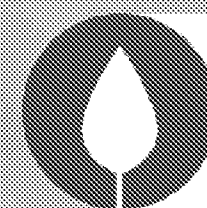


ARBORICULTURAL METHOD STATEMENT

Land at Ford Road
Arundel

May 2022



Barton Hyett Associates
Arboricultural Consultants

Summary table		
Site Name:	Land at Ford Road Arundel	
Project reference:	2588	
Site Address:	Former Electricity Sub-station, Ford Road, Arundel	
Nearest Postcode:	BN18 9DX	
Central Grid reference:	TQ 01279 06728	
Local Planning Authority:	Arun District Council	
Planning Reference:	AB/88/19/PL	
Relevant planning condition(s):	Conditions 14, 15, 16 and 17.	
Statutory Controls:	Tree Preservation Order	Conservation Area
	Yes - TPO11/84/AB - G4. which is understood to protect T1, T5, T6, T7 and poplars within G2 of the survey.	No
Tree Retention/ Removal and Protection Plan:	BHA_363_02A_TRR&P	
Contact details:	Client/developer - Stuart Greenwood, Oakford Homes Site Manager - TBC Project Arboriculturist - Richard Hyett - Barton Hyett Associates - 07741 247 210 - email: richard@barton-hyett.co.uk Tree Officer - Mark Warwick - Arun District Council (ADC) - 01903 737974 - email: mark.warwick@arun.gov.uk	
Report author:	Ian Monger. MSc, BSc (Hons), MArborA	
Checked by:	Richard Hyett. MSc, BSc (Hons), MArborA, MICFor	
Date of issue:	11.05.2022	

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REVISIONS:

Report reference	Date	Revision	Prepared by	Approved by	Comments
BHA_2588_AMS	11.05.2022	-	IM	RH	First Issue

1. INTRODUCTION

- 1.1. Barton Hyett Associates Ltd have been instructed by Oakford Homes to survey trees located on land at Ford Road, Arundel ('the site') in accordance with the recommendations of British Standard 5837:2012 'Trees in relation to design, demolition and construction - recommendations', and to use the survey information to produce an Arboricultural Method Statement (AMS).
- 1.2. This AMS has been prepared to meet the requirements of Conditions 14, 15, 16 and 17 in relation to planning permission AB/88/19/PL for the construction of 38 No. residential apartments along with access, off-street parking, amenity space & enhancements to the local footpath network.
- 1.3. **Conditions 14, 15, 16 and 17** of the planning permission states:

Condition 14 - 'Prior to the commencement of development a tree protection scheme shall be submitted to and approved, in writing, by the Local Planning Authority and the details therein agreed shall be maintained at all times as specified. The agreed scheme must be in place prior to commencement of works and of particular note is the protection of the offsite Pedunculate Oak T8 and the adjacent trees whose root protection areas fall within the construction zone. This should be in accordance with BS 5837:2012 'Trees in relation to construction'

'Reason: In the interests of amenity and of the environment of the development in accordance with policy DM1 of the Arun Local Plan. This is required to be a pre-commencement condition because these details have to be agreed and in place before any work commences'.

Condition 15 - 'Prior to the commencement of development including alterations to existing ground levels takes place the Arboricultural Expert representing the site owner(s) will provide the Local Planning Authority with a brief report and photographic evidence to demonstrate that all protective fencing has been inspected to verify it is 'Fit for Purpose' as required under British Standard 5837:2012 and has been erected and positioned exactly as shown on the Tree Retention/Removal & Protection Plan, dwg.no. BHA_363_02, dated 23/05/2019.'

'Reasons: To comply with BS5837 and to ensure that retained trees are afforded due respect and appropriate levels of protection such that their ongoing health and vitality is not compromised, and they can continue to enhance the landscape and amenity of the area.'

Condition 16 - 'All activity at the site is to be carried out in strict accordance with: - Arboricultural Survey, Impact Assessment and Protection Plan, ref. O.2588, May 2019.

- Prior to any works associated with the planned enhancement of footway link bisecting the root

protection area of T05 sycamore, a Method Statement prepared by an Arboricultural Expert must be submitted that stipulates how this can be achieved without adverse impact on tree roots. Written approval and confirmation of acceptance of this Methodology must be issued before any works are commenced out on site.

If there is deemed to be a need for any Utility Service Route connections to bisect retained tree Root Protection Areas/Zones, then prior to their installation a Method Statement prepared by an Arboricultural Expert must be submitted that stipulates how this can be achieved without adverse impact on tree roots. Written approval and confirmation of acceptance of this Methodology must be issued before any works are commenced out on site.'

'Reasons: To comply with BS5837 and to ensure that retained trees are afforded due respect and appropriate levels of protection such that their ongoing health and vitality is not compromised, and they can continue to enhance the landscape and amenity of the area.'

Condition 17 - 'Any tree pruning considered essential to enable the agreed development must meet the requirements of BS3998:2010 Tree work - Recommendations:

- Where whole branches are to be removed and final cuts made close to the trunk or branch union they are to be made as shown in Figure 2 of BS3998:2010
- Where branches are to be shortened back the final cuts are to be made at the correct angle shown in BS3998:2010 and adjacent to a live bud or lateral.'

'Reasons: In the interest of continued health and vitality of trees and to accord with current industry guidelines and sound arboricultural practice.'

- 1.4. This report includes the AMS (**Section 2**), Tree Removal/Retention and Protection Plan (**Section 3**). The tree survey schedule is also included (**Section 4**) for reference.

Richard Hyett
Chartered Arboriculturist

LAND AT FORD ROAD ARUNDEL

1. PURPOSE

- 1.1. The aim of this Arboricultural Method Statement (AMS) is to prevent and/or minimise the impacts of site operations on retained trees during construction at the site. It gives step-by-step guidance and specifications for works which have the potential to result in loss of or damage to trees.
- 1.2. This AMS must be read with reference to the Tree Removal/Retention and Protection Plan (**Section 3**).

