



# AllAboutTrees

Arboricultural & Ecological Consultancy  
Chartered Arboriculturalists & Environmentalists

## Arboricultural Method Statement

19 West Meadows Road,

Cleadow




For

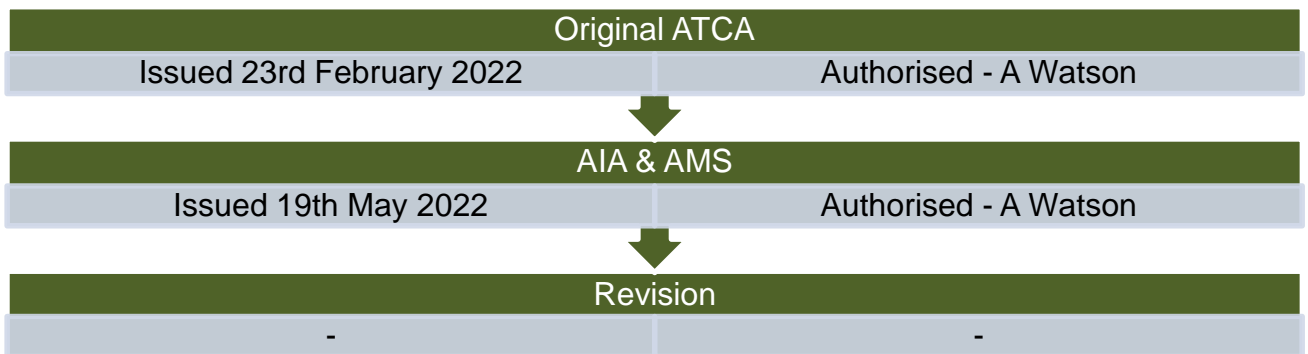
Mrs A Mulholland



# Document Verification



Document Title	<ul style="list-style-type: none"><li>•Arboricultural Method Statement For Trees At 19 West Meadows Road, Cleadon</li><li>•For Mrs A Mulholland</li></ul>
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## 1. Introduction

1.1 We are instructed by Mrs A Mulholland to provide an Arboricultural Method Statement (AMS) regarding the protection and management of the significant trees at 19 West Meadows Road, Cleadon.

1.2 This method statement is a reference document produced to ensure best practice in the management of the trees during the demolition and construction phases of the development and brings together all of the relevant information including the recommendations set out in British standard 5837:2012 – Trees in relation to design, demolition and construction. The method statement must be read in conjunction with our Arboricultural Impact Assessment dated 19<sup>th</sup> May 2021.

1.3 The method statement forms part of the specification and schedule of works to be issued to the contractor and may form part of the contract documentation.

1.4 This document should be kept on file at the site office and be available for inspection by relevant parties.

## 2. Protected Status Of Trees

2.1 Trees may be legally protected, this may either be in the form of a Tree Preservation Order (TPO) or that the trees are located within a Conservation area. In addition, some tree felling may require a felling licence from the Forestry Commission.

2.2 Potentially large penalties may be enforced for illegally carrying out works on protected trees. It is recommended that checks are made before any works are undertaken and no work should commence until permission has been granted. Please note that there are a number of exemptions from the requirement to obtain a felling licence including land on which full planning permission has been granted by the local authority, however this exemption does not cover land where only outline planning permission has been granted, or on land which has been allocated for residential development within local authority urban and local development plans.

2.3 Using online facilities AllAboutTrees have been able to ascertain with South Tyneside Council (the Local Planning Authority) on Wednesday 23<sup>rd</sup> February 2022 that the study area is outside of the Cleadon Conservation Area.

2.3.1 South Tyneside Council have confirmed, via e-mail, that there are no Tree Preservation Orders within the site.

### 3. Site Operations Prior To Any Construction Works

#### 3.1 Tree Works

3.1.1 The first arboricultural works on site will be the removal of all the conflicting vegetation:

- Trees 1-2
- Groups 2, 3, 5
- Sections of groups 1 & 6

which are identified on the Tree Protection Plan (TPP) by the broken black ring surrounding the tree centre and referred to in appendix 1 of this report. Groups (or sections of), to be removed have had their coloured infill and RPA removed / altered with a broken black ring placed adjacent to the group label.

3.1.2 The stumps may either be ground out using a stump grinding machine or removed as part of the ground excavation works if not situated within the root protection area of trees to be retained.

3.1.3 Details of any prescribed pruning works are included within Appendix 1 of this report. The tree works should wherever possible be carried out in accordance with BS3998:2010 Tree Work – Recommendations.

#### 3.2 Wildlife Habitats

3.2.1 As part of the survey the significant trees were inspected from ground level for signs of wildlife habitation, in particular birds and bats.

