Trevor Heaps

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Arboricultural Impact Assessment

Method Statement & Tree Protection Plan

(to BS:5837 2012)

24 Ducks Hill Road, Northwood

HA6 2NR

Prepared for YNS Properties Ltd.

Prepared by Trevor Heaps BSc, MICFor, RC. Arbor. A

Date: 31st January 2025

Ref: TH 4948 B

AA Registered CONSULTANT trees.org.uk

Institute of Chartered Foresters
Registered Consultant

Summary

It is proposed to demolish the existing dwelling and construct four replacement dwellings.

The proposals will require the removal of thirteen trees. To mitigate, new trees and shrubs will be planted post-construction as part of a comprehensive re-landscaping plan.

Some basic tree protection measures and working methodology (in accordance with BS 5837:2012) will ensure the retained and third-party trees are not detrimentally affected during construction.

The relationship between the proposal and trees is sustainable and will not result in any unreasonable pressure to carry out inappropriate tree works.

If the proposal is implemented in accordance with the recommendations laid out in this report, neither the trees or wider landscape will be adversely affected.

This is an arboriculturally defensible scheme and there are no (arboricultural) reasons why planning consent should not be granted.

Contents

1.0 Introduction

1.1 I am Trevor Heaps, Director of Trevor Heaps Arboricultural Consultancy Ltd. I hold a First-Class Honours Degree in Arboriculture; I am a Chartered Arboriculturist and a professional member of the Institute of Chartered Foresters; and I am also a Registered Consultant with the Arboricultural Association. Further information about my qualifications and experience is provided in Appendix 1.

1.2 Contact details:

Who	Name	Organisation	Details
Arboricultural Consultant	Trevor Heaps	THAC Ltd., 12 Plover Drive, Milford-on-Sea, Hampshire, SO41 0XF	Tel: 07957 763 533 trevor@trevorheaps.co.uk
Client		YNS Properties Ltd.	
London Borough of Hillingdon - LPA	Tree Officer	Civic Centre, High Street, Uxbridge, UB8 1UW	Tel: 01895 556000 E-mail: trees@hillingdon.gov.uk

2.0 Instruction

2.1 We are to survey all significant trees that could be affected by the proposed works.

2.2 We are then to prepare a report to appraise the effect these works will have on any nearby trees and the surrounding landscape.

2.3 We are then to set out recommendations for the protection of the trees during development - in accordance with British Standard 5837:2012 'Trees in relation to design, demolition and construction – Recommendations' (BS5837).

3.0 Drawings provided.

3.1 Site Plan – Ref. YDHR – SK-130 – D – Dated 07/2024 – Drawn by JSA Architects

4.0 Report context

4.1 The site was surveyed by Trevor Heaps on the 18th December 2024.

4.2 The trees were surveyed from within the site at ground level. No climbed inspections were carried out and no root/soil samples were taken for analysis.

4.3 The trees were inspected based on the Visual Tree Assessment (VTA) developed by Mattheck & Breloer (The Body Language of Trees, 1994).

4.4 Tree heights, crown spreads and stem diameters were measured with a clinometer, a Disto laser measure and a diameter measuring tape respectively.

4.5 Small trees and shrubs (with stem diameters less than 75mm) were not surveyed.

4.6 This report is based on the information provided (i.e. site plans, proposed drawings, scales, measurements etc.) and observations during the site visit.

4.7 This report will support a planning application and/or an application to discharge a tree-related condition and its purpose is to assist and inform the planning process.

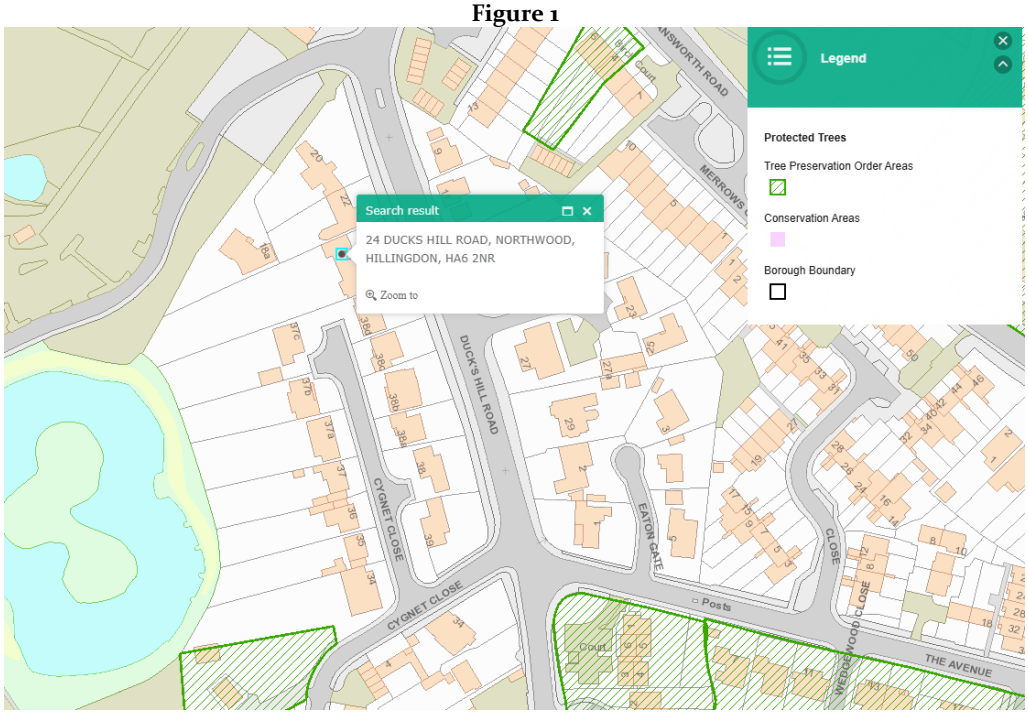
4.8 This report does not set out the detailed, working specifications of tree protection measures and engineering / design features, but provides sufficient detail to demonstrate the feasibility of the scheme in principle.

4.9 The report does not assess the potential influence of trees upon load-bearing soils beneath existing and proposed structures (resulting from water abstraction by trees on shrinkable soils).

5.0 Statutory tree protection

5.1 According to the Council's website (checked 13/12/2024), none of the trees within or adjacent to this site are covered by a Tree Preservation Order (TPO), or growing within a Conservation Area.

Figure 1



6.0 Ecological constraints

6.1 The Wildlife and Countryside Act 1981 (as amended by the Countryside and Rights of Way Act 2000) provides statutory protection to birds, bats and other species that inhabit trees.

6.2 In addition to any tree matters considered in this report, these protected animals could impose significant constraints on the use and timing of access to the site.

7.0 The site

7.1 This property is situated within a leafy, residential part of Northwood.

8.0 The soil and topography

8.1 The soils at this site were determined using information provided by the British Geological Survey and observations during the site visit.

8.2 The site slopes gently upwards from front to back, and the soil texture is London Clay Formation - Clay, silt and sand.

8.3 Given the information above, the soil has the potential of becoming compacted (which is harmful to tree roots).

9.0 Arboricultural Impact Assessment (AIA) and Tree Protection Methods

9.1 The following section describes the potential effects the construction works will have on the subject trees. Mitigation measures are recommended, and this information should be read in conjunction with the supporting Tree Protection Plan (TPP).

9.2 Further information on the subject trees is provided in Appendices 2 & 3.

9.3 Trees to be removed to facilitate development

9.3.1 The proposals will require the removal of thirteen trees from within the rear garden (the majority of them are from an outgrown Hornbeam hedge growing directly adjacent to 37C Cygnet Close).

9.3.2 They are not particularly valuable or visible from outside the site, and neither the amenity or arboreal character of the local area will be affected by their removal. However, to mitigate, new trees and shrubs will be planted post-construction.

9.3.3 It is normally appropriate to deal with re-planting matters by condition or by way of a landscape plan; however, the following details can be confirmed at this stage:

- The new tree(s) will be of standard size (about 2-3m high)
- The new tree species will be carefully chosen to suit the site conditions and reflect the existing arboreal character of the local area
- The new tree(s) will be planted in full accordance with current British Standards (BS 8545: From Nursery to Independence in the Landscape);
- Once planted, the tree(s) will be regularly maintained (watered and weeded during the spring and summer months) for at least 5 years or until established.

9.4 Physical damage to stems of retained trees

9.4.1 There is a risk that the crowns and stems of some of the retained trees could be accidentally damaged during development.

9.4.2 To minimise this risk, protective fencing will be erected in front of their stems and, where space allows, along their canopy extents.

9.5 Foundations within RPA of retained trees

9.5.1 The excavations required for the foundations will result in the following RPA incursions:

- Eucalyptus T15 – 12.8m of 366m² = 3.5% (note – this tree is infected with Ganoderma).
- Leyland Cypress G21 (southern-most tree) – 0.7m of 72m² = 5.5%

9.5.2 Section 5.3.1 (a) of BS 5837:2012 recommends that, if operations (in this case, excavations for foundations) are proposed within a tree's RPA then, the project arboriculturist should demonstrate that it can remain viable and that the area lost to encroachment can be compensated for elsewhere, contiguous with its RPA.

9.5.3 An RPA is an estimation of the minimum root system needed to sustain the condition of a tree (if all roots outside it were to be severed); it is not a measure of a tree's entire rooting system.

