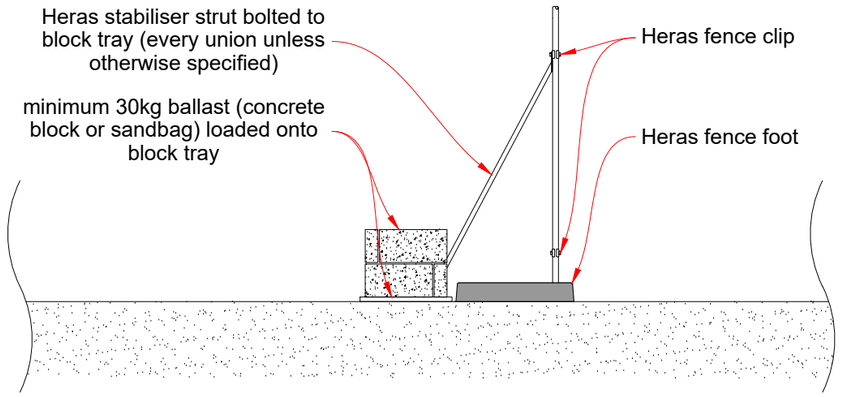




Back Bracing Cross Section (for use where road pins may be driven into the ground)



Back Bracing Cross Section (for use where road pins cannot be driven into the ground)

Notes

- These specifications are for guidance only.
- This fencing specification is based on the specification detailed within British Standard 5837:2012 Figure 3 but adds an additional detail for where the use of road pins is not possible.
- Stabiliser struts to be attached at every panel union unless specified otherwise.
- A check for underground services must be completed before driving any road pins into the ground.
- Where it is not possible to use road pins due to hard surfacing or the presence of underground services, a Heras block tray may be used with a minimum of 10kg of ballast (concrete blocks, metal weights or sandbags).
- This information must accompany all tender documents to enable contractors to include tree protection measures in their costings.
- Local planning authority consent for these specifications cannot be assumed and must be sought prior to commencement of any construction works.

Drawing Title:
Braced Heras Fencing

Date:	Drawing Number:	Revision:
01.02.2021	AGS101	1.0
Scale:	**Paper Size:**	**Drawn By:**
1:40	A3	TH

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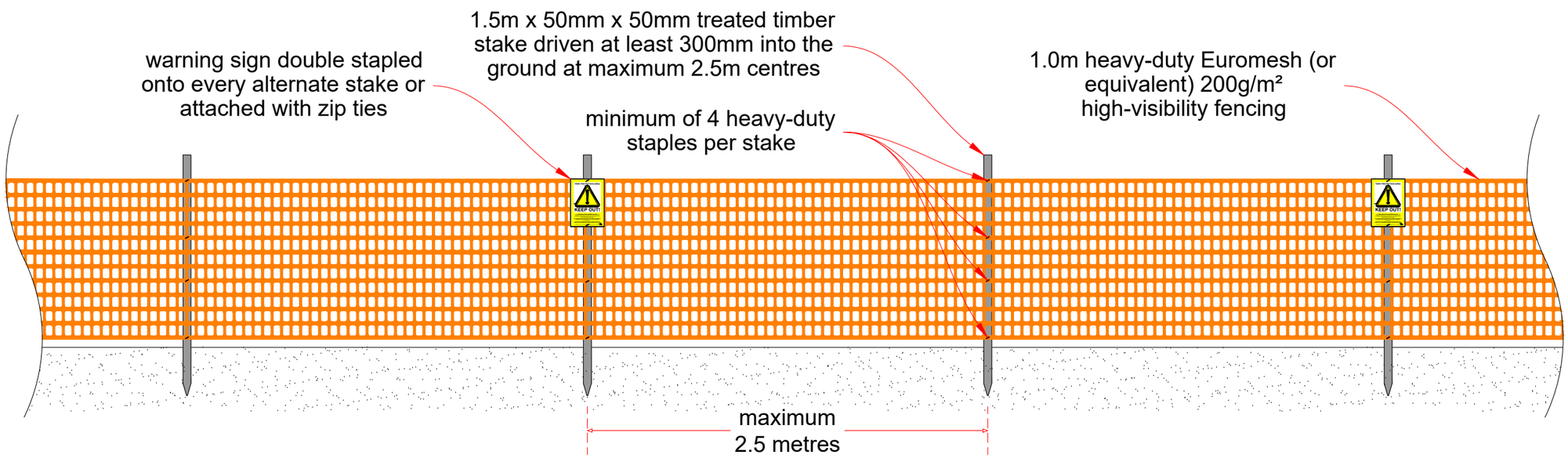
Venmore Barn
Woodbury
Devon EX5 1LD
t: 01395 239002
e: info@advancedarb.com
w: www.advancedarb.com