2. KEY PERSONNEL AND INDIVIDUAL RESPONSIBILITIES

- 2.3. The Client shall hold overall responsibility for the project and shall appoint professionals and delegate responsibility in relation to the Scheme of Tree Protection as follows:
- 2.4. The Project Site Manager shall hold the responsibility to ensure that all key contractors and all other persons working on-site have a responsibility to be aware of trees and to abide by tree protection procedures set out within the AMS.
- 2.5. The Project Arboriculturist (as appointed) shall be responsible for independently monitoring/supervising the effectiveness of tree protection at regular intervals and report all findings in writing back to the client, the project site manager and the local planning authority. He/she shall also be instructed to provide additional advice should unforeseen circumstances develop. He/she must hold a recognised qualification in arboriculture to NQF Level 4 or higher.
- 2.6. Other appointed individuals and their contact information shall be recorded as part of the on-site pre-commencement site meeting.

3. HOW THE AMS MUST BE USED

- 3.1. The AMS must be used as a reference source for site operatives in order to guide tree-related aspects of the demolition and construction process. A precautionary approach is required.
- 3.2. Condition 15 specifies that an active level of arboricultural monitoring will be required and that sign off of tree protection measures is required. The upgrade of the offsite footpath will require a watching brief, or at least a pre-commencement meeting. A brief summary of the principles of tree protection on development sites is included in **Section 5**.
- 3.3. The AMS must be referred to by site managers during the construction operation itself. A copy of this document must, therefore, be kept available in the main Site Office for quick and easy reference.

4. SITE INDUCTION

- 4.1. Prior to commencing relevant works on site, all site operatives must be briefed by the Site Manager in relation to site procedures and rules that relate to retained trees as well as the content of the AMS. A 'tree awareness' site induction form is provided in **Section 6** to assist with this.
- 4.2. The site operations must be sequenced in accordance with the over-arching timetable of work stages set out within the AMS. Should any change to the sequence of operations be necessary, or if any other incidents occur, the Project Arboriculturist must be consulted. The Project Arboriculturist shall then evaluate any potential arboricultural impacts that could arise and specify additional tree protection/remediation measures as required. Confirmation that the proposed changes are acceptable within the context of relevant planning permission must be obtained in writing from the local planning authority prior to any new operations on site.

- 4.3. Where site operations have the potential to result in more substantial impacts on retained trees, an arboricultural watching brief shall be required.

5. WORK PHASES

- 5.1. It is anticipated that arboricultural working methods will require a significant degree of pre-planning so that conflicts with construction phases and activities can be avoided. The sequence of work will depend to a great degree on construction phasing and the details of the CEMP. Work sequencing is likely to remain dynamic throughout the project to respond to resource availability and external factors such as the weather etc. The following is an example sequencing of work:

1. Pre-commencement site meeting
2. Tree removals and facilitation pruning
3. Erection of temporary tree protection barriers
4. Creation of site access
5. Main construction phase
6. Upgrade of pedestrian footpath from access to the River Arun
7. Removal of temporary tree protection barriers
8. Final landscaping including tree planting.

6. CONSTRUCTION PLANNING

- 6.1. The Project Arboriculturist will remain on hand in an advisory role to answer any questions relating to tree protection that may arise during construction planning or during the build phases.
- 6.2. The Project Arboriculturist should be consulted if any conflict with the CEMP or other approved construction schemes that may affect retained trees is identified during planning or construction stages.

7. PRE-COMMENCEMENT SITE MEETING

- 7.1. The purpose of the meeting is to enable all relevant parties within the development team to meet, to be aware of the requirements of the AMS, and to agree a coordinated approach to the project.
- 7.2. The meeting shall be pre-arranged, and the Local Planning Authority Tree Officer shall be given five working days' written notice and invited to attend.
- 7.3. Required attendees:
 - Site project manager
 - Project arboriculturist
 - Contractors (including arborist) and other relevant parties
 - LPA Tree Officer (optional)
- 7.4. Matters to be addressed/discussed:
 - Identification of persons present and exchange of contact information
 - Familiarisation with all aspects of the AMS
 - Familiarisation with the site in relation to the AMS
 - Any outstanding Tree removals (as shown on the approved TRR) and facilitation pruning
 - Installation of tree protection barriers
 - Removal of existing site perimeter security fence and timing
 - Installation of site access
 - Installation of 'No dig' path upgrade
 - Forthcoming monitoring or on-site watching brief visits - dates/times and method of communicating to arrange visit
- 7.5. The Project Arboriculturist shall provide written confirmation to the Local Planning Authority Tree Officer (if not in attendance) that the meeting has occurred and that specified matters have been addressed.
- 7.6. This AMS and the TRR&P will be revised following the meeting and any subsequent meetings that require adjustments to the approved document. Where any revision to this AMS is made, the approval of ADC to any amendments will be sought before work proceeds.
- 7.7. **NB:** As part of the former land owners obligations to hand over the site to Oakford Homes in a safe condition, the vegetation within the site (including G3) had to be cleared and the top 500mm of material (concrete, soil etc) that had the potential to be contaminated had to be removed from site and replaced with clean back fill material. The current condition of the site is shown in Image 1 overleaf.



Image 1: looking south west across the site towards the adjacent existing dwelling and showing the clean backfill material imported by the previous owner.