9.5.4 It is commonly accepted, within the arboricultural industry, that the RPA represents about a third of a tree's actual rooting system and, consequently, whilst the RPA is particularly important to ensure that there are no adverse effects on stability, if an encroachment does not significantly reduce the overall assimilative function of the root system, it is unlikely to cause harm.

9.5.5 Therefore, although there are incursions into the trees' RPAs (minimum root systems needed); the percentage of the trees' actual rooting systems affected is much less (a third of the figures shown above). Furthermore, it is possible to off-set the incursions within soft areas contiguous with the RPAs (within the originating gardens).

9.5.6 In terms of viability, research has shown that healthy trees of most species can withstand the loss of some roots (to a maximum of about 20% of the rooting area) with no long-term detrimental impact (Helliwell & Fordham 1992).

9.5.7 The trees are moderately healthy, and methodology has been provided in the appendices to minimise root disturbance.

9.5.8 So long as the methodology is followed, and the vulnerable parts of the trees' RPAs are protected during construction, they will not be adversely affected.

9.6 Soil compaction around retained trees

9.6.1 Soil compaction can be caused by various construction-related activities such as storage or materials and the use of heavy machinery (or even heavier than normal pedestrian access during works). It is harmful to tree roots because it reduces gaseous exchange and the availability of water and nutrients. This can affect existing trees and can also make it harder for new trees to establish.

9.6.2 To avoid the soil becoming unnecessarily compacted , all vulnerable areas will be separated from the working area by protective fencing or will be covered with ground protection.

9.6.3 The existing hard surfaces within the front garden will provide some protection for any roots growing beneath , but it is recommended that heavy duty ground protection is laid over it to re-enforce it.

9.7 Demolition of existing structures

9.7.1 To ensure that disruption is minimised to the roots and crowns of the nearby trees, the existing building will be demolished using the 'top down, pull back' method.

9.8 Removal and replacement of hard landscaping within RPA of retained trees

9.8.1 After the main construction works have been completed, the existing hard surfaces within the front garden are to be removed and replaced with permeable surface (such as permeable block paving).

9.8.2 This has the potential to improve the rooting conditions around the front garden trees, but the works will need to be done with due care.

9.8.3 Therefore, to minimise any risk of root damage, the existing surfaces and sub-bases (within the RPAs of retained trees) will only be removed using hand-held tools (i.e., using a hand-held pneumatic drill).

9.8.4 There will be no further excavations below the ground levels revealed beneath the sub-bases.

9.9 Underground services

9.9.1 The proposals will be designed in such a way as to either connect directly to existing underground services (with no further excavations) or be connected to existing services using a route outside the RPAs of trees shown retained.

9.9.2 If existing services within RPAs require upgrading, care shall be taken to minimise disturbance and where practicable, trenchless techniques employed; only as a last resort should open excavations be considered. Where existing services within RPAs are deemed not satisfactory for any further use, they should be left in situ rather than being excavated or removed.

9.9.3 If, for whatever reason, the proposed services need to be moved (and incursions into RPAs are unavoidable), then the installation works will be carried out under full arboricultural supervision and will, at the very least, comply with the methods and guidelines detailed in the National Joint Utilities Group publication NJUG 4, Guidelines for the Planning, Installation, and Maintenance of Utility Services in Proximity to Trees (November 2007).

9.10 Potential future patio

9.10.1 Rear / side patios are not shown on the plans; however, the applicant is aware of the need to either avoid the RPA of Eucalyptus T15 , or to use raised decking rather than a patio with sub-base. If in the future, decking is laid, the following methodology shall be followed:

- To minimise root disruption, the new decking will be raised and supported on wooden posts (the post holes will be hand-dug and lined with plastic sheeting prior to back-filling with concrete).

- Gaps of at least 5mm will be left between the deck boards to allow rainwater and air to reach the bare soil and roots beneath.

- The ground levels beneath the decking will not be changed in anyway and ground protection will be laid over the trees' RPAs during construction.

9.10.2 It may be appropriate for the Council to add a suitably worded condition to reflect the above.

10.0 Conclusions

10.1 The proposals will require the removal of thirteen trees. To mitigate, new trees and shrubs will be planted post-construction as part of a comprehensive re-landscaping plan.

10.2 The retained / third-party trees will be protected using up-to-date methodology and guidance provided by the current British Standards (BS 58378:2012). To this end, a site-specific AMS and TPP have been provided. These are found in Section 11 and Appendix 9 respectively.

10.3 Provided the recommendations laid out in this report are followed, the proposals will not detrimentally affect the retained trees, and, with a well-thought-out re-planting scheme, there exists the possibility to enhance the arboreal character and appearance of the local area in the longer term.

10.4 The trees do not cause any significant conflicts in terms of construction activities, nor will any significant issues of post-development pressure be likely to emerge that could not be managed with routine, minor tree maintenance.

11.0 The Arboricultural Method Statement (AMS)

11.1 Effective tree protection relies on following a logical sequence of events and arboricultural supervision. This AMS lays down the methodology for all construction works that may influence significant trees and recommendations for arboricultural supervision are provided in Section 12.

11.2 It is essential that this AMS is observed and adhered to. Therefore, a copy of this AMS must be issued to the building contractor to be integrated into their work schedule and must also be permanently made available on-site for the duration of development.

11.3 This AMS should be read in conjunction with the supporting Tree Protection Plan (TPP), which is found in Appendix 9.

11.4 At this site, operations are to occur in the following sequence (refer to Appendix 4 for further details on underlined methodology; which are listed in alphabetical order):

1. Carry out tree work operations highlighted yellow in the tree data schedule (Appendix 2). All tree works are to be carried out by a competent and experienced arborist to current British Standards (see Appendix 5.9 for assistance finding a suitable arborist).

2. Erect protective fencing along the position(s) shown by the dashed red line/s on the TPP.

3. Lay heavy-duty ground protection within the area(s) shown by the diagonal blue lines AND within the area(s) shown by the orange honeycombing on the TPP.

4. Hold pre-commencement site meeting with project arboriculturist, building contractor and arboricultural officer. Meeting will include carrying out a 'toolbox talk' to raise awareness about the need for tree protection and to check (and remedy) the recommended tree protective measures. The contractor will be required to read and sign the induction form (see Appendix 7).

5. Demolish existing dwelling.

6. Working from on top of existing hard surfaces and/or suitable ground protection, excavate traditional strip foundation trenches (methodology to be followed where orange shading is shown).

7. Commence construction.

8. After all heavy construction works have been completed, remove existing hard surfaces within the front garden and construct new 'no-dig' permeable surfaces (shown by orange honeycombing on the TPP). Potentially, permeable block paving (or similar) could be used.

9. Remove tree protection when all construction activity has ended.

10. Carry out tree planting and any other landscaping works.

12.0 Arboricultural supervision

12.1 A suitably-qualified arboriculturalist will provide on-going supervision during construction. The occasions when supervision is required are outlined in Table 2. If the LPA wish to see further supervision, this matter can be dealt with by amending the report and/or by condition.

Table 2: Indicative arboricultural supervision requirements

Supervision details	Required (Y / N)	When	Details	Nature	Sign off
Pre-commencement site meeting	Y	Prior to any site activity	To ensure contractors are briefed & understand the AMS & TPP. A site supervisor will be appointed to oversee tree protection & the reporting of any damage to trees or deviation from the AMS - to the project arboriculturist / LPA	Informal and open discussions. Induction form signed by attendees	Details of meeting to be sent to LPA within 5 days
~~Meeting with tree contractors~~	~~N~~	~~Prior to protective measures being installed~~	~~To ensure tree work instructions are clear and understood.~~	~~Informal meeting~~	~~No follow up required~~
Protective measure check	Y	Prior to any site activity	To ensure that protective measures are fit-for-purposed and correctly positioned.	Photos to be provided to consultant	Details of to be sent to LPA within 5 days
~~On-going supervision~~	~~N~~	~~Every 2 weeks during construction~~	~~To ensure that the protective measures have not been moved and continue to be fit-for-purpose.~~	~~Site meeting with a site monitoring report to be prepared~~	~~Details of to be sent to LPA within 5 days~~
~~Supervision of excavation works near trees~~	~~N~~	~~During construction~~	~~To supervise key stages of works near trees (insert which / when)~~	~~Site meeting with a site monitoring report to be prepared~~	~~Details of to be sent to LPA within 5 days~~
~~Meeting with landscape contractors~~	~~N~~	~~After construction~~	~~To provide advice on tree / shrub selection (if not conditioned)~~	~~Informal meeting~~	~~No follow up required~~

12.2 A site inspection record (see Appendix 8) will be prepared after each visit and will state the condition of tree protection measures and outline any required remedial action (and timescales).

12.3 To demonstrate compliance, and to help the LPA discharge relevant planning conditions, all site monitoring reports will be forwarded to the LPAs arboricultural officer within 5 working days of the visit.

12.4 NOTE: It is the applicant's responsibility to arrange meeting dates with the arboriculturist.

13.0 Signature

This report represents a true and factual account of the potential arboricultural impacts, and makes recommendations for appropriate protective measures, at the subject property.

Signed

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Trevor Heaps
Chartered Arboriculturist
BSc, MICFor, RC. Arbor. A

Dated

31st January 2025

Appendix 1 - Professional résumé

I am Trevor Heaps, Director of Trevor Heaps Arboricultural Consultancy Ltd. I hold a First-Class Honours Degree in Arboriculture; I am a Chartered Arboriculturist and a professional member of the Institute of Chartered Foresters; and I am also a Registered Consultant with the Arboricultural Association.

