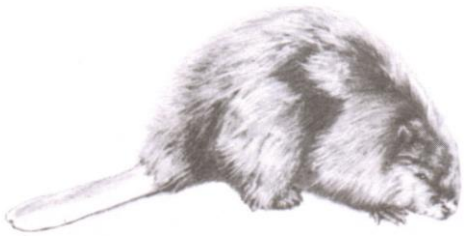


IAIN TAVENDALE F.Arbor.A.

ARBORICULTURAL CONSULTANT

Residential Development of 31 Homes at
Abbey Road North, Shepley, HD8 8FG.

Application No: 2019/62/91569/E

Approved: 30th September 2020.

ARBORICULTURAL METHOD STATEMENT

METHOD STATEMENT FOR PROTECTION OF TREES DURING DEVELOPMENT

Project Arboriculturalist. **Iain Tavendale F.Arbor.A**

ABOUT THE METHOD STATEMENT

This method statement has been prepared to ensure that the trees indicated for retention are properly protected throughout the development of the site, and continue to represent a visual amenity in the future. It is intended to instruct all contractors on methods which will help to avoid damage to the trees.

The method statement recommends all development within influencing distance of trees is to BS5837:2012 Trees in Relation to Design, Demolition and Construction – Recommendations. Any pruning works must be to BS3998;2010 Tree Work - Recommendations and be undertaken by an approved arboricultural contractor. Any development affecting trees must be supervised by an Arboricultural Consultant / Project Arboriculturalist.

METHOD STATEMENT GUIDELINES.

The method statement identifies: the order in which works are undertaken and the roles of various people involved; the contacts and others responsible for protection of trees; relevant plans and approvals; detailed methods of tree protection and details for monitoring site supervision.

The following information is submitted with this Statement or has been submitted as part of the application bundle:

- Approved site layout drawing
- Tree Protection Plan – Parker Peel Planning Layout Drawing 1914-SI-03 Rev. H. Amended October 2020.
- Details of tree retention/ removal & management / Tree Survey
- Section 6 BS5837:2012 Trees in relation to design, demolition and construction - Recommendations - Tree Protection Fencing & Ground Protection.
- Notes on Garage Construction and Driveway construction within proximity of T.
- Indicative sign to be attached to protective fencing.
- Sheet for monitoring site supervision.

This method statement has been prepared in respect of planning conditions attached to the approved development. Failure to adhere to the agreed methods for development may result in a Breach of Condition Notice being served.

METHOD STATEMENT

The people listed within the document are those with a responsibility for tree protection on the site and from the Local Authority. The relevant people should be contacted in the event of a problem.

SITE NAME	Land South East of Abbey Road North, Shepley, Huddersfield, HD8 8FG
DEVELOPER	Yorkshire County Properties.
ADDRESS	Suite 3, 39 Huddersfield Road, Holmfirth, HD9 3JH
TELEPHONE NUMBER	01484 598455
APPLICATION NUMBER	2019/62/91569/E
PLANNING CONDITION NUMBER	11

AGREEMENT TO PROTECT TREES

The developer has agreed to undertake tree protection to the standard advised in the method statement.

PROTECTED AREA

The trees are protected within fencing erected as identified in the attached notes. To avoid damage, **the following points MUST apply within the protected area**:

1. No material should be stored.
2. No cement, diesel or oil should be stored.
3. No vehicles should pass or be parked.
4. No ropes, cables, services or notice boards should be fixed to existing trees.
5. No levels should be changed.
6. No fires should be started with 5m of the protected area.
7. No services should be laid without prior approval and proper supervision.