##### Bats

3.2.2 All UK bats and their roosts are protected by law. The legislation protecting bats are:

- The Wildlife & Countryside Act 1981 (WCA)
- Conservation of Habitats and Species Regulations 2017

For all countries of the UK, the legal protection for bats and their roosts may be summarised as follows:

You will be committing a criminal offence if you:

1. Deliberately\* capture, injure or kill a bat
2. Intentionally or recklessly disturb a bat in its roost or deliberately disturb a group of bats

3. Damage or destroy a bat roosting place (even if bats are not occupying the roost at the time)
4. Possess or advertise/sell/exchange a bat (dead or alive) or any part of a bat
5. Intentionally or recklessly obstruct access to a bat roost

*\*In a court, 'deliberately' will probably be interpreted as someone who, although not intending to capture/injure or kill a bat, performed the relevant action, being sufficiently informed and aware of the consequence his/her action will most likely have.)*

3.2.3 Penalties on conviction - the maximum fine is £5,000 per incident or per bat (some roosts contain several hundred bats), up to six months in prison, and forfeiture of items used to commit the offence, e.g. vehicles, plant, machinery.

3.2.4 No visual signs were found to indicate the presence of bats in the surveyed trees.

3.2.5 When carrying out tree works it is essential that the contractor or other competent person carries out a specific 'bats in trees risk assessment' which can be obtained from the 'Arboricultural Association' or the 'Bat Conservation Trust' (BCT). If evidence of bats is found work must stop immediately and Natural England Batline contacted (0845 1300 228). A further inspection may well be required by a licensed bat handler or roost visitor.

## **Birds**

3.2.6 In the UK, all wild birds, their nests and their eggs are protected by law.

In England, Scotland and Wales the legislation that protects wild birds is:

- The Wildlife and Countryside Act 1981
- The Countryside (or CRoW) Act 2000

3.2.7 No nesting birds were present at the time of inspection though given the scope of the site and the extent of vegetation potential exists for birds to nest and as such caution must be exercised.

3.2.8 As with bats the contractor has an obligation to carry out visual checks prior to works. Where possible tree works should be carried out in the period from August to the end of February in order to avoid the bird nesting season.

### **3.3 Protective Barrier Erection**

3.3.1 The protective barriers are to be erected prior to the commencement of site works including demolition, soil stripping or movement, bringing onto site of materials, supplies or machinery. Tree works can be undertaken prior to the erection of the barriers.

3.3.2 The barriers must be erected in the position indicated on the Tree Protection Plan (TPP) by the dark blue line and be constructed as per the following specification.

3.3.3 The barriers should be considered essential and should not be removed or altered without prior recommendation by an Arboriculturalist and approval of the local planning authority.

3.3.4 The barrier should consist of proprietary 2m tall welded mesh panels mounted on rubber or concrete feet. The panels must be joined together with a minimum of two anti-tamper couplings situated at least 1m vertically apart and installed uniformly throughout the barrier so that they can only be removed from inside the barrier. The panels must be supported by stabilising struts mounted on a block tray.

3.3.5 No fixing shall be made to any tree and all possible care must be taken to prevent damage to tree roots when locating the posts.

3.3.6 All types of barriers must be firmly attached to prevent movement by site personnel or vehicles and all-weather signs with the wording "Construction exclusion zone- keep out" should be attached.



