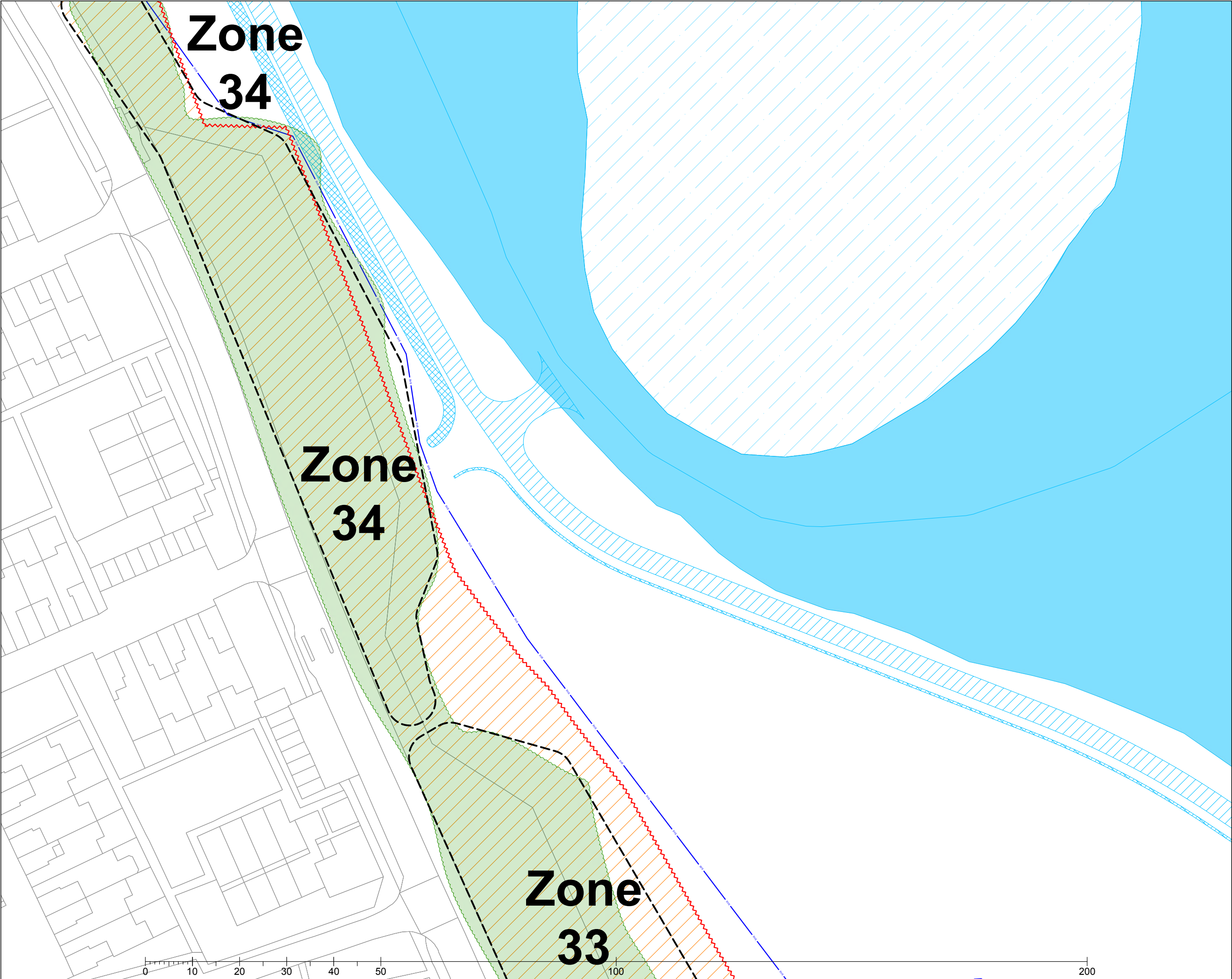
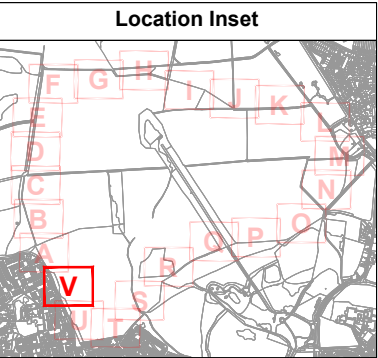




- Key**
- Indicative collective crown spreads
 - Root protection area
 - Proposed embankments
 - Future flooded extent of reservoir
 - Proposed tracks, roads and paths
 - Proposed swales
 - Indicative line of proposed underground services
 - Phase 5 bi-directional pipeline
 - Existing secure Heras site fencing
 - Sections of secure Heras to remove for construction
 - New braced Heras fencing (see AGS101)
 - Construction exclusion zone