Professional training

- Arboriculture and Bats: Scoping Surveys for Arborists (BCT & AA) – October 2017
- Tree Science (AA) – June 2016
- OPM (Oak Processionary Moth) Training (FC) – May 2016
- Visual Tree Assessment (Arboricultural Association) - October 2015
- Trees and the Law (Dr Charles Mynors) - June 2015
- Mortgage (Home Buyers) Report Writing (LANTRA / CAS) - February 2015
- Tree Preservation Orders - effective application (LANTRA / CAS) - November 2014
- Professional Tree Inspection 3-day course (LANTRA / AA) - July 2014
- Arboricultural Consultancy Course (AA) - May 2014
- Further down the subsidence trail 1-day course (AA) - April 2013
- Getting to grips with subsidence 1-day course (AA) - November 2012

AA – Arboricultural Association

BCT – Bat Conservation Trust

CAS – Consulting Arborist Society

FC – Forestry Commission

Appendix 2 - Tree data schedule

Ref	Name	Age	DBH (mm)	Hgt. (m)	Can. hgt. (m)	Can N (m)	Can E (m)	Can S (m)	Can W (m)	Physio cond.	Struct cond.	Life Exp.	Ret. Cat.	Comments	Rec's (proposed works are highlighted)
T1	Quercus robur (Common Oak)	M	880	18	3	6.75	6.75	6.75	6.75	Normal	Fair	40+	A2	Crown reduced in past.	
H2	Carpinus betulus (Hornbeam)	SM	100	2	0.5	1	1	1	1	Normal	Fair	40+	C2	Ivy-clad boundary hedge	
H3	Carpinus betulus (Hornbeam)	SM	100	2	0.5	1	1	1	1	Normal	Fair	40+	C2	Ivy-clad boundary hedge	
T4	Quercus robur (Common Oak)	M	850	18	3	4.5	6.5	6.5	6.5	Normal	Fair	40+	A2	Crown reduced in past. Asymmetrical crown due to growth of nearby tree now removed.	
T5	Carpinus betulus (Hornbeam)	EM	450	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).
T6	Carpinus betulus (Hornbeam)	EM	350	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).
T7	Carpinus betulus (Hornbeam)	EM	200	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).
T8	Carpinus betulus (Hornbeam)	EM	300	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).
T9	Carpinus betulus (Hornbeam)	EM	200	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).

Ref	Name	Age	DBH (mm)	Hgt. (m)	Can. hgt. (m)	Can N (m)	Can E (m)	Can S (m)	Can W (m)	Physio cond.	Struct cond.	Life Exp.	Ret. Cat.	Comments	Rec's (proposed works are highlighted)
T10	Carpinus betulus (Hornbeam)	EM	200	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).
T11	Carpinus betulus (Hornbeam)	EM	250	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).
T12	Carpinus betulus (Hornbeam)	EM	350	10	4	4.5	4.5	4.5	4.5	Normal	Fair	40+	B2	Part of an outgrown boundary hedge. Large-growing tree growing very close to 37C Cygnet Close (subsidence risk)	Remove (to facilitate development).
T13	Malus sylvestris (Crab Apple)	EM	300	8	3	4.5	4.5	4.5	4.5	Fair	Fair	20+	B2		Remove (to facilitate development).
T14	Carpinus betulus (Hornbeam)	EM	320	10	3	5.5	5.5	5.5	5.5	Fair	Fair	20+	B2	Topped in the past.	Remove (to facilitate development).
T15	Eucalyptus sp. (Gum Tree)	OM	900	16	5	6	6	6	6	Fair	Fair	10+	C2	Growing on third-party land (dbh estimated). Topped in the past. Ivy (heavy covering). Ganoderma noted at base.	
T16	Cupressus macrocarpa (Monterey Cypress) golden	M	1250	16	3	6	6	6	6	Normal	Fair	20+	B2	Growing on third-party land (dbh estimated). Sparser than would be expected..	
G17	Thuja plicata (Western Red Cedar)	EM	250	8	1.5	2.5	2.5	2.5	2.5	Fair	Fair	20+	B2	Outgrown boundary hedge. Sparser than would be expected..	
T18	Carpinus betulus (Hornbeam)	EM	450	10	3	5.5	5.5	5.5	5.5	Fair	Fair	20+	RB	Crown reduced in past.	Remove (to facilitate development).
T19	Carpinus betulus (Hornbeam)	EM	300	8	3	0.5	3.5	3.5	1.5	Fair	Poor	20+	C2	Topped in the past. Has been cut back from the boundary.	Remove (to facilitate development).

Ref	Name	Age	DBH (mm)	Hgt. (m)	Can. hgt. (m)	Can N (m)	Can E (m)	Can S (m)	Can W (m)	Physio cond.	Struct cond.	Life Exp.	Ret. Cat.	Comments	Rec's (proposed works are highlighted)
T20	Carpinus betulus (Hornbeam)	EM	300	6	3	2	2	2	2	Fair	Fair	20+	C2	Managed by topping.	Remove (to facilitate development).
G21	X Cupressocyparis leylandii (Leyland Cypress)	EM	400	6	2	2	2	2	2	Normal	Fair	40+	B2	Growing on third-party land. Outgrown boundary hedge. Linear group of trees. Managed by topping.	

Appendix 3 - Tree data schedule explanatory notes

This section explains the terms used in the **Tree data schedule** (Appendix 2).

Ref: Each item of vegetation has its own unique number, prefixed by a letter such that:

T1=Tree **S2**=Shrub or stump **G3**=Group **H4**=Hedge **W5**=Woodland

Species: Latin (and common names in brackets) are given.

Age:

- **Y - Young** - Usually less than 10 years' old
- **SM - Semi-mature** - Significant future growth to be expected, both in height and crown spread (typically below 30% of life expectancy)
- **EM - Early-mature** - Full height almost attained. Significant growth may be expected in terms of crown spread (typically 30-60% of life expectancy)
- **M - Mature** - Full height attained. Crown spread will increase but growth increments will be slight (typically 60% or more of life expectancy)
- **V - Veteran** - A level of maturity whereby significant management may be required to keep the tree in a safe condition
- **OM – Over-mature** - As for veteran except management is not considered worthwhile

DBH (mm): Stem diameter, measured in mm, taken at 1.5m above ground level where possible.

Hgt. (m): Height: Measured from ground level to the top of the crown in metres.

Can Hgt. (m): Crown height: Measured from ground level to the lowest tips of the main crown begins in metres. Where the crown is unbalanced it is measured on the side deemed to be most relevant. This is usually the side facing the area of anticipated development.

Can N, S, E, W: - Canopy extents
Approximate radial crown spread measured to the four cardinal points (for individual trees only)

Physio cond.: Indicates the physiological condition of the tree as one of the following categories:

- **Normal** - Healthy tree with no symptoms of significant disease
- **Fair** - Tree with early signs of disease, small defects, decreased life expectancy, or evidence of less-than-average vigour for the species
- **Poor** - Significant disease present, limited life expectancy, or with very low vigour for the species and evidence of physiological stress
- **Very poor** - Tree is in advanced stages of physiological failure and is dying
- **Dead** - No leaves or signs of life

Struct cond.: Indicates the structural condition of the tree as one of the following categories:

- **Normal** - No significant structural defects noted
- **Fair** - Some structural defects noted but remedial action not required at present
- **Poor** - Significant defects noted resulting in a tree that requires regular monitoring or remedial action
- **Very poor** - Major defects noted that compromise the safety of the tree. Remedial works or tree removal is likely to be required.
- **Dead** - No leaves or signs of life

Life Exp.: The estimated number of years before the tree may require removal (<10), (10 – 20), (20 – 40), or (40+).

Ret. Cat.: - Retention category: BS5837:2012 Category where:

- **U = Trees unsuitable for retention**. Trees in such a condition that cannot realistically be retained as living trees in the context of the current land use for longer than 10 years. These trees are shown on the tree plans with red centres.

- **A = Trees of high quality**. Trees of high quality with an estimated remaining life expectancy of at least 40 years. These trees are shown on the tree plans with green centres.

- **B = Trees of moderate quality**. Trees of moderate quality with an estimated remaining life expectancy of at least 20 years. These trees are shown on the tree plans with blue centres.

- **C = Trees of low quality.** Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150mm. These trees are shown on the tree plans with grey centres.

Trees of notable quality are graded as Category A or Category B. These trees are sometimes divided further into sub-categories:

- Sub-category 1 is allocated where it has been assessed that the tree has mainly arboricultural qualities.
- Sub-category 2 is allocated where it is assessed that the tree has mainly landscape qualities.
- Subcategory 3 is allocated where it is assessed that the tree has mainly cultural qualities, including conservation.

Trees may be allocated more than one sub-category. All sub-categories carry equal weight, with for example an A3 tree being of the same importance and priority as an A1 tree.

Comments: Tree form and pruning history are also recorded along with an account of any significant defects.

Rec's - Recommendations: Usually based on any defects observed and intended to ensure that the tree is in an acceptable condition.

Appendix 4 – Specifications for tree protective measures

Demolition of existing buildings

Any existing structures to be removed, that are within or close to the RPAs of retained trees, shall be demolished using the 'top-down, pull-back' method. This shall proceed in a manner pulling the structure back into itself, working away from all retained / third-party trees.