METHOD STATEMENT

ORDER OF WORKS

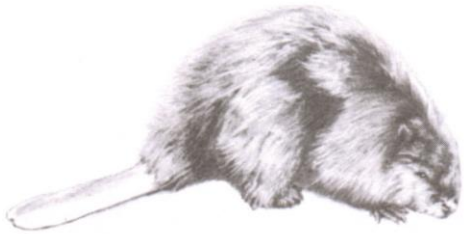
	WORKS TO BE UNDERTAKEN	DATE APPROVED	ACTIONS BY
1	Method statement received and approved by Local Authority		Developer, Local Authority Tree Officer.
2	All felling and pruning works as indicated in the tree survey and submitted plans all as approved by the Local Planning Authority to be implemented. Attention to be given to tree pruning to ensure acceptable clearances over the site.		Arb Contractor Project Arboriculturalist, Trees Team Kirklees Council.
3	Protective fencing erected in accordance with Tree Constraints Plan as indicated, final positions of protective fencing to be accurately measured on site at the time of operations. Note. Fencing specification to eastern boundary changes to rear of Plot 16. Northern section to lesser specification due to low level of activities within proximity.		Developer. Project Arboriculturalist.
4	Ground protection to be afforded around the garages to Plots 27/28 to BS5837 Section 6.2.3.3.a.		Developer. Project Arboriculturalist.
5	Completed fencing / ground protection photographed and images forwarded to Trees Team at Kirklees Council for approval.		Developer
6	Fencing approved by Kirklees Council		Local Authority Landscape Officer
7	Site (Toolbox) meeting to go through Method Statement and ensure that all parties are fully conversant with all appropriate conditions, procedures and methodologies, clarify any queries and establish contacts.		Developer, Trees Team Kirklees Council , Project Arboriculturalist & Architect.
8	Area to be Block Paved to front of Garages 29 – 31 that is shown to be protected should have fencing retained around until point at which surfacing is required to be formed at which time		Developer. Project Arboriculturalist.

	the Project Arboriculturalist to supervise necessary soil strip and advise on surfacing requirements – see appended note.		
9	Fencing monitored on a weekly basis, record sheet completed and retained.		Developer Arboricultural Consultant.
10	Project Arboriculturalist or Local Authority Landscape Officer to be contacted should any problems / complications arise. Work in vicinity of trees to cease until issues are resolved and agreed works confirmed to Local Planning Authority.		Project Arboriculturalist, Local Authority Landscape Officer Developer
11	If encroachment within the protected rootzone is required for scaffolding or similar, access may be permitted subject to as suitable methodology being submitted and approved by the LPA.		Project Arboriculturalist Local Authority Landscape Officer Developer
12	Site resurveyed once development approaches completion, any necessary amendments made to tree survey.		Project Arboriculturalist
13	If necessary application submitted to Local Authority for consent for any additional works, and agreement obtained.		Project Arboriculturalist Local Authority Landscape Officer
14	Tree works undertaken.		Arb Contractor
15	When all construction equipment is cleared from site protective fencing to be removed.		
16	Landscaping works to be implemented. Where fencing is to be installed within expected root protection areas (eastern boundary) all post holes to be manually excavated and lined with Visqueen.		Landscape Contractors
17	Final site inspection.		Developer Project Arboriculturalist, trees Team Kirklees Council

METHOD STATEMENT

CONTACTS

POSITION	NAME	ADDRESS	TELEPHONE NO.
Developer / Agent.	Yorkshire County Properties.	Suite 3, 39 Huddersfield Road, Holmfirth, HD9 3JH	01484 598455
Site Manager	TBC		
Arboricultural Consultant	Iain Tavendale	High Bank Farm, Earby, Lancs BB18 6LD	01282 853333
Arboricultural Contractor	TBC		
Local Authority Tree Officer	Mr Joe Robertson	Kirklees Council	01484 414909
Landscape Contractor.	TBC		



IAIN TAVENDALE F.Arbor.A.

ARBORICULTURAL CONSULTANT

Notes in respect of Construction of Garage to Plots 27 & 28 and Driveway to Garages Plots 29 – 31.

15th October 2020

Garage Construction Plots 27 & 28.

The garage in proximity to T1 does in part fall within a relatively small section of the expected root protection area of T1.

Initially, the root protection area of T1 will be temporarily fenced off until construction is required as per the Tree Protection Plan.

At present, due lack of knowledge of final levels, it is considered that a raft style base could be formed that would entail minimal excavations within the expected root protection area thereby avoiding significant harm to the adjacent Eucalyptus T1.

Should initial excavations / trial pits indicate that this is not the case or, should any parties be concerned about any excavations within the expected root protection area, the garage could be constructed utilising a pad / pier and ground beam foundation system with a block and beam floor.

Final agreement on the proposed foundations will be determined by the Project Arboriculturalist and Developer when levels are determined and site excavations assessed. The proposals and methodologies will then be confirmed to the Trees Team at Kirklees Council prior to construction.