Drawing Title:
Tree Protection Plan - Inset V

Location:
**Havant Thicket
 Hampshire**

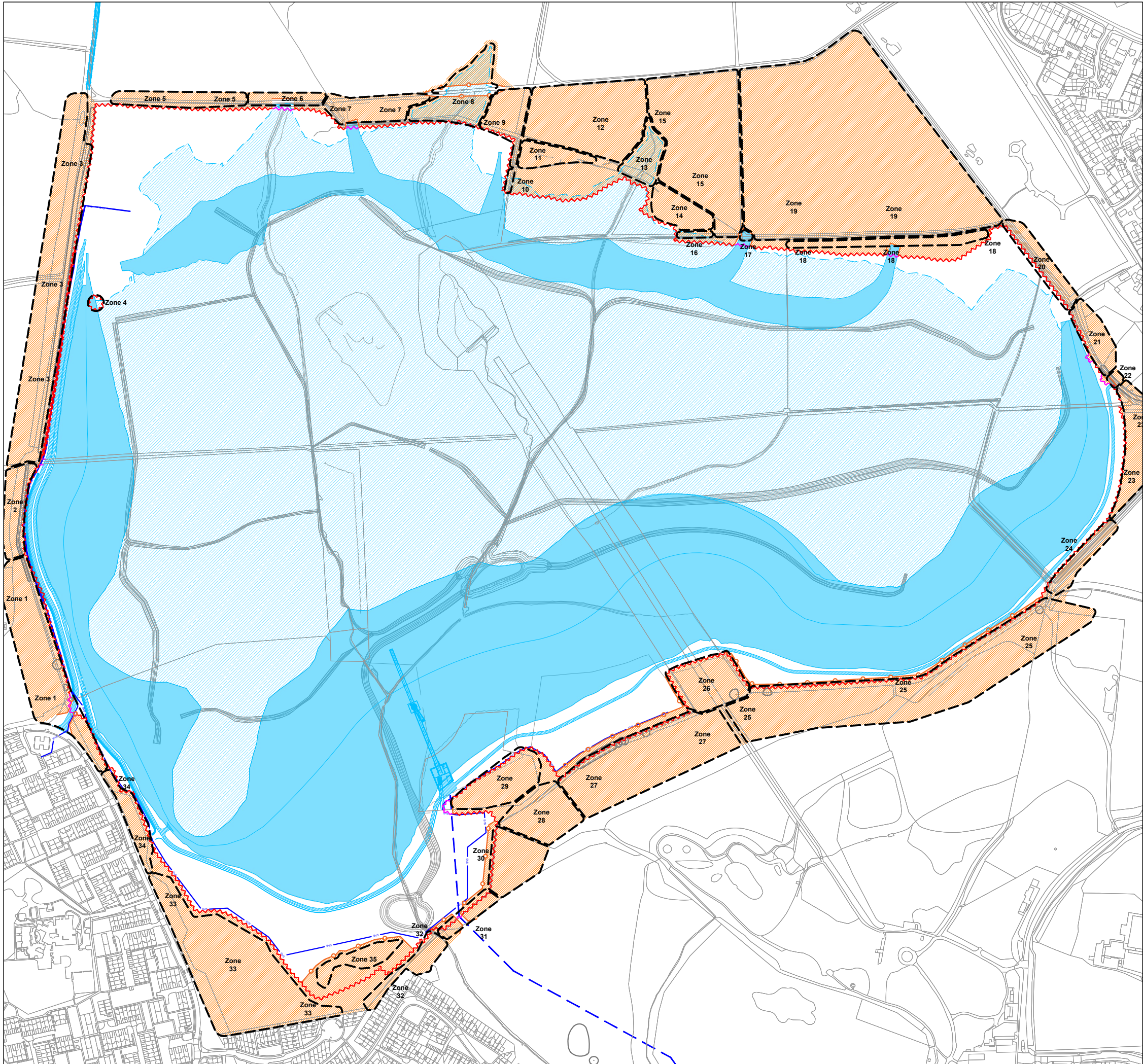
Date: 02.02.2024	Project Reference: TH/B352/1023	Revision: 1.4
Scale: 1:750	Paper Size: A3	Drawn By: TH

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

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 locally prior to commencement of working in any given zone. Tree works to be undertaken in accordance with British Standard 3998:2010.
4. Changes to protective fencing configurations to be undertaken prior to the commencement of any given phase of working in a particular zone. New fencing to be installed as per the specification detailed within Arboricultural Guidance Sheet AGS101 unless otherwise agreed.
5. Arboricultural supervisor to undertake inspections at key trigger points (see Arboricultural Supervision Inspection Record) along with programmed scheduled inspections for the duration of construction to ensure that there is no damage to retained trees and that the protective fencing is intact. Ad hoc inspections may also be undertaken 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.
6. 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.
7. Fencing to be dismantled only on completion of all construction works and to allow for soft landscaping.
8. 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: _____