Any machinery used during the demolition and clearance of existing buildings must work from a position outside of the RPAs of retained trees and/or be positioned on suitable ground protection. The machinery used shall be as small as practicable.

To avoid unnecessary root disruption, the foundations of all demolished buildings (where within in the RPAs of retained trees) shall either be left in situ or broken up by hand (using a pneumatic drill) under arboricultural supervision (if specified).

Excavation of traditional strip foundation trenches

To minimise root disruption during excavation works, the following guidance shall be followed:

The RPA of the subject tree shall be clearly marked on the ground with fluorescent marker paint - by tying the spray can to a tree's stem using a pre-determined length of string to represent the tree's root protection radius (RPR) and keeping the string taught when spraying the ground. Cross reference the fourth column of the table in Appendix 2 (DBH mm) with the 2nd column in table 1 below to determine the length of string required.

Table 1. The RPRs given below are for single-stemmed trees.
Please contact the project arboriculturist if the subject tree is multi-stemmed.

Single stem diameter (mm)	Radius of nominal circle (m) / RPR	RPA (m^2)	Single stem diameter (mm)	Radius of nominal circle (m) / RPR	RPA (m^2)	Single stem diameter (mm)	Radius of nominal circle (m) / RPR	RPA (m^2)
75	0.9	3	475	5.7	102	875	10.5	346
100	1.2	5	500	6	113	900	10.8	366
125	1.5	7	525	6.3	125	925	11.1	387
150	1.8	10	550	6.6	137	950	11.4	408
175	2.1	14	575	6.9	149	975	11.7	430
200	2.4	18	600	7.2	163	1000	12	452
225	2.7	23	625	7.5	177	1025	12.3	475
250	3	28	650	7.8	191	1050	12.6	499
275	3.3	34	675	8.1	206	1075	12.9	523
300	3.6	41	700	8.4	222	1100	13.2	547
325	3.9	48	725	8.7	238	1125	13.5	572
350	4.2	55	750	9	254	1150	13.8	598
375	4.5	64	775	9.3	272	1175	14.1	624
400	4.8	72	800	9.6	289	1200	14.4	651
425	5.1	82	825	9.9	308	1225	14.7	679
450	5.4	92	850	10.2	327	1250	15	707

To ensure the roots are cut as cleanly as possible, a hand-spade will first be used to cut along the edge of the excavation - to a depth of at least 300mm (spade depth).

Having cleanly severed any roots growing within the upper soil horizons, a mini-digger can then be used to complete the excavation.

Once complete, all severed roots shall be cut cleanly back to a suitable growth point using sharp secateurs or a sharp pull saw.

The foundation trenches shall then be lined with plastic sheeting (to avoid concrete residues leaching into rooting area/s of the retained trees) and back-filled with concrete.

Gravel Grid parking system (FOR REFERENCE)

Working off suitable ground protection, the existing hard surface shall be removed by hand / or the existing vegetation shall be treated with a suitable systemic herbicide. When the vegetation has died, the turf layer (usually about 5cm deep) will be removed (using hand tools).

Working with the new bare surface, any localised depressions will be filled in with sharp sand (not builders' sand, which has a high salt content) to create an even surface profile. The area will not be 'rolled' or consolidated in any way.

Once the even surface profile has been formed, a layer of geotextile fabric will be laid across the 'no-dig' area and the Gravel Grid (or similar) will be laid on top. In principle, this system will normally be cellular and filled with crushed stone, although the detail may vary with different products. Suitable surface finishes include washed gravel, permeable tarmac or block paviours set on a sand base.

Conventional kerb edges (set in concrete-filled trenches) are likely to result in damage to roots and should be avoided. Edge retention in RPAs must be designed to avoid any significant excavation into existing soil levels (BS 5837, 7.4.3) and there are several approaches that are fit for this purpose: Railway sleepers pinned in place or wooden boards are two options, depending on the expected loading of the surfacing. A permeable soil fill can then be used to batter the grade back down to the existing soil level.

Photo 1 An example of a gravel grid driveway under construction

Photo. An example of a finished Gravel Grid system

Ground Protection

The following *italicised* text is based on an extract from British Standard 5837:2012 - Trees in relation to design, demolition and construction– Recommendations.

Temporary ground protection should be able to support any traffic entering or using the site without being distorted or causing compaction of underlying soil and might comprise one of the following:

a) for pedestrian-movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geotextile membrane;

b) for pedestrian-operated plant up to a gross weight of 2 t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geotextile membrane;

c) for wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary systems or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

The location of the temporary ground protection is shown on the tree protection plan and detailed within the arboricultural method statement.

In all cases, the objective will be to avoid the unnecessary compaction of soil (which can arise from a single passage of a heavy vehicle, especially in wet conditions) so that tree root functions remain unimpaired.

All ground protection is to be maintained in good order, so it is fit for purpose throughout development. The ground protection will not be altered in any way, or prematurely removed without prior consent of the project arboriculturist or the LPA arboricultural officer.

Figure 1: An example of ground protection on work areas within a RPA (BS 5837:2005).

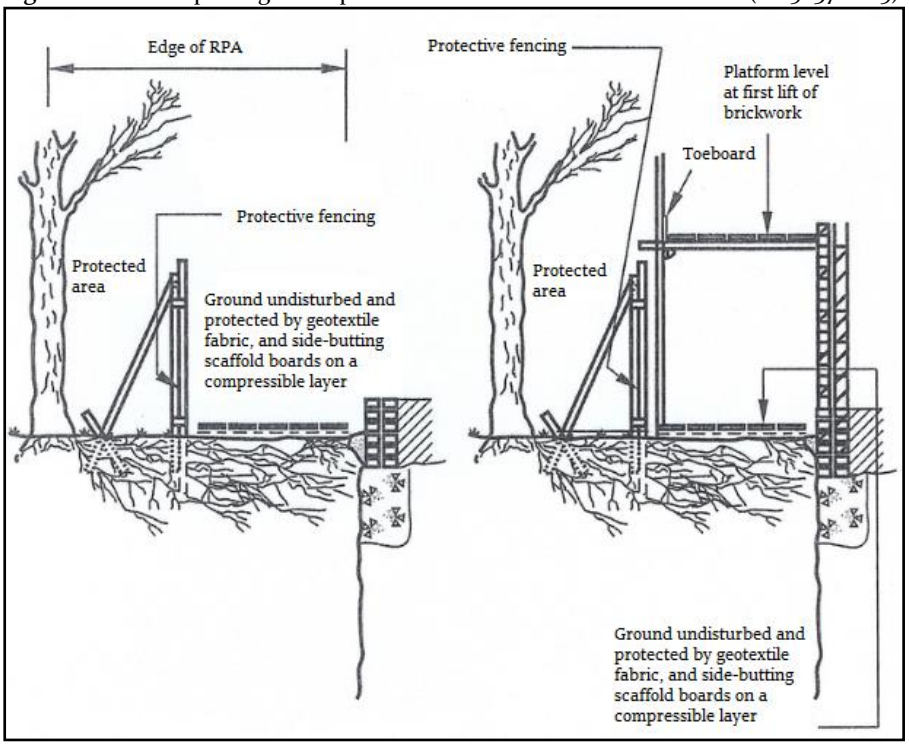
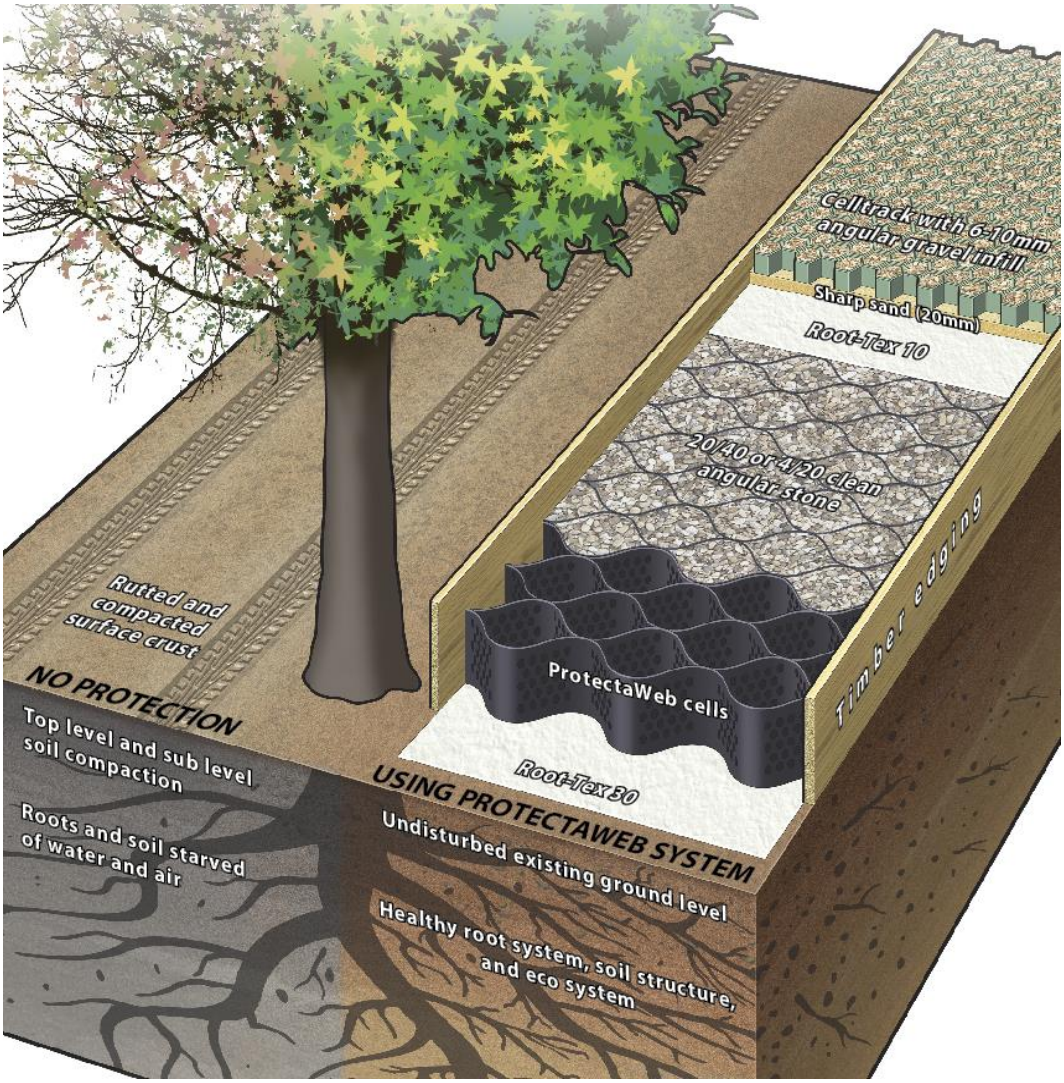