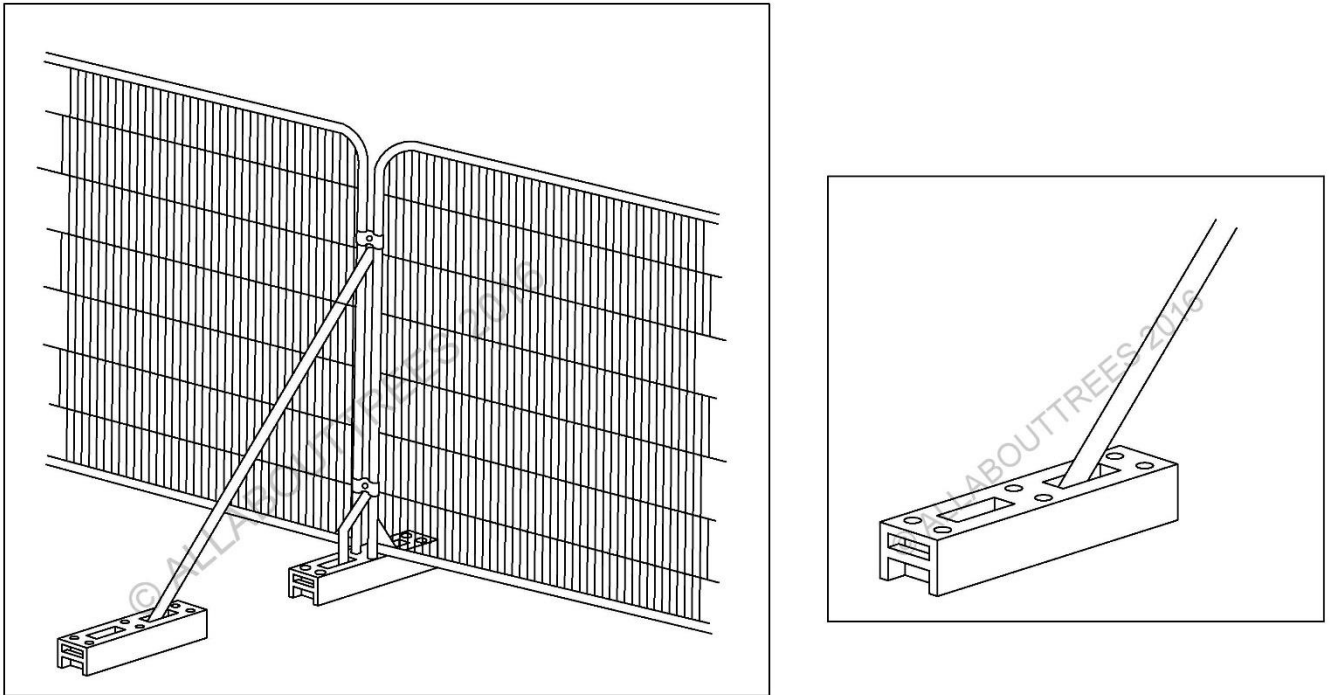


Figure 1 - Stabiliser strut mounted on block tray.



Figure 2 – An example of a barrier erected on a site



### **3.4 Location Of Site Compound & Storage Areas**

3.4.1 The contractor's site compound, storage & parking areas must be located outside of the root protection areas (RPAs) of the retained trees. This includes any trees which are located outside of the study area but not included within the survey.

3.4.2 All site storage areas, especially cement mixing and washing points for plant and vehicles must also be situated outside of the root protection areas (RPA). Where there is a possible risk of polluted water runoff heavy duty plastic sheeting and sand bags must be used to contain spillages and contamination.

## 4. Demolition & Construction Methodology

### 4.1 Demolition

4.1.1 The demolition work near the trees must be undertaken with great care with every effort made to avoid damage to aerial and underground portions of the tree. Roots frequently grow adjacent to, and underneath structures and surfacing and damage can occur when the roots are physically disturbed or the soil around them is compacted from the weight of machinery or material.

4.1.2 When demolishing structures near to trees the machine should ideally break the walls and roof into the footprint of the building (top-down pullback methodology) and avoid any debris falling into the root protection area. If this is not possible the section of the building adjacent to the tree will need to be demolished by hand.

4.1.3 Existing surfacing should be carefully lifted using either a long reach machine positioned outside of the root protection area or manually using hand tools. Surfacing is broadly defined as any hard surfacing used for vehicular access, parking or pedestrian pathways. Including tarmac, crushed stone, solid stone, compacted aggregate, concrete and timber decking, but excluding compacted soil with no hard covering.

In summary:

- Machines with long reach may be positioned outside of the root protection area (RPA) and used to demolish the building or carefully remove debris providing this does not disturb the RPA or the aerial portion of the tree
- Appropriate hand tools for manual removing debris include pneumatic or powered breaker, sledgehammer, crow or prying bar, pick, mattock, spade, shovel, trowel, fork or wheelbarrow. Secateurs and hand saw should be available to cut any exposed roots. The debris must be moved across existing hard surfacing or temporary ground protection thereby avoiding compaction of the soil.
- If appropriate the below ground structures should be left in place if their removal was to cause excessive root disturbance

## 4.2 Service Runs

4.2.1 It is assumed that the existing service runs will be exploited where possible, but if new works are required it is important that they comply with the National Joint Utilities Group (NJUG) 'Guidelines for the planning, installation, and maintenance of utility services in proximity to trees' and BS 5837:2012. The excavation of open trenches by machine will be unacceptable within the protective zone of any of the retained trees.

4.2.2 Wherever possible, services should be routed outside of any retained trees RPA. When this is not possible apparatus should be routed together in a common duct and any inspection chambers sited outside the RPA.

4.2.3 Acceptable techniques for the laying of services in order of preference are:

- **Trenchless-** by use of thrust boring or similar techniques. The pit excavations for starting and receiving the machinery should be located outside of the root protection area. To avoid root damage, the mole should run at a depth of at least 600mm. Use of external lubricants on the mole other than water (e.g. oil or bentonite) should be avoided.

Trenchless Solutions For Installation Of Underground Services					
Method	Accuracy (MM)	Bore <sup>(A)</sup> diameter (MM)	Maximum subterranean length (M)	Applications	Not suitable for
Micro tunnelling	<20	100 to 300	40	Gravity-fall pipes, deep apparatus, watercourse/ roadway under crossings	Low-cost projects due to relative expense
Surface-launched directional drilling	≈100	25 to 1200	150	Pressure popes, cables including fibre optic	Gravity fall pipes, e.g. drains and sewers <sup>(B)</sup>
Pipe ramming	≈150	150 to 2000	70	Any large-bore pipes and ducts	Rocky and other heavily obstructed soils
Impact moling <sup>(C)</sup>	≈50 <sup>(D)</sup>	30 to 180 <sup>(E)</sup>	40	Gas, water and cable connections, e.g. from street to property	Any application that requires accuracy over distances in excess of 5m.