During construction of the garage, ground protection will be afforded as indicated on the Tree Protection Plan to protect the exposed root zone outside the Tree Protection Fencing.

Driveway to Garages Plots 29 – 31.

Part of the approved driveway will extend into the expected root protection area of T1 as indicated.

This area of encroachment will have temporary Tree Protection Fencing erected as per the Tree Protection Plan until the surfacing is required.

High Bank Farm, Stoney Bank Road, Earby, Barnoldswick, Lancashire, BB18 6LD

Telephone/Fax: 01282 853333 Mobile: 07836 246062

Email: iain@iaintavendale.co.uk

As per the notes above, until final levels are determined, the final methodology for the construction cannot be reasonably confirmed. However, as far as reasonably possible it is proposed that only minimal soil stripping is proposed to remove the herb layer – 50mm max. and that a suitable 3D cellular confinement system (Neoweb or similar) is installed upon which the block paving will be laid.

As for the garage construction, final agreement on the surfacing system will be determined by the Project Arboriculturalist and Developer when levels are determined and site excavations assessed. The proposals and methodologies will then be confirmed to the Trees Team at Kirklees Council prior to construction.

By appropriately considering construction requirements on site when all matters can be correctly assessed, the future viability of retained trees can be secured.

Iain Tavendale F.Arbor.A.

High Bank Farm, Stoney Bank Road, Earby, Barnoldswick, Lancashire, BB18 6LD

Telephone/Fax: 01282 853333 Mobile: 07836 246062

Email: iain@iaintavendale.co.uk

Method Statement Monitoring Form.

Abbey Road North, Shepley.

Date	Comments	Developer	Arb Consultant
e.g. *1st May 2020*	*Fencing checked by Arb Consultant, minor damage at southern end / loose bracket. Reported to Foreman.*		*1st May 2020*
2nd May 2020	*Damage repaired, bracket tightened.*	*2nd May 2020.*	

6 Technical design

COMMENTARY ON CLAUSE 6

Technical design includes information sufficient to provide a high level of confidence in the outcome for trees retained on development sites. Where planning permission or other statutory controls apply, details might need to be submitted in draft form or heads of terms to allow for changes to the design that might occur after permission has been granted. In these cases, it will be necessary for the project arboriculturist to set out a series of parameters for construction activity (e.g. where service routes and/or construction activity should not occur), based on the RPA and the physiological needs of the tree, to which the finalized specifications and statements will apply.

6.1 Arboricultural method statement

6.1.1 A precautionary approach towards tree protection should be adopted and any operations, including access, proposed within the RPA (or crown spread where this is greater) should be described within an arboricultural method statement, in order to demonstrate that the operations can be undertaken with minimal risk of adverse impact on trees to be retained.

6.1.2 The arboricultural method statement should be appropriate to the proposals and might typically address some or all of the following, incorporating relevant information from other specialists as required:

a) removal of existing structures and hard surfacing;

b) installation of temporary ground protection (see **6.2.3**);

c) excavations and the requirement for specialized trenchless techniques (see **7.7.2**);

d) installation of new hard surfacing – materials, design constraints and implications for levels;

e) specialist foundations – installation techniques and effect on finished floor levels and overall height;

f) retaining structures to facilitate changes in ground levels;

g) preparatory works for new landscaping;

h) auditable/audited system of arboricultural site monitoring, including a schedule of specific site events requiring input or supervision.

6.1.3 The arboricultural method statement should also include a list of contact details for the relevant parties.

6.2 Barriers and ground protection

6.2.1 General

6.2.1.1 All trees that are being retained on site should be protected by barriers and/or ground protection (see **5.5**) before any materials or machinery are brought onto the site, and before any demolition, development or stripping of soil commences. Where all activity can be excluded from the RPA, vertical barriers should be erected to create a construction exclusion zone. Where, due to site constraints, construction activity cannot be fully or permanently excluded in this manner from all or part of a tree's RPA, appropriate ground protection should be installed (see **6.2.3**).

6.2.1.2 Areas of retained structural planting, or designated for new structural planting, should be similarly protected, based on the extent of the soft landscaping shown on the approved drawings.

6.2.1.3 The protected area should be regarded as sacrosanct, and, once installed, barriers and ground protection should not be removed or altered without prior recommendation by the project arboriculturist and, where necessary, approval from the local planning authority.