Document reviewed? ☐ Yes ☐ No

Issues raised? ☐ Yes ☐ No

Revised document required? ☐ Yes ☐ No

Drawing Title:
Arboricultural Method Statement Plan

Location:
Havant Thicket
Hampshire

Date: 02.02.2024 Project Reference: TH/B352/1023 Revision: 1.4

Scale: 1:6,000 Paper Size: A3 Drawn By: TH

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

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: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ Company: _____ Date: _____
Full Name: _____ Signature: _____ Company: _____ Date: _____	Full Name: _____ Signature: _____ 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:

Havant Thicket
Hampshire

Date:	Project Reference:	Revision:
02.02.2024	TH/B352/1023	1.4
Scale:	Paper Size:	Drawn By:
1:750	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

Programmed Inspections

Document Review The Tree Protection Plan and 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 they are fit for purpose. Site Manager: _____ Arb Supervisor: _____ Date: _____ Document reviewed? ☐ Yes ☐ No Issues raised? ☐ ☐ Revised document required? ☐ ☐	Programmed Inspection Date: _____ Inspector: _____ Tree issues? ☐ Yes ☐ No Fencing issues? ☐ ☐ Exception Report required? ☐ ☐	Programmed Inspection Date: _____ Inspector: _____ Tree issues? ☐ Yes ☐ No Fencing issues? ☐ ☐ Exception Report required? ☐ ☐	Programmed Inspection Date: _____ Inspector: _____ Tree issues? ☐ Yes ☐ No Fencing issues? ☐ ☐ Exception Report required? ☐ ☐
Initial Tree Protection Inspection Date: _____ Inspector: _____ Tree issues? ☐ Yes ☐ No Fencing issues? ☐ ☐ Exception Report required? ☐ ☐	Programmed Inspection Date: _____ Inspector: _____ Tree issues? ☐ Yes ☐ No Fencing issues? ☐ ☐ Exception Report required? ☐ ☐	Programmed Inspection Date: _____ Inspector: _____ Tree issues? ☐ Yes ☐ No Fencing issues? ☐ ☐ Exception Report required? ☐ ☐	Programmed Inspection Date: _____ Inspector: _____ Tree issues? ☐ Yes ☐ No Fencing issues? ☐ ☐ Exception Report required? ☐ ☐
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Ad Hoc Inspections

Ad Hoc Inspection Date: _____ Inspector: _____ Summary of Reason for Inspection: _____ _____ _____ All concerns resolved? ☐ Yes ☐ No Tree issues? ☐ ☐ Fencing issues? ☐ ☐ Exception Report required? ☐ ☐	Ad Hoc Inspection Date: _____ Inspector: _____ Summary of Reason for Inspection: _____ _____ _____ All concerns resolved? ☐ Yes ☐ No Tree issues? ☐ ☐ Fencing issues? ☐ ☐ Exception Report required? ☐ ☐
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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 a schedule of inspections commenced as per the planning consent. Failure to comply with the prescribed arboricultural supervision schedule remains the responsibility of the Site Manager.
- Ad hoc inspections may be required between scheduled inspections. Reasons 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.
- 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.
- A final inspection will be required on completion of all construction works. Following this, 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.

