



LIZARD

Landscape Design and Ecology

ARBORICULTURAL IMPACT ASSESSMENT & METHOD STATEMENT

Jarvis, Jarvis Lane, Steyning, West Sussex, BN44 3GL

On Behalf of: Gordon Sutherland

Client:	Gordon Sutherland			
Project:	Jarvis, Jarvis Lane, Steyning, West Sussex BN44 3GL			
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1.0 INTRODUCTION

- 1.1 Lizard Landscape Design and Ecology (LLDE) has been commissioned by Gordon Sutherland to undertake an Arboricultural Impact Assessment & Method Statement for the proposed development at Jarvis Jarvis Lane Steyning (hereinafter referred to as the site).
- 1.2 The principal aim of this report is to detail construction control measures to protect retained trees and tree groups (including hedgerows) within, and adjacent to, the site in accordance with British Standard (BS) 5837:2012 'Trees in Relation to Design, Demolition and Construction – Recommendations'.
- 1.3 This report has been produced based upon a BS 5837:2012 Arboricultural Survey undertaken by this company on the 10th of September 2025– this survey information is presented in Appendix A and summarised in section 1.12 below.
- 1.4 This report, and the accompanying Existing Tree Schedule, Tree Retention and Protection Plan sets out the arboricultural impacts of the proposals using the following considerations as a framework:
- Trees to be removed and trees to be retained.
 - Remedial tree work to retained trees to allow development to take place.
 - Suitable measures to protect retained trees.
 - Special construction or engineering measures are required to enable trees to be integrated into the proposed development where impacts are unavoidable.

Limitations

- 1.5 The trees were inspected at ground level, and no decay detection equipment was used. Therefore, there is a small risk that any internal decay that may be present has gone undetected. Only preliminary recommendations for tree management are provided. A full hazard risk assessment comprising a more comprehensive analysis of the condition and potential risk to target areas is beyond the scope of this report.
- 1.6 Trees are living, dynamic organisms and as such, their health and condition will change with time. Therefore, this assessment remains valid for 18 months from the date of inspection, or until a weather event such as a severe storm (defined as a period of violent weather which is likely to cause damage to trees), after which time a new inspection is required.

Existing Site Information

- 1.7 The site is located in the Saxon town of Steyning, which is situated in the Low Weald. It lies 13 miles to the south of Horsham, located in the Adur gap, where the River Adur passes through a break in the South Downs.
- 1.8 The surrounding landscape of Steyning is rural, with The South Downs National Park nearby. Closer to the Jarvis House is residential as well as the local community center to the west.

Existing Site Vegetation

- 1.9 The existing site vegetation is of mature trees and hedges. The trees are mostly deciduous of varying age class, with no recorded TPO's on site, it is within Steyning's conservation area and the local council is Horsham District Council. There is particular interest of some 'A' category Beech – *Fagus sylvatica* 'Purpurea', also other mature specimens within adjoining properties to the east, Ash – *Fraxinus sp*, west, Yew – *Taxus sp* and Sycamore – *Acer sp*. Understorey specimens include Privet – *Ligustrum sp* and Elder – *Sambucus sp*.
- 1.10 A summary of the relative retentive worth of the trees on site, as recorded during the tree survey and expressed by their categories, is given in Table 1.

Table 01 – Summary of Existing Site Vegetation

BS Category	No of Trees	No of Groups	No of Hedges and Vegetation Groups	Total
A	3	0	0	3
B	24	9	0	33
C	13	4	5	22
U	2	0	0	2

Development Proposals

- 1.11 It is understood that the development proposals are as follows, various renovations to the internal structure of the main house, landscaping of gardens and terraces along with a new vehicle access via Wykeham Close into the property's northwest entrances.

2.0 ARBORICULTURAL IMPACT ASSESSMENT

- 2.1 This impact assessment is intended to evaluate the direct and indirect impacts on the trees on the site in relation to the proposed development. Any potential tree impacts below have been identified as per BS5837:2012 section 5.4, and details are given of proposed mitigation.

Removal of Trees and Vegetation

- 2.2 The development has been designed to avoid tree losses as far as possible, however, a small number of trees shall require removal to facilitate the development. Table 3 below describes the tree losses required to facilitate the development. Trees to be retained and removed are shown on the Tree Retention and Protection Plan in

Appendix B.

Table No. 03 – Trees, Hedges and Areas of Scrub Proposed for Removal

BS Category	Tree/Group/Hedge Numbers	Total
B	TG28	1
C	T12, T27	2

- 2.3 The following groups listed below are partial or section removals.
- 2.4 **TG11** - Within this group, 2no northwest stems are to be removed allowing the construction of a retaining wall and the proposed new driveway, the retained crowns are to be shaped to suit, with crown reductions of up to 0.5m.
- 2.5 **TG55** - Within this group, 1no northwest stem is to be removed allowing the ground protection, construction of the proposed new driveway, the retained crowns are to be shaped to suit, with crown reductions of up to 0.5m.

Tree Pruning, Canopy Reduction, or Lifting

- 2.6 Some minor crown lifting and canopy reduction shall be required to allow adequate clearance between trees and the proposed driveway construction as well as access facilitation. This work will be undertaken according to industry best practice BS3998:2010. *Table 4 below* details works required to retained trees to facilitate development, which fall within levels of good arboricultural practice:

Table No. 04 – Tree Surgery Works

Ref. Number	Category	Description of Works
TG16	C	The Southeast canopy will require the low branches to be lifted to ensure there is a minimum clearance of 3.5m from the ground.
TG20	C	The Southeast canopy will require the low branches to be lifted to ensure there is a minimum clearance of 3.5m from the ground.
T29	C	The North canopy will require the low branches to be lifted to ensure there is a minimum clearance of 3.5m from the ground.
T30	B	The entire canopy will require the low branches to be lifted to ensure there is a minimum clearance of 3.5m from the ground.
T32	B	The North canopy will require the low branches to be lifted to ensure there is a minimum clearance of 5m from ground level for access facilitation.
T54	U	The entire canopy will require reducing to 5m creating a monolith

Construction access and storage

- 2.7 In the absence of mitigation, vehicular access might compact soils, harming tree roots. To avoid these impacts, there shall be a defined access route to and from all construction areas, and ground protection areas where access over RPAs is required.
- 2.8 Inappropriate storage of liquids such as fuel, paint or cleaning chemicals might result in spillages with a significant impact upon high-value and or TPO trees. All such liquids will be stored at least 5.0 m from any RPA, and outside of any RPAs. Bunded containers with spill kits will be required and used to minimise the risk of spillage. This

must be present on site before any work starts, including ground preparations and tree works.

A defined route for machinery will be via Wykeham Close and onwards into the proposed site. Due to the compact nature of the surrounding trees and their RPA's, storage of such fuels and chemicals are not to be stored on site.

Compaction of Root Protection Areas

- 2.9 The vast majority of trees to the boundaries of the site are being retained and will be protected using Tree Protective Barriers to prevent any incursion into the root protection area (RPA). A small number of trees, however, will require enabling works and/or an operation zone within their RPAs. Trees which would be impacted are detailed below:
- 2.10 **TG11, H14, T13, TG16, T17, T19, TG20, TG25, T29, T30 and TG55** shall be impacted by the construction of the driveway to all north, south, east and west perimeters of all their RPAs. In the absence of mitigation, major negative impacts would occur in the form of; significant root damage which would facilitate pathogen colonisation and anchorage forces, loss of rooting area resulting in a reduction in water and nutrient availability, soil compaction resulting in a reduction of overall resources available to the tree and potential soil contamination. Collectively, these impacts can cause a significant loss in overall vitality, possibly causing the decline or the death of the tree. To minimise impacts, ground protection measures, as detailed in the below Arboricultural Method Statement, shall be in place for the duration of the construction period in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'. When construction work is complete, the ground protection can be removed. The location of the ground protection measures can be seen in the Tree Retention and Protection Plan **Appendix C**.

Demolition within Root Protection Areas

- 2.11 In the absence of mitigation, the RPA of **TG11** could be disturbed through the removal of existing garden wall structures using inappropriate methods. The removal of existing hard surfaces may sever significant roots, leading to decline and ultimately the failure of these trees if mitigation is not implemented. Mitigation measures, including the manual removal of hard surfaces and the use of ground protection measures where required, shall minimise harm to these trees and ensure their

retention. It is proposed to carefully break up surfaces under arboricultural supervision, whereupon any subbase or other such materials below will be manually dug out where necessary. All additional tree protection measures must be in place before demolition works start on site. Tree protection measures and areas of manual excavation are shown in the Tree Retention and Protection Plan **Appendix B**.

New Hard Surfaces Within Root Protection Areas

- 2.12 The proposals shall require the construction of new hard surfaces (driveway) within the RPAs of trees **TG11, T13, TG16, T17, T19, TG20, TG25, T29, T54** and **TG55**. As per the recommendation of *BS5837:2012 section 7.4.2.3, the new permanent hard surfacing does not exceed 20% of any existing unsurfaced ground within the RPAs of trees to be retained.*
- 2.13 The RPAs of the above trees shall be left undisturbed for as long as possible during the construction period in order to protect the tree-rooting zone. All tree protection fencing should stay in situ at the edge of the RPA for as long as practical and should only be repositioned when works to install the new hard surface are to begin. Additional ground protection may be required at this point, as shown on the Tree Retention and Protection Plan in **Appendix B**. When construction work is complete, the ground protection can be removed.
- 2.14 A 'no-dig' construction method will be utilised to allow the construction of new hard surfaces (driveway) with the RPAs of the above trees without change of existing ground levels, lowering of levels and/or scraping, other than the removal, using hand tools, of any turf layer or other surface vegetation in accordance with BS 5837:2012. The Arboricultural Method Statement describes the installation of a typical no-dig surface, such as a three-dimensional cellular confinement system is to be specified. This follows the recommendations set out in Section 7.4 of British Standard 5837:2012. The final design of the no-dig construction shall be undertaken by the appointed engineer to ensure that it is suitable for the anticipated loading of the surface, however, any design shall be approved by the project arboriculturist.
- 2.15 Works where minor encroachment into the RPA is required, such as garden walls, construction at the edge of the RPA of **TG11**, a trial trench shall be dug along the edge of the proposed hard standing to determine the presence/absence of significant roots. If significant roots are exposed >25mm in diameter, a 'no-dig' solution as

described above shall be used. The trial trenches shall be dug under arboricultural supervision.