6.2.1.4 Where required, pre-development tree work may be undertaken before the installation of tree protection measures, with the agreement of the project arboriculturist or local planning authority if appropriate (see also **8.8.1**).

6.2.1.5 It should be confirmed by the project arboriculturist that the barriers and ground protection have been correctly set out on site, prior to the commencement of any other operations.

6.2.2 Barriers

6.2.2.1 Barriers should be fit for the purpose of excluding construction activity and appropriate to the degree and proximity of work taking place around the retained tree(s). Barriers should be maintained to ensure that they remain rigid and complete.

6.2.2.2 The default specification should consist of a vertical and horizontal scaffold framework, well braced to resist impacts, as illustrated in Figure 2. The vertical tubes should be spaced at a maximum interval of 3 m and driven securely into the ground. Onto this framework, welded mesh panels should be securely fixed. Care should be exercised when locating the vertical poles to avoid underground services and, in the case of the bracing poles, also to avoid contact with structural roots. If the presence of underground services precludes the use of driven poles, an alternative specification should be prepared in conjunction with the project arboriculturist that provides an equal level of protection. Such alternatives could include the attachment of the panels to a free-standing scaffold support framework.

6.2.2.3 Where the site circumstances and associated risk of damaging incursion into the RPA do not necessitate the default level of protection, an alternative specification should be prepared by the project arboriculturist and, where relevant, agreed with the local planning authority. For example, 2 m tall welded mesh panels on rubber or concrete feet might provide an adequate level of protection from cars, vans, pedestrians and manually operated plant. In such cases, the fence panels should be joined together using a minimum of two anti-tamper couplers, installed so that they can only be removed from inside the fence. The distance between the fence couplers should be at least 1 m and should be uniform throughout the fence. The panels should be supported on the inner side by stabilizer struts, which should normally be attached to a base plate secured with ground pins (Figure 3a). Where the fencing is to be erected

on retained hard surfacing or it is otherwise unfeasible to use ground pins, e.g. due to the presence of underground services, the stabilizer struts should be mounted on a block tray (Figure 3b).

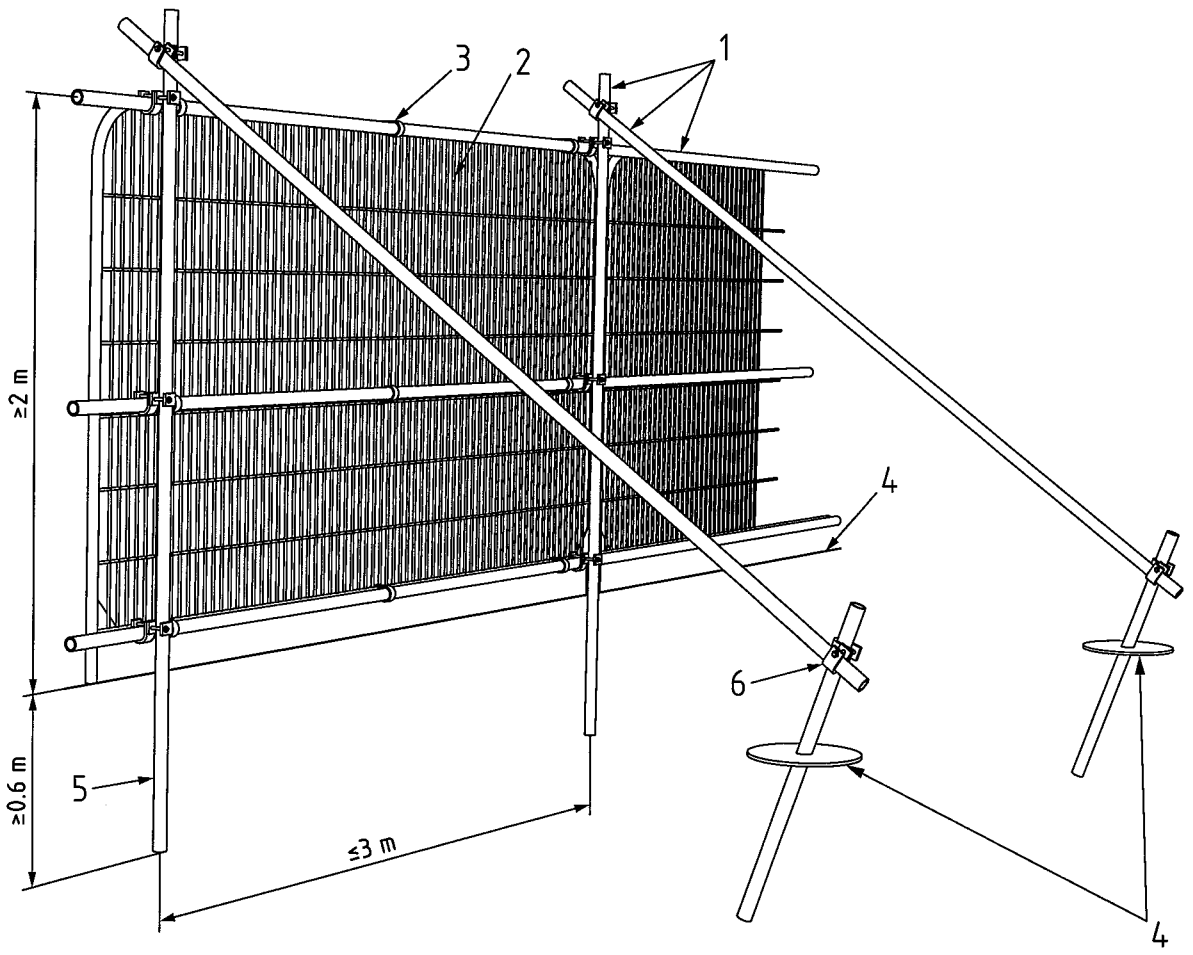
NOTE 1 Examples of configurations for steel mesh perimeter fencing systems are given in BS 1722-18.

NOTE 2 It might be feasible on some sites to use temporary site office buildings as components of the tree protection barriers, provided these can be installed and removed without damaging the retained trees or their rooting environment.

6.2.2.4 All-weather notices should be attached to the barrier with words such as:

"CONSTRUCTION EXCLUSION ZONE – NO ACCESS".

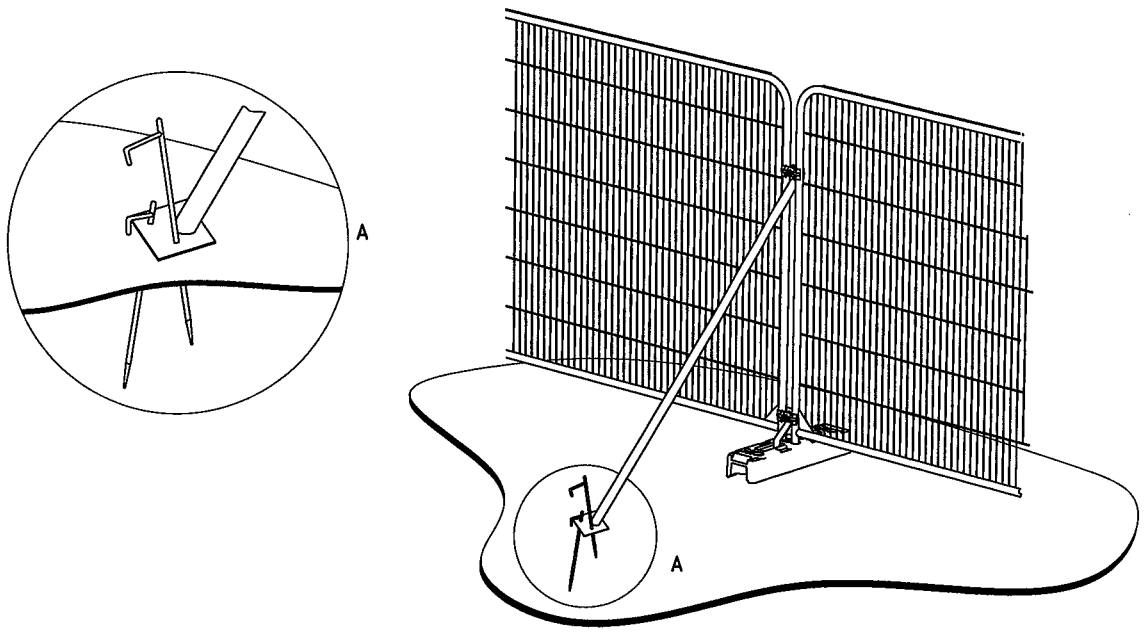
Figure 2 **Default specification for protective barrier**



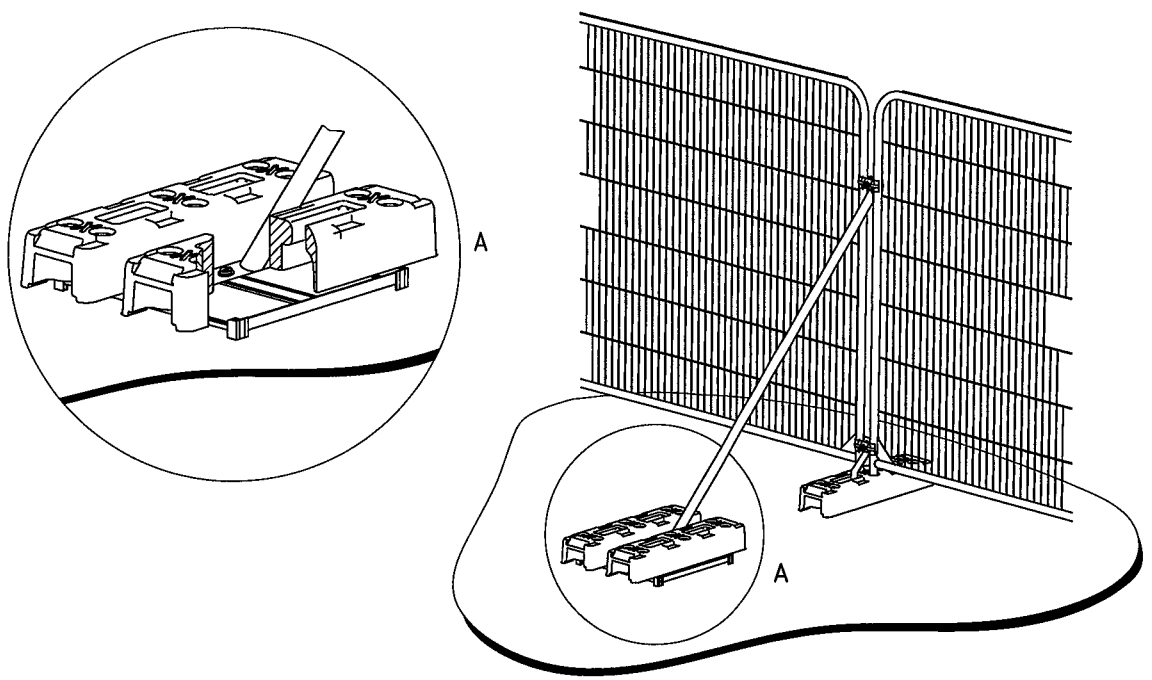
Key

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

Figure 3 **Examples of above-ground stabilizing systems**



a) Stabilizer strut with base plate secured with ground pins



b) Stabilizer strut mounted on block tray

6.2.3 Ground protection during demolition and construction

6.2.3.1 Where construction working space or temporary construction access is justified within the RPA, this should be facilitated by a set-back in the alignment of the tree protection barrier. In such areas, suitable existing hard surfacing that is not proposed for re-use as part of the finished design should be retained to act as temporary ground protection during construction, rather than being removed during demolition. The suitability of such surfacing for this purpose should be evaluated by the project arboriculturist and an engineer as appropriate.

6.2.3.2 Where the set-back of the tree protection barrier would expose unmade ground to construction damage, new temporary ground protection should be installed as part of the implementation of physical tree protection measures prior to work starting on site.

6.2.3.3 New temporary ground protection should be capable of supporting any traffic entering or using the site without being distorted or causing compaction of underlying soil.

NOTE The ground protection 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, so as 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.*

6.2.3.4 The locations of and design for temporary ground protection should be shown on the tree protection plan and detailed within the arboricultural method statement (see **6.1**).

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

6.2.4 Additional precautions outside the exclusion zone

6.2.4.1 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 coming into contact with retained trees. Such contact can result in serious damage to the 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 from trees is maintained at all times. Access facilitation pruning should be undertaken where necessary to maintain this clearance.

NOTE In some instances, local planning authority consent for pruning might be required.

6.2.4.2 Fires on sites should be avoided if possible. Where they are unavoidable, they should not be lit in a position where heat could affect foliage or branches. The potential size of a fire and the wind direction should be taken into account when determining its location, and it should be attended at all times until safe enough to leave.

NOTE Local environmental health authorities might have specific restrictions.

6.2.4.3 Any materials whose accidental spillage would cause damage to a tree should be stored and handled well away from the outer edge of its RPA.

6.3 Site monitoring

Wherever trees on or adjacent to a site have been identified within the tree protection plan for protective measures, there should be an auditable system of arboricultural site monitoring. This should extend to arboricultural supervision whenever construction and development activity is to take place within or adjacent to any RPA.

NOTE Existing planning regulations include the provision for local authorities to enforce planning requirements. The project arboriculturist appointed by the developer can help monitor site activity, but enforcement is the responsibility of the local authority.

PROTECTIVE FENCING. THIS FENCING MUST BE MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND DRAWINGS FOR THIS DEVELOPMENT.

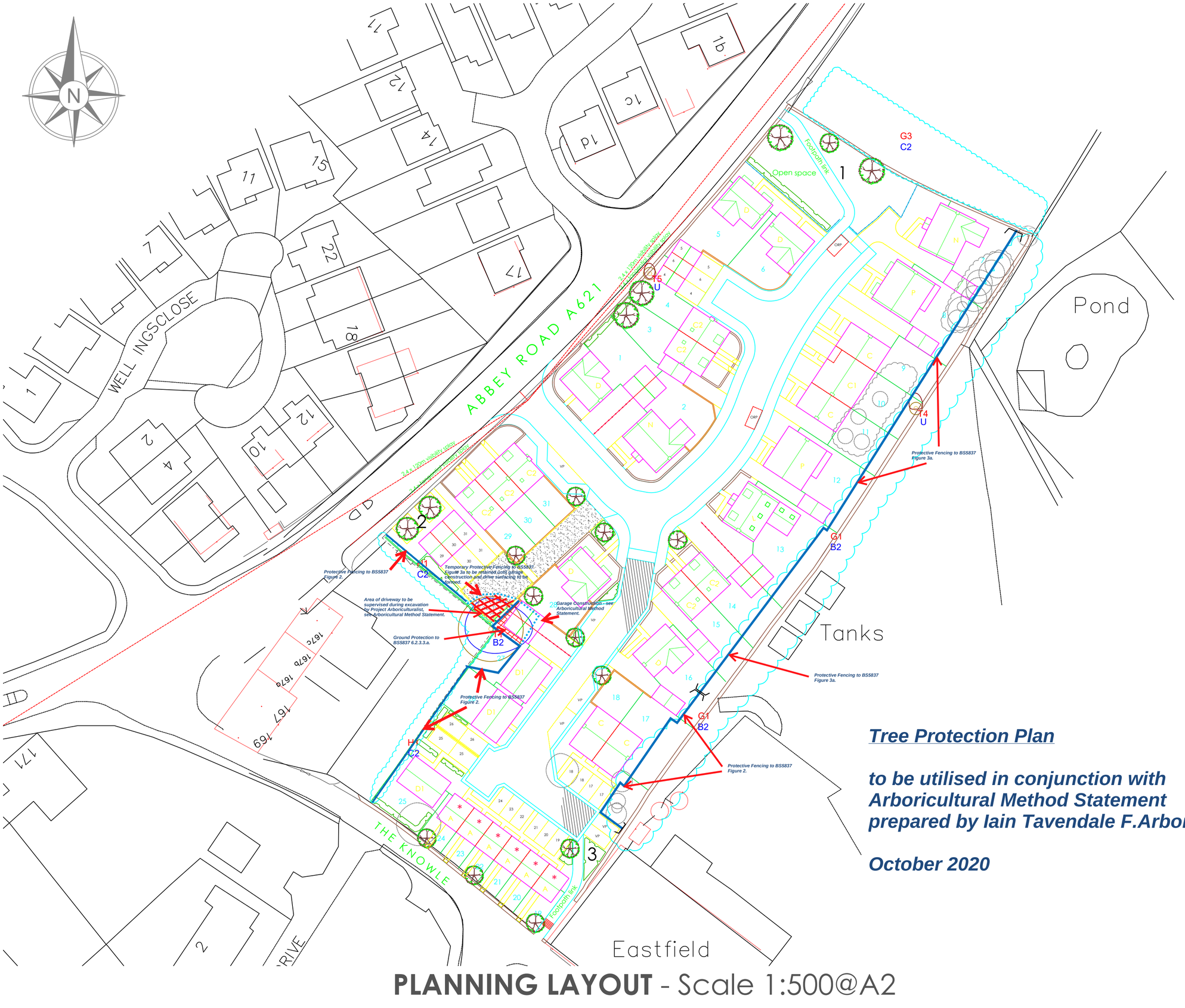
TREE PROTECTION AREA

KEEP OUT !