8. ARBORICULTURAL MONITORING AND CONTINGENCY PLANS

- 8.1. The Project Arboriculturist will remain on hand in an advisory role and will intervene should a request be made.
- 8.2. In the event of unforeseen incidents occurring that may adversely affect or threaten the welfare or security of the trees, the resident Site Manager shall inform the Project Arboriculturist at the earliest opportunity and not more than one working day following the incident.
- 8.3. The Project Arboriculturist will visit the site to inspect and assess the circumstances and make appropriate recommendations. The Local Planning Authority Tree Officer will be informed by the Project Arboriculturist of such incidents, and recommendations will be submitted for approval by the Local Planning Authority; initially verbally, and then in writing. A record of any emergency incidents and works shall be maintained by the Project Arboriculturist.
- 8.4. Incidents which may merit such contingency plans include:
 - Accidental/unauthorised damage to the branches, roots or trunk of trees
 - The spillage of chemicals within or adjacent to a Root Protection Area
 - The discharge of toxins/waste within or adjacent to a Root Protection Area
 - The unscheduled breaching of a tree protective barrier or Construction Exclusion Zones.
- 8.5. The following stages of work are recommended for supervision/monitoring (see table on following page):

ARBORICULTURAL METHOD STATEMENT (AMS)

LAND AT FORD ROAD ARUNDEL

Stage	AMS section	Task	Description	Compliance action
1	(7)	Pre-commencement site meeting	Pre-commencement meeting required between Site Manager (and other client representatives), Project Arboriculturist, tree surgery contractor and LPA tree officer (optional) to agree sequencing of work phases, tree protection principles and barrier locations, tree and hedgerow removals and pruning.	Project Arboriculturist to keep record of meeting and agreed outcomes and circulate to team (and LPA tree officer if not in attendance) .
2	(9)	Tree removals and facilitation pruning	1. Arboricultural contractor to remove any remaining trees stumps approved for removal (works understood to have already been undertaken). 2. Facilitation pruning (crown lifting to provide suitable ground clearance) of trees within G1. 3. Any additional works will require either written approval of ADC	1. Photographs taken by site manager during work and upon completion. 2. Project Arboriculturist to append to final site monitoring report.
3	(10)	Erection of temporary tree protection barriers	1. Set up barriers to locations and specification shown on TRRP. 2. Fix A3 all-weather notices to tree protection barriers at 10m intervals. Notices must read 'CONSTRUCTION EXCLUSION ZONE - NO ENTRY'. 3. Project Arboriculturist to confirm/record that barriers are correctly positioned and that they are to specification and fit for purpose.	1. Photographs taken by site manager of completed fencing. 2. Project Arboriculturist to attend site to sign off fencing or carry out video call with site manager. 3. Project Arboriculturist to provide report and photos to ADC in line with requirement of Condition 15.
4	(11)	Creation of site access	1. Timing of work will depend on the overarching work phasing & schedule and will be discussed and agreed in detail at the pre-commencement meeting. 2. No excavations within RPAs will be carried out unless under Arboricultural supervision.	1. Watching brief and specific pre-commencement meeting on access (if required and agreed at main pre-commencement meeting) 2. Photographs taken by site manager/Project Arboriculturist during work and upon completion. 3. Project Arboriculturist to append photographs to final site monitoring report.

Stage	AMS section	Task	Description	Compliance action
5	(12)	Main construction phase	1. Tree protection barriers must remain in situ. 2. They will remain in situ until all construction work on site has been completed.	1. Tree protection measures checked at the beginning and end of each working day. 2. Photograph site operations at suitable intervals (fortnightly) to document work practices. 3. Project Arboriculturist to be on hand to assist with any specific matters arising. 4. Project Arboriculturist to keep site monitoring report updated, including any corrective actions (if required).
6	(13)	Upgrade of pedestrian footpath form access to the River Arun	1. Timing of work will depend on the overarching work phasing & schedule and will be discussed and agreed in detail at the pre-commencement meeting. 2. No excavations within RPAs will be carried out. 3. If specified, Cellular Confinement System to be installed inline with manufacturers instructions.	1. Watching brief or specific pre-commencement meeting on path (if required and agreed at main pre-commencement meeting) 2. Photographs taken by site manager during work and upon completion. 3. Project Arboriculturist to append photographs to final site monitoring report.
7	(14)	Removal of temporary tree protection barriers	Remove tree protection barriers ensuring that there is no machinery access within the former CEZ.	1. Project Arboriculturist to attend site to sign off on fencing removal or carry out video call with site manager. 2. Five working days written notice shall be given to ADC prior to the removal of tree protection measures. 3. Remove barriers.
8	(15)	Final landscaping including tree planting	1. Final design requirements to be specified in approved landscape scheme. 2. Follow all AMS general information. 3. No excavation or rotavation to be carried out within former CEZs except as approved.	1. Photographs taken by site manager during work and upon completion. 2. Project Arboriculturist to append photographs to final site monitoring report.

LAND AT FORD ROAD ARUNDEL

9. TREE REMOVALS AND FACILITATION PRUNING

- 9.1. All tree work will be discussed and agreed in detail at the pre-commencement meeting. The approved removals are shown shaded RED on drawing BHA_363_02A_TRR&P in **Section 3**.
- 9.2. **NB:** As part of the former land owners obligations to hand over the site to Oakford Homes in a safe condition, the vegetation within the site (including G3) has already been cleared.
- 9.3. The following tree pruning work will be carried out before the installation of the tree protection barriers.

Tree ID	Species	Ave Stem diameter (cm)	BS5837 category	Pruning work
G1	Sycamore	30	B2	Crown lift (if required) to provide circa 5m of ground clearance over Ford Road and site access road.

- 9.4. All tree work will be carried out by a suitably qualified and experienced tree surgery contractor, and in accordance with British Standard BS3998: 2010 Tree work - recommendations (and in accordance with the requirements of Condition 17).
- 9.5. All tree work operations must be carried out in-line with the contractor's own site specific risk assessment and method statement that shall be approved prior to commencement by the Site Manager.
- 9.6. All arisings shall be disposed of as instructed by the Site Manager.
- 9.7. If relevant, stumps of felled trees will be treated as agreed with the Project Site Manager (i.e. mechanically ground-out by tree surgery contractor or grubbed out by groundworks/construction contractor).
- 9.8. Any additional tree pruning identified during the pre-commencement meeting as being essential will require written approval of ADC. Any pruning work to trees protected by Tree Preservation Order will require a written application to be submitted to, and written consent from, ADC through the procedures of the Town and Country Planning Act 1990. If such is required, the Project Arboriculturist will submit an application following the pre-commencement meeting.