Installation of services

- 2.16 There have been no proposals in relation for services within the driveway plan and the Tree Retention and Protection Plan has not allowed for any services within it.
- 2.17 It will have potential significant negative impacts to multiple high-quality trees when it comes to the installation of services due to the proximity of proposed gardens to trees and tree groups. Trenching will not be possible without significant negative impacts and disturbance. All service installations will need to avoid RPAs, as this normally involves an amount of trenching. Should any service installation be required in the RPA, a specialist method statement would need to be provided.

Future Pressures to Retained Trees and Hedges

- 2.18 The resulting proximity of the new structures to retained trees and hedgerows may result in the following pressures;
- the ongoing need to prune the canopy back to prevent damage to the building and facilitate maintenance of the building façade and glazing;
 - altered soil conditions, including access to water and gas exchange, resulting from the proposed surfacing and construction of foundations;
 - shading of the canopy of existing trees.
- 2.19 The majority of future pressures have been avoided through the layout of the scheme, which ensures adequate clearance between retained trees and the development. There are no undue tree shading or canopy encroachment issues anticipated from retained trees towards the proposed buildings and amenity spaces (such as gardens). This has been achieved by suitable development buffers from retained trees, which also allows for future canopy development. Retained trees will not be located within private gardens to ensure that their long-term management remains favourable.
- 2.20 Within the current proposals for the construction the new driveway. There will be minor pressures to prune back the spread of new growth on an annual basis to prevent intrusion into the proposed roadway areas. The impacts of these pressures, however, shall be negligible.

Tree and Hedgerow Loss Mitigation Measures

- 2.21 It is recommended that a scheme of soft landscaping be submitted, which should include tree planting details which address any visual public amenity issues. The tree selection should be appropriate to the site conditions, and species should be selected in accordance with any recommendations provided in the PEA and any subsequent ecology reports. Ideally, the species selected should be native and of proven ecological value to the local environment.
- 2.22 The locations and positioning of mitigation planting in relation to new or existing buildings should take full account of the final canopy height and spread of all trees included within the scheme. All planting should be located a sufficient distance from the predicted canopy line and rooting zones to avoid future pressures to undertake remedial works.

Conclusion

- 2.23 The protection, compensation and enhancement detailed herein have been designed to ensure the ongoing favourable status of the retained trees and vegetation, and the species which use these. Additionally, adherence to the methods detailed will ensure that all works accord with the relevant wildlife legislation and planning conditions. The new driveway and the construction of it over the current ground levels using a cellular confinement design will allow the existing trees and vegetation to live harmoniously within this already thriving environment.
- 2.24 Provided that mitigation planting is in line with current guidelines and all other protection measures are properly enacted, the loss of trees from the site would be adequately compensated and the proposals would accord with the requirements of BS5837.

3.0 ARBORICULTURAL METHOD STATEMENT

Pre-Construction Meeting

- 3.1 A pre-construction meeting will take place between the Construction Manager and Project Arboriculturalist to discuss the programme of works and the timing and implementation of control measures.

Phasing of Operations

- 3.2 Implementation of tree protection shall be carried out as follows:

- 1) Tree/hedgerow/ and vegetation removals and tree surgery
- 2) Tree protection fencing set out by the surveyor in accordance with approved plans.
- 3) Tree protective fencing is installed, and any ground protection is installed as required.
- 4) Fencing and ground protection are to be inspected by the project arboriculturist.
- 5) Site set up, including haulage routes and site compound.
- 6) Demolition / Site clearance followed by construction.
- 7) Inspection of any areas of construction within RPA's by the project arboriculturist.
- 8) Removal of tree protective fencing.
- 9) Remedial tree surgery works (if required).

Contractor Induction

- 3.3 The key requirements of this method statement will be explained during site inductions for contractors. Trees and tree groups that are to be retained and protected will be identified before works commence. A copy of the Tree Works and Demolition Plan in Appendix B, and the Tree Retention and Protection Plan C, will be retained in the site offices for reference.

Tree Removal

- 3.4 All trees designated for removal are to be removed in accordance with the Tree Retention and Protection Plan in **Appendix B**. All tree work and tree removal shall be carried out in accordance with BS 5837:2012 and BS 3998:2010. Prior to the removal and felling of trees, the tree positions shall be agreed with the Arboricultural Consultant, and trees designated for removal and felling shall be marked on-site. Trees shall be felled prior to the erection of the Tree Protective Fencing. Care should be taken during the tree removal process to avoid any damage to any trees which are designated to be retained.
- 3.5 Arisings should not be disposed of by burning on site unless:
- Other options are impracticable, or the material is affected or likely to become affected by a disease or pest for which sanitation is a necessary form of control.
 - NOTE: Attention is drawn to regulations made under: ***The Clean Air Act 1993, The Plant Health Act 1967, The Weeds Act 1959, and the Wildlife and Countryside Act 1981***, in respect of the prevention of the spread of plant and soil pests.

Tree Surgery

- 3.6 All tree work as detailed within the Tree Retention and Protection Plan in **Appendix B**, shall be undertaken by an approved and qualified tree surgeon in accordance with *BS 3998: 2010 'Tree Work: Recommendations'*. Care should be taken to avoid damage to neighbouring trees to be retained. Branches in confined spaces shall be removed and taken down in sections.
- 3.7 Stumps to be removed should be cut away so that the top of the stump shall be at least 450 mm below the final topsoil level in order for the site can be reinstalled in accordance with the existing site levels. Where the depth is greater than 450 mm, the areas shall be backfilled with topsoil to the required level.

- 3.8 Options for retention of and management of stumps, particularly those arising from dead trees, should be considered as these subterranean deadwood habitats are of great ecological benefit. These stumps should not be treated with any form of pesticide or chemical application, as this can be detrimental to the remaining trees and local ecology.
- 3.9 The height of stumps for retention should be determined by management objectives and or site-specific conditions. Stumps should be left in a safe condition and or location that does not pose a hazard.
- 3.10 The removal of shrub or scrub material within the Root Protection Area of any tree to be retained shall employ a Manual Removal method; the use of hand tools shall be used in order to maintain the ground surface of the Root Protection Area and reduce any damage to existing tree roots within the protected root zone. Adjacent trees shall not be utilised as anchors or levers to facilitate the removal of adjacent vegetation.
- 3.11 Vegetation clearance should take place outside the **bird nesting season (nesting season: March-September inclusive)** or alternatively under a watching brief from an ecologist or suitability-qualified professional.

Tree Surgery and Removal Works– Arisings

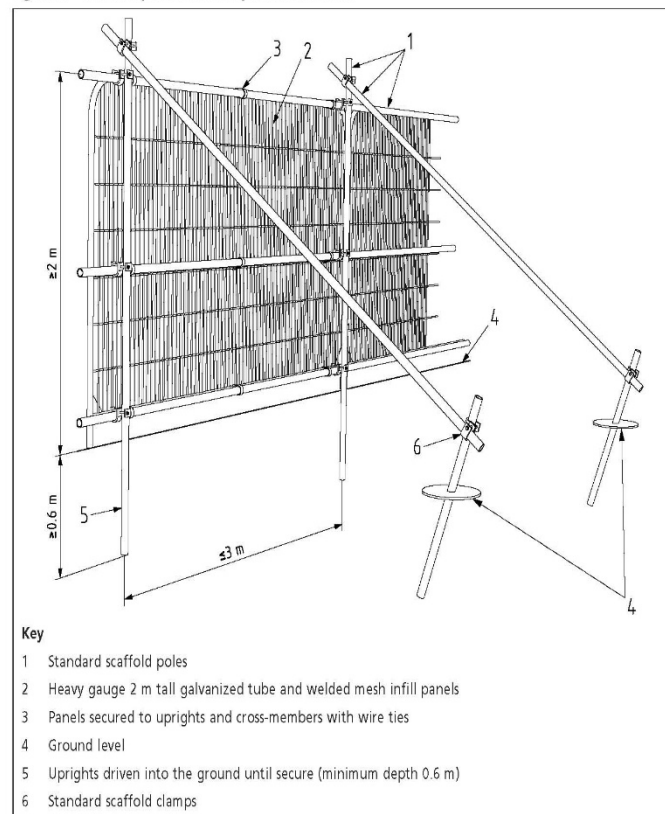
- 3.12 The disposal, utilisation and retention of arisings must be in line with BS 3998: 2010 'Tree Work: Recommendations'. Retaining arisings on or near the site can have conservation benefits and allows the gradual recycling of the mineral nutrients and carbon that they contain. Effective financial gains can be achieved with efficient arisings management planning.
- 3.13 Before any work on a tree commences, it should be agreed on what is to happen to the arisings (such as retained or removed from the site). Any arisings remaining on the site should be stored safely in locations agreed with the client. The following should be taken into account when deciding what is eventually to be done with the arisings:
- Site usage: access, space, and safety;
 - Scope for utilisation (such as use of woodchip for mulch, weed suppressant, etc.)

- Wildlife and habitat, particularly where veteran trees are present and invertebrate colonisation is likely.
- The disposal, utilisation and retention of arisings must be in line with BS 3998: 2010 'Tree Work: Recommendations'. Retaining arisings on or near the site can have conservation benefits and allows the gradual recycling of the mineral nutrients and carbon that they contain.