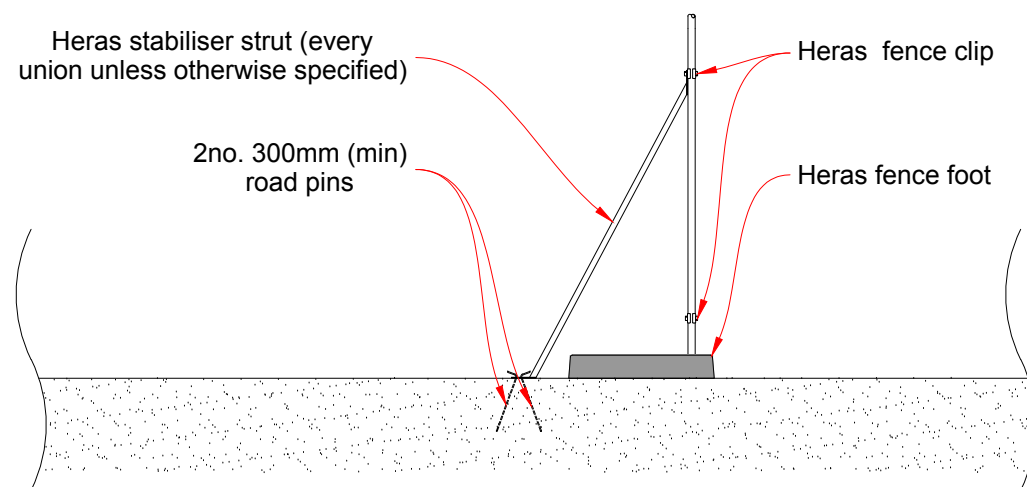
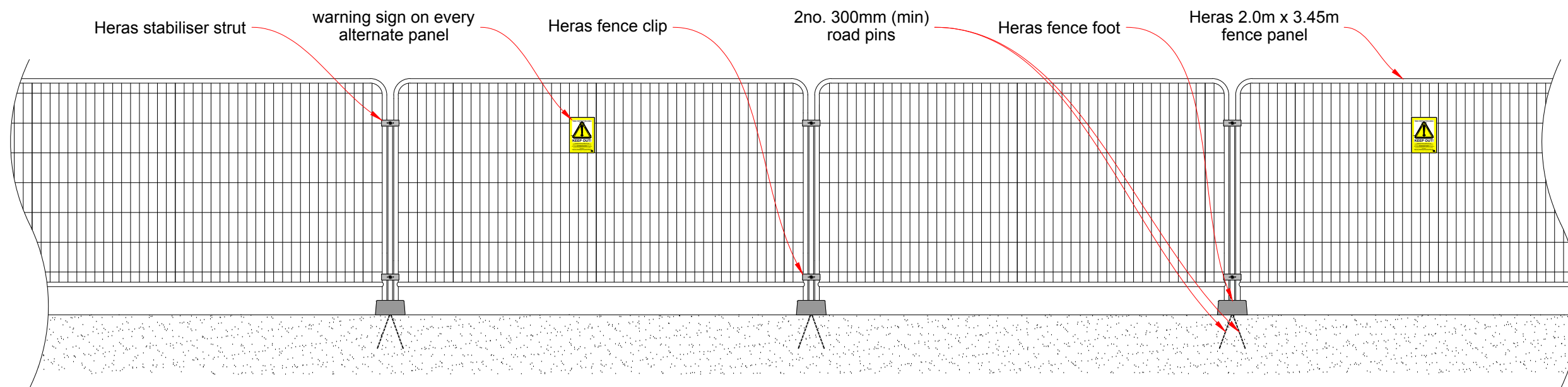
Arboricultural Supervisor
(unless otherwise instructed)
Name: Tom Hurley
Company: Advanced Arboriculture
Tel: 01395 239002
Mobile: 07967 384910
Email: th@advancedarb.com

Drawing Title:
Arboricultural Supervision Log

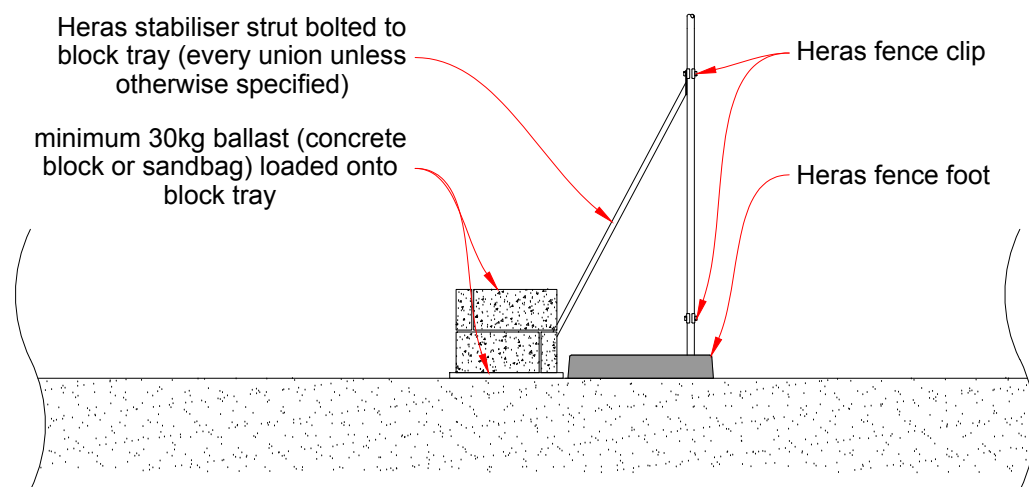
Location:
Havant Thicket Hampshire

Date:	Project Reference:	Revision:
02.02.2024	TH/B352/1023	1.4
Scale:	Paper Size:	Drawn By:
1:750	A3	TH