10. ERECTION OF TEMPORARY TREE PROTECTION BARRIERS

- 10.1. The tree protection barriers must be installed in locations as specified on the TRR&P (BHA_363_02A_TRR&P) in **Section 3**, and as marked-out and agreed at the pre-commencement meeting. The barriers will form the Construction Exclusion Zones (CEZs).
- 10.2. The tree protection barriers must be installed in accordance with the default BS5837:2012 specifications (**Figure 2 of BS5837:2012**) that is shown on the TRR&P.
- 10.3. The tree protection barriers must be installed as the first operation on site after enabling works.
- 10.4. All-weather A3-sized notices as included below shall be attached to the tree protection barrier at 10-metre intervals.

- 10.5. If a risk of run-off ground contamination beyond the protective measures is identified, a run-off containment system (e.g. Kraken contamination containment barriers or similar with impermeable membrane attached) must be affixed to the base of the fencing panels.
- 10.6. The Project Arboriculturist must approve the condition and positioning of the barriers, notices prior to commencement of further stages in the construction process.
- 10.7. The barriers must not be moved, altered or allowed to drift during demolition or construction activity. The barriers will be checked by the Site Manager at the beginning and end of each working day to ensure they remain fit for purpose of excluding any site activity and protecting the ground.
- 10.8. The only time a barrier may be removed ahead of completion is under Arboricultural supervision.
- 10.9. The protection measures must remain in situ until all construction work on site has been completed and the site conditions have been approved by the project Arboriculturist.
- 10.10. Except where expressly specified in this AMS, the CEZs formed by the barriers and temporary ground protection are to remain completely undisturbed for the duration of all development works. No activity of any description must occur at any time within these areas including but not restricted to the following: -

- No mixing of cement or any other materials.
- Storage or disposal of any soil, building materials, rubble, machinery, fuel, chemicals, liquids waste residues or materials/debris of any other description.
- Siting of any temporary structures of any description including site office buildings, temporary car parking facilities, porta-loos, storage compounds or hard standing areas of any other description.
- Soil/turf stripping, raising/lowering of existing levels, excavation or alterations to the existing surfaces/ground conditions of any other description.
- Installation/siting of any underground services, temporary or otherwise including; drainage, water, gas, electricity, telephone, television, external lighting or any associated ducting.
- Parking/use of tracked or wheeled machinery or vehicles of any description.

In addition to the protection measures specified above,

- No fires shall be lit within 20 metres of the trunks of any trees or the centre line of any hedgerow shown to be retained.
- No signs, cables, fixtures or fittings of any other description shall be attached to any part of any retained tree.'

LAND AT FORD ROAD ARUNDEL

11. CREATION OF SITE ACCESS

- 11.1. Prior to works commencing, the tree protection barriers must be installed in locations as specified on the TRR&P (BHA_363_02A_TRR&P) in **Section 3**, and as marked-out and agreed at the pre-commencement meeting. The barriers will form the Construction Exclusion Zones (CEZs).
- 11.2. The main site access will be resurfaced (with new footways) as per the below section (Image 1) taken from the SDP Consulting Engineers drawing titled 'Domestic External Works Construction Details Sheet 2 of 2' (DRWG ref: OAK097_1111_E19-003-1111-T1). The main area of relevance is the 1.5m wide footway which is located in the RPA of G1 (further zoomed in excerpt below).