Tree Protection Fencing

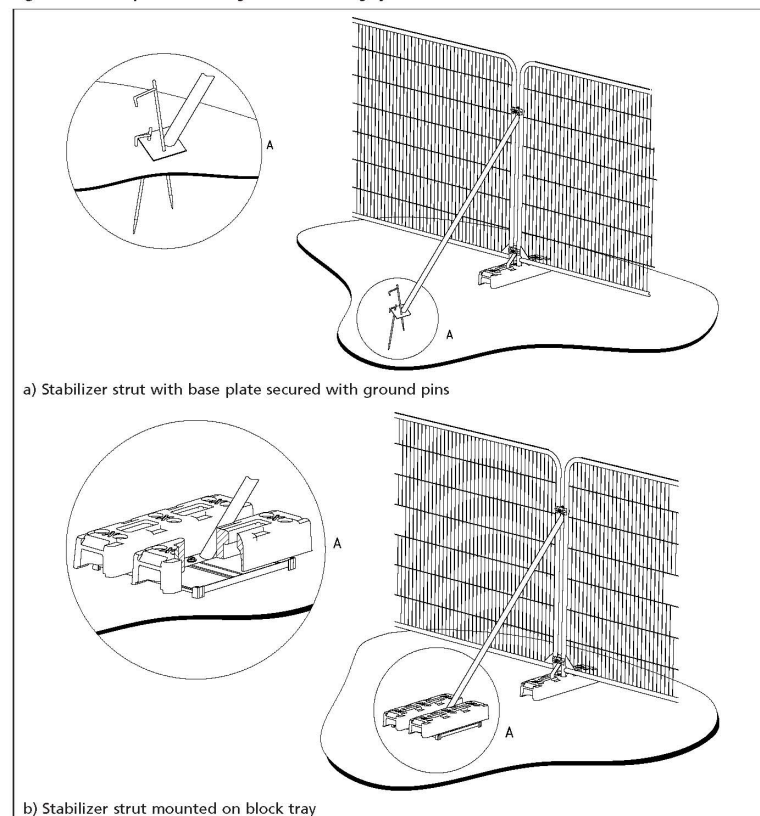
- 3.14 All trees to be retained on site shall be protected with barriers installed at the locations as shown in the Tree Retention and Protection Plan in **Appendix B**. All barriers shall be installed, protected and maintained during the main works by the appointed contractor.
- 3.15 The installed protective barrier shall be 2.0 metres minimum height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned to the outside edge of the existing Tree Root Protection Area. Where existing ground conditions do not allow for the above method, the Welded Wire Mesh Fencing Panels may be mounted on concrete or rubber feet, supported on the inner side with stabilizer struts fixed on a block tray or secured with ground pins, and positioned as specified. The barrier should be strained and fixed to fences, walls, and knee rails where possible to provide a completely protected area (*refer to Figure 2 and Figure 3 below; © British Standards Institute 2012*). All tree protection is to be in accordance with *BS 5837: 2012; 'Trees in Relation to Design, Demolition and Construction - Recommendations'*.
- 3.16 Any requirement for modifications to the prescribed protection fencing specification, for example, where installation space is restricted, will be discussed and agreed upon with the Project Arboriculturist before being implemented.

Figure 2 Default specification for protective barrier



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Figure 3 Examples of above-ground stabilizing systems



- 3.17 Day-Glo ribbons shall be maintained during the main works by the Main Contractor attached to the top of the barrier to ensure that the fencing is clearly visible during the works. The tree protection barrier shall display all-weather notices stating *'Construction Exclusion Zone-Tree Root Protection Zone – NO unauthorised access,* as a minimum.
- 3.18 Once installed the protection fencing will be inspected by the Project Arboriculturalist before any construction works begin. Fencing locations will not be altered without prior approval of the supervising arboriculturist.
- 3.19 All such barriers shall be maintained for the full contract period. The Construction Manager will be directly responsible for ensuring the protection fencing remains rigid and complete during the entire works programme. Repairs will be acted upon immediately to ensure continued protection.
- 3.20 Within the protected areas, the following activities must not take place;
- Fencing locations will not be altered without prior approval of the supervising arboriculturist.
 - No unauthorised persons shall enter the protection area;
 - No vehicles, machines or plant are to be used;
 - No materials are to be stockpiled or stored;
 - No chemicals are to be stored;
 - No excavation or increase in the soil level shall occur;
 - No fires shall be lit.
 - No chemicals and fuels should be stored within **5m** of a Tree Root Protection Zone.

Site Compound, Haulage Routes and Car Parking

- 3.21 All site compounds, car parking, and haul routes will be located outside of the tree protection fencing. The compound area shall be located to not incur damage or injury to the root systems or canopy of any existing trees or vegetation within or adjacent to the site, in accordance with BS 5837:2012 – 'Trees in Relation to Design, Demolition and Construction – Recommendations'. All site operations associated with the usage of the compound area shall be undertaken with due care and attention to negate damage to the surrounding environment.

Pollution Control

3.22 Pollution control is intended to prevent pollutants from contaminating RPAs, and it will be necessary to control pollution risks wherever risk assessment identifies a significant risk of harm. Spilt solid or liquid chemicals which can reach RPAs can kill roots, prevent root growth, and cause harm which could result in the death of a tree or tree group. Suitable provisions must be made to minimise the risk of soil contamination within the normal risk management protocols for the site.

- All chemical stores and mixing areas must be located outside of RPAs.
- No chemicals and fuels should be stored within 5m of a Tree Root Protection Zone.
- Precautionary measures such as bunded spill kits and additional bunding sufficient to prevent contamination must be present on-site to be used to contain accidental spillages and prevent damage to retained trees.

Protection and Retention of Existing Trees and Habitats

3.23 The Contractor shall exercise due care when performing operations beneath the canopy of existing mature trees and vegetation designated for protection and avoid at all times damage to the roots, trunk and branches.

3.24 The Contractor shall train all members of the construction workforce operating within the proximity of valued habitats and make such persons aware that there shall not be, without having sought prior notification, the following operations undertaken within the protected areas:

- Dumping of spoil or rubbish, excavation or disturbance of topsoil, parking of vehicles or plant, storing of materials or placing of temporary accommodation within an area which is the larger of the branch spread of the tree or an area with a radius of half the tree's height, measured from the trunk, and within the specified Root Protection Areas;
- Severance of roots exceeding 25 mm in diameter. If unintentionally severed, notice shall be given, and specialist arboricultural advice sought;

- Changes to the level of the ground within the specified Root Protection Areas;
- Vegetation clearance to site boundaries during the bird nesting season (nesting season: March-September inclusive). Any clearance must be undertaken outside nesting season or alternatively under a watching brief from a suitability-qualified ecologist.

Ground Protection Measures

- 3.25 Where construction operations require activity within the exposed unmade ground of any existing tree Root Protection Area, temporary ground protection measures should be implemented as shown in the Tree Retention and Protection Plan in **Appendix B**. The ground protection measures should be accurately laid out and implemented before the demolition and/or construction works.
- 3.26 Ground protection must be fit for the purpose of supporting the level of traffic entering or using the site within RPAs without being distorted or causing compaction of the underlying soil. The appropriate solutions include:
- For pedestrian movements or the erection of scaffolding within the RPA – a single layer of scaffold boards either on top of a driven scaffold frame, to form a suspended walkway, or on top of a compression-resistant layer, e.g., 100 mm depth of woodchip laid onto a geotextile;
 - For pedestrian-operated plant (up to a gross weight of 2 t) – proprietary, inter-linked ground protection boards or panels laid on top of a compression-resistant layer, e.g., 150 mm depth of woodchip laid onto a geotextile membrane;
 - For vehicular access (exceeding a gross weight of 2 t) – an alternative system subject to the engineer's specification appropriate for expected loads, is designed in consultation with the project Arboriculturist.

3.27 The process for the installation of ground protection is as follows:

- 1) Discuss the procedure with the project arboriculturist.
- 2) Dismantle primary protection fencing and re-erect in the secondary location as shown on the Tree Retention and Protection Plan in **Appendix B**.
- 3) Any shrubs, saplings, or trees to be removed are to be cut or ground out to just below ground level rather than grubbed or winched out, which can damage the roots of retained trees.
- 4) Lay woven geotextile over the existing ground surface by hand.
- 5) Cover the area with a compressible layer, woodchip, for example, using hand tools only.
- 6) Cover the compressible layer with side butting scaffold boards or plywood boards.
- 7) Confirm the surface is acceptable for use with the project arboriculturist.
- 8) Area ready for construction access.

Manual Excavation

3.28 Where the development proposals necessitate the tying in and re-grading of existing and proposed levels for vehicular access or include the implementation of underground services such as services, cables, and pipe work; a '*Manual Excavation Method*' must be assumed using handheld tools to minimise the impact on existing trees. The excavation should be executed with due care and attention not to disturb exposed unmade ground and any existing tree roots present within it.

3.29 Roots over 25mm in diameter or those occurring in clumps must not be severed without Arboricultural advice. Tree roots below such size should be cut cleanly using specialised hand tools only and to the minimum extent to allow provision. All exposed roots should be immediately wrapped and tied in dry Hessian to avoid drying. On completion of the excavation and at the earliest opportunity, the wrapping should be removed, and the roots surrounded and protected with a loose granular fill (clean washed sharp sand or topsoil free of contaminants or matter injurious to rooting systems) prior to backfilling the excavation to the desired levels.

Demolition in Proximity to Trees

- 3.30 Sensitive demolition of buildings and structures within RPAs will occur under supervision from the project arboriculturist. Any existing tree protection fencing shall be removed to allow access to the demolition area. Buildings shall be demolished in such a way that the building folds in on itself. Debris may be removed by plant machinery provided appropriate ground protection is in place and no incursion into unprotected soft ground occurs.
- 3.31 The floor of the building / surrounding hard standing is to be broken up and carefully removed from the RPA. Underlying ground levels are to be retained, and any exposed roots and newly exposed areas of soft ground are to be covered with up to 100mm of topsoil (**to BS3882:2015**). Soil must be spread by hand to avoid compaction of the RPA. Tree protection fencing must be re-installed at the agreed location on completion of demolition works.
- 3.32 Best practice must be adhered to at all times to avoid any contamination of the soil by fuel or other chemicals. If such a situation arises, the project arboriculturist must be notified to assess the situation and prescribe remedial measures.

Pile and Beam Construction

- 3.33 The use of traditional strip footings can result in damage to roots and subsequent failure of trees and should therefore be avoided. For the purpose of retention of good quality trees, the application of specially engineered structures and solutions that would minimize impact on the existing trees are acceptable alternatives. A site-specific and specialist advice regarding foundation design should be sought from the Project Engineer.
- 3.34 In shrinkable soils, the foundation design should take into account the risk of indirect damage.
- 3.35 Root damage can be minimised by the implementation of pile and beam construction techniques. The following aspects of the design should be accounted for:

- 3.36 Piles – optimal location determined through site investigation, to avoid damage to roots important for the stability of the tree, by means of hand tools or compressed air soil displacement (air lance), to a minimum depth of 600 mm. The smallest practical pile diameter should be used to minimize the risk of striking a major root. The smallest practical pile rig should be used to facilitate works within the canopy spread of existing trees. To protect the soil and adjacent roots from the potentially toxic effects of uncured concrete, the use of sleeved bored pile or screw pile should be accounted for;
- 3.37 Beams – laid at or above ground level and cantilevered as necessary to avoid tree roots identified by site investigation.

New Hard surfacing within Root Protection Areas

- 3.38 Where new surfacing and means of access within Root Protection Areas have been proposed, the construction method should be implemented to avoid intrusion into or change of existing ground levels within the tree Root Protection Areas of existing trees.
- 3.39 A 'No Dig' Construction should allow for the paving of specified areas within or adjacent to tree Root Protection Areas to be constructed without disturbance to root systems.
- 3.40 Ground levels should not be raised or lowered within the existing tree Root Protection Areas. A permeable surface treatment should be laid over the existing ground, allowing water to permeate and allow for nutrient access and gaseous exchange.
- 3.41 The construction area / existing ground within the existing tree RPA is to be overlain with a geo-membrane and covered with a granular fill of no fines - open-graded aggregate incorporated within a 3-dimensional cellular confinement system. This should ensure a minimum supportive depth of 200mm for vehicular access/ 100mm for pedestrian footpaths, above which a permeable surface treatment should be laid. The pH of the aggregate must be near neutral to avoid damage to pH-sensitive tree species.

- 3.42 Existing paving material overlying the RPA of existing trees should be left undisturbed during the construction period in order to protect the Root Protection Area of the tree to be retained. The existing paving/ hard standing can then be reused as a base for the proposed surfacing, subject to the Engineer's specification.
- 3.43 All retaining kerb restraints/edge supports are to be secured above ground, and no general excavation within existing tree RPAs should be permitted.
- 3.44 Where stepped or ramped access has been proposed within the RPAs of existing trees, this should be constructed with limited disturbance to the existing ground. A raised frame supported upon posts concreted in the ground is recommended. The holes for the footing to posts should be dug out using handheld tools. The sides of the holes should be lined with an impermeable membrane to prevent the caustic and toxic effects of wet cement in the concrete from damaging tree roots.
- 3.45 If the new surface is likely to be subject to de-icing salt application, an impermeable barrier should be incorporated to prevent contamination of the rooting area.

Services in Proximity to Existing Trees

- 3.46 The location and direction of new services should be designed to allow for services to be routed away from the RPAs of existing trees. Existing service runs should always be used wherever possible.
- 3.47 Where the proposed routing of services impinges upon the tree RPA of any existing tree to be retained; the routing should be undertaken as a minimum standard in accordance with ***NJUG Volume 4, issue 2: 'Guidelines for the Planning, Installation and Maintenance of Utility Apparatus in Proximity to Trees'***.
- 3.48 A 'Manual Excavation Method' is to be followed to carefully hand-dug and route the apparatus most directly to and from the exterior of the RPA radius.
- 3.49 Services are to be routed together wherever possible to create the minimum impact upon the roots of the existing trees to be retained. Trench excavation across the tree Root Protection Area radius beside an existing tree should be avoided, whereby tree roots would become severed. Where services are to cross the edge of an existing RPA, they should be routed via a hand-dug ducting sleeve, avoiding damage to roots.

Installation of Fencing

- 3.50 Proposed new fencing to residential gardens shall be installed following the removal of tree-protective fencing and ground protection measures. Post holes within the RPAs shall be manually dug, and shall not sever any major roots. Roots over 25mm in diameter or those occurring in clumps must not be severed without Arboricultural advice. Where absolutely necessary, tree roots below such size should be cut cleanly to the minimum extent to allow works to proceed.

Hard and Soft Landscaping

- 3.51 The Arboricultural Consultant should review any landscape operations that involve any work within the RPAs of retained trees and input additional site-specific methodology where necessary.
- 3.52 The existing ground levels within the RPA of the retained trees must be retained and incorporated into the finished landscaped development. Where changes in level occur, these are to be either graded into the finished levels starting outside the RPA or alternatively, retaining wall structures are to be used to differentiate between the different levels.
- 3.53 All soft and hard landscaping within the RPAs must be carried out manually, and the soil levels must not be lowered or raised, resulting in root damage to the trees. All finished surfaces are to be porous to allow the free movement of water and gaseous exchange to the roots.

Future Tree Surgery Works - Dead branches

- 3.54 All deadwood features should be managed in accordance with BS 3998-2010: Tree work Recommendations.
- Safety needs should be balanced against wildlife habitat protection.
 - Dead branches should be shortened or, if necessary, removed if they pose an unacceptable risk to people or property and if other options (e.g. diverting a footpath) are not practicable.

3.55 When deciding whether dead branches or dead trees should be retained and, if so, to what extent they might need to be pruned, a balance should be made between the mitigation of risk and the maintenance of wildlife habitats. The unnecessary loss of deadwood habitats should be avoided when specifying pruning or other works, particularly if legally protected species are using the tree. The following risk factors should be taken into account:

- the location (e.g., whether the deadwood overhangs a target that cannot be readily moved, such as a highway);
- the wood properties and decay characteristics of the species concerned.
- the size of the deadwood.

Future Tree Surgery Works - Standing Dead Trees

3.56 Where standing dead trees are retained, their height should be reduced if this is required for mitigation of present or future risks. They should be inspected periodically, and further work should be undertaken (either felling or progressive reduction, depending on practicability) if necessary to keep risks within acceptable limits.

Further Ecological Enhancement Methods

3.57 Further enhancement can be/will be achieved with the utilisation of arisings resulting from vegetation removal or clearance works within the site.

3.58 Arisings will be retained for use as deadwood habitat log piles at the base of the existing trees and woodland foliage. Piles shall be made from arisings of native vegetation taken from the site or surrounding areas where possible. Piles should contain both larger logs (with gaps between), brash and branches and smaller leaf litter and cuttings/ grass clippings, to create varied conditions.

3.59 All branches and stems larger than 75mm in diameter can/will be retained for use as deadwood habitat log piles at the base of the existing foliage. These are best left in lengths of a metre or more, but smaller sections will also be suitable. In suitable areas, these can also be pushed under the bottom of the hedgerows and areas of scrub where they will provide suitable habitat for a plethora of invertebrates and in turn, suitable refuge and forage for small mammals, birds, reptiles, and amphibians.

- 3.60 Retaining arisings on or near the site can have conservation benefits and allows for the gradual recycling of the mineral nutrients and carbon that they contain, which will further enrich the trees on site.

Ongoing Management of Trees, Hedges and Native Shrubs

- 3.61 To ensure the trees and/ or hedges continue to be a useful ecological feature, they shall not be cut overly frequently and shall be allowed to become relatively dense and tall. Any hedges on site shall be cut outside of the bird nesting season (which generally runs March-August inclusive) and not more than once every three years. Minor trimming of stray branches over paths, etc., can be carried out more regularly if required.
- 3.62 Any sections of new planting or failed newly planted trees will need to be replaced, and species and sizes will have to be matched with what has been lost.

4.0 SCHEDULE OF SUPERVISION

4.1 To ensure works accord with the recommendations and the British Standard, works shall proceed as per the below schedule of supervision. **The schedule below must be provided to the main contractor – it is the responsibility of the landowner/developer to ensure compliance with the schedule below. Failure to comply is likely to result in a breach of planning conditions and/or environmental legislation.** Photographic evidence shall be taken at each stage such that a final completion report can be provided to the local planning authority to confirm works have been undertaken in accordance with this method statement.

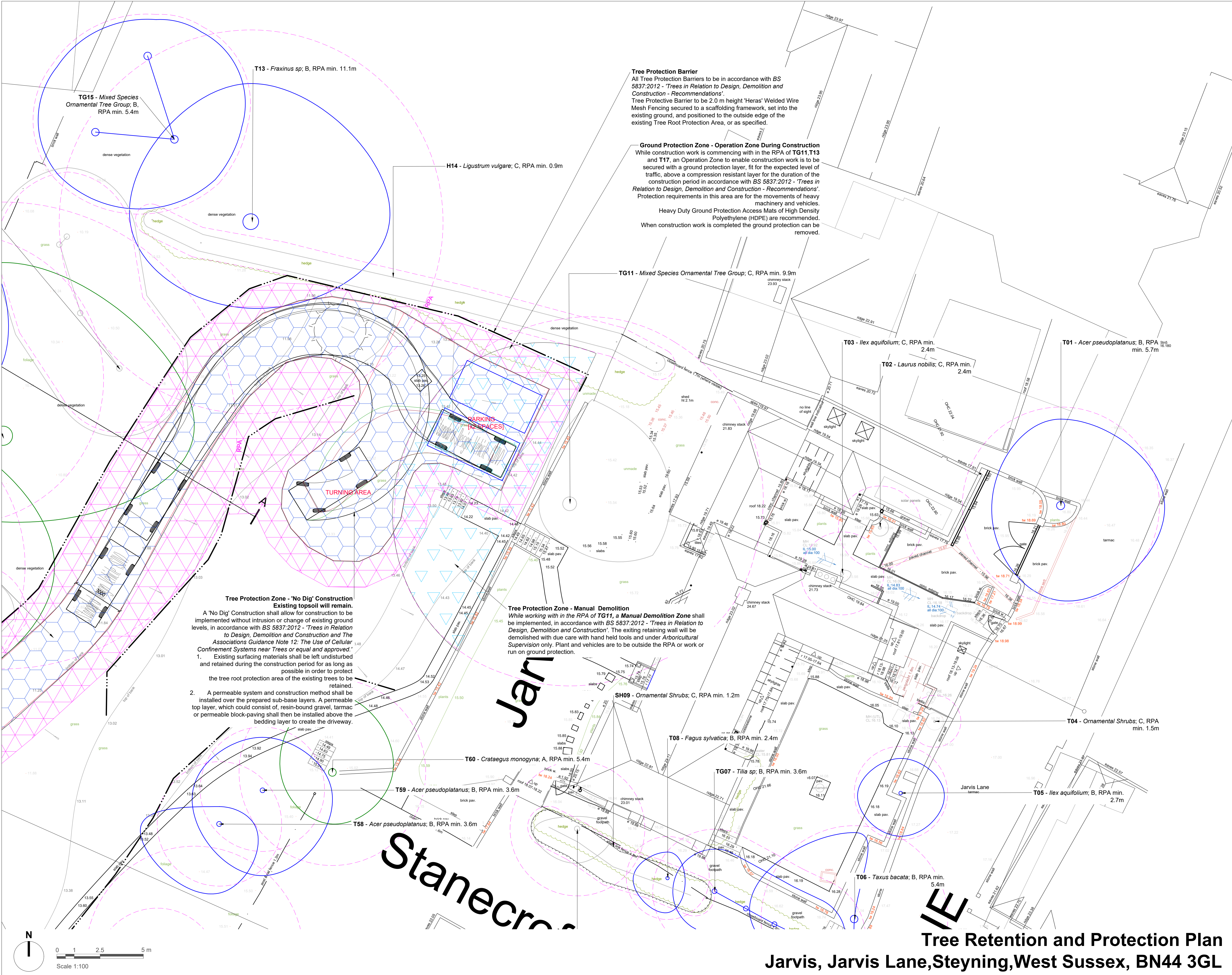
Table No. 05 – Schedule of Supervision

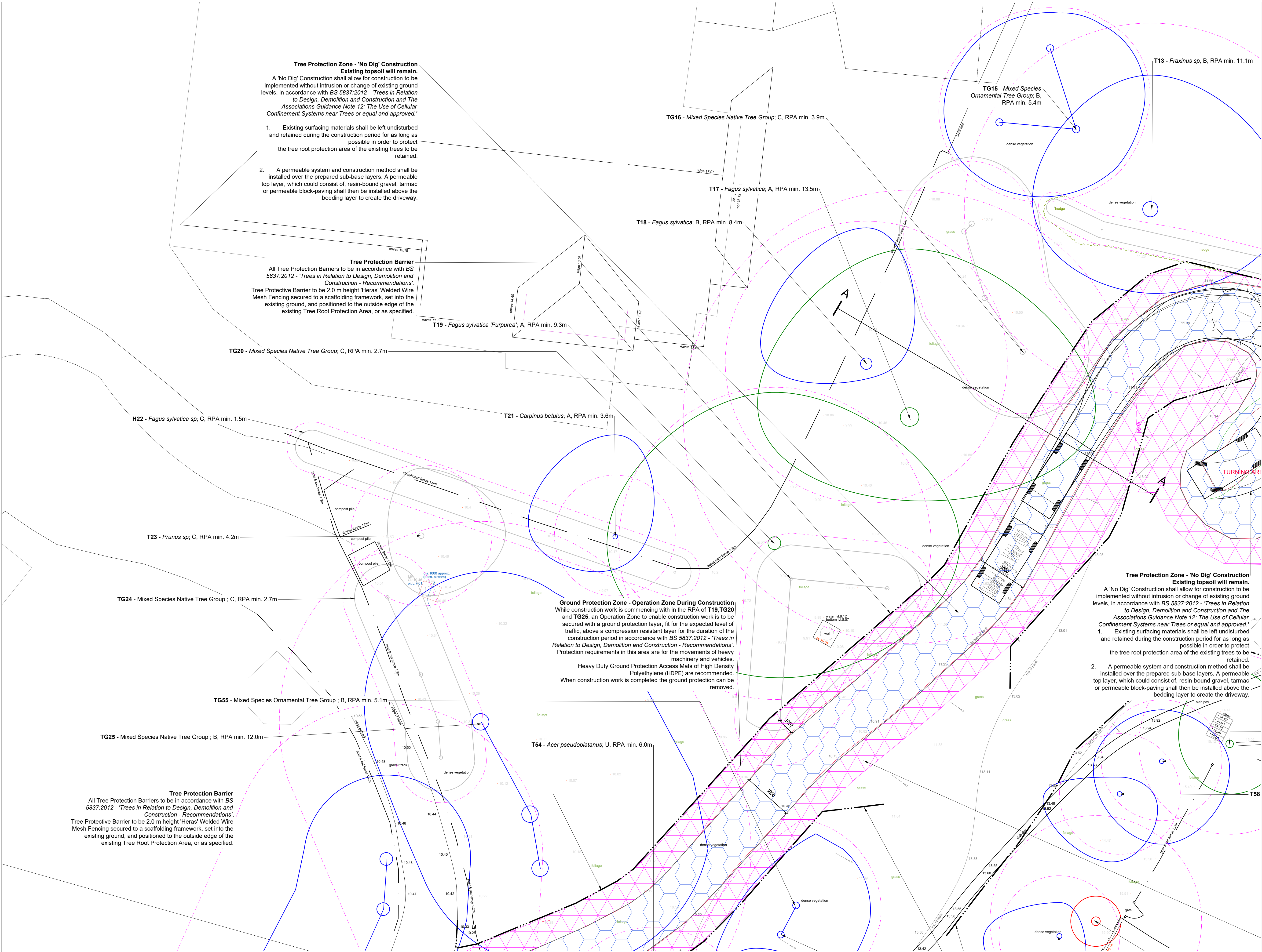
Works	Responsibility	Notes	Sign off & Date
Pre-commencement Meeting	Construction Manager and Project Arboriculturist	To discuss the programme of works, the timing and implementation of the tree works and the tree protection measures.	
Tree/ Hedge and Vegetation removal works	Construction Manager and Project Arboriculturist	Project Arboriculturist to mark trees for removal and/or surgery works.	
Installation of tree-protective fencing and ground protection	Construction Manager and Project Arboriculturist	Set out as per TRPP. Fencing and ground protection measures are to be inspected by the project arboriculturalist.	
Monthly inspection of protective fencing	Construction Manager	Construction manager to inspect fencing. Any issues are to be reported to the project arboriculturalist.	
Demolition within RPA's	Construction Manager	All works are conducted as per the method statement. Photographic record to be sent to the project arboriculturalist to evidence works.	
Trial Pits	Construction Manager and Project Arboriculturist	Trail pits are to be dug at an agreed location under arboricultural supervision.	

Manual excavation within RPA's	Construction Manager	Works undertaken in accordance method statement. The project arboriculturalist to be contacted should roots larger than 25mm in diameter be encountered.	
Installation of hard surfaces within RPA's.	Construction Manager, Engineer and Project Arboriculturist	All works are conducted as per the method statement. Specification of no-dig construction is to be agreed upon with the engineer and arboriculturalist. Photographic record to be sent to the project arboriculturalist to evidence works.	
Building Construction within RPA's	Construction Manager, Engineer and Project Arboriculturist	All works are conducted as per the method statement. Specification of foundation design to be agreed with the engineer and arboriculturalist. Photographic record to be sent to the project arboriculturalist to evidence works.	
Removal of tree protective fencing	Construction Manager and Project Arboriculturist	Only to be removed at the end of the construction period and following authorisation from the Project Arboriculturalist.	

Appendix A – Tree Survey Schedule

Appendix B – Tree Retention and Protection Plan





Legend

T02

Tree, Hedgerow and Shrub Numbers.

Tree Root Protection Areas

Specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Category A Trees

Trees of High Quality and Value to be Retained.

Category B Trees

Trees of Moderate Quality and Value to be Retained.

Category C Trees

Trees of Low Quality and Value to be Retained.

Category U Trees

Trees unsuitable for long term retention.

Existing Trees to be Removed

All operations to be in accordance with BS3998:2010 - 'Tree Works- Recommendations'

Existing Shrubs and Hedges to be Removed

Tree Protection Barrier

All Tree Protection Barriers to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.
2.0 m height 'Heras' Welded Wire Mesh Fencing secured and positioned as specified.

Proposed Tree Surgery Works

Tree Surgery operations to be in accordance with BS 3998:2010 - 'Tree Works - Recommendations'.

Protection Zone - 'No Dig' Construction

Works to be implemented without intrusion or change of existing ground levels, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Protection Zone - Operation Zone During Construction.

An Operation Zone shall be implemented within the Root Protection Area. Ground protection, fit for the expected level of traffic, shall be secured for the duration of the construction period in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Protection Zone - Manual Excavation / Demolition

Limited Manual Excavation / Demolition Zone shall be implemented, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'. All works shall be undertaken with due care with hand held tools under Arboricultural Supervision only.

Protection Zone - 'Pile and Beam' Construction

Implementation of foundations to proposed structures within RPAs of existing trees shall be carried out using small diameter piles and beams to minimise disturbance to rooting zone. Location and density of piles subject to site/ ground investigation. Construction details to Engineer's specification.

Notes:

1. Drawing to be read in colour.

2. For details of existing trees and vegetation refer to: LLD3620-ARB-SCH-001 - Existing Tree Schedule;

3. For assessment of effects of the proposed development on existing trees refer to LLD3620-ARB-REP-001- Arboricultural Impact Assessment and Method Statement.

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Client

Gordon Sutherland

Project Title and Location

Jarvis

Jarvis Lane, Steyning, West Sussex, BN44 3GL

Drawing Title

Tree Retention and Protection Plan

Scale

1:100@A1

Drawn

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Approved

GO

Date

25/11/2025

Drawing No

LLD3620-ARB-DWG-021

Revision

01

Tree Retention and Protection Plan

Jarvis, Jarvis Lane, Steyning, West Sussex, BN44 3GL

Tree Protection Zone - 'No Dig' Construction
Existing topsoil will remain.
A 'No Dig' Construction shall allow for construction to be implemented without intrusion or change of existing ground levels, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction and The Associations Guidance Note 12: The Use of Cellular Confinement Systems near Trees or equal and approved.'

- Existing surfacing materials shall be left undisturbed and retained during the construction period for as long as possible in order to protect the tree root protection area of the existing trees to be retained.
- A permeable system and construction method shall be installed over the prepared sub-base layers. A permeable top layer, which could consist of, resin-bound gravel, tarmac or permeable block-paving shall then be installed above the bedding layer to create the driveway.

Tree Protection Barrier
All Tree Protection Barriers to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.
Tree Protective Barrier to be 2.0 m height 'Heras' Welded Wire Mesh Fencing secured to a scaffolding framework, set into the existing ground, and positioned to the outside edge of the existing Tree Root Protection Area, or as specified.

Legend

T02 Tree, Hedgerow and Shrub Numbers.

Tree Root Protection Areas
Specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Category A Trees
Trees of High Quality and Value to be Retained.

Category B Trees
Trees of Moderate Quality and Value to be Retained.

Category C Trees
Trees of Low Quality and Value to be Retained.

Category U Trees
Trees unsuitable for long term retention.

Existing Trees to be Removed
All operations to be in accordance with BS3998:2010- 'Tree Works- Recommendations'

Existing Shrubs and Hedges to be Removed

Tree Protection Barrier
All Tree Protection Barriers to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.
2.0 m height 'Heras' Welded Wire Mesh Fencing secured and positioned as specified.

Proposed Tree Surgery Works
Tree Surgery operations to be in accordance with BS 3998:2010 - 'Tree Works - Recommendations'.

Protection Zone - 'No Dig' Construction
Works to be implemented without intrusion or change of existing ground levels, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Protection Zone - Operation Zone During Construction.
An Operation Zone shall be implemented within the Root Protection Area. Ground protection, fit for the expected level of traffic, shall be secured for the duration of the construction period in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Protection Zone - Manual Excavation / Demolition
Limited Manual Excavation / Demolition Zone shall be implemented, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'. All works shall be undertaken with due care with hand held tools under Arboricultural Supervision only.

Protection Zone - 'Pile and Beam' Construction
Implementation of foundations to proposed structures within RPAs of existing trees shall be carried out using small diameter piles and beams to minimise disturbance to rooting zone. Location and density of piles subject to site/ ground investigation. Construction details to Engineer's specification.

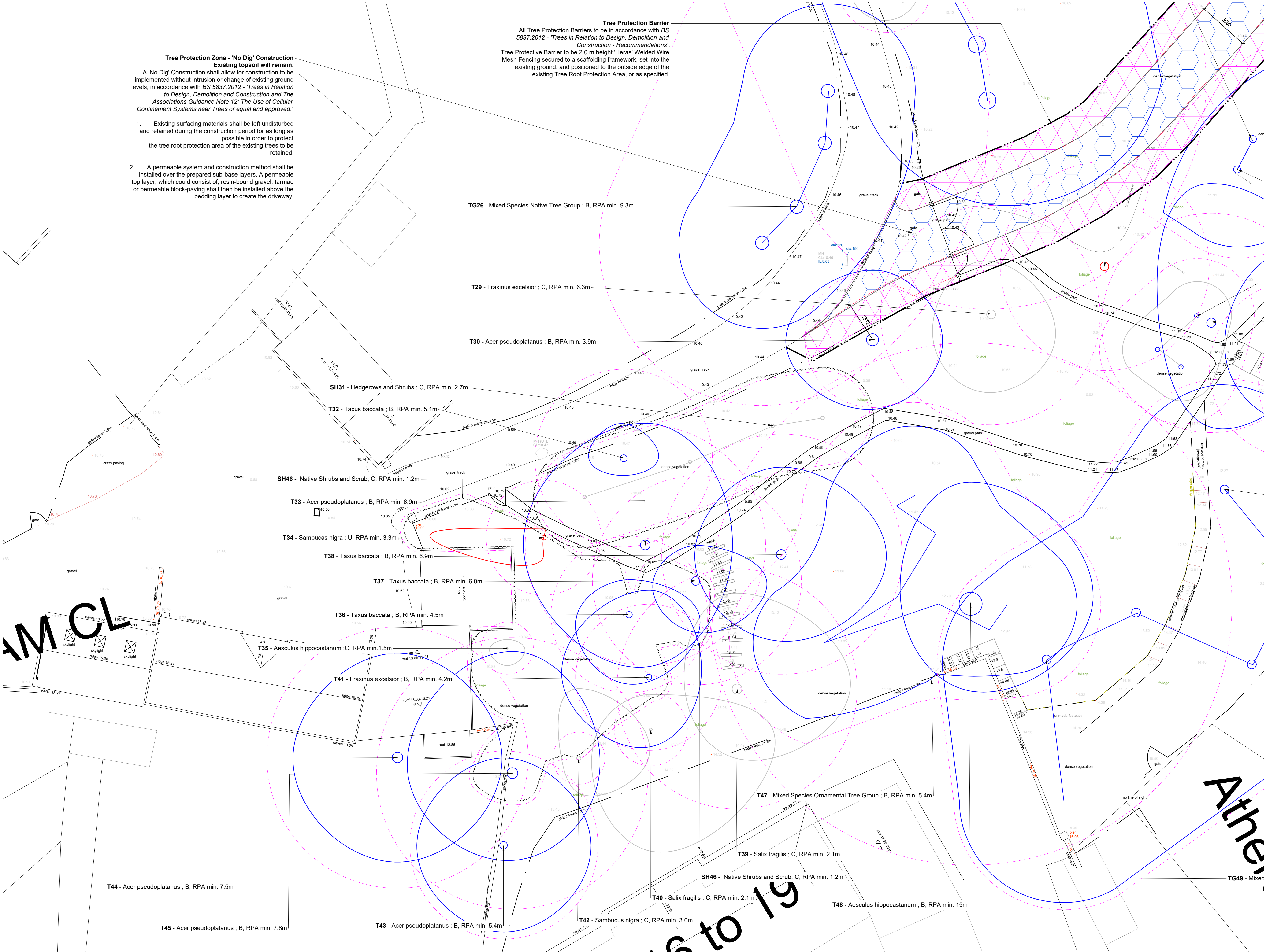
Notes:
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2. For details of existing trees and vegetation refer to: LLD3620-ARB-SCH-001 - Existing Tree Schedule;
3. For assessment of effects of the proposed development on existing trees refer to LLD3620-ARB-REP-001- Arboricultural Impact Assessment and Method Statement.

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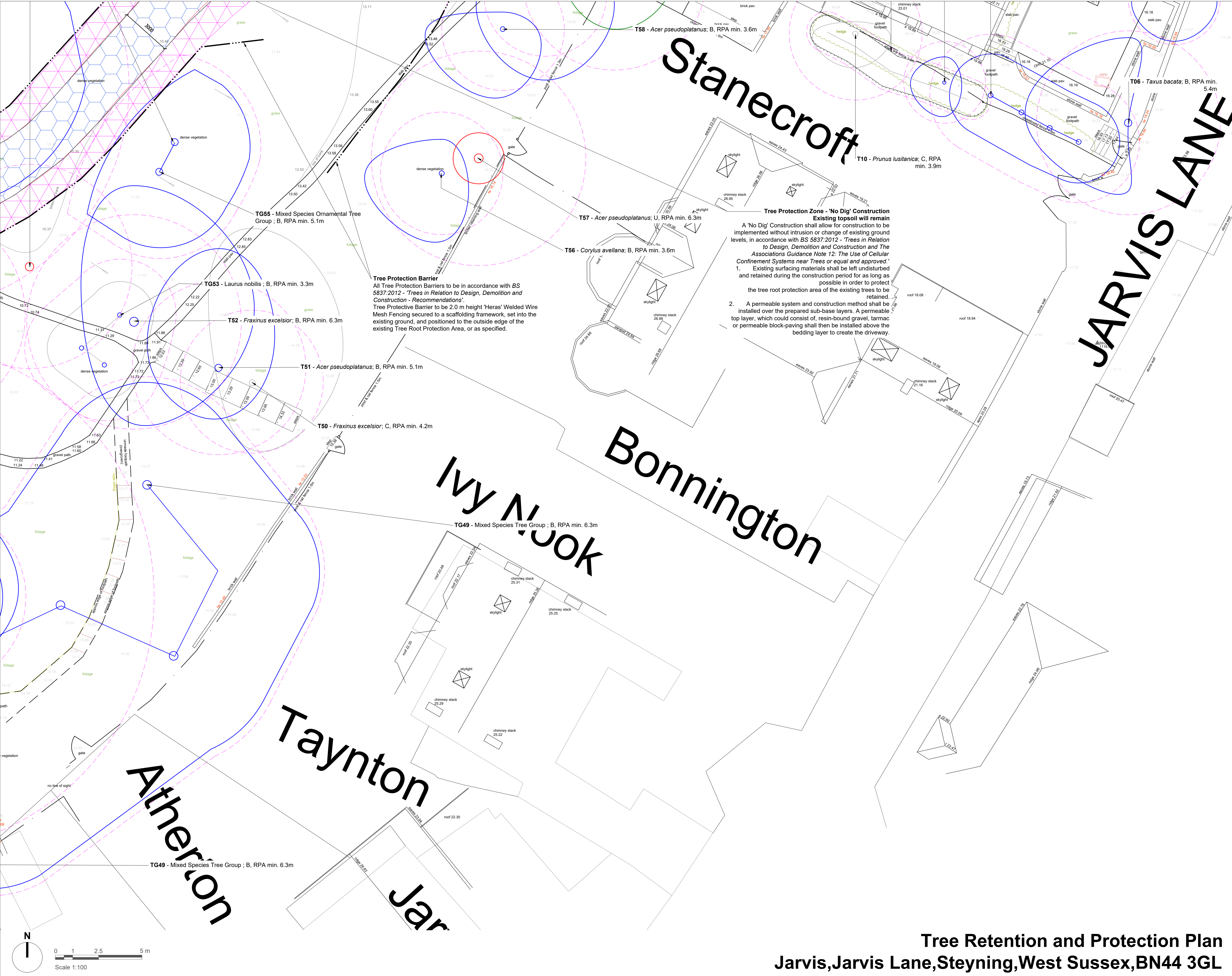
Rev	Description	Date	Initials
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Project Title and Location Jarvis			
Jarvis Lane, Steyning, West Sussex, BN44 3GL			
Drawing Title Tree Retention and Protection Plan			
Scale 1:100@A1	Drawn LEB	Approved GO	Date 25/11/2025
Drawing No LLD3620-ARB-DWG-022	Revision 01		



Tree Retention and Protection Plan
Jarvis, Jarvis Lane, Steyning, West Sussex, BN44 3GL



Legend

T02

Tree, Hedgerow and Shrub Numbers.

Tree Root Protection Areas

Specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Category A Trees

Trees of High Quality and Value to be Retained.

Category B Trees

Trees of Moderate Quality and Value to be Retained.

Category C Trees

Trees of Low Quality and Value to be Retained.

Category U Trees

Trees unsuitable for long term retention.

Existing Trees to be Removed

All operations to be in accordance with BS3998:2010 - 'Tree Works- Recommendations'

Existing Shrubs and Hedges to be Removed

Tree Protection Barrier

All Tree Protection Barriers to be in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.
2.0 m height 'Heras' Welded Wire Mesh Fencing secured and positioned as specified.

Proposed Tree Surgery Works

Tree Surgery operations to be in accordance with BS 3998:2010 - 'Tree Works - Recommendations'.

Protection Zone - 'No Dig' Construction

Works to be implemented without intrusion or change of existing ground levels, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Protection Zone - Operation Zone During Construction.

An Operation Zone shall be implemented within the Root Protection Area. Ground protection, fit for the expected level of traffic, shall be secured for the duration of the construction period in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Protection Zone - Manual Excavation / Demolition

Limited Manual Excavation / Demolition Zone shall be implemented, in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'. All works shall be undertaken with due care with hand held tools under Arboricultural Supervision only.

Protection Zone - 'Pile and Beam' Construction

Implementation of foundations to proposed structures within RPAs of existing trees shall be carried out using small diameter piles and beams to minimise disturbance to rooting zone. Location and density of piles subject to site/ ground investigation. Construction details to Engineer's specification.

Notes:

1. Drawing to be read in colour.

2. For details of existing trees and vegetation refer to: LLD3620-ARB-SCH-001 - Existing Tree Schedule;

3. For assessment of effects of the proposed development on existing trees refer to LLD3620-ARB-REP-001- Arboricultural Impact Assessment and Method Statement.

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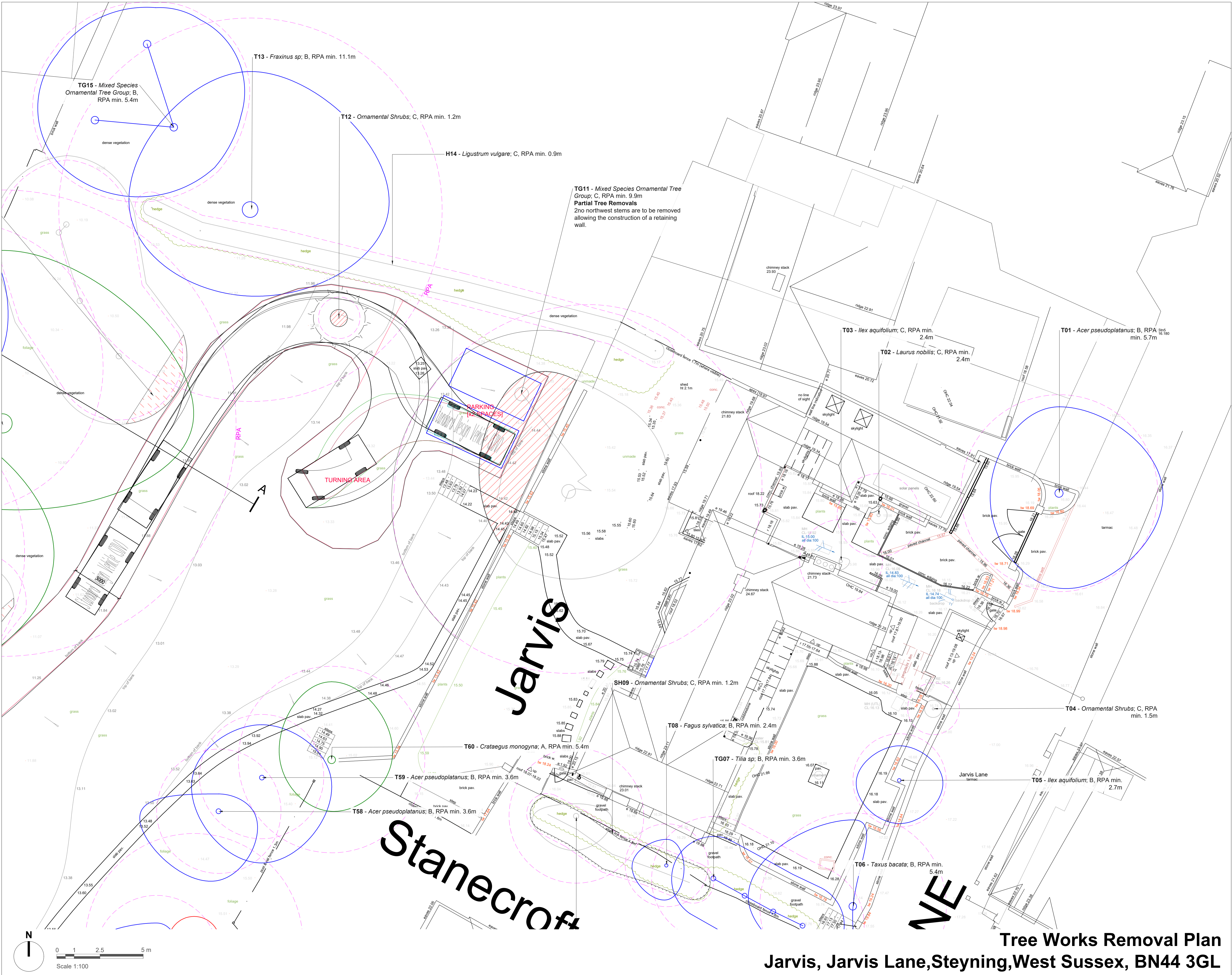
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Tree Retention and Protection Plan

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Drawing No	Revision
LLD3620-ARB-DWG-023	01

Tree Retention and Protection Plan

Jarvis, Jarvis Lane, Steyning, West Sussex, BN44 3GL



Legend

T02

Tree, Hedgerow and Shrub Numbers.

Tree Root Protection Areas
Specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Category A Trees
Trees of High Quality and Value to be Retained.

Category B Trees
Trees of Moderate Quality and Value to be Retained.

Category C Trees
Trees of Low Quality and Value to be Retained.

Category U Trees
Trees unsuitable for long term retention.

Existing Trees to be Removed
All operations to be in accordance with BS3998:2010- 'Tree Works- Recommendations'.

Existing Shrubs and Hedges to be Removed

Proposed Tree Surgery Works
Tree Surgery operations to be in accordance with BS 3998:2010 - 'Tree Works - Recommendations'.

- Notes:
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 - For assessment of effects of the proposed development on existing trees refer to LLD3620-ARB-REP-001- Arbonicultural Impact Assessment and Method Statement.

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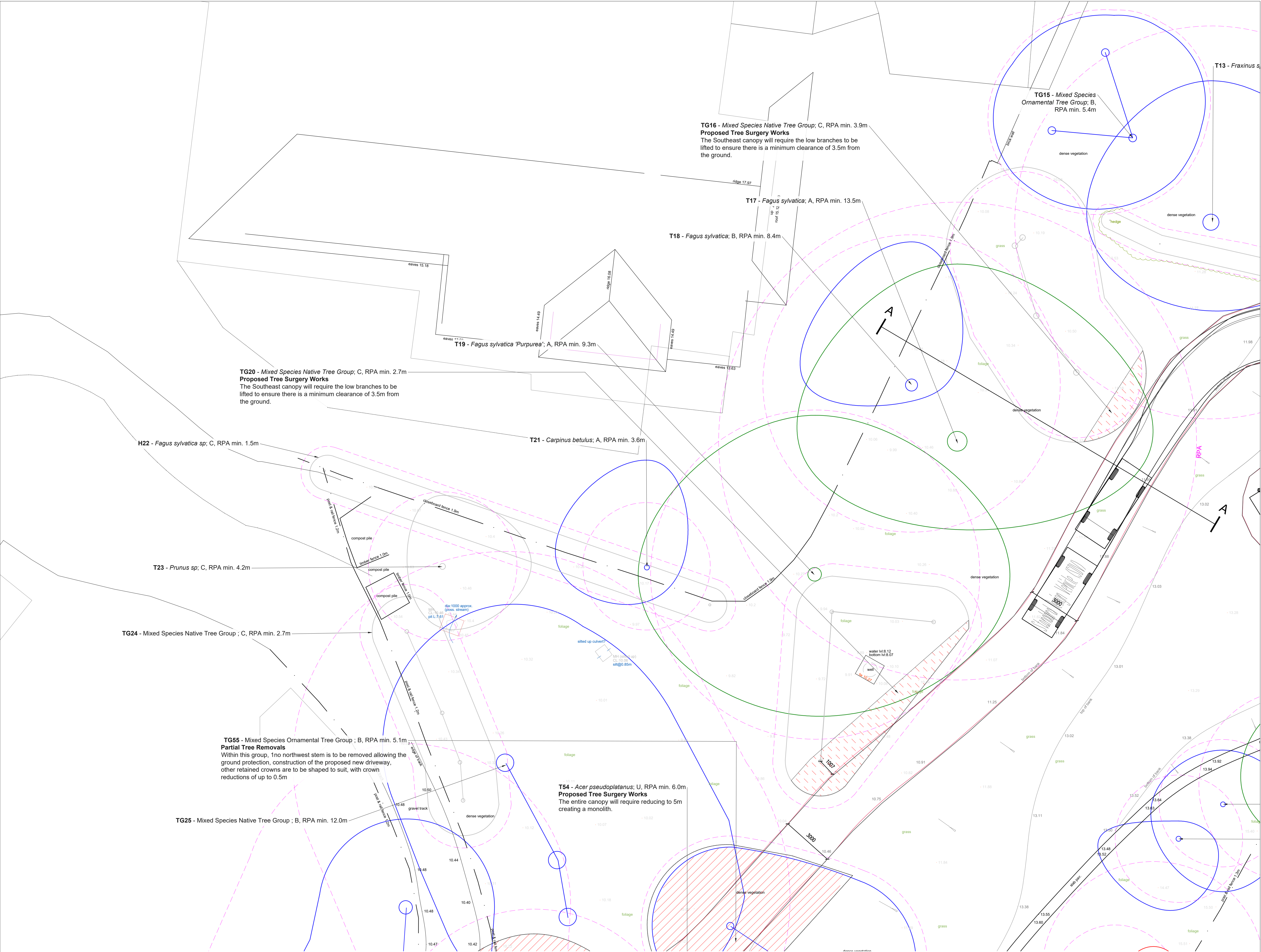
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Jarvis Lane, Steyning, West Sussex, BN44 3GL			
Drawing Title Tree Works Removal Plan			
Scale 1:100@A1	Drawn LEB	Approved GO	Date 25/11/2025
Drawing No LLD3620-ARB-DWG-030	Revision 01		



Legend

- T02 Tree, Hedgerow and Shrub Numbers.**
- Tree Root Protection Areas**
Specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.
- Category A Trees**
Trees of High Quality and Value to be Retained.
- Category B Trees**
Trees of Moderate Quality and Value to be Retained.
- Category C Trees**
Trees of Low Quality and Value to be Retained.
- Category U Trees**
Trees unsuitable for long term retention.
- Existing Trees to be Removed**
All operations to be in accordance with BS3998:2010- 'Tree Works- Recommendations'.
- Existing Shrubs and Hedges to be Removed**
- Proposed Tree Surgery Works**
Tree Surgery operations to be in accordance with BS 3998:2010 - 'Tree Works - Recommendations'.

- Notes:
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 2. For details of existing trees and vegetation refer to: LLD3620-ARB-SCH-001 - Existing Tree Schedule;
 3. For assessment of effects of the proposed development on existing trees refer to LLD3620-ARB-REP-001- Arboncultural Impact Assessment and Method Statement.

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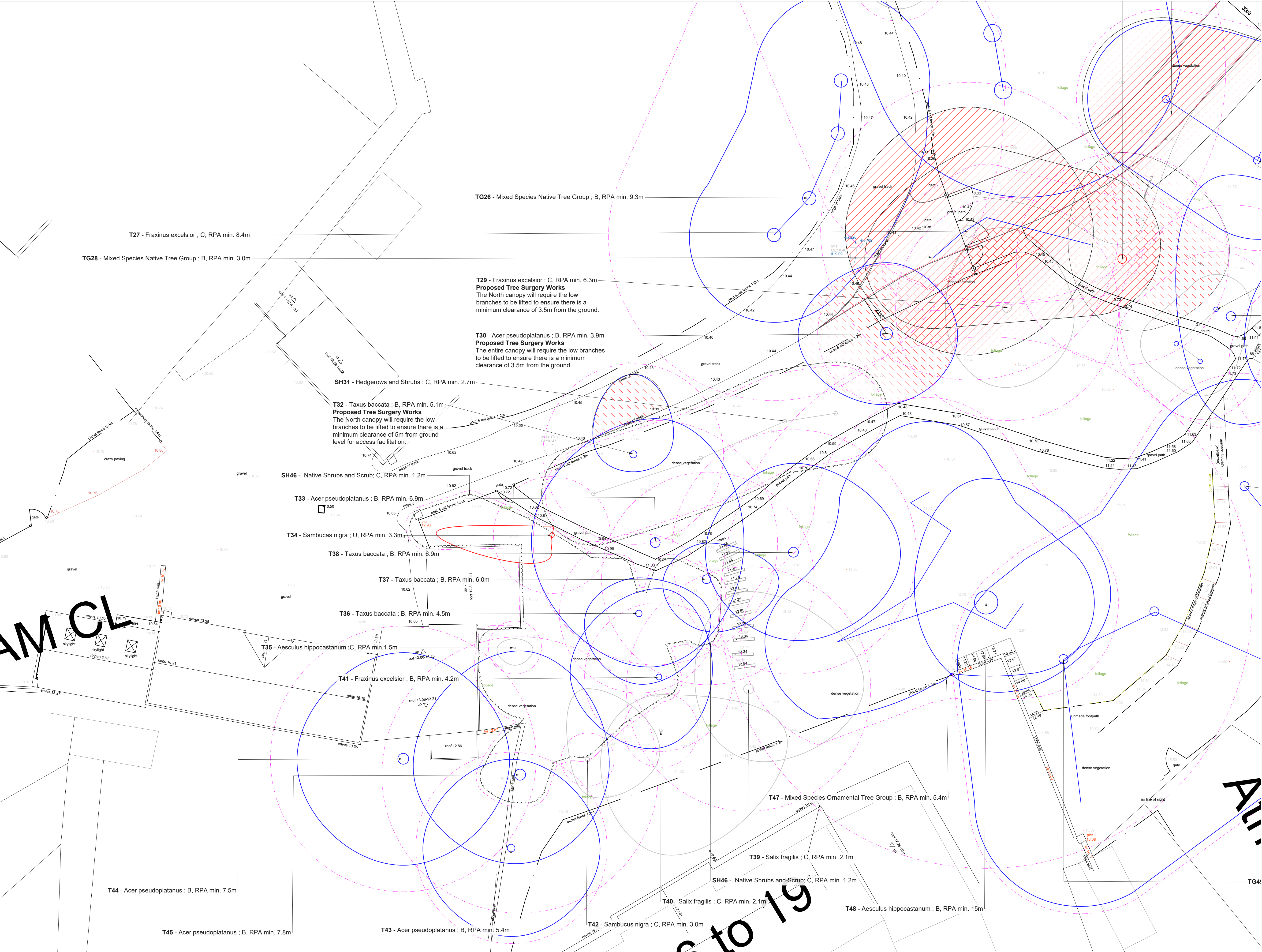
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Drawing Title Tree Works Removal Plan			
Scale 1:100@A1	Drawn LEB	Approved GO	Date 25/11/2025
Drawing No LLD3620-ARB-DWG-031			Revision 01

Tree Works Removal Plan
Jarvis, Jarvis Lane, Steyning, West Sussex, BN44 3GL



Legend

T02

Tree, Hedgerow and Shrub Numbers.

Tree Root Protection Areas

Specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Category A Trees

Trees of High Quality and Value to be Retained.

Category B Trees

Trees of Moderate Quality and Value to be Retained.

Category C Trees

Trees of Low Quality and Value to be Retained.

Category U Trees

Trees unsuitable for long term retention.

Existing Trees to be Removed

All operations to be in accordance with BS3998:2010- 'Tree Works- Recommendations'.

Existing Shrubs and Hedges to be Removed

Proposed Tree Surgery Works

Tree Surgery operations to be in accordance with BS 3998:2010 - 'Tree Works - Recommendations'.

Notes:

1. Drawing to be read in colour.
2. For details of existing trees and vegetation refer to: LLD3620-ARB-SCH-001 - Existing Tree Schedule;
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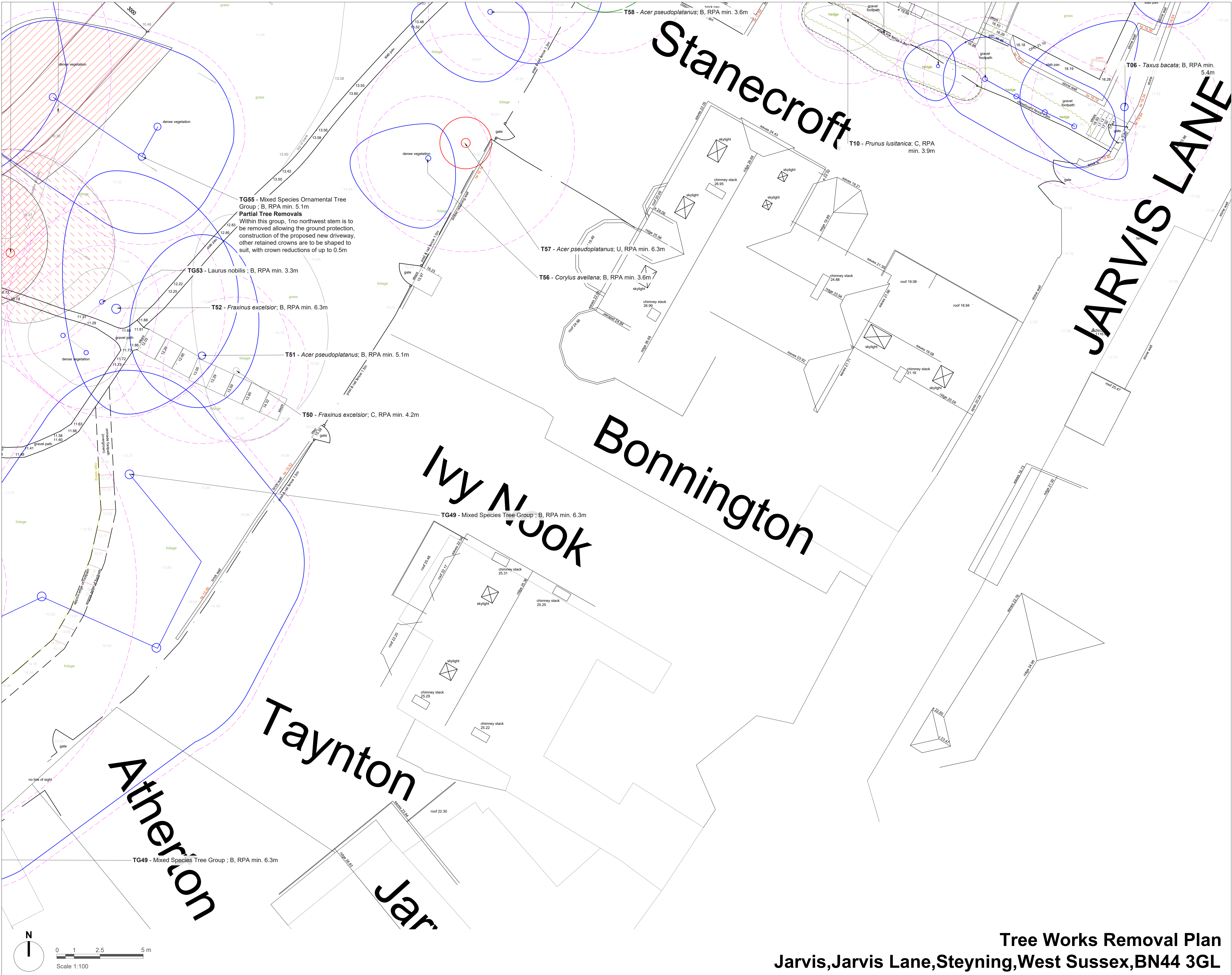
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Project Title and Location	Jarvis
	Jarvis Lane, Steyning, West Sussex, BN44 3GL
Drawing Title	Tree Works Removal Plan
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Approved	GO
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Revision	01



Legend

T02 Tree, Hedgerow and Shrub Numbers.

Tree Root Protection Areas
Specified in accordance with BS 5837:2012 - 'Trees in Relation to Design, Demolition and Construction - Recommendations'.

Category A Trees
Trees of High Quality and Value to be Retained.

Category B Trees
Trees of Moderate Quality and Value to be Retained.

Category C Trees
Trees of Low Quality and Value to be Retained.

Category U Trees
Trees unsuitable for long term retention.

Existing Trees to be Removed
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