- (A) Dependent upon strata encountered
- (B) Pit-launched directional drilling can be used for gravity fall pipes up to 20m in subterranean length
- (C) Impact moling (also known as thrust-bore) generally requires soft, cohesive soils.
- (D) Substantial inverse relationship between accuracy and distance

- (E) Figures given relate to single pass: up to 300mm bore achievable with multiple passes

4.2.4 If trenchless insertion is not feasible the alternatives are detailed below in order of preference.

- **Broken trench-** by using hand dug trench sections together with trenchless techniques. It should be limited to practical access and installation around or below the roots. The trench must be dug by hand (see following comments re continuous trenching) and only be long enough to allow access for linking to the next section. The open sections should be kept as short as possible.
- **Continuous trench-** the trench is excavated by hand and retains as many roots as possible. The surface layer is removed carefully and hand digging of the trench takes place. No roots over 2.5cm diameter or clumps of smaller roots (including fibrous) should be severed. The bark surrounding the roots must be maintained. Cutting of roots over 2.5cm diameter should not be attempted without the advice of the Project Arboriculturalist.

If roots have to be cut, a sharp tool (defined as spade, narrow spade, fork, breaker bar, secateurs, handsaw, post hole shoveller, hand trowel) should be used.

### Backfilling

4.2.5 Reinstatement of street works must comply with the code of practice New Roads and Streetworks Act 1991 (Specification for the reinstatement of openings in highways), but where tree roots are involved backfilling should be carefully carried out to avoid direct damage to retained roots and excessive compaction of the soil around them.

4.2.6 The backfill should incorporate an inert granular material mixed with top soil or sharp sand (not builder's sand) around the retained roots. This will allow a measure of compaction for resurfacing whilst creating an aerated zone around the roots.

4.2.7 Roots and in particular fine roots, are vulnerable to desiccation on exposure to air. The roots are at greatest risk when there are rapid fluctuations in the air temperature around them (especially winter diurnal temperatures). It is vitally important that the roots are covered with sacking whilst the trench is open. The sacking should be removed once the trench is backfilled.

## 5. Arboricultural Supervision

5.1 The following programme of supervision is proposed to assist in the preservation and protection of the retained trees during all aspects of the proposed development.

5.2 The supervision arrangements must be sufficiently flexible to allow for the supervision of all sensitive works as they occur. The Arboricultural Consultant's initial role is to liaise with the developer and the council to ensure that the appropriate protective measures are in place before any works commence on site and once the site is active monitor compliance with the Arboricultural conditions and advise on any tree problems that may arise.

Action	Programming	Extent of supervision	Nature of supervision
Pre-commencement meeting with site manager & Council tree officer	Before any site activity commences	Meeting on site  Review any updates to the proposal  Confirm extent of tree works and protective barrier position.	Site meeting & letter or email confirming results of meeting distributed to relevant parties.
Tree works meeting with tree works contractor	Prior to commencement of tree works	Meeting on site to confirm tree works specification and method of working	Site meeting & letter or email confirming results of meeting distributed to relevant parties.
Tree works undertaken  Finalising tree protection barrier installation	Before any plant enters site or demolition/construction work commences.	Confirm position of the protective barriers have been installed and comply with the Tree Protection Plan (TPP)  Provide photographs indicating completed tree protection	Site meeting & letter or email confirming results of meeting distributed to relevant parties.
Installation of services within root protection areas (if required)	Prior to installation of surfacing or services & during installation of surfaces and services	Meeting with contractor prior to installation and during installation of surfacing and services to ensure compliance with AIA	Site meeting & letter or email confirming results of meeting distributed to relevant parties.
Removal of protective barriers	Once construction activities have finished	Meeting with contractor for briefing before removal commences	Site meeting & letter or email confirming results of meeting distributed to relevant parties.



### 5.3 Site Management

5.3.1 It is the developer's responsibility to ensure that the details of the Arboricultural method statement and any agreed amendments are known and understood by all relevant site personnel. Copies of the agreed documents must be kept on site at all times and the site manager or other appropriate person must brief all personnel who could impact the trees on the specific tree protection requirements.

5.3.2 This should form part of the site induction procedure and be written into the appropriate site management documents.