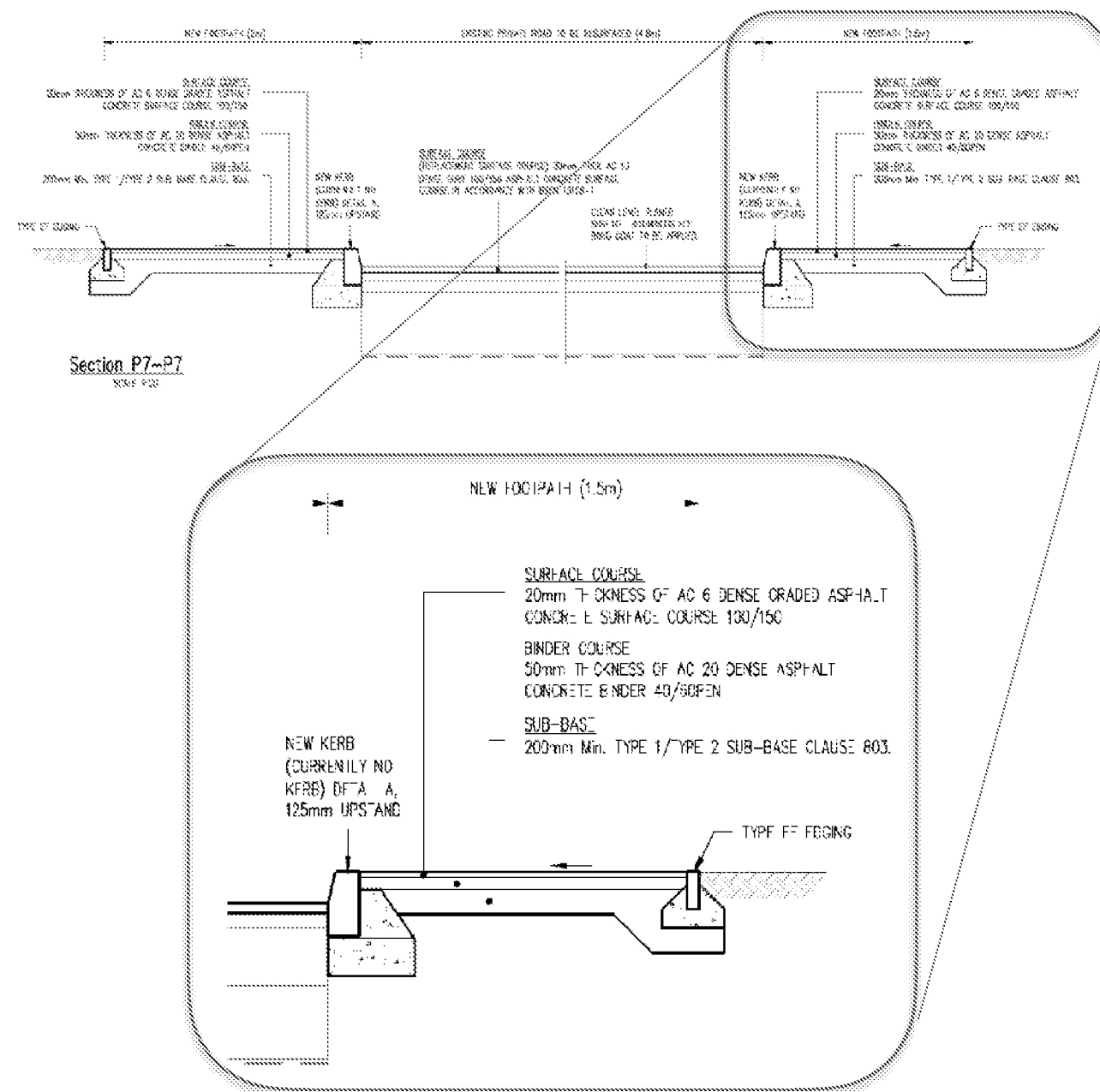


Image 2: taken from the SDP Consulting Engineers drawing titled 'Domestic External Works Construction Details Sheet 2 of 2' (DRWG ref: OAK097_1111_E19-003-1111-T1).

- 11.3. As can be seen in Image 2, in order to achieve formation level for the main footway surfacing a maximum of 270mm of excavation will be required within the area shown the TRRP. It is likely this excavation depth will be less due to the footway being a kerb height above the level of the existing road level and considering there is currently no kerb on the road edge.
- 11.4. For the new edging (Type EF) at the back of footway, a maximum circa 400mm deep excavation will be required. Again, it is likely this excavation depth will be less for the reasons stated above.
- 11.5. For the new kerb edging at the road edge (no kerb currently) a 405mm deep excavation will be required. This is the deepest of the excavations but it is located at the edge of G1's RPA and at the edge the existing road alignment.
- 11.6. The excavations for this footway that fall in the RPA of G1, must be undertaken under an Arboricultural watching brief/supervision.
- 11.7. The excavation can initially be undertaken using a small (e.g. 3-5 ton) LGP excavator located outside the RPA and extending the excavator arm into the footway area. A toothed bucket shall be used. Excavation can continued in this way until the Project Arboriculturist confirms that any further excavation will need to be undertaken by hand. This is dependent on the ground conditions encountered. It may also be necessary to consider using an Air Spade (see below).
- 11.8. The main aim of this work is to excavate to formation level, retain as many roots as possible and where not possible, prune and protect exposed roots until construction of the footway takes place. If exposed and cut roots are present in the location of the haunching for the rear edging then the excavation shall be lined with 1500 gauge DPM or similar, prior to any concrete haunching being cast.
- 11.9. Should Air Spade excavation be required it will be operated by a suitably qualified, trained and experienced arboriculturist. The Air Spade is a specialist compressed air-powered tool which efficiently removes or loosens soil within the root zone without damaging a tree's delicate root system. Any Air Spade excavations will be carried out with the Project Arboriculturist in attendance in at least supervisory role, or directly carrying out the Air Spading work.
- 11.10. Any Air Spade excavations will be carried out sensitively with a combination of air spading and hand digging (where appropriate, such as to move volumes of loosened soil) to reveal the exact location of the tree roots..
- 11.11. Once necessary excavation is completed, the Project Arboriculturist may need to prune and/or train selected roots only as far as necessary to facilitate the new footway installation.
- 11.12. The Project Arboriculturist will oversee care and protection of the exposed tree roots during and after excavation until construction takes place. This may include the wrapping of larger roots with wet hessian and covering of the excavated trench to prevent root and soil desiccation.

SECTION 2

LAND AT FORD ROAD ARUNDEL

12. MAIN CONSTRUCTION PHASE

- 12.1. The temporary tree protection barriers must remain in situ for the duration of construction activity. The barriers will be checked at the beginning and end of each working day to ensure they remain fit for purpose of excluding any site activity and protecting the ground and trees beyond. They will remain in situ until all construction work on site has been completed.
- 12.2. During the main construction phase, the Project Arboriculturist may be instructed to attend site to address and specific matters arising during the construction process and to confirm that tree protection measures are fit for purpose. However, it is envisaged that on this site the Project Arboriculturist will hold a video call with the Project Site Manager. This combined with fortnightly photographic records of the protection barriers taken by the Site Manager, will be sufficient.
- 12.3. Currently no service installation is proposed within the RPAs of retained trees. Should the need for this arise then the Client and Project Site Manager must contact the Project Arboriculturist in order to comply with part 2 of Condition 16.
- 12.4. All other general restrictions and precautions specified in this AMS must be adhered to.

13. UPGRADE OF PEDESTRIAN FOOTPATH FORM ACCESS TO THE RIVER ARUN

- 13.1. Timing of installation will depend on the overarching work phasing and schedule and will be discussed and agreed in detail at the pre-commencement meeting.
- 13.2. The upgrade of the footpath surfacing through RPA of T5 shall be 'no dig' in nature. That is to say that no existing ground shall be excavated into.
- 13.3. Dependent on the soil conditions (e.g. bulk density and bearing capacity) it may be necessary to use a 3D Cellular Confinement System (CCS) with the area identified on the TRRP.
- 13.4. A CCS uses a flexible cellular confinement grid, permeable geo-textile and washed gravel fill to provide a load-bearing surface that does not need to be compacted. The structure sits above the existing soil level and acts as a stiff raft which maintains soil bulk density at levels suitable for tree root growth.
- 13.5. If required, the CCS supplier (e.g. Geosynthetics) will specify the final design of the system (e.g. 150mm Cellweb TRP system), along with materials and installation method. This will accompany the information below.
- 13.6. The work shall commence from the existing access road into the site and work south eastwards in a 'roll out' fashion. It is important that no machines (dumpers or excavators) use the existing footpath surface. If access is required before the sub base, CCS or wearing course of the footpath is place, temporary ground protection boards must be used.
- 13.7. Where indicated (and agreed), the Project Arboriculturist will be instructed by the Site Project Manager to be in attendance on site during the at least the initial stages of the work to ensure the final working methodology is appropriate.
- 13.8. Installation of a CCS system (if required) may be new to the construction team, and so advice should be sought, and careful planning and preparation needs to take place before installation commences. This should include planning for site staff numbers, machinery and equipment, materials delivery, weather conditions, and installation method.