Notes

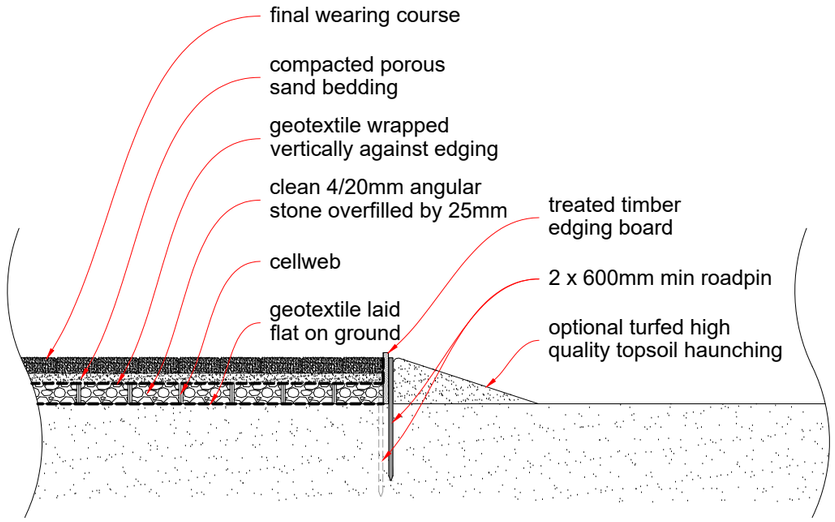
- These specifications are for guidance only.
- A check for underground services must be completed before driving any stakes into the ground. Where underground services may prevent safe use of stakes driven into the ground, consent must be sought from the local planning authority for the use of rigid plastic construction barriers or a water-filled plastic barrier block system.
- This information must accompany all tender documents to enable contractors to include tree protection measures in their costings.
- Local planning authority consent for these specifications cannot be assumed and must be sought prior to commencement of any construction works.

Drawing Title:

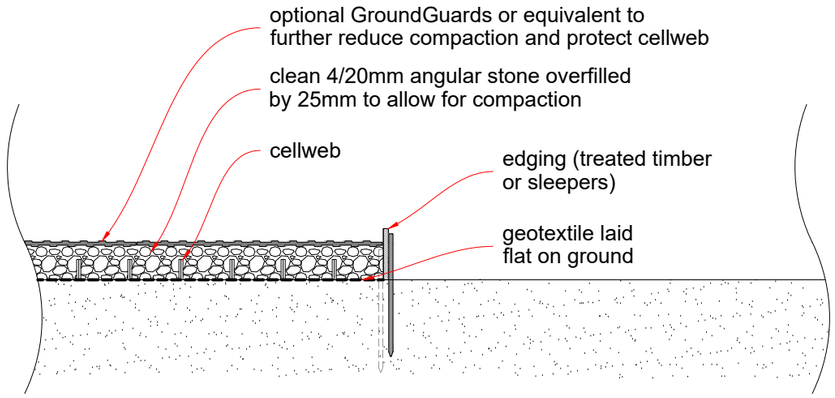
High-Visibility Barrier Fencing

Date:	Drawing Number:	Revision:
01.02.2021	AGS105	2.0
Scale:	**Paper Size:**	**Drawn By:**
1:30	A3	TH

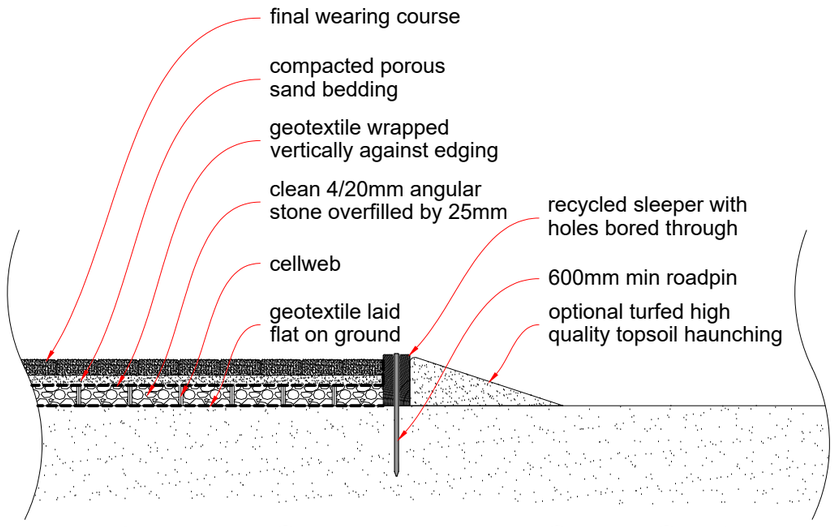
Advanced Arboriculture
Venmore Barn
Woodbury
Devon EX5 1LD
t: 01395 239002
e: info@advancedarb.com
w: www.advancedarb.com