Photo 2. An example of heavy-duty ground protection.

No-dig surface installations (FOR REFERENCE)

The no-dig construction principles are outlined below and the areas to which they apply are shown on the TPP (shaded with orange honeycomb). A useful example diagram (by Protectoweb) is shown below (Figure 4).

Figure 4: A good example of the principles of a no-dig surface.



The surface vegetation will be treated with a suitable systemic herbicide and then removed by hand.

Any localised depressions will be filled in with sharp sand (not builders' sand, which has a high salt content) to create an even surface profile. The area will not be 'rolled' or consolidated in any way.

Timber edging boards (or similar) will be installed along the perimeter of the no-dig area. The fixing posts and pegs for the edging boards will be located carefully to avoid damaging to tree roots.

A layer of geotextile fabric will be laid across the 'no-dig' area, overlapping adjacent rolls by a minimum of 150mm (it may be necessary to lightly pin the geotextile in place until the overlying layers are installed).

The 3D Cellular Confinement System (3DCCS) will be opened, laid and pinned in place between the edging boards (it may be necessary to cut it to size using a sharp knife, or it can be left uncut and folded up against the edgings if preferred).

The system is available in various depths for varying loadings, but each site should have a specific design detailed to ensure the correct depth of product is used. Unless the existing ground conditions are very soft then the following can apply:

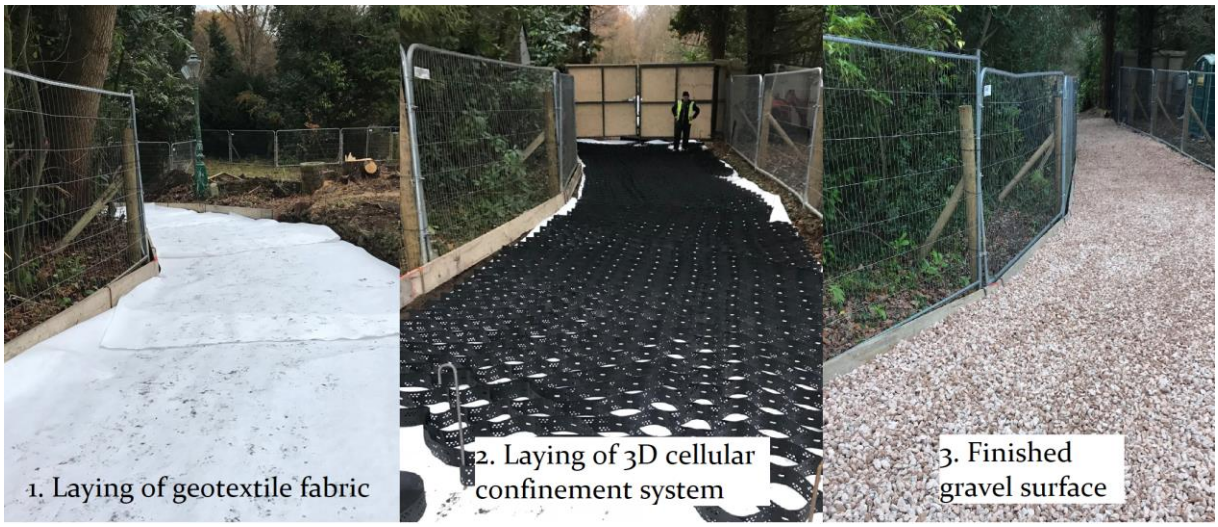
- **50mm deep for Pedestrians and Cycleways, non-vehicular traffic**
- **75mm deep for Pedestrians, Cycleways and vehicles (up to 1.5 tons)**
- **100mm deep for Cars, 4 x Wheel Drives, Vans etc. (up to 6 tons)**
- **150mm deep for Fire Trucks, Removal Vehicles and Dust Carts (up to 20 tons)**
- **200mm deep for construction vehicles, cranes etc. (40 tons and above)**

The 3DCCS will be pinned in place using steel fixing pins to keep it open and fully expanded position whilst the cells are being filled and to stop the structure from being pushed up by migrating aggregate during the filling process. The fixing pins will be driven in so that they are just touching the top of the cells but do not compress the fabric.

The 3DCCS will be filled with clean, open-graded angular aggregate, normally in the particle size range of 5mm - 45mm, working toward the tree(s) from the furthest point away and using the filled sections as a platform.

A light vibratory compaction plate (whacker) will be used to settle the stone into the cells and the permeable surface will then be installed on top of the filled, cellular confinement system.
If the proportion of RPA covered by a no-dig surface is greater than 20%, the wearing surface must be permeable.

Photo 3: Three stages of a 'no-dig' driveway under construction.



Permeable Block Paving (FOR REFERENCE)

Working off suitable ground protection, existing hard surfaces shall be removed by hand / or existing vegetation shall be treated with a suitable systemic herbicide. When the vegetation has died, the turf layer (usually about 5cm deep) will be removed (using hand tools).

Working with the new bare surface, any localised depressions will be filled in with sharp sand (not builders' sand, which has a high salt content) to create an even surface profile. The area will not be 'rolled' or consolidated in any way.

Once the even surface profile has been formed, a layer of geotextile fabric will be laid across the 'no-dig' area and the block paving will be laid - set on a sand base.

Conventional kerb edges (set in concrete-filled trenches) are likely to result in damage to roots and should be avoided. Edge retention in RPAs must be designed to avoid any significant excavation into existing soil levels (BS 5837, 7.4.3) and there are several approaches that are fit for this purpose: Railway sleepers pinned in place or wooden boards are two options, depending on the expected loading of the surfacing. A permeable soil fill can then be used to batter the grade back down to the existing soil level.

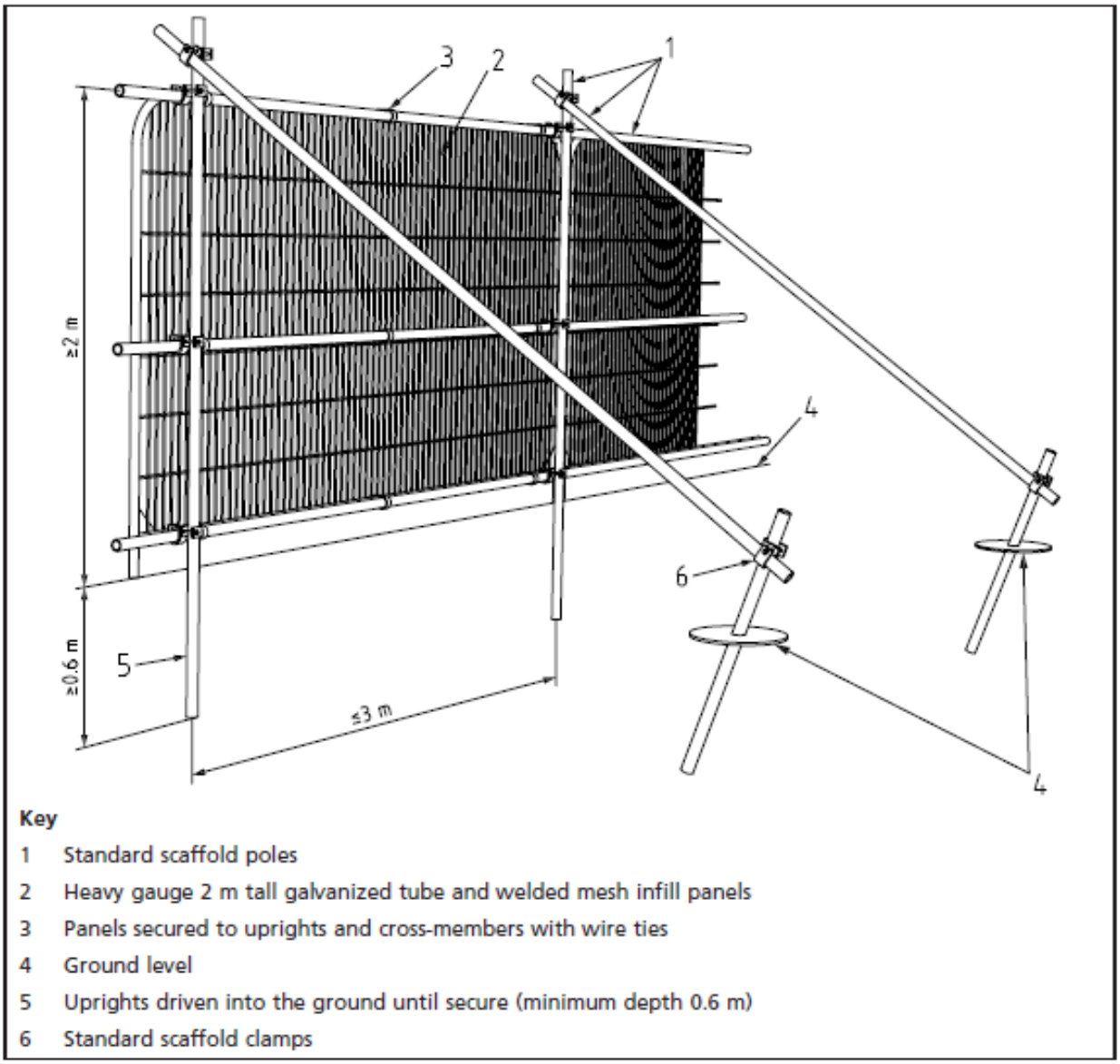
Photo: An example of a finished permeable block paved driveway