14. REMOVAL OF TEMPORARY TREE PROTECTION BARRIERS

- 14.1. The tree protection barriers must not be removed without the prior approval of the Project Arboriculturist.
- 14.2. The Site Manager will ask the Project Arboriculturist to approve the removal of barriers. The Project Arboriculturist will assess site conditions and confirm that it is an appropriate stage at which to remove the barriers.
- 14.3. Five working days written notice shall be given to the Local Planning Authority prior to the removal of tree protection measures.

15. FINAL LANDSCAPING INCLUDING TREE PLANTING

- 15.1. A separate hard and soft landscaping scheme has been prepared.
- 15.2. Timing of landscaping operations will depend on the overarching work phasing and schedule and will be discussed and agreed in detail at the pre-commencement meeting.
- 15.3. Where required, the Project Arboriculturist will be instructed by the Site Project Manager to be in attendance on site during specific landscaping operations, however, not is not envisaged that this will be required.
- 15.4. The following working method will need to be employed in order to avoid impacts on retained trees:
 - Footings for fencing or other posts within tree RPAs will need to be hand dug using hand tools.
 - Where roots are encountered above 25mm diameter the post locations should be adjusted to avoid them. Where roots are encountered below 25mm diameter they can be clean pruned back the edge of the pits.
 - Prior to setting the footings a 1200 gauge (or equivalent) damp proof membrane should be used to line the pits to prevent leachate contamination of the soil.
- 15.5. General landscaping guidance:
 1. All new tree planting must be carried out in accordance with the principles of 'BS8545: Trees: from nursery to independence in the landscape – recommendations.'
 2. The site soil that has underlain buildings, hard surfaces and other structures may been a poor condition and/or anaerobic and require a significant degree of cultivation and improvement if new trees and shrubs are to thrive. The ground condition of planting locations for new trees and shrubs must be assessed individually so that the appropriate amelioration can be carried out. This should include assessments of soil structure/profile, pH, drainage, compaction and contamination.
 3. All excavations within the RPA of retained trees must be carried out by hand. Where areas of concentrated pedestrian activity are required within RPAs, work shall be carried out on top of 25mm ply boards set on 100mm wood chip.
 4. Where posts are to be concreted into the ground within the RPA of retained trees, excavated post holes must be lined with a heavy duty (damp proof course-type) plastic membrane to prevent any concrete from damaging roots.



THIS DOCUMENT CONTAINS NEITHER RECOMMENDATIONS NOR
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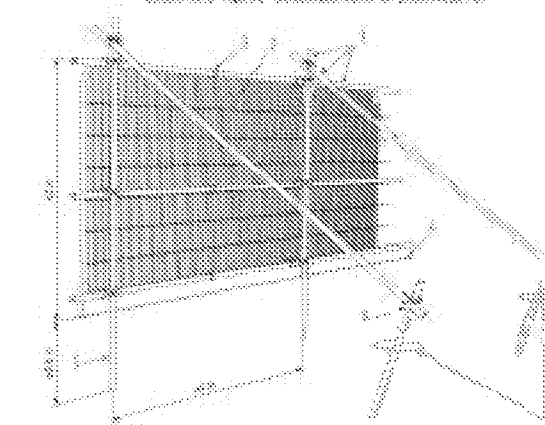
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11/11

Tree No	Species	SW Area 88	SW Area 882	Category
T1	Sycamore	38	89	52
T2	Sycamore	34	98	52
T3	Sycamore	34	95	52
T4	Sycamore	32	91	52
T5	Sycamore	35	94	52
T6	Sycamore	44	92	52
T7	Poplar	14.5	89.3	52
T8	European ash	15	987	53
881	Sycamore	3.7	97.8	52
882	European ash	4.2	98	52
883	European ash	3.8	98	52

KEY WORDS: *Chlamydia trachomatis*; gonorrhea; HIV-1 infection; risk factors; sexual behavior

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Note: The original of this drawing was produced in color. A monochrome version should not be used.



PROJECT TITLE	Ford Road Arundel (O.2588)
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Tree Retention/Removal & Protection Plan