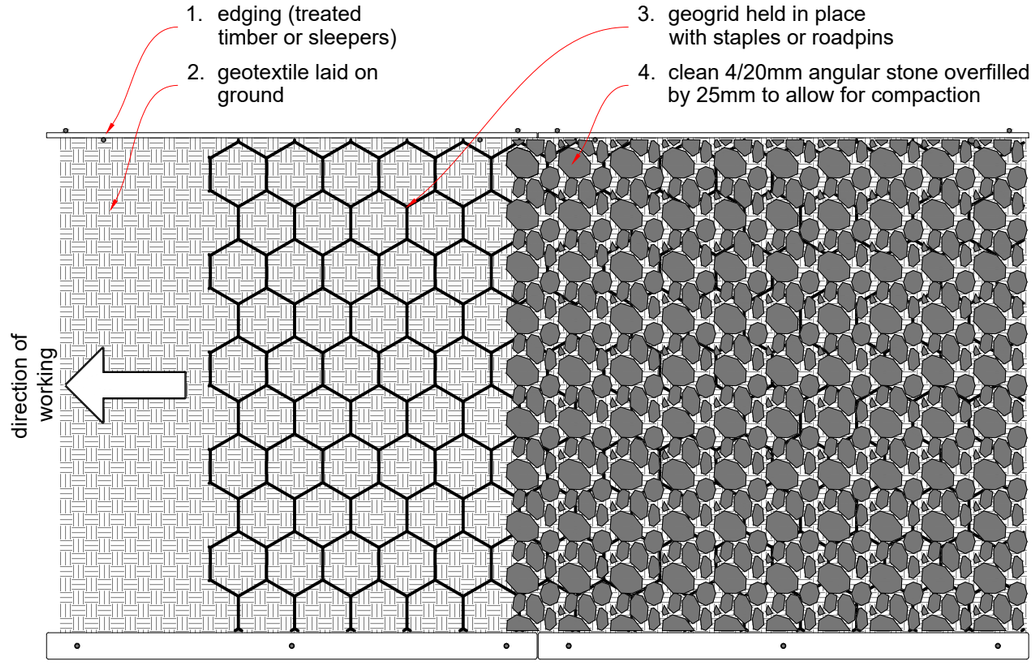
Timber-Board Edging Cross Section



Temporary Ground Protection Cross Section



Recycled Sleeper Edging Cross Section



Plan View of No-Dig Installation

Notes

- These specifications are for guidance only and **must** be reviewed by the Project Manager, Project Engineer and Arboricultural Supervisor prior to commencement of any works on site.
- We recommend Greenfix to provide a comprehensive engineering and design service for no-dig surfaces (t: 01608 666027, w: www@greenfix.co.uk).
- The Arboricultural Method Statement below is to be followed for all no-dig surfacing permitted within the root protection area (RPA) by a full planning consent.
- This information must accompany all tender documents to enable contractors to factor these specifications in their costings.
- Local planning authority consent for these specifications cannot be assumed and must be sought prior to commencement of any construction works.

Arboricultural Method Statement

1. Chosen specification to be reviewed by suitably qualified engineer to ensure that it is fit for purpose.
2. Ground to be raked clear of debris including leaf litter and twigs.
3. Treated timber or recycled sleeper edging to be installed, ensuring no services are present before driving roadpins in to secure edging.
4. A layer of geotextile (Greenfix *TRP-3000* or equivalent) to be laid out across the entire area to be surfaced.
5. Layer of cellular confinement geogrid (Greenfix *GEOWEB* or equivalent) to be secured into place along the entire length of the route using Greenfix *ATRA Keys* and roadpins.
6. The geogrid to be overfilled by 25mm with 4/20mm clean angular stone using a mini-dumper truck, powered barrow or hand barrow, working along the route from its starting point so that the stone delivery only runs over filled areas of grid.
7. If the no-dig is to be used as a construction access, it should be slightly overfilled with stone and optional GroundGuards or equivalent placed on top to protect the geogrid and further reduce compaction.
8. Remove GroundGuards (if fitted) to allow for installation of final wear course.
9. Some tamping down may be necessary to ensure a firm interlock between stones and minimise settlement.
10. A layer of geotextile (Greenfix *TRP-3000* or equivalent) to be laid out across the entire area to be surfaced, wrapping the sides up to the level of the top of the timber or sleeper edging.
11. Cover the geotextile in a layer of sand and firm down thoroughly.
12. Install the final wearing course, ensuring that any block paving is permeable.