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



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

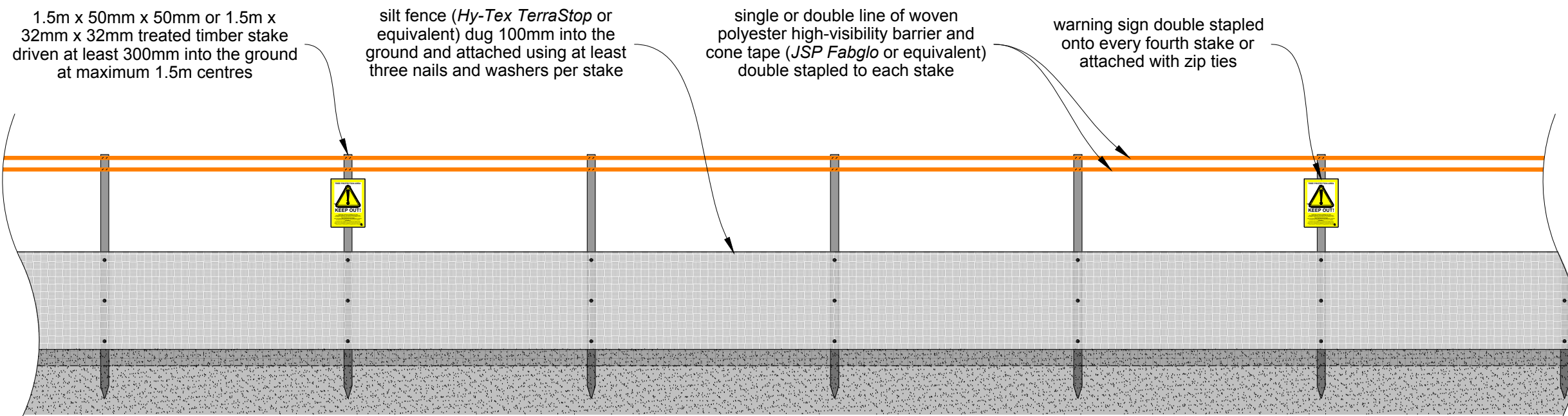
- These specifications are for guidance only.
- This fencing specification is based on the specification detailed within British Standard 5837:2012 Figure 3 but adds an additional detail for where the use of road pins is not possible.
- Stabiliser struts to be attached at every panel union unless specified 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

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



1.5m x 50mm x 50mm or 1.5m x 32mm x 32mm treated timber stake driven at least 300mm into the ground at maximum 1.5m centres

silt fence (*Hy-Tex TerraStop* or equivalent) dug 100mm into the ground and attached using at least three nails and washers per stake

single or double line of woven polyester high-visibility barrier and cone tape (*JSP Fabglo* or equivalent) double stapled to each stake