SCALE 1:500 @ A3		DRAWING NUMBER BHA_363_02	
DRAWN BY SD	APPROVED BY RH	REVISION A	SHEET * DATE 24/04/2010

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INDIVIDUAL TREES

Ref	Species	Height (m)	No. of Stems	Est diam?	Calc. / Actual Stem Dia. (mm)	Crown radii (m) N-E-S-W	Avg. Canopy Height (m)	1st branch ht (m)	1st branch dir.	Life Stage	General Observations	Health & vitality	Struct. cond.	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)	RPA m²
T1	Sycamore	15.0	1	#	330	3.00-6.00-5.00-3.00	4.0	4	E	SM	Offsite tree. Torn out branches / branch stubs, throughout canopy. Likely due to the historic failure of the large poplar near by. Asymmetric crown due to suppression from neighbouring trees.	Fair	Fair	20+	C2	3.9	49
T2	Sycamore	11.0	1	#	200	3.00-3.00-3.00-3.00	5.0	5	N	SM	Offsite tree. Tree is suppressed by the neighbouring poplar.	Fair	Fair	20+	C2	2.4	18
T3	Sycamore	11.0	1	#	200	3.00-3.00-3.00-3.00	5.0	5	N	SM	Offsite tree. Tree is suppressed by the neighbouring poplar, dense ivy throughout canopy.	Fair	Fair	20+	C2	2.4	18
T4	Hawthorn	7.0	1	#	180	2.00-2.00-2.00-2.00	2.0	2	E	M	Offsite tree. Leaning stem with Ivy throughout canopy.	Good	Fair	20+	B2	2.2	15
T5	Sycamore	16.0	2	#	530	6.00-5.00-4.00-4.00	5.0	3	W	M	Offsite tree. Asymmetric crown due to suppression from neighbouring trees that have been felled 3-4y ears prior to the survey date. Branch stubs low on main stem from historic crown lifting.	Good	Fair	20+	B2	6.4	127
T6	Hawthorn	8.0	1	#	400	3.00-3.00-3.00-3.00	2.0	2	W	M	Offsite tree, typical for species and age. Ivy throughout canopy.	Good	Good	20+	B2	4.8	72
T7	Poplar	11.0	1	-	1220	5.00-5.00-9.00-5.00	3.0	2	S	LM	Tree has historically lost its top, failing at approx 10m. 1 low limb is very over extended in a southerly direction toward the road to the South. RPA offset to reflect presence of deep ditch.	Fair	Poor	10+	C2	14.6	673
T8	English oak	17.0	1	-	1300	10.00-11.00-9.00-10.00	2.5	2.5	S	M	Mature oak, approaching ancient tree status due to large stem diameter	Good	Good	40+	A3	15	707

GROUPS OF TREES

Ref	Species	Height range (m)	No. of trees	Est diam?	Max stem diam (mm)	Av. Crown radius (m)	Avg. Canopy Height (m)	Life Stage	General Observations	Health & vitality	Struct. cond.	Estimated Remaining Contribution (Years)	BS5837 Category	RPA Radius (m)
G1	Sycamore	12-16	5	#	310	5	4.0	SM	Offsite Group. Growing from the bank of the brook. Some branch stubs and torn out branches throughout canopies of the more N trees. Likely due to historic crown raising over the access road and from impact by the failure of the large poplar near by.	Good	Good	20+	B2	3.7
G2	Lime	15-17	2	#	350	6	4.0	M	Offsite group. Typical for species and age.	Good	Fair	20+	B2	4.2
G3	Willow, sycamore, birch	6-11	10	#	300	3	2.0	EM	Group of trees at the NE corner of the site. Self sown pioneer trees that have established since the site was abandoned.	Good	Fair	20+	C2	3.6

THE IMPORTANCE OF TREES

Wider benefits:

There is a growing body of evidence that trees bring a wide range of benefits to the places people live.

Some Economic benefits of trees include:

- Trees can increase property values
- As trees grow larger, the lift they give to property values grows proportionately
- They can improve the environmental performance of buildings by reducing heating and cooling costs, thereby cutting bills
- Mature landscapes with trees can be worth more as development sites
- Trees create a positive perception of a place for potential property buyers
- Urban trees improve the health of local populations, reducing healthcare costs

Some Social benefits of trees include:

- Trees help create a sense of place and local identity
- They benefit communities by increasing pride in the local area
- They can create focal points and landmarks
- They have a positive impact on people's physical and mental health
- They can have a positive impact on crime reduction

Some Environmental benefits of trees include:

- Urban trees reduce the 'urban heat island effect' of localised temperature extremes
- They provide shade, making streets and buildings cooler in summer
- They help remove dust and particulates from the air
- They help to reduce traffic noise by absorbing and deflecting sound
- They help to reduce wind speeds
- By providing food and shelter for wildlife they help increase biodiversity
- They can reduce the effects of flash flooding by slowing the rate at which rainfall reaches the ground
- They can help remediate contaminated soil

On new development sites:

Trees bring many benefits to new development. Where retained successfully they can form important and sustainable elements of green infrastructure, contribute to urban cooling and reduce energy demands in buildings. Their importance is acknowledged in relation to adaptation to the effects of climate change. Other benefits brought by trees include:

- increasing property values
- softening, complementing and adding maturity to built form
- displaying seasonal change
- increasing wildlife opportunities in built-up areas
- contributing to screening and shade
- reducing wind speed and turbulence

INFORMATIVE - HOW TREE DAMAGE CAN OCCUR

Above the ground

Damage can occur as a result of contacts between branches and/or tree trunks. This is often but not always associated with machine operations, groundworks excavations, MEWPs, high sided vehicles and crane use. Other forms of above ground damage include fixings to trunk and unauthorised cutting back of branches.

Below the ground

It is often not appreciated that the majority of most tree roots are generally located within the top 600mm of the ground. On this basis it needs to be understood that damage to roots can occur in two ways:

Root severance can occur as a result of, for example, soil stripping during site clearance or excavations. Root dieback and death can result from compaction of the soil. Compaction can occur as a result of vehicle weight, weight of stored materials or increased pedestrian access. Compaction crushes out soil pore space and prevents tree respiration from occurring (respiration requires gas exchange between the ground and the atmosphere). Compacted soil is denser and therefore inhibits/prevents any further new root growth.

The effects of these impacts can be disfiguring to a tree's appearance and also weaken a tree making it more liable to attack by pest and diseases. In addition, root damage or death results in corresponding decline above the ground with dieback occurring within the tree crown.

The effects of damage to trees generally take some time to become fully apparent. In many cases, damaged trees decline slowly after the completion of a new development, until they eventually need to be removed due to ill health.

A construction exclusion zone (CEZ) has been defined in order to prevent soil compaction from taking place.

GENERAL SITE RULES FOR TREE PROTECTION

Do not independently carry out any activity that is at odds with the site Scheme of Tree Protection.

In simple terms: do not carry out any work within the CEZ without prior liaison with the Project Arboriculturist and written authorisation from the Local Planning Authority.