Protective fencing

The following is based on an extract from British Standard 5837:2012 - Trees in relation to design, demolition and construction– Recommendations.

The framework support (shown in Figure 2 and photo 1) is the usual method of support for 'Heras' fencing. Some variations are possible if site conditions are appropriate; i.e. support by wooden posts (75mm x 75mm x 2.75m) dug or concreted into the ground (dry mix concrete contained within a plastic bag), or if there is no pressure for access, a lighter form of netting on stakes.

Figure 2: Default specification for protective barrier (BS 5837:2012)



Key

1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps

Photo 1: A worked example of the default specification for protective barrier (BS 837:2012)

Durable, all-weather signs are to be attached to the fencing (an example sign is provided below). These shall be printed, laminated and attached at regular intervals along the fencing.

Once erected, the protective fencing is to be regarded as sacrosanct and there is to be no access into the area protected by it - the construction exclusion zone (CEZ).

The protective fencing is to be maintained in good order, so it is fit for purpose throughout the construction process. The fencing will not be altered in any way, or prematurely removed without prior consent of the project arboriculturist and/or (if necessary) the LPA arboricultural officer.

Where specified in the AMS, the tree(s) stem/s shall be boxed off with wooden ply boards or wrapped in hessian and chestnut pale fencing / trunk protection (see example below). This will help avoid any direct damage to tree stems from passing machinery (see photo 2).

Photo 2: Trees protected by hessian & chestnut pale fencing / limbs protected by wooden boxing

Photo 2. https://greengridsystems.com/products/trunk-protecta

TREE PROTECTION FENCING

KEEP OUT

This fencing must not be removed

or altered in any way without prior consultation with the project arboriculturist!

Please report any damage to trees and/or fencing to the site manager or the project arboriculturist

Trevor Heaps

07957 763 53

Raised decking

Working from on top of suitable hard surfaces or ground protection, excavate (using hand tools) the post holes for the wooden decking support frame.

Line holes with plastic sheeting prior to fitting posts and back-filling with concrete.

Construct wooden decking support frame.

Lay deck boards at least 5mm apart (in order to allow rain water reach the soil below).

Removal of existing hard surfaces / rubble

Working off either an existing hard surface or suitable ground protection, machinery can be used to carefully peel back and remove existing tarmac or concrete. Other surfaces, such as rubble or block paving, must be removed by hand.

Sub-bases can be removed mechanically if it is unlikely that roots will be found beneath it (this must be approved by the arboricultural consultant). Underlying (soft) ground levels must be retained and will not be excavated.

All newly exposed soil and exposed roots will be covered with damp hessian or 100 mm of topsoil.

Machinery can be used to move the topsoil close to the exposed area, but the topsoil itself will be spread by hand.

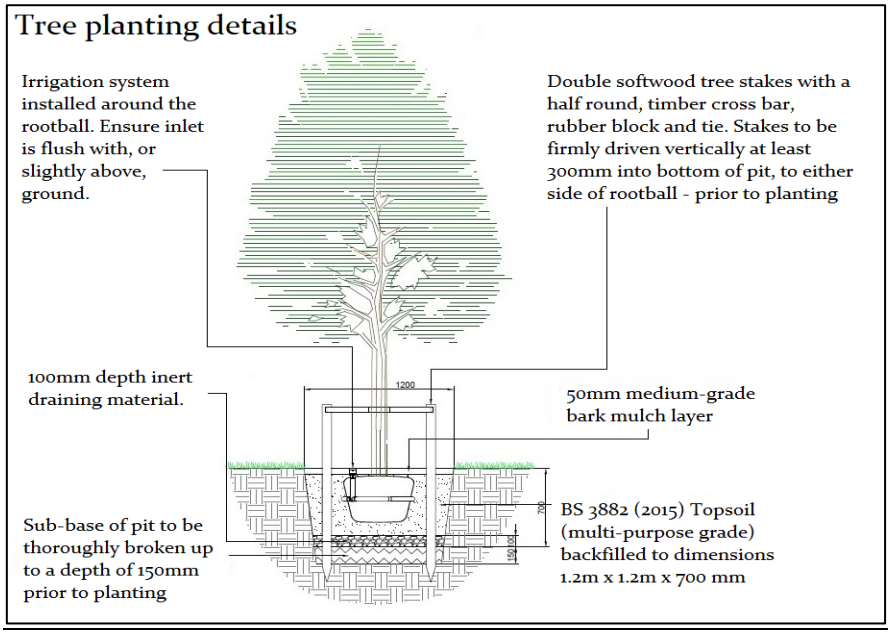
Machinery will not be sited on any exposed rooting area / RPA.

Soft landscaping within or close to the Root Protection Areas (RPAs) of retained trees

The following precautions are necessary to avoid damage to trees (where activities are to take place within their RPAs):

- Ground levels will not be changed;
- Soil must be of good quality and free of contaminants and other foreign objects potentially injurious to tree roots. The topsoil must satisfy the requirements of BS3882:200;
- No heavy machinery will be operated within the RPAs of retained trees during the installation of soft landscaping;
- Unwanted vegetation shall be removed manually or by using systemic herbicide that will not damage tree roots;
- No fuels or chemicals shall be used or stored within these areas; and
- No irrigation or drainage pipes shall be installed within the RPAs

Tree planting



All tree planting operations shall be carried out in accordance with BS 8545:2014 Trees: from nursery to independence in the landscape Recommendations.

All planting stock shall comply with the requirements of BS 3936 and shall be healthy, strong with a good shape and strong root system (in accordance with the national plant specification). All native plants shall be of local provenance and be well-labelled as such.

Trees shall only be lifted from the ground between October and March and be handled and transported in accordance with the relevant codes of practice, with the roots kept moist and wrapped (in hessian for example) to protect them from adverse weather conditions.

All new trees are to be maintained until established. A 1 metre diameter area surrounding the tree will be kept free from grass, weeds and rubbish at all times. Mulched areas will be topped up as necessary to maintain 75mm depth.

Newly-planted trees are to be watered during April to September. The intervals between watering is to be fortnightly with additional visits if there has been no rainfall within a weekly period. If needed. watering bags will be filled with 90 Litres of water (for slow release) per visit. Any depressed or panned-down areas will be lightly forked.

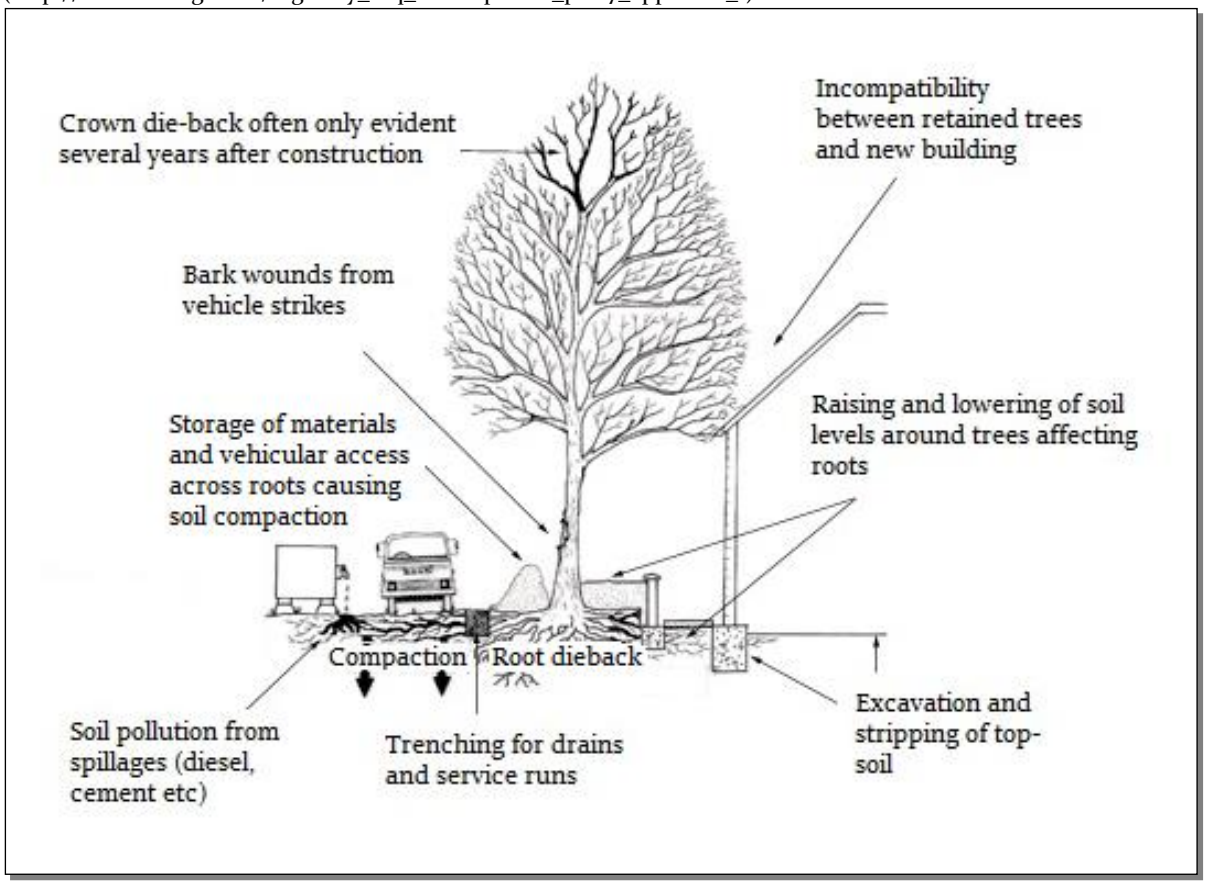
Each tree will be checked to make sure it is healthy before planting. All dead, damaged, crossing or diseased branches will be removed. Any arising suckers will be removed from the clear stem. Any wounds shall be neatly pared back to sound wood in accordance with BS 3998. Trees which have been loosened by the wind or frost shall be re-firmed.

Each stake and tie will be checked and adjusted, re-fixed or renewed as necessary to ensure that no damage occurs to any tree and that each tree is being supporting in the intended manner. All stakes and ties will be removed after two years / or after trees have rooted successfully.

Any tree or plant that fails to thrive or is below specification within a five-year period shall be replaced.

Appendix 5 – General precautions and further information

Figure 4: Common problems for trees on development sites
(http://www.leics.gov.uk/highway_req_development_part7_appendix_f)



5.1 Services and drainage: Surface run-off water shall be sent to existing drains and/or soakaways located outside the RPAs of retained tree(s). If trenching is required within the RPA of retained trees to provide routes for services, this work shall be undertaken using mole boring and / or hand digging (under arboricultural supervision).

5.2 Storage of materials: No materials or spoil are to be stored within areas protected by protective fencing and/or ground protection. The same applies for existing hard surfaces that are being used as ground protection.

5.3 Spillages: If any cement residues fall within root protection areas, it shall be swept up, bagged and removed from site – it shall not be washed away with water.

5.4 Demolition: Where any existing structures are to be demolished, they will be done so inwardly (away from root protection areas / retained soil).

5.5 Levels: There is to be no alteration of ground levels within the area protected by protective fencing and/or ground protection, unless previously specified and agreed upon. The same applies for existing hard surfaces that are being used as ground protection.

5.6 Fires: No fires are to be lit within 20 metres of the stems of retained trees.

5.7 Above ground damage to trees: Care must be taken in planning the location and operation of machinery to avoid above ground damage to trees. BS5837 (2012) Section 6.2.4.1 states '*Planning of site operations should take sufficient account of wide loads, tall loads and plant with booms, jibs and counterweights (including drilling rigs) in order that they can operate without contacting retained trees. Such contact can result in serious damage to trees and might make their safe retention impossible. Consequently, any transit or traverse of plant in proximity to trees should be conducted under the supervision of a banksman, to ensure that adequate clearance of trees is always maintained. Access facilitation pruning should be undertaken where necessary to maintain this clearance.*

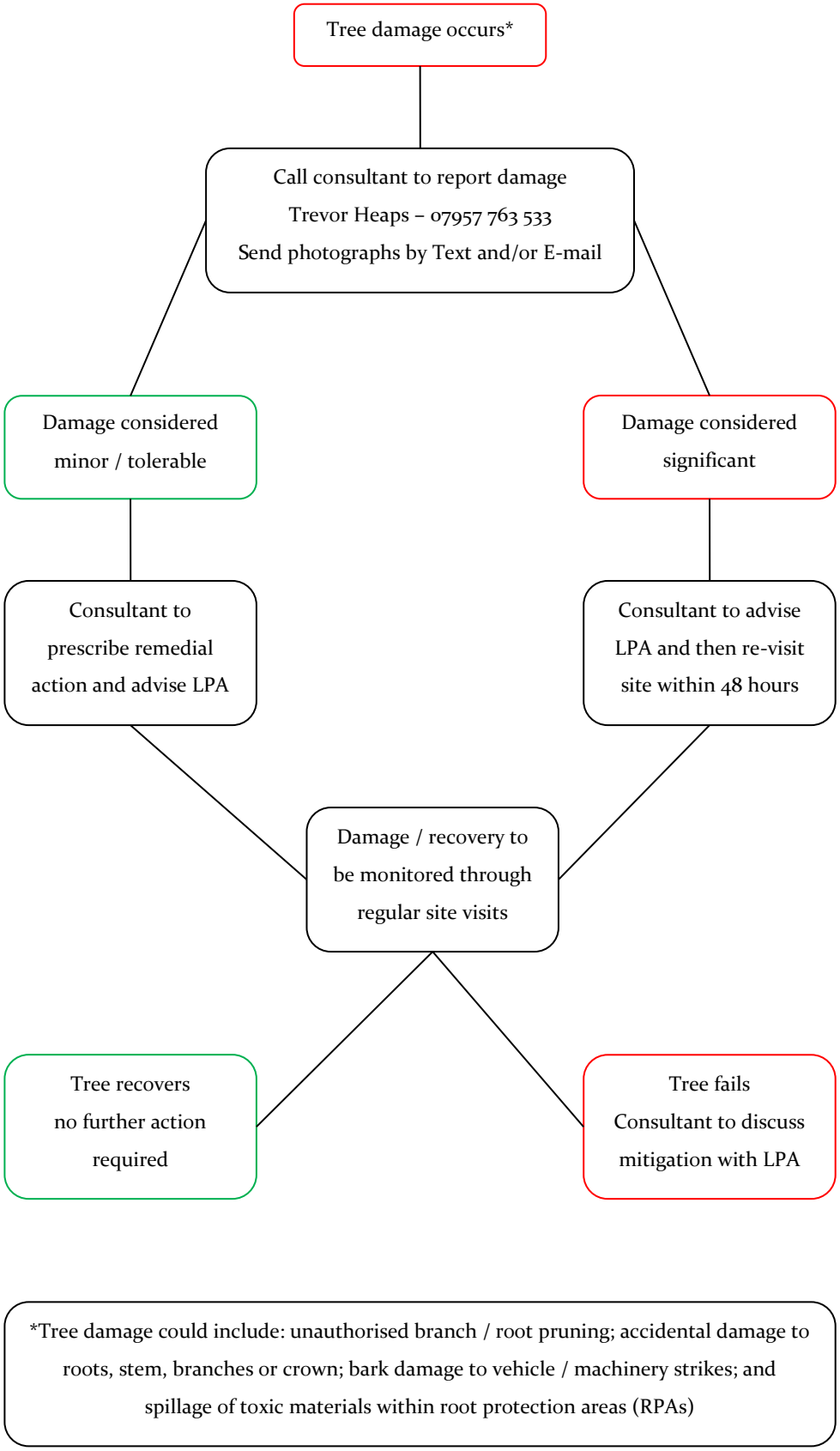
5.8 Remedial works and soil improvement: Exposed soils are easily compacted resulting in loss of water and gaseous exchange; this can lead to root death (and subsequently tree death).

5.8.1 To relieve ground compaction, which may have resulted from the use of vehicles or by the storage of materials, the soils should be broken up to allow air to penetrate and for the soil structure to be restored. There are various methods to achieve this, such as: auguring the soil by hand / fork or pneumatic excavation (e.g. with an air spade); both should be combined with soil structure improvements (see 5.8.2).

5.8.2 The soil structure can be improved by incorporating a compost or mulch within the topsoil, of 75-100mm in depth. This can be spread over the surface and gently forked into the soil. If bark chip is used as mulch, NPK fertilizer should be added to counteract the nitrogen depletion of the soil. There is also the option of adding mycorrhizal fungal which may also improve root function.

5.9 Choosing an arborist: When appointing a tree works contractor, please only use properly qualified and experienced companies who comply with current British Standards (3998) and always check that they carry Public Liability Insurance within a minimum of £2,000,000 cover, and the relevant Employers Liability Insurance. A list of contractors approved by the Arboricultural Association can be found at www.trees.org.uk or by calling 01242 522 152.

Appendix 6 - Procedure to follow in case of damage to retained trees



Appendix 7 - Induction form for all site personnel

Site name: .....

App. No.: .....

Appointed Site Supervisor: .....

- I have had explained to me by the Site Manager the key implications of the Arboricultural Method Statement relating to the development at the above site.

- I am aware that trees have shallow roots and any excavation works beneath the canopy could cause irreparable damage.

- I am aware that the tree protective fencing / ground protection must remain in its original position and must not be moved without the approval of the appointed Arboricultural Consultant.

- I understand that certain operations must be supervised by the appointed Arboricultural Consultant and that these must not start until the consultant is present and has given approval.

- I confirm that I will bring any concerns about potential damage to trees to the attention of the Site Manager.

- I am aware that I must not cause damage to any of the retained trees on or adjacent to the site. Damage may be caused by direct means (i.e. physical damage caused to roots or the trunk/branches of the tree) or by indirect means (e.g. by fire or toxic materials entering the rooting environment of the tree).

Print Name: .....

Sign Name: .....

Date: .....

Appendix 8 - Site inspection record

Date: Time:	Planning reference:
.....	.....
Site:	
.....	

Those present in addition to project arboriculturist:

Client / Agent: .....

Project / Site manager: .....

LPA arboricultural officer: .....

Other (specify): .....

	Yes	No	Notes
Tree protection measures located in accordance with TPP?			
Any disturbance within construction exclusion zone?			
Any materials stored within construction exclusion zone?			
Any evidence of damage to tree roots, stems or canopies?			
Any works programmed before next planned site visit that may affect retained trees? (if yes, provide details below)			

Additional site visit required to ensure compliance with required action? (Y / N)

Proposed visit date:

Signed: Date:

Appendix 9: Tree Protection Plan

At this site, operations are to occur in the following sequence:

1. Carry out tree work operations highlighted yellow in the tree data schedule (Appendix 2). All tree works are to be carried out by a competent and experienced arborist to current British Standards (see Appendix 5.9 for assistance finding a suitable arborist).

2. Erect protective fencing along the position(s) shown by the dashed red line/s on the TPP.

3. Lay heavy-duty ground protection within the area(s) shown by the diagonal blue lines AND within the area(s) shown by the orange honeycombing on the TPP.

4. Hold pre-commencement site meeting with project arboriculturist, building contractor and arboricultural officer. Meeting will include carrying out a 'toolbox talk' to raise awareness about the need for tree protection and to check (and remedy) the recommended tree protective measures. The contractor will be required to read and sign the induction form (see Appendix 7).

5. Demolish existing dwelling.

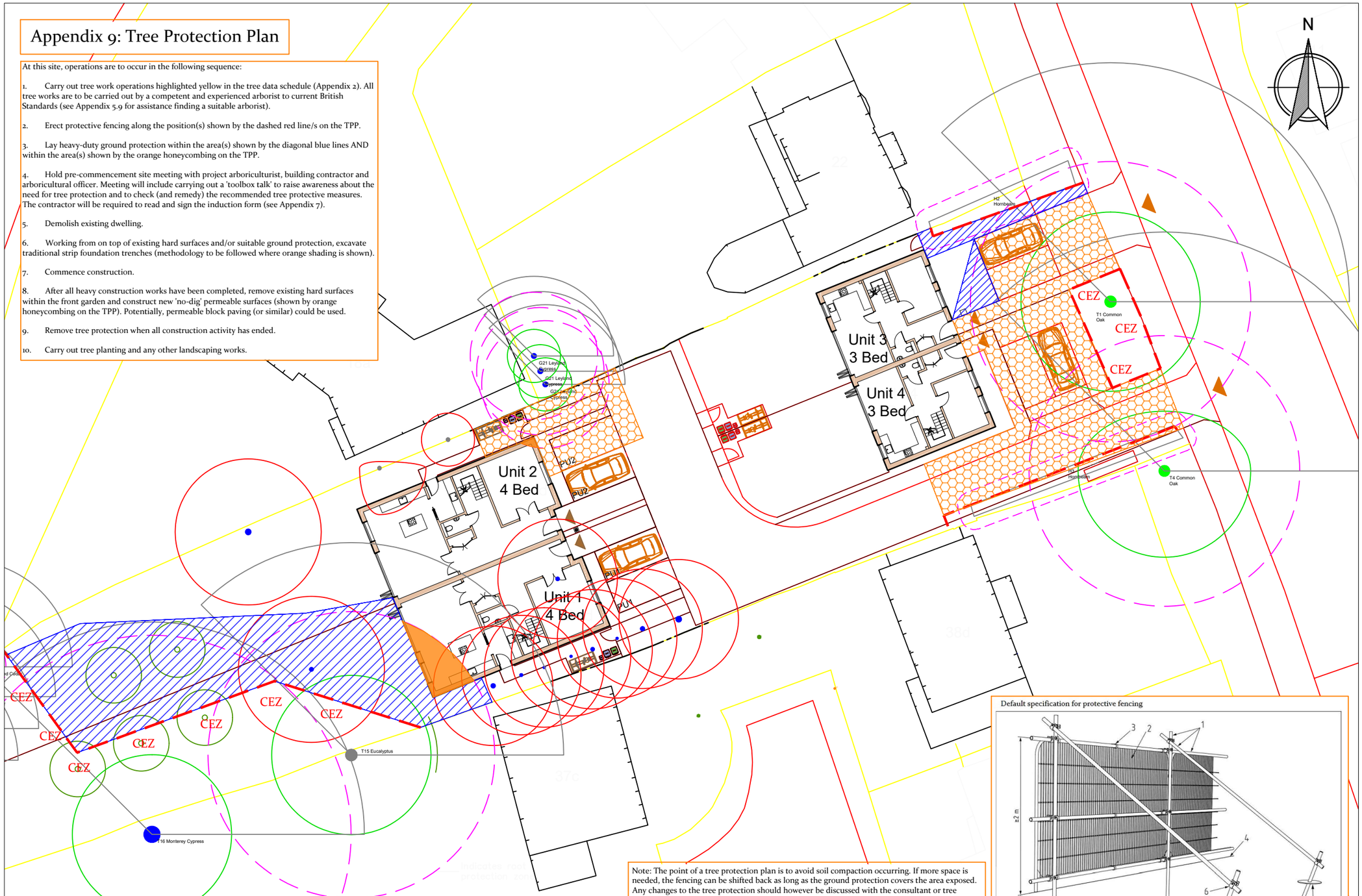
6. Working from on top of existing hard surfaces and/or suitable ground protection, excavate traditional strip foundation trenches (methodology to be followed where orange shading is shown).

7. Commence construction.

8. After all heavy construction works have been completed, remove existing hard surfaces within the front garden and construct new 'no-dig' permeable surfaces (shown by orange honeycombing on the TPP). Potentially, permeable block paving (or similar) could be used.

9. Remove tree protection when all construction activity has ended.

10. Carry out tree planting and any other landscaping works.



Plan Legend

- Tree/s to be retained
- Tree/s to be removed
- Centre colours
- Category A Tree
- Category B Tree
- Category C Tree
- Category U Tree
- Root Protection Area (RPA) If amended, the original is a dotted blue circle
- RPA Incursion. Extra care to be taken during excavations (see supporting report)
- Protective fencing
- CEZ — Construction & storage exclusion zone
- Heavy duty ground protection
- Heavy duty ground protection laid onto existing hard surfaces during construction. 'No-dig', permeable surface afterwards

Scale: 1:300 @ A3 (0 — 6m — 12m)

Site Address: 24 Ducks Hill Road Northwood, HA6 2NR

Client: YNS Properties Ltd.
Drawing No: TH/A3/4948B/TPP

Job Ref: TH4948B | Date: 31/01/2025

Trevor Heaps
Arboricultural Consultancy Ltd

07957 763 533
trevor@trevorheaps.co.uk
www.trevorheaps.co.uk

Note: The point of a tree protection plan is to avoid soil compaction occurring. If more space is needed, the fencing can be shifted back as long as the ground protection covers the area exposed. Any changes to the tree protection should however be discussed with the consultant or tree officer.

Temporary ground protection should be able to support any traffic entering or using the site without being distorted or causing compaction of underlying soil and might comprise one of the following:

1. For pedestrian-movements only, a single thickness of scaffold boards placed either on top of a driven scaffold frame, to form a suspended walkway, or on top of a compression-resistant layer (e.g. 100 mm depth of woodchip), laid onto a geotextile membrane;

2. For pedestrian-operated plant up to a gross weight of 2 t, proprietary, inter-linked ground protection boards placed on top of a compression-resistant layer (e.g. 150 mm depth of woodchip), laid onto a geotextile membrane;

3. For wheeled or tracked construction traffic exceeding 2 t gross weight, an alternative system (e.g. proprietary systems or pre-cast reinforced concrete slabs) to an engineering specification designed in conjunction with arboricultural advice, to accommodate the likely loading to which it will be subjected.

NOTE: If ground protection is to be laid near areas to be excavated, sheet piling should be used to shore up the sides of the excavations prior to being used (by pedestrians or machinery)

Default specification for protective fencing

Key
1 Standard scaffold poles
2 Heavy gauge 2 m tall galvanized tube and welded mesh infill panels
3 Panels secured to uprights and cross-members with wire ties
4 Ground level
5 Uprights driven into the ground until secure (minimum depth 0.6 m)
6 Standard scaffold clamps

NOTE: It might be possible to move the protective fencing slightly to provide more working / storage / office space, but this will need to be confirmed with the arboricultural consultant first. IF agreeable, suitable ground protection (details provided in the appendices) will need to be laid over the exposed RPAs.

End of Report