warning sign double stapled onto every fourth stake or attached with zip ties

Notes

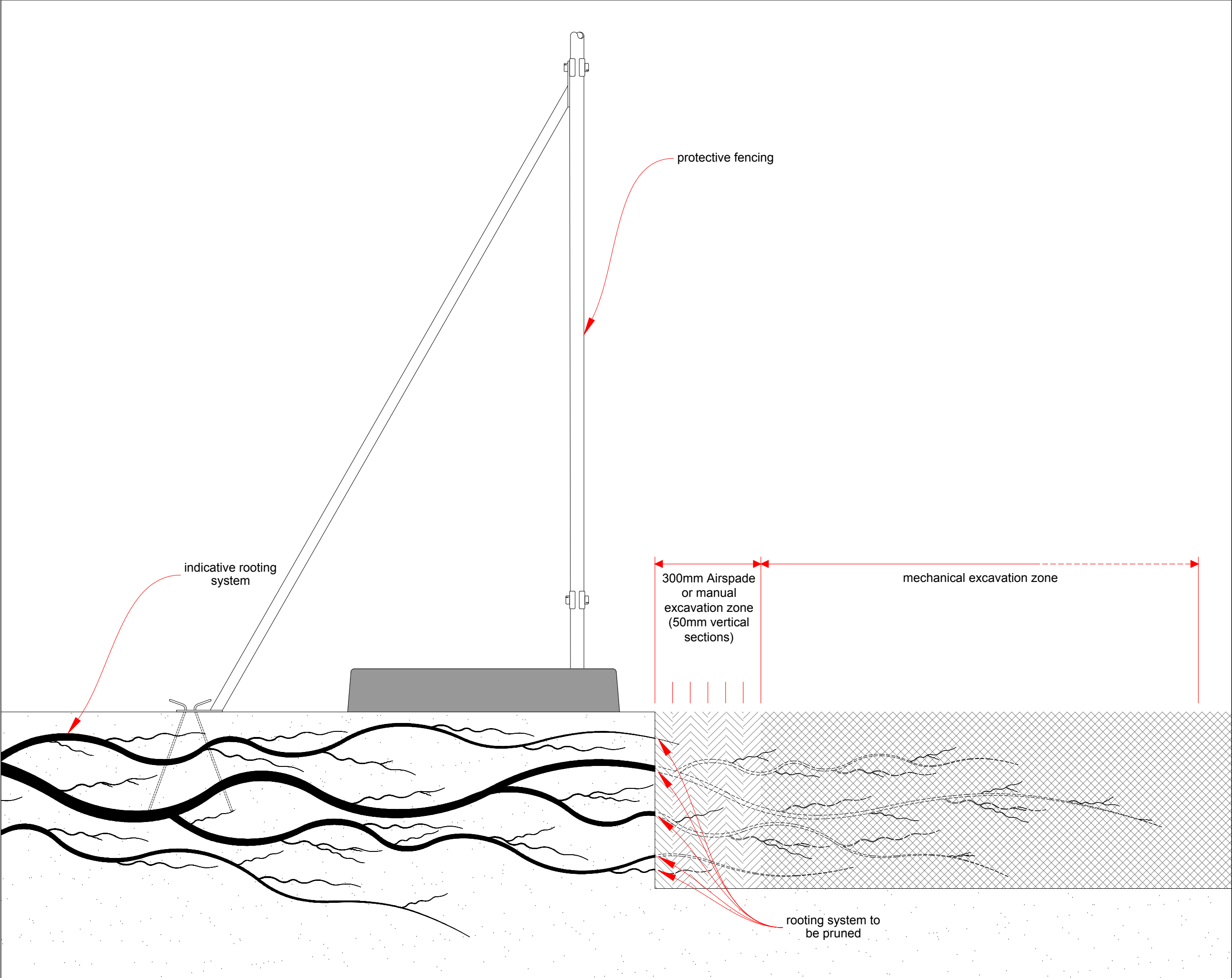
- These specifications are for guidance only.
- This specification may only be used in scenarios where a silt barrier is required and is already set on the same line or further from trees than alternative tree protection measures (for example high-visibility barrier fencing such as that detailed within Arboricultural Guidance Sheet AGS105).
- It is essential that the adoption of this alternative tree protection fencing specification be backed up by means of staff and contractor inductions, along with regular toolbox talks or equivalent.
- The silt barrier must be installed as per the manufacturer's specification.
- The high-visibility tape must be regularly checked and replaced where it has become badly tattered or broken.
- A check for underground services must be completed before driving any stakes into the ground.
- 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:

Silt Barrier Fencing With Tree Protection

Date:	Drawing Number:	Revision:
26.07.2023	AGS111	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



- 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.
 - The Arboricultural Method Statement below is to be followed for all excavation permitted within the root protection area (RPA) by a full planning consent.
 - 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.

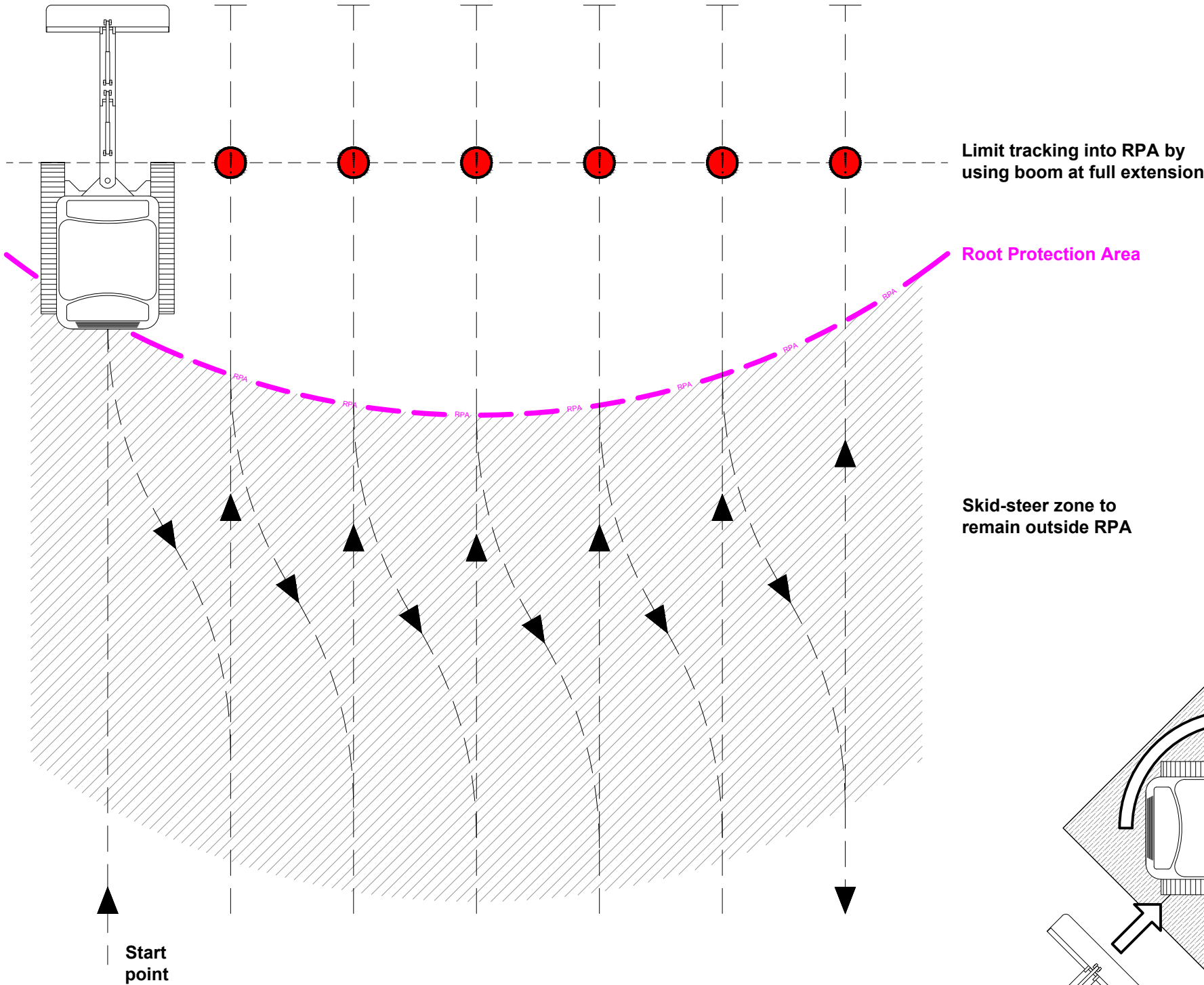
- Arboricultural Method Statement**
1. Full details of excavation to be discussed between Project Manager and Arboricultural Supervisor. Review alternative solutions to excavation and adopt where practicable (impact tunneling, re-routing, etc.)
 2. Narrowest possible bucket to be used for mechanical excavation (grading bucket to be used for final 300mm depth for trenches less than 750mm deep).
 3. Excavator to work from opposite side of trench from the RPA, cutting no closer than 300mm from final trenchline adjacent to RPA. Where this is not possible, additional ground protection measures and amended protective fencing within the RPA will be required; seek Arboricultural Supervisor's advice.
 4. Where trenches are less than 300mm width, the trench is to be created using either an Airspade or careful manual digging within the RPA. This should allow for the retention of roots in excess of 25mm diameter in services trenches where cables, ducts or pipes can be threaded beneath retained roots; these roots must be protected using foam pipe lagging for protection s soon as they are exposed.
 5. For excavations in excess of 300mm width, the final 300mm strip of excavation to be completed manually using an Airspade operated by an experienced arborist. Where soil is too wet or clay-rich for effective Airspade use, the bank must be loosened back in 50mm sections using a fork to ease back soil, taking care to minimise root scuffing and fracturing.
 6. Roots to be cut back to face of trench using sharp, clean secateurs, bypass loppers or root pruning saws.
 7. If the trench is to remain open for more than 24 hours then Hessian sacking to be secured to excavated face of trench adjacent to the RPA and immediately drenched using fresh water. Hessian sacking to be re-drenched every 24 hours during the months of March-October (inclusive) to prevent root desiccation.
 8. Hessian sacking to be removed no sooner than 24 hours prior to backfilling.

Drawing Title:
Root Pruning Within Root Protection Area

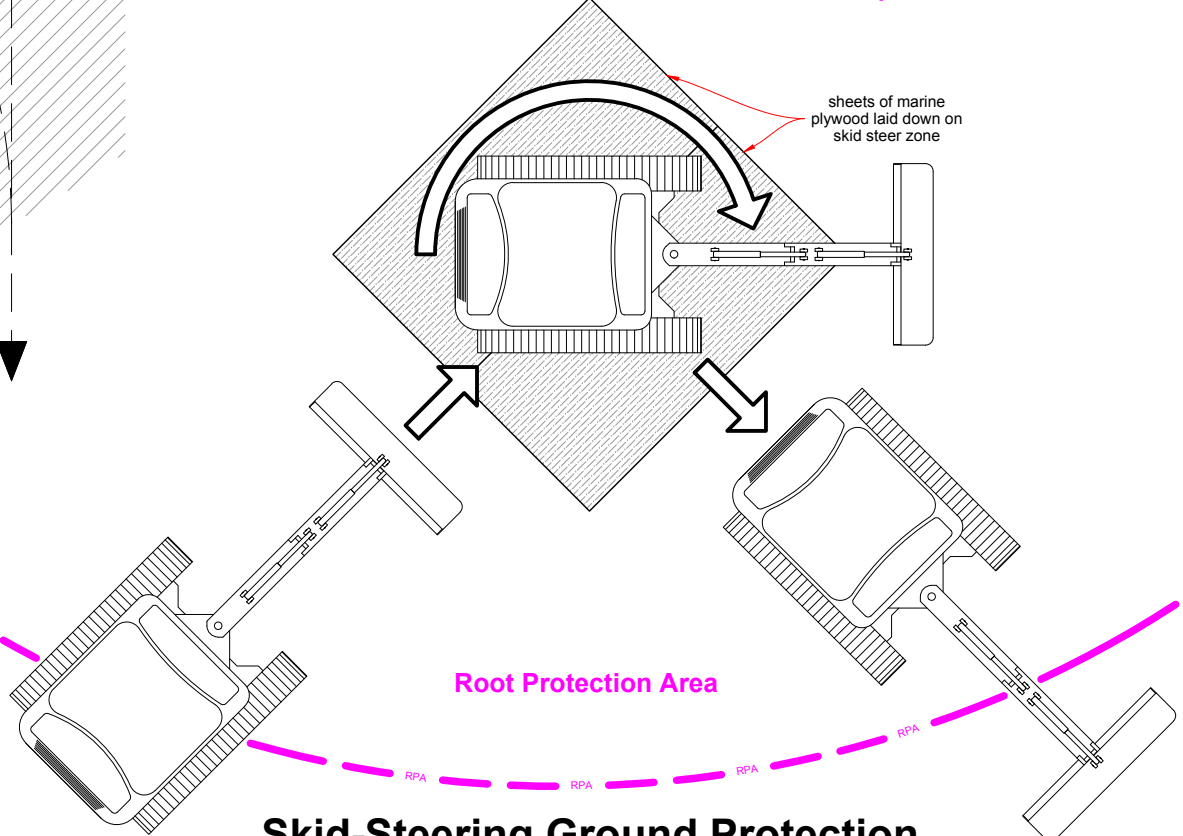
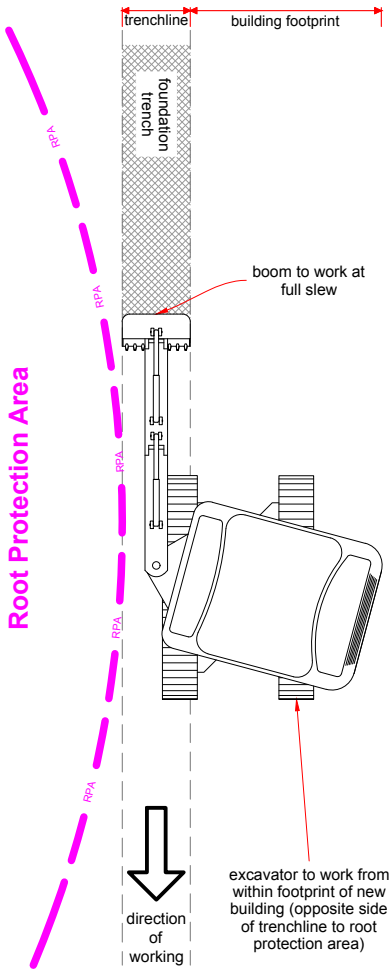
Date:	Drawing Number:	Revision:
01.02.2021	AGS403	1.0
Scale:	Paper Size:	Drawn By:
1:10	A3	TH

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

Use of Mini-Excavators Within The Root Protection Area



Excavations Adjacent to Root Protection Areas



Notes

- These specifications are for guidance only and must be reviewed by the Project Manager, Project Engineer, Project Ground Works Contractor and Arboricultural Supervisor prior to commencement of any works on site.
- The Arboricultural Method Statement below is to be followed for all excavator use within or immediately adjacent to the root protection area (RPA).
- 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.

Arboricultural Method Statement

1. Full details of excavator use to be discussed between Project Manager and Arboricultural Supervisor, including the description of works, size of machine required, bucket type, and alternative methods of working which could be considered.
2. The methods of working and traveling across RPAs also apply to the use of tracked dumpers, skid-steering wheeled vehicles (e.g. Bobcats), and excavators fitted with other heads.
3. Spillage of diesel or hydraulic oil can cause serious soil contamination so must be avoided. The exhaust must also not be allowed to discharge directly onto the foliage of trees or hedges.
4. Additional care must be taken when working within the crown spread of retained trees to prevent contact between the excavator cab or arm and tree branches above.
5. Works must be postponed during periods of moderate to seriously wet weather as this increases the severity of compaction.
6. Digging and trenching (toothed) buckets may only be used for deep trenching due to the damage that these cause when they catch roots. Ditching and grading (toothless) buckets must be used for clearance of mounded soil, shallow excavations or regrading. A banksman must be used where possible.
7. Skid-steering within the RPA to be avoided wherever possible by demarcating a skid-steer zone outside of the RPA then working in and out of the RPA in a straight line.
8. If skid-steering is unavoidable within the RPA, boards are to be laid down for the machine to turn on. This will minimise ground churn.
9. Where foundation trenches run immediately adjacent to trees' RPAs, the excavator must remain outside of the RPA by working within the footprint of the new structure on full slew. This may require additional planning and scheduling prior to the commencement of any groundworks on site.
10. Any soil or other arisings must be tipped in a location outside of the RPA of any retained trees on site.
11. In the event of any accidental damage to trees' roots, trunks or branches, contact the Arboricultural Supervisor immediately.

Drawing Title:

Tracked Vehicle Operations Within Root Protection Area

Date:	Drawing Number:	Revision:
01.02.2021	AGS405	1.0
Scale:	Paper Size:	Drawn By:
1:50	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.
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- 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*.

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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.

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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

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.

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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:
n/a	A3	TH

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