Alternative wear courses including permeable tarmac or resin-bound gravel may be suitable for installation on the stone and geogrid base but will require further arboricultural input to ensure the specification, sub-base and installation method are acceptable.

Drawing Title:

No-Dig Specification

Date:	Drawing Number:	Revision:
01.02.2021	AGS301	1.0
Scale:	**Paper Size:**	**Drawn By:**
1:30	A3	TH

Advanced Arboriculture
Venmore Barn
Woodbury
Devon EX5 1LD
t: 01395 239002
e: info@advancedarb.com
w: www.advancedarb.com

TREE PROTECTION AREA

KEEP OUT

(TOWN AND COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE LEGALLY PROTECTED BY PLANNING CONDITIONS AND MAY BE THE SUBJECT OF A TREE PRESERVATION ORDER.
ANY INCURSION INTO THE PROTECTED AREA MUST HAVE THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY.
IN CASE OF ANY DAMAGE TO PROTECTIVE FENCING OR TREES, CALL ADVANCED ARBORICULTURE ON 01395 239002.

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Notes

This poster may be printed out and laminated or requested electronically as an A4 PDF or ready printed on laminated board.

Printing Instructions (A4 printing only):

- For the best results, this document should be printed using a colour laser printer and laminated.
- Open this file in Adobe Acrobat Reader or Acrobat Pro.
- Select *File* > *Print*.
- Choose the printer and make sure it is set to print on A4 paper.
- Under *Size Options*, choose "*Actual size*".
- Under *Orientation*, choose "*Portrait*".
- Select *Print*.

Electronic Copies:

- This document may be downloaded directly from the Advanced Arboriculture website using the following links:

  A4: http://www.advancedarb.com/download/A4.pdf
  A3: http://www.advancedarb.com/download/A3.pdf

These documents may only be used for projects where Advanced Arboriculture have been appointed as the arboricultural supervisors.

Arboricultural Supervisor
(unless otherwise instructed)

Name: Tom Hurley
Company: Advanced Arboriculture
Tel: 01395 239002
Mobile: 07967 384910
Email: th@advancedarb.com

Drawing Title:
Protective Fencing Poster

Date:	Drawing Number:	Revision:
01.02.2021	AGS801	1.0
Scale:	**Paper Size:**	**Drawn By:**
n/a	A3	TH

Advanced Arboriculture
Venmore Barn
Woodbury
Devon EX5 1LD
t: 01395 239002
e: info@advancedarb.com
w: www.advancedarb.com

CAUTION

PROTECTED TREES ON SITE

- **DO NOT ENTER TREE PROTECTION FENCING**
- **ALWAYS USE DESIGNATED STORAGE, MIXING AND PARKING AREAS**
- **TAKE ADDITIONAL CARE WHEN DRIVING HIGH SIDED VEHICLES**
- **ALWAYS USE A BANKSMAN WHEN USING HIABS, CRANES AND EXCAVATORS NEAR TREES**

REPORT ANY TREE DAMAGE TO SITE MANAGER IMMEDIATELY

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Notes

The poster must be put up on the site office board and in the workforce welfare facilities at the commencement of construction and must remain clearly visible for the duration of the project.

The Site Manager must enter their name and mobile telephone number in the box on the poster. In the event of any accidental damage to any trees (including rooting damage), the Site Manager must contact the Arboricultural Supervisor immediately to seek further advice.

This poster may be printed out and laminated or requested electronically as an A4 PDF or ready printed on laminated board.

Printing Instructions (A4 printing only):

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- Open this file in Adobe Acrobat Reader or Acrobat Pro.
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- Choose the printer and make sure it is set to print on A4 paper.
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- Under *Orientation*, choose "*Portrait*".
- Select *Print*.

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  A3: http://www.advancedarb.com/download/siteposterA3.pdf

These documents may only be used for projects where Advanced Arboriculture have been appointed as the arboricultural supervisors.

Arboricultural Supervisor
(unless otherwise instructed)

Name:	Tom Hurley
Company:	Advanced Arboriculture
Tel:	01395 239002
Mobile:	07967 384910
Email:	th@advancedarb.com

Drawing Title:
Site Office Tree Poster

Date:	Drawing Number:	Revision:
01.02.2021	AGS802	1.0
Scale:	**Paper Size:**	**Drawn By:**
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Advanced Arboriculture
Venmore Barn
Woodbury
Devon EX5 1LD
t: 01395 239002
e: info@advancedarb.com
w: www.advancedarb.com