Within the CEZ:

- No excavation of any description.
- No storage, disposal of soil, rubble or materials of any other description.
- No alterations to existing levels or ground conditions.
- No use of any tracked or wheeled machinery of any description.
- No tree works, without the written consent of the Local Planning Authority's Development Management service
- No erection of temporary structures of any description.
- No fixtures or fittings of any description, security lighting, signage etc shall be attached to any part of a tree.
- No fires shall be light within 10 metres of the canopies of any tree or spread of any hedge.
- No chemicals, fuel, liquids/waste residues of any other description to be stored or disposed of within close proximity to or drained towards/ into protection areas.

Fires on site should be avoided if possible. Where they are unavoidable, they must not be lit in a position where heat could damage foliage or branches. Fires must be a minimum of 20m from the trunk of any retained tree or the centre line of any hedgerow to be retained.

No signs, cables, fixtures or fittings of any other description shall be attached to any part of a retained tree

STATUTORY CONTROLS

Statutory tree protection

Works to trees which are covered by Tree Preservation Orders (TPOs) or are within a Conservation Area (CA) require permission or consent from the Local Planning Authority. Where information is available on any Statutory designations such as this they are identified within the summary table in section 1 and in the Tree Survey Schedule in section 3.

Notwithstanding specific exceptions and in general terms, a TPO prevents the cutting down, uprooting, topping, lopping, wilful damage or wilful destruction of protected trees or woodlands without the prior written consent of the LPA.

Penalties for contravention of a TPO tend to reflect the extent of damage caused but can, in the event of a tree being destroyed, result in a fine of up to £20,000 if convicted in a Magistrates' Court, or an unlimited fine if the matter is determined by the Crown Court.

Similarly, and again notwithstanding specific exceptions, it is an offence to carry out any works to a tree in a Conservation Area with a trunk diameter greater than 75mm diameter at 1.5 height without having first provided the LPA with 6 weeks written notification of intent to carry out the works.

On many non-residential sites (excluding specific exemptions) there is also a statutory restriction relating to tree felling that relates to quantities of timber that can be removed within set time periods. In basic terms, it is an offence to remove more than 5 cubic metres of timber in any one calendar quarter without having first obtained a felling licence from the Forestry Commission.

Any proposed tree works that are planned to be carried out on site must be carried out in accordance with the statutory controls outlined.

Statutory Wildlife Protection

Although preliminary visual checks from ground level of likely wildlife habitats are made at the time of surveying, detailed ecological assessments of wildlife habitats are not made by the arboriculturist and fall outside of the scope for this report.

Trees which contain holes, splits, cracks and cavities could potentially provide a habitat for protected species such as bats in addition to birds and small mammals. It is advised that in some instances specialist ecological advice may be required. This may result in tree works being carried out following a detailed climbing inspection to the tree to ensure that protected species or their nests/roosts are not

disturbed. If any are found, the site manager, site owner or consulting arboriculturist should be informed and appropriate action taken as recommended by the appointed Ecologist or Natural England.

It is advised that tree/hedgerow works are carried out with the understanding that birds will generally nest in trees, hedges and shrubs between March and August. This time period only provides an indication of likely nesting times and as such diligence is required when undertaking tree works at all times.

Irrespective of the time of year, and other than any actions approved under General Licence, it is an offence to intentionally kill, injure or take any wild bird or to intentionally take, damage or destroy the nest or eggs of any wild bird. Ideally, tree operations should be avoided during the likely bird nesting period. However, any tree works should always only be carried out following a preliminary visual check of the vegetation.

For information, the Wildlife and Countryside Act 1981 (as amended), The Countryside and Rights of Way Act 2000 (as amended) and the Conservation of Habitat and Species Regulations 2010, form the basis of the statutory legislation for flora and fauna in England and Wales. A different legislative framework applies in Scotland and Northern Ireland.

TREE AWARENESS – SITE INDUCTION

SITE NAME:.....

DATE OF INDUCTION:.....

Trees are an important part of this development. Retained trees must be kept undamaged so that they can fully benefit the finished project well into the future. All persons working on this site have a responsibility to be aware of trees and to abide by tree protection procedures.

How trees can be damaged – think roots!

Above the ground – contacts and impacts with branches and trunk (machine operations eg tele-handlers, high-sided vehicles, crane use, fixings to trunk, unauthorised cutting back of branches)
 Below the ground – root severance (eg soil stripping during site clearance, excavations) and root damage resulting from compaction of soil near trees (eg vehicles, pedestrian, storage of materials). Effects of root damage take time to become obvious, but will result in disfiguring dieback of leaves and branches, or even tree death.

Tree protection procedures

Provided that the simple steps are followed most tree protection is straightforward:

- Stay out of tree Construction Exclusion Zones (CEZs). These are the areas of ground surrounding retained trees that are protected by barriers. If you need to go into a CEZ, you must first gain authorisation from the Site Manager
- No construction activity of any description within CEZs, eg soil stripping, cement mixing, services installation, storage of materials etc
- No fires within 20m of trunk of any retained tree
- If authorised to work within a CEZ, work to the Arboricultural Method Statement, eg demolition, construction, landscaping works etc
- If damage occurs, inform the Site Manager.

Remember

All trees on the site are protected by planning conditions. Many trees on the site may also be legally protected by Tree Preservation Order (TPO) or Conservation Area status

Planning Authority enforcement action needs to be avoided:

- ‘Breach of Conditions’ notices can prevent a site from being signed-off.
- ‘Temporary Stop Notices’ halt site operations and result in associated high costs.
- Wilful damage/destruction of TPO/Conservation Area trees can result in company and/or individual prosecutions - fines can me anything up to £20,000 (County Court fines can be higher). Remember that fines apply to the person committing the offence as well as the site owner and main contractors!

Be aware of tree protection and stick to the procedures. Tree protection is straightforward. If in doubt – ask!

I have received site induction in tree awareness and tree protection procedures

PRINT NAME:

SIGN:

DATE: