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This illustrative plan is intended to inform tree retention, tree removal and protection measures required to facilitate development. The approved Arboricultural Method Statement shall be incorporated into the Construction Management Statement and subsequent technical drawings used for design purposes and issued for use on site, to ensure that all parties are fully aware of the areas in which access and works may and may not take place. The Main Contractor will be required to prepare detailed Risk Assessments and Method Statements which take into account relevant planning conditions, health and safety requirements, including those associated with the Construction Design and Management (CDM) Regulations, specific phasing and other Client requirements to ensure the works are undertaken in a safe, economic, sustainable, legal and appropriate manner. This document is based on information provided by the client at the time of issue and may therefore require review. This document therefore presents only the conceptual understanding of how the works will be undertaken. It is not a substitute for the detailed Risk Assessment and Method Statements required to be prepared by the Contractor as part of the future works.

Site Boundary

Site boundary (indicative)

Statutory Designations (trees)

Selected groups of trees are subject to Tree Preservation Order FPI/107 administered by Arun District Council (ADC). Written consent must therefore be obtained from ADC prior to carrying out any works to trees subject to the TPO, or works that may impact on the tree's health or amenity beyond that granted by planning consent.

The statutory designation may change and therefore it is recommended that Arun District Council be contacted prior to carrying out tree works.

Tree Constraints

Crown spread

Preliminary root protection area

Tree Removal & Retention

Tree/Group to be retained

Tree/Group to be removed

Arboricultural Method Statement

The primary purpose of this plan is to aid the preservation of retained trees through setting out of the appropriate working practices and tree protection measures that are to be adopted when construction works are undertaken in the proximity of trees. The methodology of this Tree Protection Strategy follows a logical sequence of events. Variations to the sequence could significantly reduce the efficiency of the tree protection measures.

This plan should be incorporated into subsequent drawings and method statements used for design purposes or issued for use on site, to ensure that all parties are fully aware of the areas in which access and works may and may not take place. A summary of tree protection will be provided to all personnel through the Site Induction. This summarises the key precautionary measures and responsibilities of all site personnel to ensure an awareness of trees during site works and that they are successfully protected throughout construction and site enablement works. Main Contractor - It is the responsibility of the Main Contractor to ensure that the Tree Protection Plan is implemented on site, maintained during the development process and understood by all site personnel and contractors prior to commencement of works.

Responsibilities of key personnel & site induction - Equally as important as the physical measures of tree protection are the links of communication. Pre-commencement discussions will be carried out between the Project Arboriculturist and members of the Technical Team to ensure that tree issues are considered within the complexities of detailed construction and site management.

A summary of Tree Protection will be provided to all personnel through the Site Induction. This summarises the key precautionary measures and responsibilities of all site personnel to ensure an awareness of trees during site works and that they are successfully protected throughout the development process.

Site Manager - It is the responsibility of the Site Manager to ensure that details of this Arboricultural Method Statement and Tree Protection Plans relevant to the particular phase of development are implemented on site, maintained during the development process and understood by all site personnel and contractors prior to commencement of works. The Site Manager will notify the appointed Project Arboriculturist of any programmed or unscheduled works within the RPA or Construction Exclusion Zone at least 72hrs before commencement of each operation and of any unscheduled works or variations to enable action by the Project Arboriculturist.

Site Personnel - Information on the required protection measures will be provided at the **site induction** to personnel. All damage to protective barriers or accidental damage to trees must be reported to the Site Manager immediately. Works occurring within the vicinity will cease immediately until adequate tree protection measures are rectified.

Pre-commencement meeting - A pre-commencement meeting shall be held on site prior to commencement of enabling or construction works. The meeting shall be attended by the Client's Representative and Main Contractor. The Local Authority Tree Officer will be invited to attend. The methods of tree protection outlined within this statement and revisions for the particular phase shall be fully discussed at the meeting, so that all aspects of their implementation and sequencing are made clear to all parties. Any clarifications or modifications to this statement shall be recorded and circulated to all parties in writing.

In brief, the work stages for the site enablement and construction phase will be as follows:

Stage 1	Pre-commencement meeting to identify and mark-up trees & vegetation for removal
Stage 2	Excavate agreed tree and vegetation removal
Stage 3	Install tree protection barriers
Stage 4	Installation of attenuation and drainage
Stage 5	Construction of building and pitches
Stage 6	Carryout landscape works
Stage 7	On completion of construction dismantle tree protection
Stage 8	Prior to occupancy carryout H&S tree inspection and carryout recommendations for tree work

Tree Roots - The majority of tree roots are typically concentrated within the top 600mm of soil. Repeat tracking by vehicles, excavation or cement (including washings and crush) within soft ground near trees is likely to cause root damage. This may have an adverse impact on the trees health and stability. Any tree roots exposed during operations should be treated once. Exposed roots smaller than 25mm diameter may be pruned back, preferably to a side branch, using proprietary cutting tools. In the event that roots are required to be pruned, sharp cutting tools are to be used to ensure the minimum damage is caused. Clean cuts can result in the redevelopment of fine roots. Poor unidry cuts can, however, result in root die back and decay. No roots greater than diameters of 25mm are to be pruned without prior agreement with the Project Arboriculturist. Exposed roots will be wrapped in dry, clean Hessian sackings to prevent desiccation and to protect from rapid temperature changes. Following completion of works within the immediate vicinity all exposed roots will be covered with good quality topsoil before backfilling. In the event that large quantities of structural roots are found, a re-evaluation of the proposed works and impact is to be made by the Project Arboriculturist and a record made.

Unscheduled Works - The Site Manager will notify the appointed Project Arboriculturist of any unscheduled works within the RPA or construction exclusion zone. The extent of works will be discussed and a method statement and provision for tree protection implemented. All unscheduled works must be agreed by the appointed Project Arboriculturist and if appropriate the Local Authority Representative consulted prior to commencement of the works.

Breaches of Tree Protection & Unforeseen Events - All damage to protective barriers or accidental damage to trees must be reported to the Site Manager immediately. Works occurring within the vicinity will cease immediately until adequate tree protection measures are rectified. A record of the damage will be made by the Site Manager and, if appropriate in consultation with the appointed Project Arboriculturist, remediation measures carried out. In the event of spillage the area is to be secured with sandbags on the line of the tree protection area and measures taken to drain/soak any spillage away from the protected area.

Construction Equipment - Where enabling or drainage works occur within 2m of the crown extent of any retained tree, protection and precautionary measures must be observed and provision made within the contractors method statement to avoid contact with the trees crown from tall loads, plant with booms, jibs and counterweights.

Phasing and Timing of tree works - All operations will be complete within the ecological time constraints as specified by the Ecologist. No tree works are to take place within the bird nesting season (March to August) unless a survey undertaken by the Project Ecologist establishes that active nests are absent. The survey is to take place no longer than 3 days in advance of works.

Tree Works - All tree works are to be agreed with the Local Planning Authority and carried out in accordance with BS 3998 Tree Works - Recommendations (2010). Trees identified for removal or facilitative tree works are to be carried out prior to commencement of site enablement works. All responsibilities under the Wildlife & Countryside Act (1981), as amended by the Countryside and Rights of Way Act 2000 must be observed.

Selected trees have been identified as displaying features with potential to support bats. All recommendations or precautionary measures made by the Project Ecologist will be adopted by the tree contractor.

All arisings will be removed from site by the tree contractor unless otherwise agreed in writing by the client.

Tree Removal/Fell - felling in one piece should only be carried out when there is no significant risk of damage to people, property or protected species. Some trunks or branches display features such as small rot holes, which bats could use for roosting trees will be removed in sections and lowered to the ground. Any features should be checked for bats. If a bat or evidence of bats is found or suspected at any point during the tree work, all work to the tree must stop immediately and the local Natural England team and/or a Project Ecologist must be contacted for advice. Where the work is undertaken during the summer, the tree should remain on the ground and undisturbed for atleast 24hrs to allow any undetected bats to leave. If carried out during the winter months (November to March inclusive), the tree should be undisturbed for a minimum of five nights, during which at least one night the temperature should be above 7 degrees Celsius or as recommended by an Ecologist

Lift Crown - pruning to achieve a desired vertical clearance above ground level (expressed in metres).

Remove of deadwood - Dead branches >20mm shall be removed to secondary live growth to minimise failure.

Arisings - parts of a tree, including stem roots, branches, bark, other woody material and foliage, derived from the tree during tree work operations.

Tree Protection Barriers - Following the completion of tree removal or facilitative tree works a scheme for the protection of trees shall be implemented to avoid damage or loss of retained trees. Existing barriers are to remain in place and be set back only immediately prior to installation of the road. Where sequential installation is required, or existing tree protection is in place following previous works, barriers will be re-erected in accordance with this plan prior to commencement of operations as specified. Where appropriate the protection barriers may be aligned with the site hoarding. Barriers are to be retained throughout the appropriate phase of development process and are to be fit for purpose. The area between the tree and the protection barriers forms the Construction Exclusion Zone. The construction exclusion zone is to remain sacrosanct with storage of materials, machinery or equipment prohibited. No excavation or changes in land levels are to occur within this area unless agreed in writing by the Local Planning Authority. If lifts or cranes are to be used during construction in close proximity to protective barriers, at no time is the arm to encroach over the position of the tree protection fence unless precautionary measures to avoid contact with branches are in place. All Weather tree protection notices are to be fixed to the outside of all tree protection barriers. See Example - Tree Protection Signage.

Any damage to protective barriers or accidental damage to trees must be reported to the Site Manager immediately. Works occurring within the vicinity will cease immediately until adequate tree protection measures are rectified. All personnel using the site including site managers, agents, supervisors, operatives and other relevant personnel are to be informed of the role of the tree protective fences and its importance.

Type 1 Barriers - shall consist of weldmesh panels on rubber or concrete feet and secured with two anti-tamper couplers installed so that they can only be removed from inside the fence. The panels should be supported on the inner side by stabilizer struts secured with ground pins unless similar fencing is agreed with the Local Planning Authority see Default specification for protective barrier (extract of Fig.3 BS5837 2012).

Changes in Land Levels - All changes in land levels will be in accordance with the approved plans and drawings.

Storage of materials - All materials for demolition purposes should be carefully stored outside the enforced Exclusion Zone.

Removal of Existing Chainlink Fence - All brambles are to be cleared from the fence line prior to removal of the existing fence. All plant and vehicles will work from the playing field outside of the RPA of Field Maple (G19).

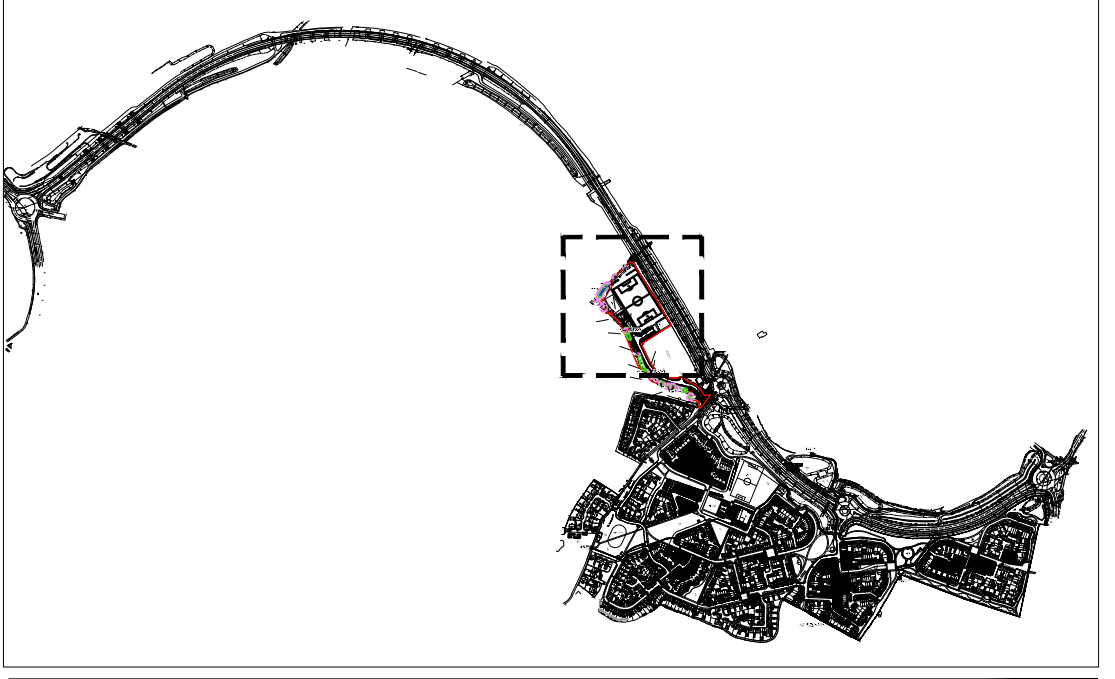
Installation of Bollards and/or Boundary Fencing - Foundation for posts, play equipment and bollards shall be excavated using hand tools. The final size and location of foundations shall be designed so as not to result in a cumulative impact within the RPA and be in accordance with BS5837 (2012). The foundation hole shall be locally positioned following trial excavation, to avoid root disturbance/severance of major roots. Roots smaller than 25mm diameter may be pruned back, preferably to a side branch, using proprietary cutting tools. The resultant hole shall be lined with a non porous membrane to protect the soil from potential toxic effects of concrete prior to setting of the post and pouring. Where roots larger than 25mm in diameter are encountered, the pit shall be backfilled with soil and a new pit excavated to avoid roots. Where a post or bollard is to be illuminated, the route of services will be located outside of the RPA to minimise root disturbance. Installation will be in accordance with National Joint Utility Guidelines 10 Vol 4. At all times, the principles of tree protection contained within this method statement.

Landscaping Works - All landscaping works, soft and hard, should be carried out as the last process of development where this operation is in close proximity to trees. For details of hard and soft landscaping please refer to the Detailed General Arrangement Hard Works Plans and Soft Landscape Proposals. All landscaping operations within the RPA of any retained tree will accord with the principles setout within this Method Statement. In particular, tracking of vehicles within soft ground within the RPA will be prohibited to prevent soil compaction unless additional ground protection is installed. Soil re-grading and disturbance within the tree protective areas will be avoided. If cultivation of the soil or making up of levels is required as part of the approved plans, cultivation of the existing soil level should not exceed 50mm depth and must at all times be by hand. Excavation for trees or shrubs must be carried out using hand held tools only to prevent damage to underlying roots. Where roots over 25mm are present the roots should be carefully pushed aside or the planting station infilled and a new pit excavated void of roots. Any agreed soil re-profiling required to achieve the finished levels around trees will be carried out by hand with good quality topsoil (General Purpose Grade) in accordance with BS 3884 'Specification for top-soil' and under a watching brief by the Project Arboriculturist.

Dismantling of Tree Protection - In order to implement final surface treatments and landscaping works it will be necessary to dismantle the protective barriers. Within tree protection distances, all works will conform to the principles setout within this Arboricultural Method Statement and be carried out under arboricultural supervision. Under no circumstances will the soil levels be altered after the protective barriers have been removed.

Post Development Tree Inspection and Remedial Works - Following completion of construction works and prior to occupation, a H&S tree inspection shall be carried out of retained trees by an experienced Tree Inspector and all recommendations implemented. All tree works are to be agreed with the Local Planning Authority and carried out in accordance with BS 3998 Tree Works - Recommendations (2010). All responsibilities under the Wildlife & Countryside Act (1981), as amended by the Countryside and Rights of Way Act 2000 must be observed. All operations will be complete within the ecological time constraints as specified by the Ecologist. No tree felling works are to take place within the bird nesting season (March to August) unless a survey undertaken by the Project Ecologist establishes that active nests are absent.

Tree No.	Species	Reason for works	Works
Tree Removal Schedule			
G11 (Part)	Elm	Dead	Fell
G11 (Part)	Elm	Fallen	Fell
T13	English Oak	Significant die-back within crown	Fell
T14	English Oak	To reduce risk from fallen debris	Remove x1 lower lateral extended to east, remove major deadwood
T15	Ash	To reduce risk from fallen debris	remove major deadwood
G19 (northern most tree of group)	Field Maple	To provide clearance over playing field	Lift lower crown on east profile only to provide 4m clearance above ground level over playing field.
	Brambles	Removal of natral regeneration within playing field.	Remove



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Project

**STANOVER PLAYING FIELDS
FELPHAM, WEST SUSSEX**

Drawing

TREE PROTECTION & ARBORICULTURAL METHOD STATEMENT

Scale: 1:500 Date: FEB '21 Drawn: AR

Drawing No.

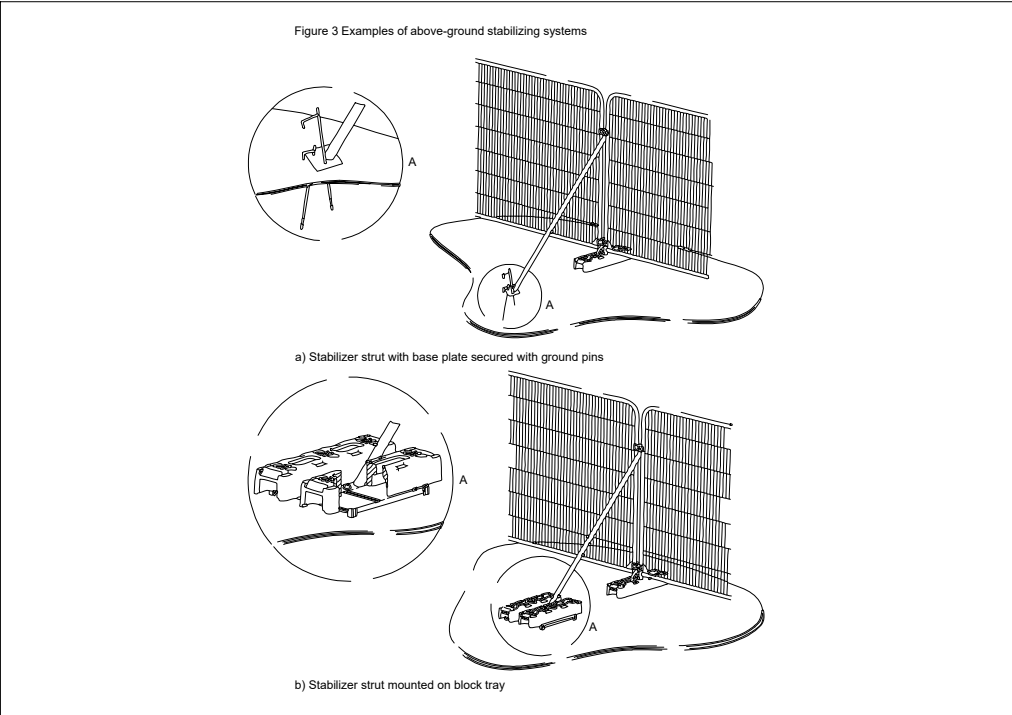
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☐ Preliminary
☒ Issued for Planning Approval
☐ Issued for Design/Information
☐ Issued for Tender
☐ Issued for Construction
☐ As Built

Drawing sheet size - A1

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Tree Protection Barriers - Type 1



Tree Protection Signage - Example

