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Bolton by Bowland  
Lancs

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## Reference:

### **Proposed extensions to nursery buildings**

#### Current site.

We have been asked to review and comment on the above proposed development site as illustrated in Appendix 1 of this document in relation to arboricultural impacts and constraints.

We visited the site on 29/09/2022 in order to survey any trees, groups of trees and hedges as required in the production of a report to BS5837:2012. Tree locations were taken from the supplied site plan and via estimated ground measurements from identified physical reference points during our site survey. Stem measurements were taken at 1.5m and crown spreads estimated via laser measure.

The site is not located in a Conservation Area, we have not conducted a check for the presence of Tree Preservation Orders due to the nature of the proposed development and absence of significant mature tree stock within the vicinity of the development areas. The status of trees adjacent to the wider site should be verified before any tree removals or works are undertaken.

The survey site is comprised of sections of the car parking and access areas to the front of the existing nursery building and an area of plant storage / nursery surrounding the existing bungalow.

Current tree stock in the development areas is detailed in Appendix 1 and comprises of a group of shrubs and a limited number of young trees (G1). This group is located in a raised border formed by stone retaining walls. The largest individual trees are a Japanese Maple and a Himalayan Birch with the latter tree having a measured DBH (stem diameter) of 75mm and height of 5m.

A maintained hedge of Copper Beech (H1) is located along the eastern edge of the site access and forms a division between the car parking / access and the area surrounding the bungalow. Similarly to G1 this hedge is situated on top of a raised border, it has a DBH of 90mm measured at the base of the stem and a height of 2m.

Other than T1, there is no established tree or hedge cover in the eastern section of the site. T1 is a multi stemmed Zelkova, it is located at the edge of the nursery / plant storage area adjacent to a level change within a small unsurfaced border.

## Arboriculture - Landscape Design

No other trees are located within the maintained grounds of the nursery. A group of three trees forms the outer edge of an area of tree cover along the banks of the adjacent watercourse. G2 is composed of a Sycamore and two Ash, there is no access to stems due to fencing and dense vegetation so we have estimated stem sized (DBH). The Sycamore is in good vigour but overhangs the bungalow roof, both Ash are in poor condition due to Ash Dieback Disease, one tree is standing deadwood and the other tree is in the advanced stages of infection with widespread dieback and deadwood. Both of these Ash require removal as a matter of urgency to prevent failure of limbs and branches onto structures or persons.

No other tree and hedge stock is located within the proximity of the development area.

Proposed development.

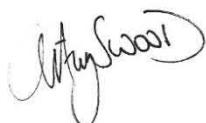
The proposed development involves the extension of the existing nursery buildings to the south and east as illustrated in Appendix 2.

The proposed development would require the removal of G1 and the northern section of H1. Neither G1 or H1 contains any notable mature tree stock, nor do they make a significant contribution to the landscape out with the site. Given their limited size and young age, their removal can readily be mitigated by replacement planting within the site.

There will be no impact upon T1 from the construction of the proposed extension. T1 can be retained through the use of a small section of protective fencing as shown in Appendix 2.

The proposed extensions are located at a significant distance from the closest mature tree stock to the east of the site boundary. As noted, the Ash component of G2 is in poor condition and requires removal irrespective of any development.

In conclusion, no significant or mature tree stock will be impacted upon by the proposed development, the required removals are of shrubs, young / small trees and a short section of maintained hedge. The single tree T1 to the east of the proposed development can be protected by a section of protective fencing.



Antony Wood

Attached:

Appendix 1: Tree Schedule

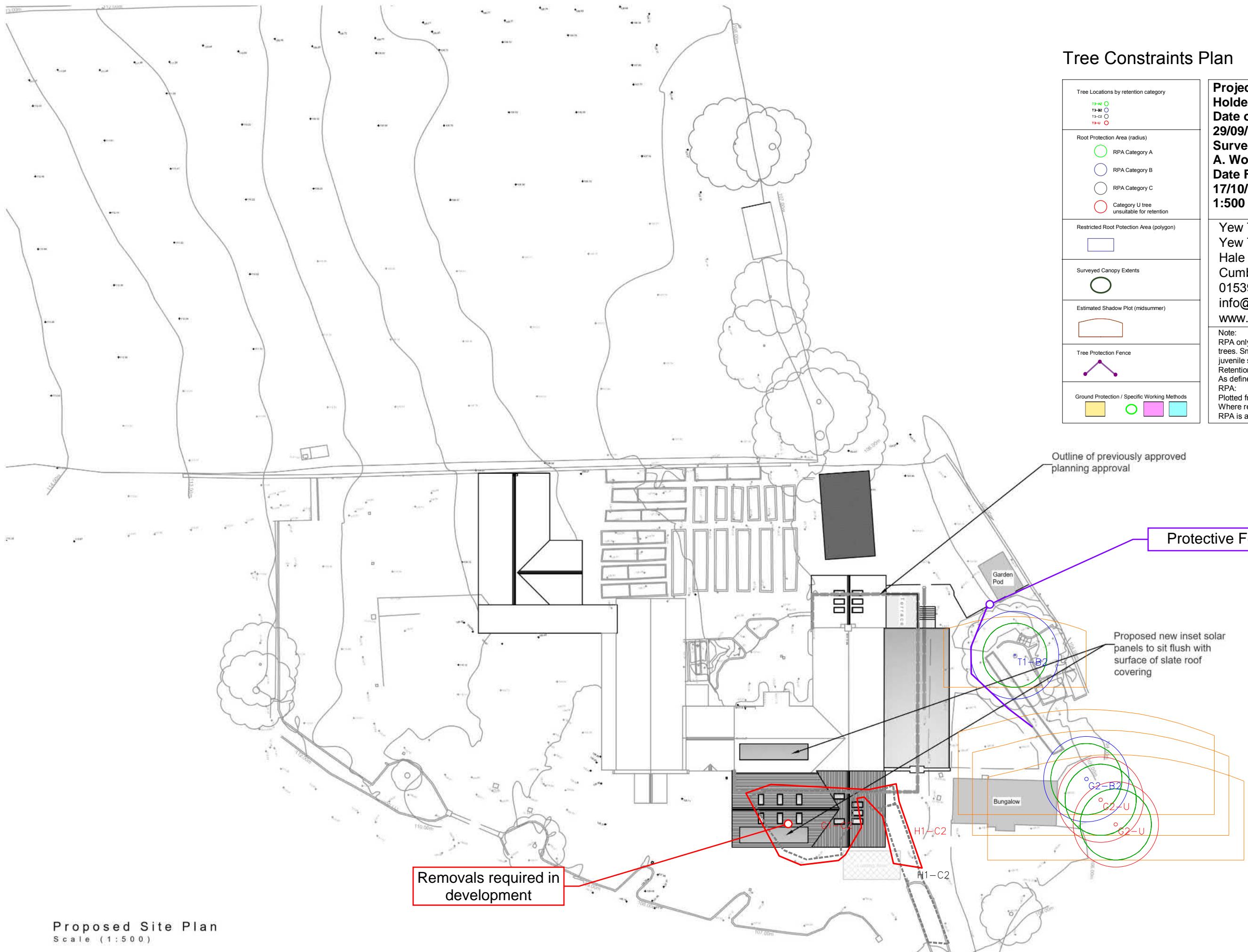
Appendix 2: Tree Constraints Plan

Appendix 3: Site Images

Appendix 4: Tree Protection Guidelines

Appendix 5: Tree Protection Measures

Type	Name	Age	DBH	Height	1stB	N	E	S	W	Cond	Life Exp	Comments	Recommendations / development	RPR m	RPA m <sup>2</sup>	Category
G1	Mixed shrub group, Acer palmatum (Japanese Maple), Ilex aquifolium (Holly), Corylus avellana (Hazel), Betula utilis Jaq (Himalayan Birch), Pinus pinea (Stone Pine)	Y	75	5	0	2	2	2	2	Mix	10+	Mixed group of shrubs and small / younger tree in raised borders between car park and building.	Will require removal in development	0.9	2.55	C2
H1	Fagus sylvatica 'Purpurea' (Copper Beech)	EM	90	2	0	0.3	0.3	0.3	0.3	Good	20+	Maintained hedge in raised border between car park / entrance and bungalow / plant area	Section to N of pedestrian access to bungalow will require removal in development, S section can be retained in development	1.08	3.66	C2
T1	Zelkova serrata (Keaki)	M	230	10	1	4.5	4.5	4.5	4.5	Good	20+	Multi stemmed form, located in unsurfaced border with level changes and mixed surfaces above and below location	Outside of development area, can be retained via protective fencing	6.17	119.61	B2
G2	Acer pseudoplatanus (Sycamore), Fraxinus excelsior (Ash)	M	500	18	4	5	5	5	5	Mix	20+	Group of 1 Sycamore and 2 Ash to east of boundary / bungalow. No access (DBH estimated). Sycamore, single stemmed with crown overhanging roof of bungalow (500 mm DBH), 1 x Ash is standing dead tree, 1 x Ash has advanced stage Ash Dieback and overhangs site and adjacent property	Outside of development area, both Ash require removal ASAP irrespective of development due to their poor condition and risk of failure	6	113.11	B2 / U



## Appendix 3: Images

## Holden Clough Nursery



Image date: 29/09/2022

## Appendix 3: Images

## Holden Clough Nursery

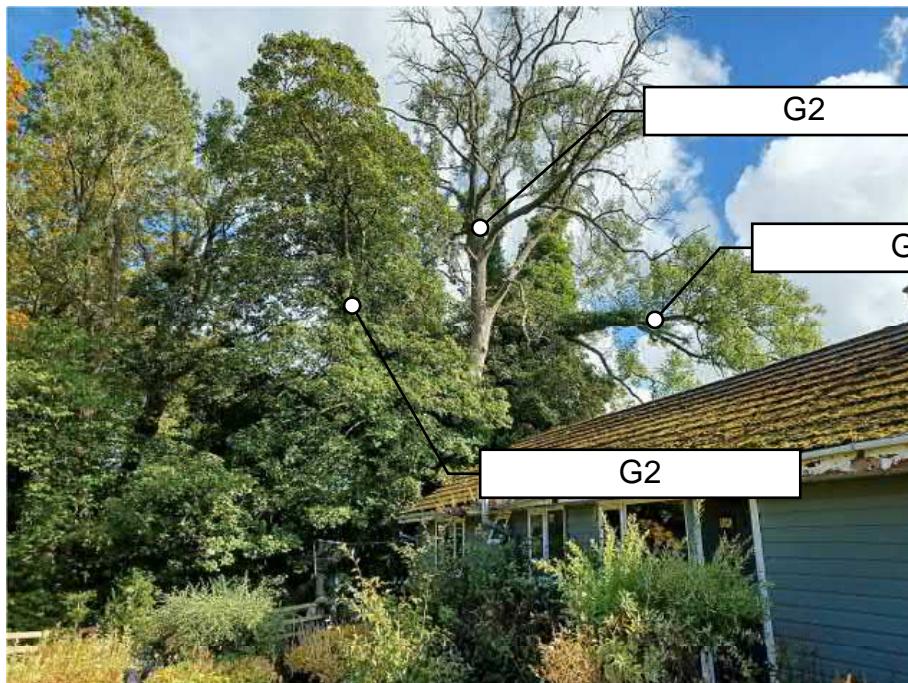


Image date: 29/09/2022

### Appendix 3: Images

### Holden Clough Nursery

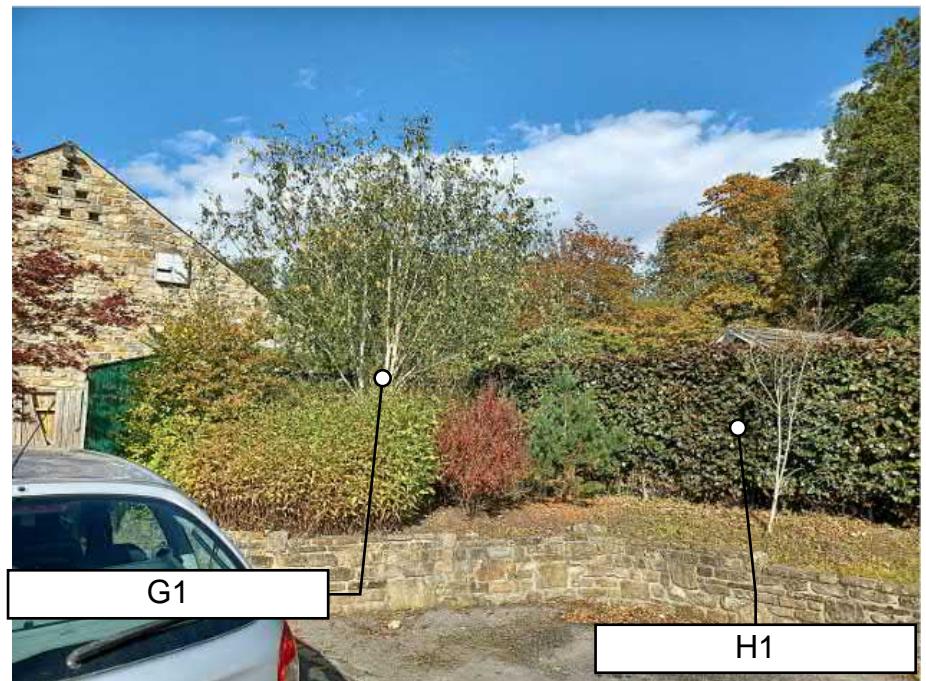
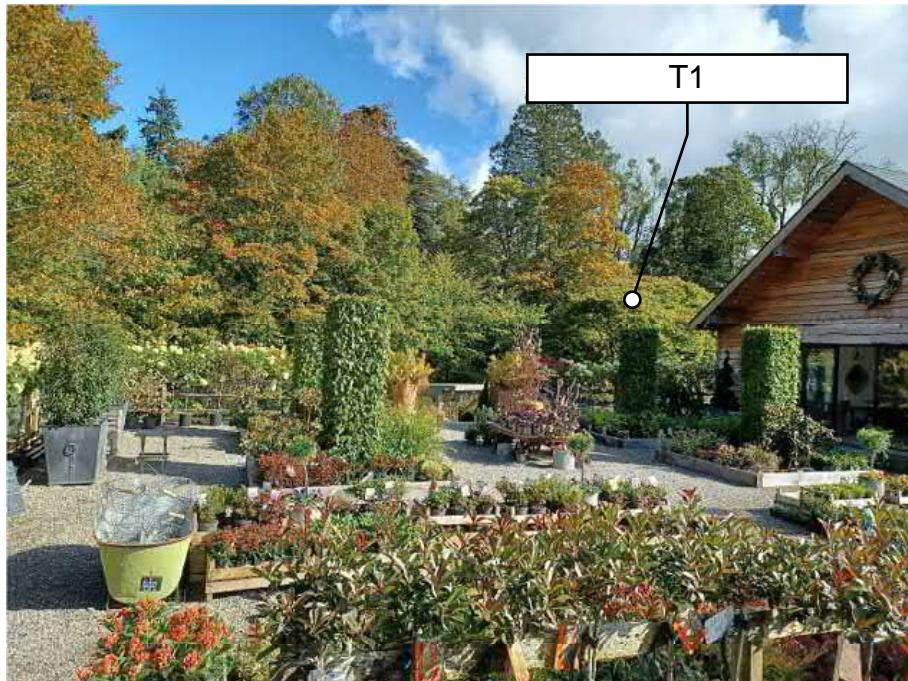
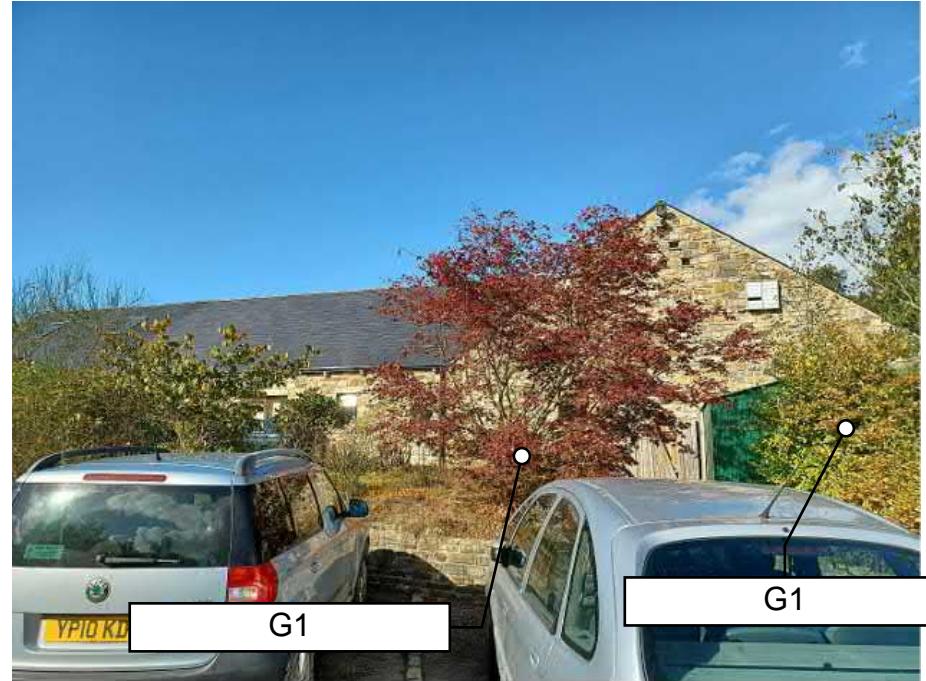
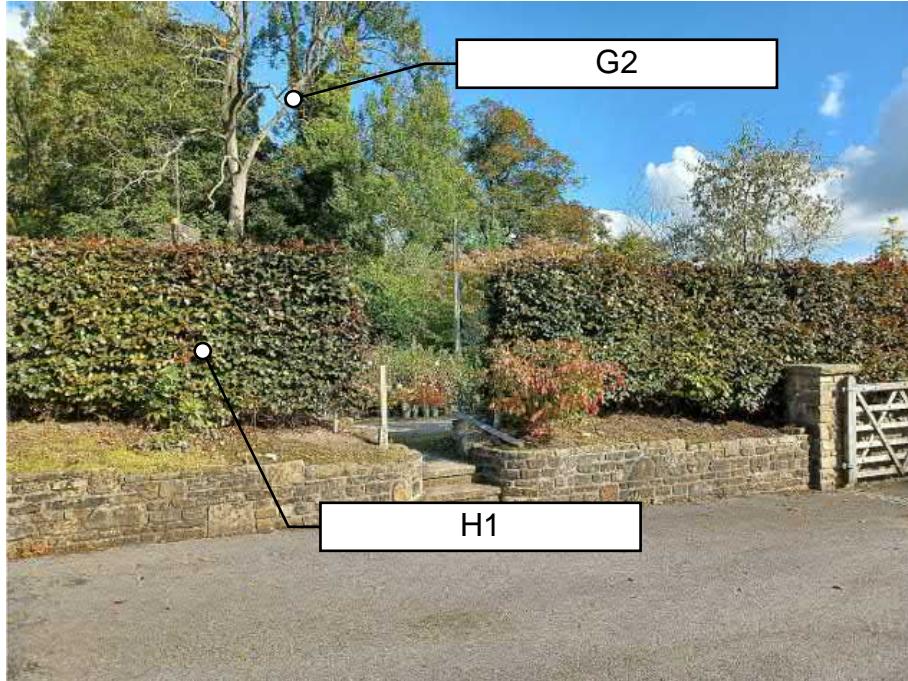


Image date: 29/09/2022

17/10/2022 Holden

### General principles to avoid damage to trees.

1. Protective fencing installed to prevent mechanical damage to trees adjacent to the development.
2. An indicative list of recommended practices during construction phase is listed below:
3. Once installed tree protection must remain in place and be observed at all times.
4. No fires within 10m of the crown of any retained trees.
5. Soil levels in rooting areas to be retained with minimal level changes, no greater increases than 300mm from existing levels.
6. No cement mixing/washout to take place within 15m of any retained trees.
7. No chemicals, bitumen etc. to be stored within 10m of any retained trees.
8. Any spillage of fuel, chemicals or contaminated water occurring within 2m of the root protection areas to be reported to project supervisor.
9. No additional underground services have been indicated to us at this time but they may be safely routed to avoid rooting zones, if additional services require routing through the root zones of trees for retention then appropriate sub surface or hand trenching methods should be used and guidance sought prior to any works being undertaken. See BS3857:2012.

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## Tree protection measures.

### A. GUIDELINES

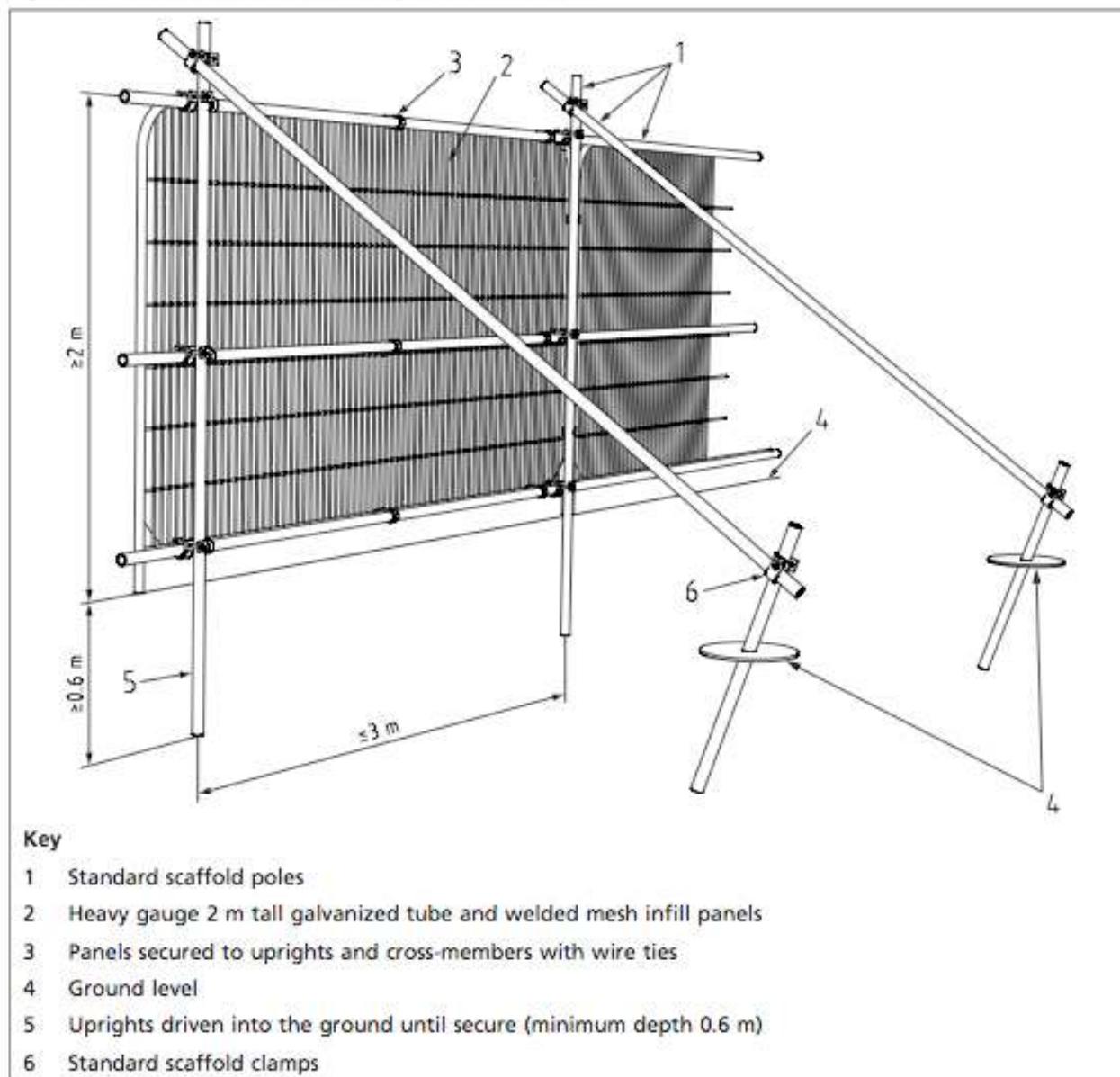
1. Outline guidance for the protection and retention of trees within the site.
2. Erection of protective fencing as indicated in Appendix 2: Tree Constraints Plan.
3. No material storage should take place in protected areas.
4. No mixing of cement-based or other building materials should take place within the root protection area, no storage of fuels should take place within this area.
5. The tree protection must remain in place until work is completed and there is no risk to the RPAs
6. Once construction has been completed and the landscaping phase is complete the protective fencing may be removed.

### B. PROTECTIVE FENCING

1. Once erected all protective fencing will be regarded as sacrosanct and will remain in place until the completion of the construction phase. It shall not be removed, relocated or breached at any time without consultation with the project arboriculturist.
2. Protective measures will be constructed of barriers fit for the purpose of excluding construction activity from root protection areas. An example of a barrier is shown in Appendix 5.
3. Signs will be affixed to every third panel stating 'Tree Protection Area Keep Out'. See Appendix 5 for example of signage.
4. All barriers will be securely affixed to avoid movement of fencing during the construction phase.
5. Indicative positions for protective barriers are indicated in purple on Appendix 2: Tree Constraints Plan.
6. A specification for protective fencing is shown in Appendix 5.

**Tree protection fencing - rigid**

Figure 2 Default specification for protective barrier

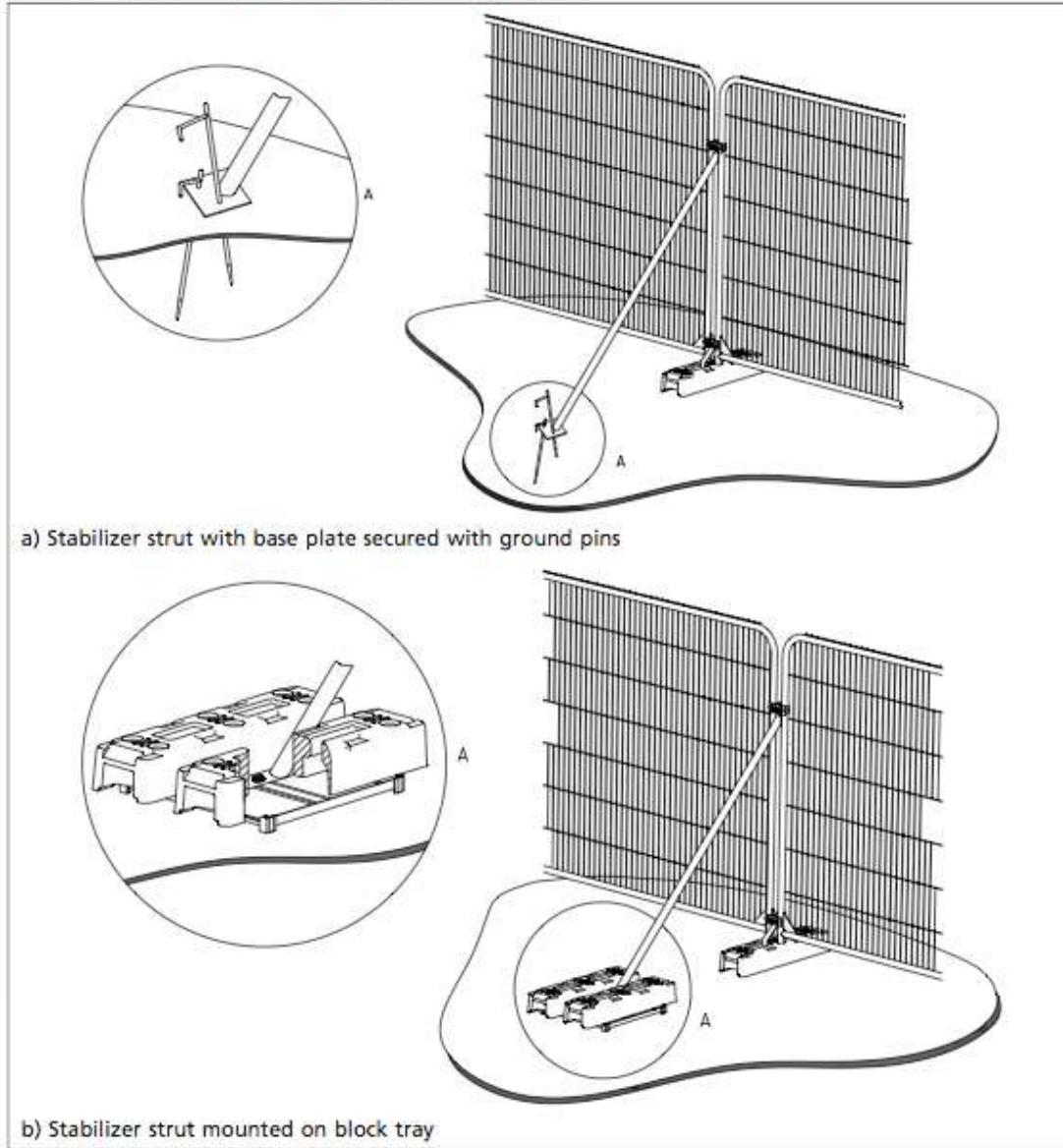


### Tree protective fencing

**BRITISH STANDARD**

**BS 5837:2012**

Figure 3 Examples of above-ground stabilizing systems





**ANY INCURSION INTO THE PROTECTED AREA MUST BE WITH THE  
AGREEMENT OF THE LOCAL AUTHORITY OR ARBORICULTURAL  
CONSULTANT**