For and on behalf of  
AllAboutTrees Ltd

Andrew Watson FLS MICFor CBiol MRSB FArborA CEnv LCGI  
-Chartered Arboriculturalist & Registered Consultant

# Appendix 1

Tree No.	Species Common Name <i>Latin Name</i>	Height (M)	Crown Spread (M)				Trunk Diameter (MM)	No. Of Stems	Height Of Lower Canopy (M)	First Significant Branch Position (M)	Age	Physiological Condition	Structural Condition	Root Protection Area Radii (M)	Estimated Remaining Contribution (Years)	Tree Quality Assessment	Comments	Maintenance	Bat Roost Potential	Ultimate Size For Species (M)		Priority
			N	S	E	W														Height	Spread	
1	Lawson Cypress <i>Chamaecyparis lawsoniana</i>	3	1	1	0.5	1	80	1	1.5	1.5 S	Young	Fair	Fair	1	10+	C - Low	Crown distorted due to group pressure. Crown lifted in past.	This tree is in conflict with the proposed design and will need to be removed to facilitate the development.	None	18	4	A
2	Lawson Cypress <i>Chamaecyparis lawsoniana</i>	3.5	1	1	0.5	0.5	80	1	1.5	1.5 S	Young	Fair	Fair	1	10+	C - Low	Crown distorted due to group pressure. Crown lifted in past. Positioned approximately 30cm from garage, branches rubbing on eaves.	This tree is in conflict with the proposed design and will need to be removed to facilitate the development.	None	18	4	A
3	Tree removed following initial survey																					
4	Tree removed following initial survey																					
5	Hawthorn <i>Crataegus monogyna</i>	7.5	1	3	0	3	230	1	2.5	3.5 W	Mature	Fair	Fair	2.8	10+	C - Low	Asymmetric crown spread. Crown distorted due to group pressure. Crown lifted in past. Multiple saw wounds on lower stem.	This tree is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP. No tree works required at the present time.	None	10	8	-
6	Sycamore <i>Acer pseudoplatanus</i>	11	4.5	4	3.5	5.5	530	1	2	3.5 N	Middle aged	Fair	Fair	6.4	20+	B - Moderate	Small diameter deadwood retained in canopy. Historic fire damage to east flank of tree.	This tree is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP. No tree works required at the present time.	None	22	15	-
7	Japanese Maple <i>Acer palmatum</i>	4.5	2.5	2	2	2.5	191	2	2	1.5 NW	Middle aged	Fair	Fair	2.3	20+	B - Moderate	Ivy starting to climb the stem. Stem divides below 1.5m.	This tree is retainable and will be adequately protected by the position of the protective barrier as	None	6	7	-

Tree No.	Species		Crown Spread (M)				Trunk Diameter (MM)	No. Of Stems	Height Of Lower Canopy (M)	First Significant Branch Position (M)	Age	Physiological Condition	Structural Condition	Root Protection Area Radii (M)	Estimated Remaining Contribution (Years)	Tree Quality Assessment	Comments	Maintenance	Bat Roost Potential	Ultimate Size For Species (M)		Priority
	Common Name	Latin Name	N	S	E	W														Height (M)	Height	
																	indicated by the blue line on the TPP.  No tree works required at the present time.					
8	Tree removed following initial survey																					
9	Tree removed following initial survey																					
10	Tree removed following initial survey																					
11	Tree removed following initial survey																					
12	Tree removed following initial survey																					
13	Silver Birch <i>Betula pendula</i>	11	2.5	2.5	3	2.5	200	1	2	2.5 W	Middle aged	Fair	Fair	2.4	40+	B - Moderate	Located in neighbouring property.  Located outside site boundary.  Remote assessment, some dimensions estimated.  No major visible defects.	This tree is retainable and will be adequately protected by the position of the existing boundary fence.  No tree works required at the present time.	None	18	9	-
14	Beech <i>Fagus sylvatica</i>	7	2.5	1.5	2.5	1.5	150	1	0.5	0.5 S	Middle aged	Fair	Fair	1.8	40+	C - Low	No major visible defects.  Single tree in hedge line allowed to grow.	This tree is retainable and will be adequately protected by the position of the existing boundary fence.  No tree works required at the present time.	None	20	16	-
15	Norway Maple <i>Acer platanoides</i>	8	3	3	3	3	160	1	2.5	2.5 W	Middle aged	Fair	Fair	1.9	40+	B - Moderate	Located in neighbouring property.  Located outside site boundary.  Remote assessment, some dimensions estimated.  Stem divides above 1.5m.	This tree is retainable and will be adequately protected by the position of the existing boundary fence.  No tree works required at the present time.	None	18	12	-
16	Beech <i>Fagus sylvatica</i>	9	1	1.5	2	2	180	1	5	4 NW	Middle aged	Fair	Fair	2.2	20+	C - Low	Located in neighbouring property.  Located outside site boundary.  Remote assessment, some dimensions estimated.	This tree is retainable and will be adequately protected by the position of the existing boundary fence.  No tree works required at the present time.	None	20	13	-

Tree No.	Species Common Name Latin Name	Height (M)	Crown Spread (M)				Trunk Diameter (MM)	No. Of Stems	Height Of Lower Canopy (M)	First Significant Branch Position (M)	Age	Physiological Condition	Structural Condition	Root Protection Area Radii (M)	Estimated Remaining Contribution (Years)	Tree Quality Assessment	Comments	Maintenance	Bat Roost Potential	Ultimate Size For Species (M)		Priority
			N	S	E	W														Height	Spread	
																Asymmetric crown spread. Codominant stem removed.						
<b>Groups</b>																						
1	Lawson Cypress <i>Chamaecyparis lawsoniana</i>	4	-	-	-	-	200	1	-	-	Middle aged	Fair	Fair	2.4	20+	C - Low	Garden boundary group. Dominated by various cypress cultivars, trimmed to a variety of shapes and sizes. Measurements based on larger trees in group. Shrubs include berberis, fuchsia, cotoneaster, euonymus, Buddleja and hydrangea among others. Ivy established in group.	A section of this group is in conflict with the proposed design and will need to be removed to facilitate the development. The remainder is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP. No tree works required at the present time.	None	12	3	A
2	Mixed shrubs	1	-	-	-	-	120	1	-	-	Middle aged	Fair	Fair	1.4	10+	C - Low	Mixed shrubs adjacent to path. Includes juniper, lavender, periwinkle, thyme and Euonymus.	This group is in conflict with the design proposals and will need to be removed to facilitate the development.	None	6	6	A
3	Mixed shrubs	1.5	-	-	-	-	100	1	-	-	Middle aged	Fair	Fair	1.2	20+	C - Low	Mixed shrub group in island adjacent house, bordered by paths and driveway. Includes Lawson cypress cultivar, Pieris, Hydrangea, lavender and box among others.	This group is in conflict with the design proposals and will need to be removed to facilitate the development.	None	6	3	A
4	Lawson Cypress <i>Chamaecyparis lawsoniana</i>	1	-	-	-	-	100	1	-	-	Middle aged	Fair	Fair	1.2	20+	C - Low	Linear group abutting driveway. Tidy and maintained. Range of cultivars present. Rose planted in gaps. 1x dead individual.	This group is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP. Remove dead tree.	None	12	4	A

Tree No.	Species Common Name Latin Name	Height (M)	Crown Spread (M)				Trunk Diameter (MM)	No. Of Stems	Height Of Lower Canopy (M)	First Significant Branch Position (M)	Age	Physiological Condition	Structural Condition	Root Protection Area Radii (M)	Estimated Remaining Contribution (Years)	Tree Quality Assessment	Comments	Maintenance	Bat Roost Potential	Ultimate Size For Species (M)		Priority
			N	S	E	W														Height	Spread	
5	Western Red Cedar Lawson Cypress Portugal Laurel  <i>Thuja plicata,</i> <i>Chamaecyparis lawsoniana,</i> <i>Prunus lusitanica</i>	3.5	-	-	-	-	120	1	-	-	Middle aged	Fair	Fair	1.4	20+	C - Low	Maintained shrubs / small trees adjacent to dwelling.  Includes Rhododendron, Pieris and Cotoneaster.  Heights range from <1.0m to 3.5m.	This group is in conflict with the design proposals and will need to be removed to facilitate the development.	None	18	6	A
6	Cherry Plum Hazel Yew Lawson Cypress Apple Common Juniper  <i>Prunus cerasifera,</i> <i>Corylus avellana, Taxus baccata,</i> <i>Chamaecyparis lawsoniana,</i> <i>Malus,</i> <i>Juniperus communis</i>	6.5	-	-	-	-	150	1	-	-	Middle aged	Fair	Fair	1.8	20+	C - Low	Mixed planting on garden boundary.  Ivy established in group.  Tidy and maintained.  Smaller shrubs include lavender, periwinkle, hebe, mahonia, Euonymus and Buddleja.	A section of this group is in conflict with the proposed design and will need to be removed to facilitate the development. The remainder is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP.  No tree works required at the present time.	None	18	6	A
7	Holly Lawson Cypress Hawthorn  <i>Ilex aquifolium,</i> <i>Chamaecyparis lawsoniana,</i> <i>Crataegus monogyna</i>	2.5	-	-	-	-	100	1	-	-	Middle aged	Fair	Fair	1.2	20+	C - Low	Large shrubs / small trees.  Ivy established in group.	This group is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP.  No tree works required at the present time.	None	18	6	-
8	Sycamore Cherry Plum  <i>Acer pseudoplatanus,</i>	10	-	-	-	-	300	1	-	-	Middle aged	Fair	Fair	3.6	40+	B - Moderate	Located in neighbouring property.  Located outside site boundary.	This group is retainable and will be adequately protected by the position of the protective barrier as	None	22	20	-



Tree No.	Species		Height (M)	Crown Spread (M)				Trunk Diameter (MM)	No. Of Stems	Height Of Lower Canopy (M)	First Significant Branch Position (M)	Age	Physiological Condition	Structural Condition	Root Protection Area Radii (M)	Estimated Remaining Contribution (Years)	Tree Quality Assessment	Comments	Maintenance	Bat Roost Potential	Ultimate Size For Species (M)		Priority
	Common Name	Latin Name		N	S	E	W														Height	Spread	
	<i>Prunus cerasifera</i>																Remote assessment, some dimensions estimated.	indicated by the blue line on the TPP.  No tree works required at the present time.					
9	Leyland Cypress Lawson Cypress Yew  X <i>Cupressocyparis leylandii</i> , <i>Chamaecyparis lawsoniana</i> , <i>Taxus baccata</i>		4.5	-	-	-	-	150	1	-	-	Middle aged	Fair	Fair	1.8	40+	C - Low	Maintained planting on garden boundary.  Also includes Rhododendron, berberis, Pieris, spotted laurel, cotoneaster and pyracantha.  Measurements based on larger trees in group.	This group is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP.  No tree works required at the present time.	None	18	6	-
<b>Hedges</b>																							
1	Beech <i>Fagus sylvatica</i>		2.5	-	-	-	-	120	1	-	-	Middle aged	Fair	Fair	1.4	40+	C - Low	Tidy and maintained hedge on site boundary.	This hedge is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP.  No tree works required at the present time.	None	20	20	-
2	Mixed shrubs		1.5	-	-	-	-	100	1	-	-	Middle aged	Fair	Fair	1.2	20+	C - Low	Internal hedge.  Mixed species including Ionicera, cotoneaster and ivy.  Tidy and maintained.	This hedge is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP.  No tree works required at the present time.	None	5	5	-

Tree No.	Species		Height (M)	Crown Spread (M)				Trunk Diameter (MM)	No. Of Stems	Height Of Lower Canopy (M)	First Significant Branch Position (M)	Age	Physiological Condition	Structural Condition	Root Protection Area Radii (M)	Estimated Remaining Contribution (Years)	Tree Quality Assessment	Comments	Maintenance	Bat Roost Potential	Ultimate Size For Species (M)		Priority
	Common Name	Latin Name		N	S	E	W														Height	Spread	
3	Western Red Cedar	<i>Thuja plicata</i>	2.5	-	-	-	-	100	1	-	-	Middle aged	Fair	Fair	1.2	40+	C - Low	Internal hedge. 1x moribund tree to north of hedge. Tidy and maintained.	This hedge is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP.  Remove moribund tree.	None	18	6	A
4	Berberis	<i>Berberis darwinii</i>	1.5	-	-	-	-	100	1	-	-	Middle aged	Fair	Fair	1.2	40+	C - Low	Internal hedge. Tidy and maintained.	This hedge is retainable and will be adequately protected by the position of the protective barrier as indicated by the blue line on the TPP.  No tree works required at the present time.	None	5	5	-

# Appendix 2(1)

## Glossary of Terms

- 1 Reference number:** An individual identifying number
- 2 Species:** Species identification is based on visual field observations and lists the common name. In some cases the botanical name will be used where there is no common alternative. On in-depth surveys the botanical name only may be used
- 3 Height:** Height is estimated to the nearest metre. On computerised surveys this may be within a range of heights. When measured height is required, a clinometer is used to measure to the nearest metre
- 4 Diameter:** Trunk diameter measured at 1.5 metres from ground level to the nearest centimetre. In some surveys this is indicated as a range
- 5 Spread:** Measurement of canopy from the trunk to the nearest metre in four directions, North, South, East, and West in metres
- 6 Lower crown Clearance:** Height in metres of crown clearance above adjacent ground level
- 7 Age:** Either an estimate (or statement if accurately known) of the age of the tree, classified as:
  - Y** = Young tree, established tree usually up to one third of expected ultimate height & spread
  - MA** = middle aged, usually between one third and two thirds of ultimate height & spread
  - M** = Mature, more or less at full height but still increasing in girth & spread
  - OM** = Over mature, grown to full size and becoming senescent,
  - V** = Veteran tree, individuals surviving beyond the typical age range for the species
- 8 Physiological Condition:** Good = Healthy tree with good vitality,  
Fair = Moderate health and vitality normal or slightly less for species and age  
Poor = Poor shape or form - signs of decline in crown, may have structural weakness.  
Dead = dead or dying tree
- 9 Structural Condition:** Good = No visible structural defects  
Fair = Only minor structural defects  
Poor = Defects which may need to be rectified or regularly monitored  
Remove = Severe defects which may result in imminent failure or collapse
- 10 Management Recommendations:** General comments on the condition of the tree or group and any action required. potential for wildlife habitats
- 11 Estimated Remaining Contribution:** Safe Useful Life Expectancy (SULE): in some cases the age ranges are modified  
Short: 0 – 10years                      Medium: 10– 20 Years  
Intermediate: 20-40                      Long: 40 + years
- 12 Tree Quality:** Assessment of tree quality see following cascade chart for details
- 13 Priority:** A - Works to achieve an acceptable level of safety or required to facilitate the development  
B - Works to achieve higher levels of arboricultural management.  
C - To improve the aesthetic appearance.
- 12 Ultimate Size:** Taken from Arboriculture Research Note 8490ARB or NHBC Standards Chapter 4.2 as appropriate The Normal Ultimate Height in an Urban Situation in metres.  
Ultimate spread of the Crown in metres.
- 13 Root Protection Area:** The distance at which the protective barrier should be erected measured in radii from the centre of the trunk in metres.
- 14 Pruning:** Pruning shall be defined as the removal of living or dead parts of a plant by the Contractor. Such parts may be soft growth, twigs, branches, limbs or sections of the tree trunk. The cut material may vary from small to large in size.

- 15 Crown Cleaning:** Cleaning out is defined as the removal of dead, dying or diseased branchwood, broken branches or stubs left from previous tree surgery operations (see also 16 Deadwooding) together with all unwanted objects, which may include ivy (if specified) and/or other climbing plants, nails, redundant cable bracing, rope swings, tree houses and windblown rubbish from the tree, and any such debris from any cavities within the tree.
- 16 Deadwood Removal:** Dead-wooding shall be defined as the removal of all dead and dying branches and limbs from the tree.
- 17 Crown Lifting:** Crown lifting shall be defined as the removal of all soft growth and branches or parts thereof which are below or which extend below the height specified in the tender documents. It is recognised that the resultant canopy base might not be one single level but might be stepped to allow for different clearances, for example where a tree overhangs both the footway and the road where different height clearances are required.
- 18 Crown Reduction:** Crown reduction shall be defined as the reduction of the complete outline dimension of the canopy, from the tips of limbs and branches to the main trunk, by pruning growth to an acceptable branch, twig or but to leave a flowing silhouette.

## Appendix 2(11) Cascade Chart For Assessing Tree Quality

Category and definition  Trees to be considered for retention	Criteria – Subcategories			Identification on plan
	1. Mainly arboricultural values	2. Mainly landscape values	3. Mainly cultural values, including conservation	
<p><b><u>Category High = A</u></b></p> <p><b>Trees of high quality</b> with an estimated remaining life expectancy of at least 40 years</p>	Trees that are particularly good examples of their species, especially, if rare or unusual, or those that are essential components of groups, or of formal or semi-formal arboricultural features (e.g. the dominant and/or principal trees within an avenue)	Trees, groups or woodlands of particular visual importance as arboricultural and/or landscape features	Trees, groups or woodlands of significant conservation historical, commemorative or other value (e.g. veteran trees or wood – pasture)	Green
<p><b><u>Category Moderate = B</u></b></p> <p><b>Trees of moderate quality</b> with an estimated remaining life expectancy of at least 20 years</p>	Trees that might be included in category A, but are downgraded because of impaired condition (e.g. presence of significant though remediable defects including unsympathetic past management and storm damage), such that they are unlikely to be suitable for retention for beyond 40 years; or trees lacking the special quality necessary to merit the category A designation	Trees present in numbers, usually growing as groups or woodlands, such that they attract a higher collective rating than they might as individuals; or trees occurring as collectives but situated so as to make little visual contribution to the wider locality	Trees with material conservation or other cultural value	Blue
<p><b><u>Category Low = C</u></b></p> <p><b>Trees of low quality</b> with an estimated remaining life expectancy of at least 10 years; or young trees with a stem diameter below 150mm</p>	Unremarkable trees of very limited merit or such impaired condition that they do not qualify in higher categories	Trees present in groups or woodlands, but without this conferring on them significantly greater collective landscape value, and/ or trees offering low or only temporary/transient landscape benefits	Trees with no material conservation or other cultural benefits	Yellow
<p><b><u>Category = U Trees unsuitable for retention</u></b></p> <p>Those of such a condition that they cannot realistically be retained as living trees in the context of the current land use for longer than 10 years</p>	<p>NOTE Whilst C category trees will usually not be retained where they would impose a significant constraint on development, young trees with a stem diameter of less than 150mm should be considered for relocation</p> <ul style="list-style-type: none"> <li>• Trees that have a serious, irremediable, structural defect, such that their early loss is expected due to collapse, including those that will become unviable after removal of other U category trees (i.e. where, for whatever reason, the loss of companion shelter cannot be mitigated by pruning)</li> <li>• Trees that are dead or are showing signs of significant, immediate and irreversible overall decline</li> <li>• Trees infected with pathogens of significance to the health and/or safety of other trees nearby (e.g. Dutch elm disease) or very low quality trees suppressing adjacent trees of better quality</li> <li>• Habitat reinstatement may be appropriate (e.g. U category trees used as a bat roost- installation of bat box in nearby tree)</li> </ul>			Red





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