(TOWN & COUNTRY PLANNING ACT 1990)
TREES ENCLOSED BY THIS FENCE ARE PROTECTED BY PLANNING CONDITIONS AND/OR ARE THE SUBJECTS OF A TREE PRESERVATION ORDER.
CONTRAVENTION OF A TREE PRESERVATION ORDER MAY LEAD TO CRIMINAL PROSECUTION

ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE WRITTEN PERMISSION OF THE LOCAL PLANNING AUTHORITY

Abbey Road, **SHEPLEY** *Tree Protection Plan*



PLANNING LAYOUT - Scale 1:500@A2

NOTES:

DRAWING LEGEND

- STARTER HOMES
- VISITOR PARKING
- ON ROAD VISITOR PARKING

TREE SURVEY LEGEND

- GROUP
- TREES TO BE REMOVED

TREE CANOPY GRADES

- CATEGORY A
- CATEGORY B
- CATEGORY C
- CATEGORY U
- ROOT PROTECTION AREA

FOR FURTHER DETAILS OF TREES REFER TO ARBORICULTURAL REPORT BY IAIN TAVENDALE.

ACCOMMODATION SCHEDULE

HOUSE TYPE	DESCRIPTION	NO
STARTER HOMES 20% = 6 UNITS		
TYPE A	1 BEDROOM TERRACE HOUSE	6
PRIVATE UNITS		
TYPE C	3 BEDROOM SEMI DETACHED HOUSE	4
TYPE C1	3 BEDROOM LINK TERRACE HOUSE	1
TYPE C2	3 BEDROOM SEMI DETACHED HOUSE (RIR)	7
TYPE D	3 BEDROOM DETACHED HOUSE	5
TYPE D1	3 BEDROOM DETACHED HOUSE	3
TYPE L	5 BEDROOM DETACHED HOUSE	1
TYPE N	4 BEDROOM DETACHED HOUSE	2
TYPE P	4 BEDROOM DETACHED HOUSE	2
TOTAL		**31**

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REV	DESCRIPTION	DATE
H	SITE ROAD TURNING HEAD AMENDED IN ACCORDANCE WITH REFUSE VEHICLE TRACKING	06/2020
G	VISITOR PARKING BAYS AMENDED IN ACCORDANCE WITH REFUSE VEHICLE TRACKING	05/2020
F	2 No VISITOR PARKING BAYS ADDED ADJACENT TO PLOT 18.	05/2020
E	RAMP ADJUSTED TO HIGHWAY COMMENTS. NEW VISITOR PARKING ADDED. PLOTS 29-31 REPOSITIONED SLIGHTLY.	05/2020
D	PARAPETS ADDED TO PLOT 8. STEPS ADDED TO FOOTPATH LINK TO THE KNOWLE	03/2020
C	PLOT 1 REORIENTED AND PLOT 8 BAY WINDOWS ADDED.	03/2020
B	ACCESS JUNCTION & SITE ROAD AMENDED TO INCLUDE FOOTPATHS TO BOTH SIDES AND A TURNING HEAD	03/2020
A	VARIOUS PLOTS AMENDED TO IMPROVE RELATIONSHIP BETWEEN BUILDINGS AND EXISTING PROTECTED TREES.	10/2019

Tree Protection Plan

to be utilised in conjunction with Arboricultural Method Statement prepared by Iain Tavendale F.Arbor.A.

October 2020

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Client
YORKSHIRE COUNTRY PROPERTIES

Project
PROPOSED RESIDENTIAL DEVELOPMENT AT
ABBEY ROAD,
SHEPLEY

Title
PLANNING LAYOUT

Drw. No.	Scale	Drawn	Checked	Date	Rev.
1914-SI-03	1:500@A2	RP	-	05/19	H