

Landscape and Ecology Management Plan

Catalyst, Bicester, Units 5, 6, 7, 8 and 9– RM4

25th January 2023 LBLA Report No. LB291/R03d/AL/DB

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Catalyst, Bicester, Units 5, 6, 7, 8 and 9 - RM4 Landscape and Ecology Management Plan

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Plans:

LB291_D04b: RM4 - Soft Landscape Proposals (Sheets 1-4) 11920_P08b_Ecological Enhancement Plan



Catalyst, Bicester, Units 5, 6, 7, 8 and 9 – RM4 Landscape and Ecology Management Plan

Section 1: Introduction

Purpose

- 1.1 This Landscape Management Plan (LMP) has been prepared by Laird Bailey Landscape Architects (LBLA) on behalf of Albion Land for Catalyst, Bicester, Units 5, 6, 7, 8 and 9 (hereafter referred to as the 'site'). The site is centred on OS grid reference SP575210.
- 1.2 The purpose of the LMP is to provide details of measures to ensure the successful establishment and ongoing maintenance of the soft and hard landscape elements of the development proposals.
- 1.3 This LMP should be read in conjunction with drawings LB291_D04b RM4 Soft Landscape Proposals (Sheets 1-4).

Scope of the Landscape Management Plan

- 1.4 This Landscape Management Plan is set out as follows:
 - Section 2 sets out relevant standards and legislation;
 - Section 3 describes the site, and provides an overview of the existing landscape and its condition;
 - Section 4 describes the proposed soft landscaping typologies;
 - Section 5 describes the proposed hard landscaping typologies;
 - Section 6 sets out the long-term design objectives;
 - Section 7 sets out the management regimes and responsibilities;
 - Section 8 sets out the maintenance operations for all the soft landscape areas; and
 - Section 9 sets out the maintenance operations for all the hard landscape areas.



Section 2: Technical and Environmental Considerations

- 2.1 The contractor shall familiarise themselves and their operatives with all British Standards and regulations, as referred to in this document, and any subsequent revisions thereof. All chemical weed control must be carried out by suitably trained staff in accordance with the manufacturers recommendations and the legislation set out below.
- 2.2 The Contractor must only use chemicals specifically approved for the purpose for which it is intended as dictated by the Control of Pesticides Regulations 1986 and the conditions of approval for the chemicals and any relevant code of practice issued by DEFRA. The Contractor will consider in every instance whether the use of chemicals is strictly necessary before application.

Relevant Stan	dards and Legislation	
ISO 7851	Classification scheme for fertilizers and soil conditioners	
BS4428	Code of practice for general landscape operations	
BS 8545: 2014	Trees: from nursery to independence in the landscape - Recommendations	
BS 5837	Trees in relation to design, demolition and construction - Recommendations	
3882:2015	Topsoil	
The Food and Environment Protection Act (1985)		
The Control of Pesticides Regulations 1986 (COPR) (as amended 1997)		
The Control of Substances Hazardous to Health Regulations (2002)		
The Environme	ent Protection Act (1990)	



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Section 3: Site Overview of Existing Landscape and its Condition

Site Context

- 3.1 The site is located to the southern edge of Bicester, Oxfordshire. The site is proposed for five units (Units 5, 6, 7, 8 and 9), associated landscaping and highways.
- 3.2 The site currently comprises of grazing pasture and vegetated field boundaries with a series of drainage gully's which serve surrounding agricultural land. Soft landscaping elements are mainly contained to the site's peripheries with an internal hedgerow and tree planting dissecting a portion of the site. The sites western boundary is open with phase 1 of the Catalyst development beyond which is flanked by Wendlebury Road and a belt of existing trees. To the north lies a series of existing industrial units and a row of trees. To the east a continuous buffer of mature trees and water course and to the south a vegetated field boundary comprising trees and hedgerow beyond which lies agricultural land.
- 3.3 The character of the site is semi-urban with a mix of built development and agricultural land surrounding the site in all directions.



Section 4: Proposed Soft Landscaping

- 4.1 This LEMP is to read in conjunction with details of proposed soft landscaping (see LBLA Drawing No. LB291_D04b RM4 Soft Landscape Proposals (Sheets 1-4).
- 4.2 Soft landscaping within the site is designed to:
 - Create an attractive and appropriate setting for the new Industrial Units (5a, 5b and 6), providing all year-round interest and colour.
 - Create a strong soft landscape framework with planting to the perimeter of the site including trees, selected to maximise biodiversity;
 - Ensure trees and shrubs are managed appropriately to promote the growth of flowers, berries and general 'form' offering the maximum benefit of amenity/habitat for birds, small mammals, and insects, and;
 - Provide additional habitats for bats and nesting birds.
- 4.3 Proposed soft landscaping elements and planting consists of the following.

Trees

4.4 A selection of native trees, planted at a range of appropriate sizes (ranging between selected standard up to semi mature) will feature across the scheme.

Native Woodland Planting

4.5 In addition to specimen trees, a native woodland mix of feathered trees, whips and transplants shall be planted at an approximate density of 1 plant/1.5msq. Over time this will form a dense understorey screen to larger tree specimens, contributing to the overall bio-diversity value and visual mitigation/amenity, reducing visual coalescence between the built form.

Native Shrub Mix and Native Hedgerow

4.6 Featuring within the development and upon the site boundaries, creating a series of green corridors linking to the wider landscape fabric. Hedgerows will consist of a variety of native species (typically those which are prevalent in the local area) planted as double staggered rows at 5 plants per linear meter.

Wetland/Scrapes

4.7 An area of Wetland/Scrapes are to be implemented within the southern area of the site. This area is to consist of shallow depressions with gently sloping edges, which holds a varying degree of water throughout the year. Proposed scrapes create in-field wet features that are attractive to wildlife, as well as supporting a wide variety of invertebrates and provide important feeding areas for breeding and wading birds.



Amenity Shrub Planting

4.8 This consists of species which are mainly evergreen and offer all year-round seasonal interest. Specimens will be chosen due to their hardiness/robustness and need for minimal maintenance/management once established. Ultimately, mature sizes will range between 0.3m-1.5m in height. It has also been deemed important that the majority should be flowering species to provide added bio-diversity value and a food source for pollinators.

Wildflower Meadow Mix

4.9 Wildflower areas will be limited to the outer perimeters of the development and mainly form a successional buffer to understorey woodland and native hedgerows. Seed mixes will consist of a range of shade tolerant non-invasive grass and long-lasting wildflowers, offering maximum benefits to bees, butterflies, birds, and small mammals.

Amenity Grass Mix

4.10 Amenity grass areas will be provided around buildings and for verges flanking access roads and pedestrian paths throughout the site.

Swale Meadow Grass Mix

4.11 This is to be implemented on the margins/banks of swales and scrapes, both planted with a wetland meadow mix (Emorsgate EM8 composed of 20% wildflowers and 80% slow growing grasses).



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Section 5: Proposed Hard Landscaping

- 5.1 This LEMP is to read in conjunction with details of proposed hard landscaping (see relevant Cornish Architects drawings).
- 5.2 Hard landscaping within the site is designed to:
 - Create an attractive and appropriate setting for the new Industrial units (5, 6, 7, 8 and 9), providing hard landscape which is fit for purpose, durable and robust;
 - Indicate change in use, identifiable from other hard surfaced areas; and
 - To provide a pallet of materials which are aesthetically and visually appropriate for the various settings and uses within the development.

Tarmacadam Road and Bitmac Footway Surfacing

5.3 Tarmac surfaces are to be built to the given build-up specification and executed to a high standard. All bound surfaces will be edged accordingly to maintain crisp lines and the structural integrity of the surface build-up.

Concrete Block Paving to Parking Spaces/circulation and footpaths

5.4 Parking spaces, vehicular areas of circulation and footpath are to be laid to concrete blocks differentiating these spaces from main highways within the site and each other. All concrete block surfaces will be edged accordingly to maintain crisp lines and the structural integrity of the surface build-up.

Brushed Concrete Yards

5.5 Unit yards to be laid to brushed concrete for functional purposes. All brushed concrete surfaces will be edged accordingly to maintain crisp lines and the structural integrity of the surface build-up.



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Section 6: Long-term Design Objectives

Existing Trees and Hedgerows

- 6.1 Management of existing trees, hedgerows and shrubs offers to secure the current landscape elements that have potential for enhancement without compromising other important aims of the development.
- 6.2 Specific objectives include:
 - Ensuring long-term enhancement of trees and hedgerows with additional native planting and 'gapping-up' where required;
 - Maintaining long-term health of existing trees and hedgerows to contribute to buffering the development from neighbouring land and infrastructure;
 - To extend the life of mature trees through sound arbouricultural management; and
 - Creating a healthy tree and shrub understorey to knit into the proposed soft landscaping proposals, offering a series of mature/interconnected wildlife corridors
- 6.3 Any tree/hedgerow works such as the removal of hazardous branches or the felling of mature trees will be completed outside of the active period for breeding birds (generally understood as March to August inclusive but some bird species may nest all year round). Should any management be required within the breeding bird period, checks for nesting birds by a suitably trained ecologist will take place prior to any works commencing to ensure that no breeding birds are present. Should a nest be present then a suitable buffer would be installed until the nest if confirmed as being inactive.
- 6.4 Checks for the presence of roosting bats would also be completed prior to management taking place regardless of the time of year. Potential bat roosting features can include woodpecker holes, rot holes, any cracks or splits in the tree bark, cankers, gaps between overlapping stems or branches, partially detached ivy (with stem diameters in excess of 50mm), and man-made holes. If any of the potential bat roosting features are identified, evidence of roosting bats is identified or a bat is found, then works would temporarily stop and an licenced ecologist/Natural England consulted.

Proposed Trees and Native Woodland Planting

6.5 The long-term design and management objective is to ensure that on-site trees thrive and contribute to an attractive environment. Trees shall me managed to develop to a healthy and even form. Stems should only be removed so as to retain the natural appearance of the individual plant species or to remove broken or badly damaged branches and dead wood. Tree surgery such as crown lifting should be carried out as required to prevent restriction to pedestrians or vehicles.



- 6.6 Any tree works will have consideration for the potential presence of roosting bats and breeding birds as per the management considerations stated within the retained tree prescriptions above.
- 6.7 Watering operations will be carried out as specified in this management plan.
- 6.8 Irrigation timing and frequency will take into account the prevailing weather conditions, soil moisture release, response of the tree species to water deficits or prolonged soil saturation. The holding capacity of the soil and amount of water available to the tree to be assessed at each visit. Frequency of watering is more important than the volume and should be undertaken as required. Monitoring is recommended when 10 consecutive days at 25 degrees is recorded during the growing season. Water should only be added if the probe / tensiometer values indicate that it would be appropriate to do so.
- 6.9 All trees to be in compliance with BS8545: 2014 Trees: from Nursery to independence in the landscape Recommendations. Staked trees will be inspected at each maintenance visit, and any trees which have died or are excessively damage will be removed from site, complete with the stake, and the ground reinstated.
- 6.10 Mulched areas around trees will be maintained to an acceptable standard (75mm in 1m circumference around stem.

Existing and Proposed Native and Amenity Shrub Planting

- 6.11 The long-term design objective of the shrub planting is to ensure the plants thrive to create shrubbery for local amenity and habitat for wildlife. Planting will be managed to achieve a maximum height of 2.5 metres. Pruning should be undertaken to promote flowering and fruiting in accordance with the species and age of the plant. Species and cultivars are to be pruned particularly to maximise flowering and berrying for amenity and wildlife.
- 6.12 As such, any management will take place at the end of the winter months to avoid the active period for most wildlife, providing the plants with time to produce flowers, seeds and berries. Should any management be required within the breeding bird season (March and August inclusive), checks for nesting birds will take place prior to any works commencing by a suitably qualified ecologist. Should a nest be present then a suitable buffer would be installed until the nest if confirmed as being inactive. Any vegetation management will have consideration for the potential presence of breeding birds as per the management considerations stated above.

Proposed Native Hedgerow

6.13 Hedgerows are to be incorporated into the southern area of the site delineating the access pathway from the ecological habitat area as shown on the planting plan. The hedgerow should create a physical barrier to discourage access to the ecological planting to the south and provide an attractive edge to the car park and access path. The creation of hedgerow



will also increase connectivity of the site for wildlife and provide additional foraging and nesting habitat for a variety of species.

- 6.14 Hedgerow planting will be managed to achieve a maximum height of 1.2m.
- 6.15 The ground around the hedgerow transplants will be bark mulched to conserve moisture and reduce weed growth.
- 6.16 Careful trimming and pruning will be required in the early years to ensure the development of a well-clothed hedge. Trimming should aim to form an 'A' profile.
- 6.17 Any hedgerow management will have consideration for the potential presence of breeding birds as per the management considerations stated above.

All Hedging

- 6.18 Inspect monthly for the first year and maintain shrubs/hedging in a weed free condition through combined techniques by hand, herbicides, cultivation and mulching.
- 6.19 Prune or clip to promote bushy, healthy growth and required shape when necessary.
- 6.20 Trimming back of growth overhanging adjacent footpaths or windows when required.
- 6.21 Remove/replace individual specimens as required.

Wetland/Scrapes

- 6.22 Once scrapes are created, it is important to maintain open, muddy margins where wading birds can find and access food. If the margins become too overgrown with plants such as rush, wader use will decline rapidly. If possible, allow livestock to graze and poach the margins at low levels, and do not fence the scrape off. Scrape margins should be manged by mowing each year to maintain access for waders and other animals. Maintain a small proportion of longer marginal vegetation to provide additional habitat variety, which will benefit invertebrates and plants and provide cover for offspring.
- 6.23 Where vegetation is to be cut back this should be completed in September/October to avoid any impacts to breeding birds and also any impacts to potentially over wintering waterfowl.

Proposed Wildflower Meadow Mix, Amenity Grass Mix and Hedgerow Margins

- 6.24 Management aims to increase structural diversity and species composition both in a manner compatible with user's amenity requirements and with the needs of fauna such as invertebrates, reptiles, birds and foraging bats. The management objectives are as follows:
 - Secure foraging habitats for wildlife without disturbance by retaining grassland within root protection areas of retained hedgerows and trees;



- Provide structured mosaics varying from regularly mown amenity grassland to wildflower and grass edges cut on less frequent mowing rotations;
- Enhance species composition in the seeding mix by specifying a species-rich wildflower and grassland mix for the public open space and hedgerow margins.
- 6.25 Amenity grass will be cut to a height of 50mm monthly during the growing season with arisings removed. Proposed wildflower meadow and hedgerow margins would be cut back once a year in late August and early September, left for a minimum of 3 days and then arisings removed, thus allowing the majority of the grassland plants to bloom and set seed.

Proposed Swale Meadow Grass Mix

6.26 Wetlands and other aquatic environments on site will aim to provide a unique habitat for thousands of species of aquatic and terrestrial plants and animals. Equally wetlands, swales and attenuation basins will offer flood protection and water quality improvement as well as a valuable, aesthetically pleasing, recreational resource. This would be cut back annually as per the prescription for Wildflower Meadow.

Improve Opportunities for Bats

- 6.27 The retention of hedgerows on site in conjunction with the new hedgerow and tree planting will maintain and enhance the foraging and commuting opportunities for bats across the site and to the wider area. The provision of wildflower grassland, wetland scrapes and swale planting will also provide foraging opportunities for some bat species.
- 6.28 Additional roosting opportunities are proposed in order to provide further ecological enhancement for bats post-development. This will include the installation of eleven bat boxes across the Catalyst Bicester Phase 2.1 site (Vivaro Pro or similar). The boxes should be placed as high as possible (3 m and above), ensuring the entrance is free from obstruction. Favoured sites are close to linear features along the hedge line on suitable retained trees and away from street lighting. See ecological enhancement plan (Ref: 11920_P08b) for suggested specification and location of bat boxes.
- 6.29 The bat boxes are designed to be low maintenance and the only monitoring which should be completed after Year 1 is to confirm that the spec and location is appropriate.

Improve Opportunities for Birds

- 6.30 The creation and appropriate management of new native shrub, hedgerow, wetland scrapes and tree planting will provide and overall enhancement to bird foraging and nesting resources within the site post-development.
- 6.31 To provide an additional enhancement for birds, eleven bird boxes will be erected on suitable retained trees. Boxes will be positioned so they are sheltered from prevailing wind, rain and strong sunlight, normally facing north through to east at a height of between 2m and 5m,



ensuring a clear flight path to the entrance. See ecological enhancement plan (Ref: 11920_P08b) for suggested specifications and location of bird boxes.

- 6.32 All boxes should be Vivara Pro or a similar product made from woodcrete as these are known to be durable, long-lasting and to regularly attract birds to nest.
- 6.33 A bespoke swift tower will also be installed in the Parklands area (see plan ref: 11920_P08b) for the estimated location. The swift tower will be mounted on a telegraph or metal pole. The specification will be as per the following:
 - Lowest swift box at least 7m from ground level;
 - Clear flyway in front of and below the nest chamber entrances;
 - Minimum of 10 x nest chambers;
 - Each nest chamber should have dimensions of 200mm width, 400mm length, and 200mm height;
 - Next entrances should be 30mm x 65mm to exclude larger bird species;
 - Long lasting weatherproof materials should be used;
 - Rough materials should be used for the interior and exterior of the nest chambers to ensure swifts can obtain a grip with their claws; and
 - An anti-squirrel baffle should be placed at the bottom of the pole to prevent potential predation.
- 6.34 All boxes and the swift tower should be annually inspected for presence, damage, obstruction and if necessary, should be cleaned. Inspection and cleaning should be conducted annually during the winter months to avoid impact to nesting birds. If replacement through loss or damage is required, it should be for an identical product positioned in the same or a similar location.



Section 7: Management Regimes and Responsibilities

- 7.1 The landscaping works will receive post installation maintenance for a one-year defects liability period (DLP). All defects resulting from plant loss, disease, or failure will be replaced on a like for like basis. A visit every month, or more frequently should watering be required, is recommended during the DLP. Subsequently a minimum of 12 maintenance visits per annum is recommended.
- 7.2 Maintenance and management activities are set out below (which covers a minimum period of five years) to ensure the soft landscaping is managed effectively beyond the time limits of the implementation and establishment works. The responsibility for this management and maintenance is to be agreed. LBLA's recommendation is for the landscape contractor that undertakes the planting works to be engaged to carry out the one-year establishment maintenance.
- 7.3 Management and maintenance operations will be monitored and reviewed annually on an on-going basis and where required, modified if the operations and frequencies set out do not deliver the required results or meet the specific aims and objectives.
- 7.4 As a minimum, maintenance visits should be undertaken to inspect, monitor as well as to carry out routine operations, including weeding and litter picking, with other specific operations being undertaken as scheduled below.
- 7.5 The appointed Contractor must provide details of all necessary insurances and certification to carry-out the works specified in this management plan. It is the responsibility of the appointing authority to ensure that all submitted insurances and certificates are up to date and provide the appropriate level of cover for the specified works.
- 7.6 Defects in the landscape are identified early and addressed promptly.



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Section 8: Soft Landscaping Maintenance Works Schedule

Component	Task	Time of Year	Frequency
conditions and the	hroughout the one-year defects and establishment period, r need for watering. Subsequently management and mainten where required modified if the operations and frequencies s	ance operations will be monitore	d and reviewed annually on an
Trees & Native Woodland Planting	Prune and repair wounds in accordance with good horticultural and arboricultural practice.	Oct-Feb	As required (annually).
	Check the ties regularly for rubbing and adjust if necessary. Constriction of the stem by ties happens very quickly, so fast-growing trees need frequent checking. After bad weather, check for abrasion and snapped stakes or ties.	All year round and especially after strong winds, frost heave and other disturbances.	As required (annually).
	Re-firm tree by adjusting tree ties and ensuring soil is re-firmed around the base.		
	Hand weed mulched areas around trees.	Mar-Sep	Every visit.
	Apply suitable non-selective herbicide to control weeds.	Mar/Oct	Only if required.
	Replace any failed specimens.	Oct-Mar	As required during the one-year DLP (next available planting season).
	Remove debris/litter	Throughout	Every visit.



Component	Task	Time of Year	Frequency
	Top up bark mulch around bases of trees to full depth of 75mm.	Mar/Apr	As required during the DLP.
	Newly planted trees will be watered throughout May-August months after any period of four weeks without significant rain to thoroughly wet the top 150mm of soil around the tree roots.	Throughout	As required after a period of four weeks without significant rainfall.
	Trimming and selective thinning of the canopy. Trim back growth overhanging adjacent footpaths when required.	Oct-Mar	Annually if required.
	In years 2 and onwards remove staking if tree has established well and the stakes are no longer required.	Any	As required.
Amenity Shrub Planting	Trimming, pruning and reshaping to encourage healthy bushy growth, flowering and fruiting. Trim back growth overhanging adjacent footpaths when required.	Oct-Mar	Annually if required.
	Hand weed.	Throughout	Every visit.
	Apply suitable non-selective herbicide to control weeds.	Apr-Sep	Only if required.
	Remove debris/litter.	Throughout	Every visit.
	Replace any failed specimens.	Oct to March	Within the DLP, as required (next available planting season).



Component	Task	Time of Year	Frequency
	Top up bark mulch around bases of shrubs to full depth of 75mm.	Apr	As required during the DLP.
	Watering of newly established shrubs.	Throughout	As required after a period of four weeks significant rainfall, during the DLP.
Native	Re-shaping.	Hard-prune Oct-Feb	Annually if required.
Hedgerows/ Native Shrub Mix	Trimming, pruning and reshaping to encourage healthy bushy growth, flowering and fruiting. Trim back growth overhanging adjacent footpaths when required.	Oct-Mar	Annually if required.
	Hand weed.	Throughout	Monthly/every visit.
	Apply suitable non-selective herbicide to control weeds.	Apr-Sep	As required.
	Apply fertiliser: Slow release, applied as per manufacturer's recommendations.	Mar/Apr	Annually.
	Remove debris/litter.	Throughout	Monthly/every visit.
	Replace any failed specimens.	Oct-Mar	As required (next available planting season).
	Top up bark mulch hedge base to full depth of 75mm.	Apr	Annually.
	Watering of newly established hedgerows.	Throughout	As required after a period of four weeks without significant rainfall.



Component	Task	Time of Year	Frequency
	Trim and top hedgerow as necessary avoiding bird nesting season.	Feb	As required (annually).
Wetland/ Scrapes	During the first year allow annual weeds to establish to protect seed stock. Cut, compost and remove in August. In subsequent years mow meadow margins to 50mm.	August	Once per year. Leave hay cuttings to drop seed for minimum of 3 days (up to 7) before removing.



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Component	Task	Time of Year	Frequency
	Aquatic plant management/thinning	August to October	Aquatic plant thinning should be carried out on a 3-year cycle to halt the natural succession process and ensure an open body of water maintained.
	Clearance of debris/ rubbish	Throughout	Water bodies to be regularly checked for rubbish or other detritus material. Any rubbish to be cleared by hand and removed from site
	Dredging and silt removal	September to October	It is recommended that attenuation basins/ ponds are de-silted on a 5–7 year cycle. Silt should be carefully removed by mechanical means (typically a long arm dredging excavator) and deposited and spread along the bank margins dependant on the volume removed.



Component	Task	Time of Year	Frequency
Wildflower Meadow Mix	Mowing/strimming.	Late Aug/early Sep	Cuttings must be left for a minimum period of 3 days before being raked up and removed, to allow wildflowers to bloom and disperse seeds
	Weeding.	Throughout	Monthly/every visit. Weeds exceeding 75mm and which don't feature in the seed mix should be removed.
	Re-seeding (if required).	Sep	Any bare patches of ground where seed has failed to germinate should be re-seeded as per the original specification.
Amenity Grass Mix	Mowing and removal of arisings.	Mar-Oct	Monthly/every visit. Grass should be mown regularly to aid with establishment to a height of 50mm.
	Clearance of debris/rubbish	Throughout	Water bodies to be regularly checked for rubbish or other detritus material. Any rubbish to be cleared by hand and removed from site.



Component	Task	Time of Year	Frequency
Swale Meadow Grass Mix	Weed control.	Mar-Sep	Invasive weeds to be spot treated with a glyphosate herbicide applicator. Herbicide must not be applied within 2m of attenuation or swale bank if permanent standing water is present. Any weeds within this 2m zone or on sloping banks should be removed by hand or mechanically.
	Aquatic planting management/thinning.	Sept-Oct	Aquatic plant thinning should be carried out on a 3-year cycle to halt the natural succession process and ensure an open body of water maintained.
	Weeding.	Mar-Sep	Invasive weeds to be spot treated with a glyphosate herbicide applicator. Herbicide must not be applied within 2m of attenuation or swale bank if



Component	Task	Time of Year	Frequency
			permanent standing water is present. Any weeds within this 2m zone or on sloping banks should be removed by hand or mechanically.
Improve opportunities for bats	Installation of bat boxes on suitable retained trees to include a range of different aspects (mainly to the south or west, but providing a variety of different positions to offer a range of climatic conditions). Boxes should be placed as high as possible (3m and above), ensuring the entrance is free from obstruction. To be installed as development progresses in accordance with the approved phasing plans for the site.	During construction phase	Once
	After Year 1, a check would be completed to ensure that they have been installed in the correct/optimal locations. Bricks / boxes should then be checked annually for presence, damage and obstruction.	Anytime	Annually



Component	Task	Time of Year	Frequency
Improve opportunities for birds	Installation of bird boxes on suitable retained trees to include a range of different aspects (between north and east, but providing a variety of different positions to offer a range of climatic conditions). Boxes should be placed as high as possible (2m and above), ensuring the entrance is free from obstruction. Swift tower with at least 10 x nest chambers and mounted on a metal/wooden pole to be installed in the parklands area. To be installed as development progresses in accordance with the approved phasing plans for the site.	During construction phase	Once
	All boxes and the swift tower should be inspected annually for presence, damage, obstruction and if necessary, should be cleaned. Inspection and cleaning should be conducted during the winter months to avoid impact on nesting birds.	Oct-March	Annually



Section 9: Hard Landscaping Maintenance Works Schedule

Component	Task	Time of Year	Frequency
	roughout the one-year defects and liability period. Man on an on-going basis and where required modified if the aims and objectives.		
Hard landscape surfaces	Weeding/litter picking/sweeping.	Throughout	Hard surfaces within external areas should be maintained in a clean and tidy appearance free from weeds and litter. This will include general sweeping, weeding and occasional spray of surfaces as required.
	Repairs to cracked or worn surfaces.	Throughout/weather permitting	Hard landscape road and footways should be checked quarterly; any areas of wear that may become a safety concern should be assessed and repaired.



Component	Task	Time of Year	Frequency
Street Furniture	Check/assessment of street furniture.	Throughout	Undertake regular checks, maintenance, and repairs as necessary to ensure furniture and boundary treatment remains safe, in a usable condition and in a good state of repair. Empty litter bins at intervals appropriate to level of use.
	Litter collection.	Throughout	Empty litter and dog bins at intervals appropriate to level of use.

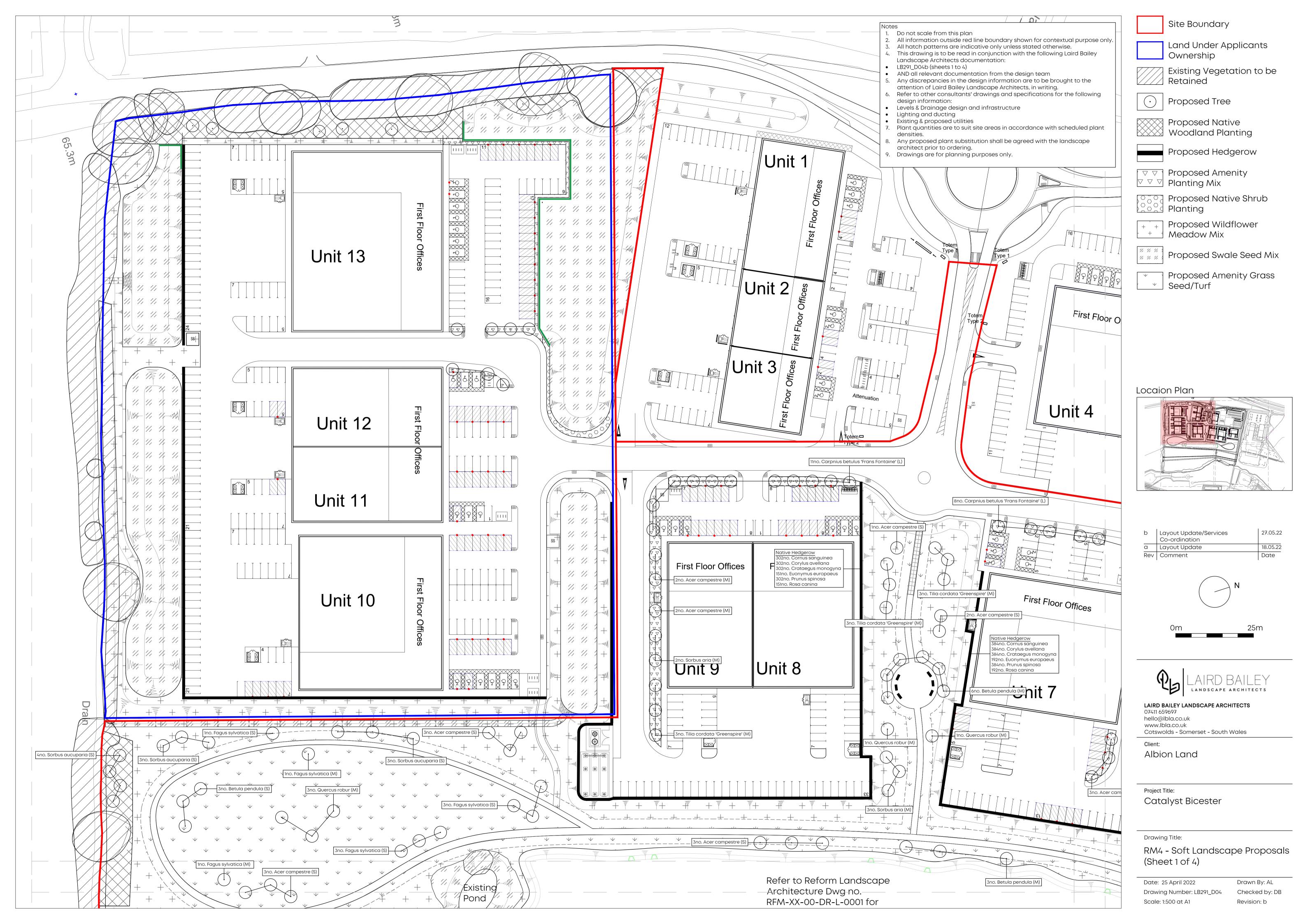


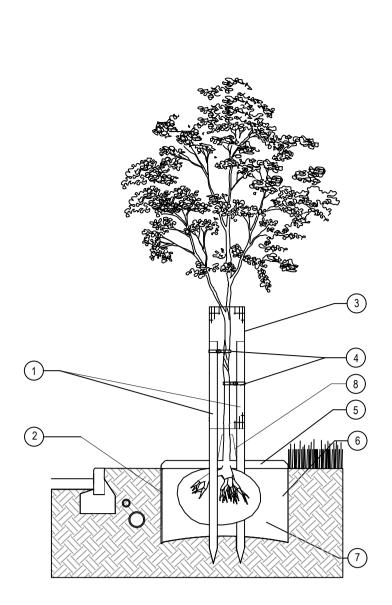
Plan:

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Tree Pit Detail (for trees in proximity to hard landscaping and services)

1. 2x tanalised timber tree stakes 2m, 75mm Ø driven into backfilled pit to provide support to the tree.

2. ReRoot root barrier with root deflecting ribs installed between tree root ball and hard surfaces/services where there is a risk of root damage as the tree grows outward. As a general rule, root barriers should be installed in locations where hard surfaces and/or services are located within four metres of the tree stem. Install closer to the paving/service than the tree, to allow space for the tree roots to grow into the space available, with the ribs facing the tree. Note this may mean not placing the barrier within the tree pit, but further away within its own trench. Root barriers must extend a minimum of 2m lengthways beyond the expected canopy of the mature tree. The top of the root barrier should be set as close to the soil surface as possible without being visible.

3. Tubex Treegaurd Mesh Roll or similar approved. 12mm mesh roll cut to size and bent in circle 320mm \emptyset and tied to tree stake to protect tree from damage by people and animals. Bottom of mesh should be 300mm above ground level to allow strimmer guard to be fitted and prevent litter and grass/weeds building up around the base of the tree. Top of mesh should be below the first lateral branch.

4. Use 2x Tree Ties GLB25A with GLPFA spacer sleeves or similar to secure tree to support post.

5. 75mm deep bark mulch layer to be spread evenly over a circular area 1000mm \emptyset around the tree to prevent weed growth and retain moisture. Alternatively, a suitable mulch mat can be used covering the

same area. 6. Excavate tree pit to sufficient size to accommodate tree root ball. Loosen any compaction in base of excavated pit

to aid drainage. The tree should be planted at a depth where the root flare is still visible, just breaching the soil surface, following backfilling.

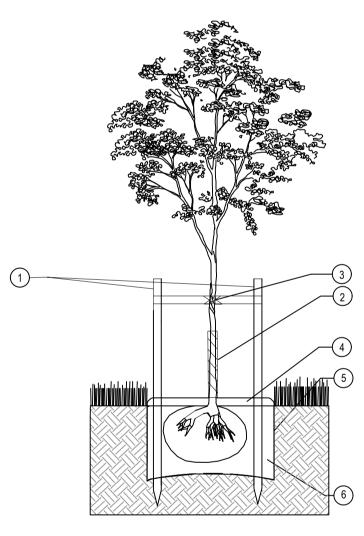
7. Backfill tree pit with subsoil and topsoil excavated from pit if this is regarded as of sufficient quality to promote the healthy establishment of the tree. If either the top soil or sub soil excavated from the pit is of poor quality, then soil ameliorants may be used sparingly or imported topsoil compliant with BS3882 should be used.

8. *Strimmer guard* by Arbortech or similar to be fitted around base of tree to protect from damage by grass maintenance machinery primarily, but also to provide an additional layer of defense against animal browsing.

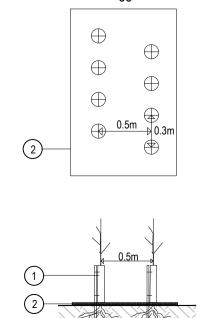
Immediately after planting, water the tree, saturating the tree pit to field capacity.

The notes above are intended as a basic guide only. For further guidance on tree planting refer to BS8545:2014 Section

Products suggested in italics above are available from Green Blue Urban (http://greenblueurban.com/) and Arbortech (www.arbortech.co.uk).



Double Staggered Row



Tree Pit Detail (for trees in open space)

1. 2x tanalised timber tree stakes 2m, 75mm \emptyset and crossbar driven into backfilled pit to provide support to the tree.

2. Clear spiral guard to be fitted to trunk to protect against animal browsing.

3. Use 2x Tree Ties GLB25A with GLPFA spacer sleeves or similar to secure tree to support post.

4. 75mm deep bark mulch layer to be spread evenly over a circular area 1000mm \emptyset around the tree to prevent weed growth and retain moisture. Alternatively, a suitable mulch mat can be used covering the same area.

5. Excavate tree pit to sufficient size to accommodate tree root ball. Loosen any compaction in base of excavated pit to aid drainage. The tree should be planted at a depth where the root flare is still visible, just breaching the soil surface, following backfilling.

6. Backfill tree pit with subsoil and topsoil excavated from pit if this is regarded as of sufficient quality to promote the healthy establishment of the tree. If either the top soil or sub soil excavated from the pit is of poor quality, then soil ameliorants may be used sparingly or imported topsoil compliant with BS3882

Immediately after planting, water the tree, saturating the tree pit to field capacity.

The notes above are intended as a basic guide only. For further guidance on tree planting refer to BS 8545:2014 Section 10.

Products underlined above are available from Green Blue Urban (http://greenblueurban.com/).

Native Hedgerow Planting Detail

should be used.

1. Tubex shrub shelter with supporting cane or stake.

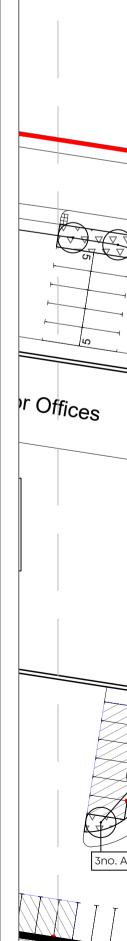
2. 2m wide biodegradable weed mat roll pegged down with biodegradable pegs along line of hedgerow to prevent weed growth and retain moisture.

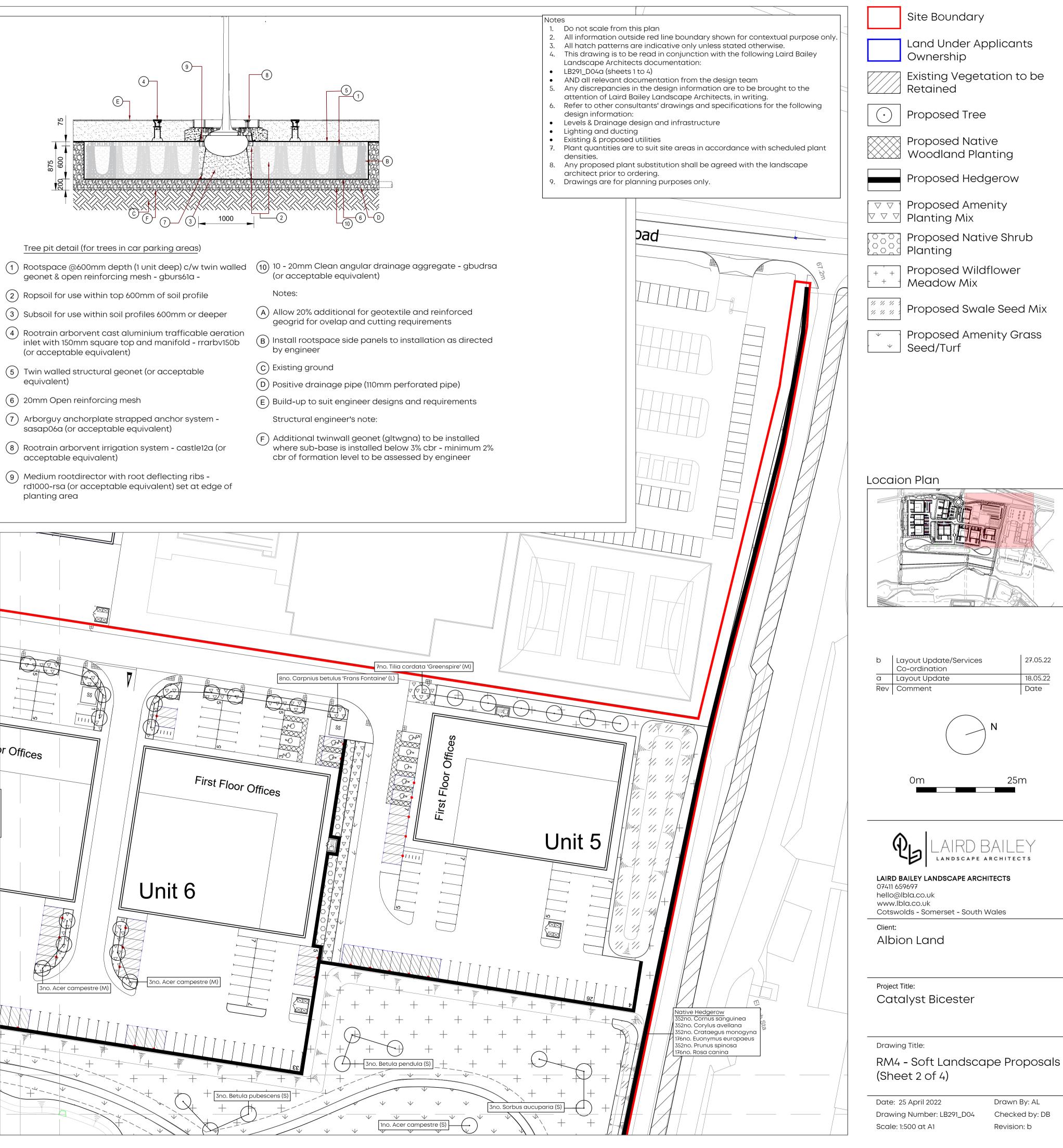
3. Whip to be notch planted following clearance of any existing vegetation.

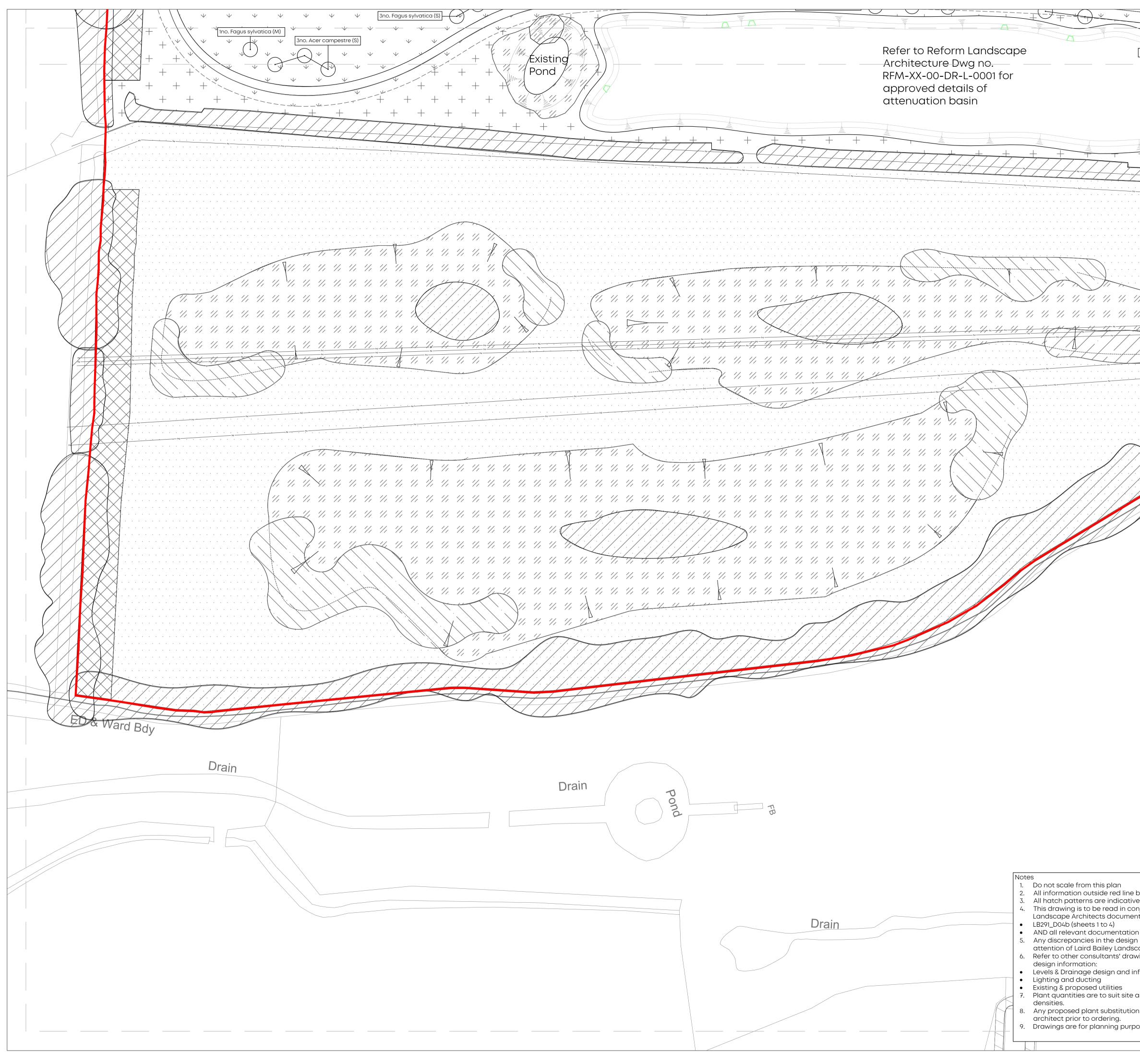
Immediately after planting, water the whip, saturating the ground around its base to field capacity.

The notes above are intended as a basic guide only. For further general guidance on planting refer to BS8545:2014 Section 10 and BS4428:1989 Section 9.

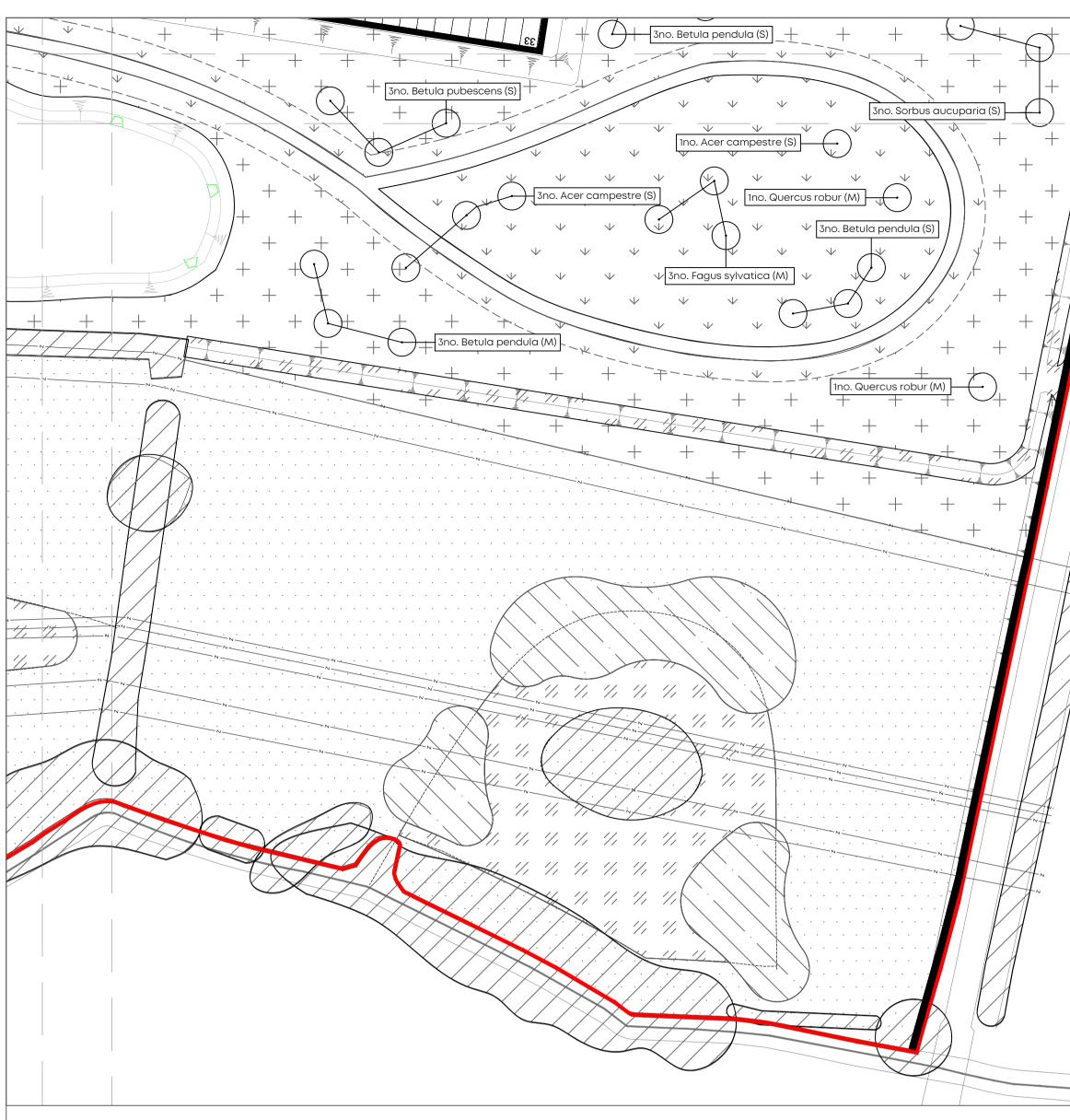
Products suggested in italics above are available from Tubex (http://www.tubex.com/).







			Site Boundary	
3no. Betula pendula (M)			Land Under Ap Ownership	plicants
			Existing Vegeto Retained	ation to be
		\bigcirc	Proposed Tree	
			Proposed Nativ Woodland Plar	
	+		Proposed Hedg	gerow
			Proposed Wetl Planting	and
· · · · · · · · · · · · · · · · · · ·			Proposed Reec	Bed
		$\nabla \nabla \nabla$	Proposed Ame Planting Mix	nity
			Proposed Nativ Planting	ve Shrub
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conjunction with the following Laird Bailey nentation:	-	Project T	ïtle:	
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ign information are to be brought to the dscape Architects, in writing.				
rawings and specifications for the following	-		a Titla.	
d infrastructure		Drawing		na Dronocala
e areas in accordance with scheduled plant			- Soft Landsca et 3 of 4)	ue Proposais
tion shall be agreed with the landscape		(
tion shall be agreed with the landscape irposes only.	-	Date: 2	5 April 2022 9 Number: LB291_D04	Drawn By: AL Checked by: DB



GENERAL PLANTING SPECIFICATIONS:

- Proposals to be read in conjunction with Architect's and Engineers Drawings;
- All landscape operations to be in accordance with BS4428: 1989 & BS 3936: 1992 and all amendments to date; • Plant material to conform to the National Plant Specification;
- Any plant material planted outside the recognised planting season (Nov-Feb), to be containerised stock and supplied at the sizes specified;
- Plant handling and planting operations to be in accordance with HTA "Handling and Establishing Landscape Plants parts I - III;
- All planting to be maintained and guaranteed for 12 months to include watering, weeding, pest & disease control;
- The landscape sub-contractor is to take all safety precautions to prevent any injury to any persons. The landscape sub-contractor shall comply with the requirements of the Health and Safety at Work Act 1974 and current Construction, Design and Management Regulations.
- The landscape sub-contractor shall confirm the location of all underground services before commencement of planting and report where trees/ hedges are suggested within 2m of underground services and 5m of buildings.

SOIL AND MULCH

- Existing topsoil (if present and suitable) to be stripped and stored on site in heaps not exceeding 2m in height and kept weed free;
- Any compacted subsoil to be broken up to allow free drainage and to enable topsoil to key into surface; • Any imported topsoil to be to BS3882, medium texture, neutral PH value, reasonably stone free with no stones over 20mm in size:
- Soil for meadow grassland to be composed of prepared sub-soil (nutrient poor);
- Topsoil depths to be 300 for shrubs, hedges, climbers and groundcover planting;
- Finished topsoil levels to be 25mm above adjacent paved surfaces, and 300mm wide hard surfaced mowing margin to be provided where lawn adjoins buildings;
- All planting areas to be covered with a 75mm depth of medium grade bark mulch.

PLANT MATERIAL TREATMENT

- All to be British grown stock and fully hardened off;
- Root Dip Proprietary Root Dip applied to all bare root stock at time of lifting at nursery and prior to planting; • Anti-Desiccant – Proprietary anti-desiccant to be applied to foliage of all containerised/rootballed material in
- leaf, specimen confiders and evergreens etc. prior to transportation and during any delay in planting; • Pruning - Allow for pruning of all deciduous trees and shrubs by 1/3^{ra} /following planting at Landscape
- Architect's direction or as indicated in the planting schedule;
- Tree Stakes and Ties Stakes to be pressure treated, round, smooth and peeled Larch or Chestnut, not less than 100mm in diameter. Advanced nursery stock – double staked with cross bar.

EXISTING TREES AND SHRUBS

- Avoid damage to branches, trunks and roots of trees. All existing trees and hedges to be retained are subject to BS5837 (2005 and all amendments to date) 'Trees in relation to Construction – Recommendations', and should be fully fenced off, prior to the commencement of any works.
- Where existing trees and shrubs are to be retained they should be subject to a full Arboricultural inspection for safety;
- Any surgery required shall be in accordance with BS3998 (2010 and all amendments to date) 'Tree Work Recommendations', shall comply with any existing T.P.O requirements and shall require the prior approval of the Landscape Architect;
- No storage of materials, disposal of rubbish, site fires, spillage of oil and chemicals, ground compaction, excavation or changes in level shall be carried out within existing tree/hedge canopies.

TREES

- tree and services;

- supported by a single stub stake;
- double stakes;
- roughened.

SHRUBS (ORNAMENTAL AND SPECIMEN) -50 topsoil and shrub planting mix.

SEEDING

- to be uniformly firmed.
- manufacturer before final cultivation.
- approved), sown at 50g/m;
- at 50g/m;

- Remove and dispose of all arisings.

TURF

- and ridges;

Planting Schedule

Trees			
Botanical Name	Min Girth (cm)	Min Height (cm)	Specification
Large (L)			
Carpinus betulus 'Frans Fontaine (L)	20-25	500	RB; Semi-Mature; 2m Clear Stem; Double Staked
Medium (M)			
Acer campestre (M)	14-16	450-500	RB; 4x; Extra Heavy Standard; 2m Clear Stem; Double Staked
Betula pendula (M)	14-16	450-500	RB; 4x; Extra Heavy Standard; 2m Clear Stem; Double Staked
Fagus Sylvatica (M)	14-16	450-500	RB; 4x; Extra Heavy Standard; 2m Clear Stem; Double Staked
Quercus robur (M)	14-16	450-500	RB; 4x; Extra Heavy Standard; 2m Clear Stem; Double Staked
Sorbus aria (M)	14-16	450-500	RB; 4x; Extra Heavy Standard; 2m Clear Stem; Double Staked
Tilia cordata 'Greenspire' (M)	14-16	450-500	RB; 4x; Extra Heavy Standard; 2m Clear Stem; Double Staked
Small (S)			
Acer campestre (S)	8-10	250-300	RB; Select Standard; 1.8-2m Clear Stem; Single Stake
Betula pendula (S)	8-10	250-300	RB; Select Standard; 1.8-2m Clear Stem; Single Stake
Betula pubescens (S)	8-10	250-300	RB; Select Standard; 1.8-2m Clear Stem; Single Stake
Fagus Sylvatica (S)	8-10	250-300	RB; Select Standard; 1.8-2m Clear Stem; Single Stake
Sorbus aucuparia (S)	8-10	250-300	RB; Select Standard; 1.8-2m Clear Stem; Single

Native Woodland Planting Mix PLANTING NOTES

REFER TO PLANTING MATRIX

Notch planted in a matrix pattern at 1500mm centres with rabbit protection.

Plant in single species groups with 7-13no. plants by species.						
%	Code	Botanical Name	Min Height (cm)	Specification		
5	A*	Alnus glutinosa	150	BR; Feathered		
5	Ag	Alnus glutinosa	60-80	BR; 1+1		
5	Вр	Betula pendula	60-80	BR; 1+1		
5	Ca	Corylus avellana	150	BR; Feathered		
5	Pn	Populus nigra spp. betufolia	60-80	BR; 1+1		
5	Pt	Populus tremula	150	BR; Feathered		
10	Qr	Quercus robur	150	BR; Feathered		
5	Pa	Prunus avium	60-80	BR; 1+1		
5	Ac	Acer campestre	150	BR; Feathered		
5	Sc	Salix caprea	60-80	BR; 1+1		
5	Sf	Salix fragilis	60-80	BR; 1+1		
5	Ms	Malus sylvestris	150	BR; Feathered		
5	Ld	Larix decidua	60-80	BR; 1+1		
10	Pn	Pinus sylvestris	150	BR; Feathered		
5	Cs	Cornus sanguinea	60-80	bushy, 3 brks		
5	Cm	Crataegus monogyna	60-80	bushy, 3 brks		
5	la	Ilex aquifolium	60-80	bushy, 3 brks		
5	SI	Sorbus leyana	60-80	bushy, 3 brks		

Mixture	Supplier	Sow Rate
EM8 (Meadow grass mixture for wetlands)	Emorsgate Seeds	5g/m2 (50kgs/ha)
Netland Dry Meadow Mix Mixture	Supplier	Sow Rate
		oow nate
	Emorsgate Seeds	4g/m2 (40kgs/ha)
EM5 – Meadow Mixture for Loamy Soils		4g/m2 (40kgs/ha)
EM5 – Meadow Mixture for Loamy Soils Wildflower Meadow Mix		4g/m2 (40kgs/hc

4g/m2 (40kg/ha) EM2 – Standard General Purpose Meadow Mixture Emorsgate Seeds

• No trees to be planted within 3 metres of sewers or services or other easement recommended by the relevant statutory undertaker without the use of tree root barriers eg Greenleaf Reroot 600/100 placed between the

• All trees shown to be planted ensuring that they are at least 5 metres away from buildings;

• Contractor to ascertain the location of all sewers and services prior to tree planting;

• Root barrier to be installed in planting pits in near proximity to underground services and buildings; • Allow for the use of container grown stock during the periods 1 April to 31 October, and field grown stock from 1 November to 31 March unless otherwise specified in the planting schedule;

• Trees planted within grassed areas to be provided with appropriate conical strimmer guards;

• Feathered trees (up to and including 14-16cm girth) to be planted in tree pits 900 diameter x 900mm deep,

• Standard trees (up to and including 10-12cm girth) to be planted in tree pits 900 diameter x 600mm deep, supported by a single stub stake;

• Heavy standard trees (12-14cm girth) to be planted in tree pits 900 diameter x 900mm deep, supported by

• Tree pits to consist of 600mm topsoil over 30mm subsoil

• Base of pit to be broken up to 150mm depth beneath 150mm clean coarse angular gravel. • Where necessary increase tree pit dimensions to ensure that tree pits are at least 75mm deeper and 150mm wider than rootball. Break up bottom of pits to a depth of 150mm. Compacted glazed sides of pits should be

• All specimen shrubs to be planted in pits twice the size of the pot in depth and width and backfilled with a 50

• Grass seeding cultivation to be brought to a fine tilth and all stones over 25mm in all directions removed. Areas

• Apply approved herbicide to control perennial weeds and allow period of time to elapse as recommended by

 Grass seed to be sown at rates shown below and as per Emorsgate recommendations. • Amenity Grass areas to be seeded with Germinal Amenity A19 All purpose landscaping Mixture (or similar

• Meadow grassed areas to be seeded with Emorsgate EM1 'Basic General Purpose Meadow approved), sown

• Other Meadow grassed areas to be seeded with Emorsgate EM2 'Standard General Purpose Meadow Mixture' (or similar approved), sown at 4g/m;

• Swale areas to be seeded with Emorsgate EG8 'Meadow Grass Mixture for Wetlandscape' sown at 5g/m2; • Roll the seeded area with a ribbed crinkle or Cambridge roller upon completion;

• When grass is between 40-75mm high remove stones and debris exceeding 50mm in any dimension. Cut grass to approximately 35mm high; Meadow grass to be cut twice a year in March and October.

• Turf supplied to be according BS3969 standards from an approved source;

• When topsoil is reasonably dry and workable, grade to smooth, flowing contours removing all minor hollows

• Cultivate soil to full depth and break up any compacted topsoil; • Apply approved herbicide to control perennial weeds and allow period of time to elapse as recommended by

Intivo	Shrub Mix			
PLANTIN	IG NOTES:			
Plant in	groups of 3-5, species selec	ted randomly and pla	nted at 1m centres. All specimen	s to be fitted with rabbit
guard a	nd caned.			
%	Botanical Name	Min Height (cm)	Specification	Planting
				density
15	Cornus sanguinea	60-80	BR; 1+1	1/m2
20	Viburnum opulus	60-80	BR; 1+1	1/m2
20	Viburnum lantana	60-80	BR; 1+1	1/m2
15	Euonymus europaeus	60-80	BR; 1+1	1/m2
15	Crataegus monogyna	60-80	BR; 1+1	1/m2
15	Salix purpurea	60-80	BR; 1+1	1/m2

Amenity Shrub Planting

PLANTING	PLANTING NOTES:							
REFER TC	REFER TO PLANTING MATRIX. Notch planted in a matrix pattern at 500mm centers.							
Plant in s	Plant in single species groups to establish diagonal swathes of planting							
Code	Botanical Name	Pot Size	Specification	Planting density				
Co	Carex oshimensis 'Evergold'	2L	Full Pot	4/m ²				
Cs	Cornus sanguinea 'Midwinter fire'	3L	Full Pot	4/m ²				
Cc	Cotinus coggygria 'Purple Flame'	5L	Full Pot	As shown				
Ea	Escallonia 'Apple Blossom'	3L	Full Pot	4/m ²				
Hr	Hebe 'Red Edge'	3L	Full Pot	4/m ²				
Hm	Hebe 'Mrs Winder'	3L	Full Pot	4/m ²				
Px	Photinia x fraserii 'Red Robin'	5L	Full Pot	4/m ²				
Po	Prunus 'Otto Luyken'	3L	Full Pot	4/m ²				
Ln	Lonicera nitida 'Maigrun'	3L	Full Pot	4/m ²				
Ms	Miscanthus sinensis	3L	Full Pot	4/m ²				

Native Hedgerow

PLANTING	G NOTES:		
Plant in c	double staggered row -50	0mm between rows and	at 300mm centres at 5
to be fitte	ed with rabbit guard and co	aned.	
%	Botanical Name	Min Height (cm)	Specification

20	Cornus sanguinea	80-100	BR: 1+1
20	Corylus avellana	80-100	BR: 1+1
20	Crataegus monogyna	80-100	BR: 1+1
10	Euonymus europaeus	80-100	BR: 1+1
20	Prunus spinosa	80-100	BR: 1+1
10	Rosa canina	80-100	BR: 1+1

Reed Beds	Reed Beds						
PLANTING NOTES:	PLANTING NOTES:						
Plant in 3.51 round aquati	c baskets at maxim	um depths shown. Plant in sa	me species groups of 5-9 plant	s.			
Botanical Name	Min Height (cm)	Specification	Maximum Planting Depth	Planting			
			(cm)	density			
Phragmites australis	40cm	1L; Full pot	50	4/m2			
Carex riparia	30cm	1L; Full pot	20	4/m2			
Carex pendula	30cm	1L; Full pot	10	4/m2			
Carex pseudocyperus	30cm	1L; Full pot	5	4/m2			

Agrainal Planting Mi

margin	arginal Planung Mix								
PLANTIN	PLANTING NOTES:								
Plant rar	Plant randomly directly into the ground in same species groups (between 5-9) at 4 plants per m2.								
%	% Botanical Name Min Height (cm) Specification Planting density								
5%	Cornus alba 'Sibirica'	40-60	3L; Branched; 3 brks; C	4/m2					
5%	Cornus sanguinea	40-60	3L; Branched; 3 brks; C	4/m2					
30%	Crataegus monogyna	40-60	3L; Branched; 3 brks; C	4/m2					
25%	Prunus spinosa	40-60	3L; Branched; 3 brks; C	4/m2					
15%	Salix alba	40-60	3L; Branched; 3 brks; C	4/m2					
15%	Salix Viminalis	40-60	3L; Branched; 3 brks; C	4/m2					
5%	Viburnum opulus	40-60	3L; Branched; 3 brks; C	4/m2					

Notes

- Do not scale from this plan
- All information outside red line boundary shown for contextual purpose only. All hatch patterns are indicative only unless stated otherwise.
- documentation:
- LB291_D04b (sheets 1 to 4)
- AND all relevant documentation from the design team Any discrepancies in the design information are to be brought to the attention of Laird Bailey
- Landscape Architects, in writing.
- Levels & Drainage design and infrastructure
- Lighting and ducting Existing & proposed utilities
- 7. Plant quantities are to suit site areas in accordance with scheduled plant densities.
- 8. Any proposed plant substitution shall be agreed with the landscape architect prior to ordering. 9. Drawings are for planning purposes only.
- recommended by manufacturer before final cultivation. Apply proprietary fertiliser; • Reduce top 25mm topsoil to a fine tilth by further cultivation. Remove stones exceeding 50mm in any dimension;
- Lay turf with broken joints, well butted up, working from planks laid on previously laid turfs, during appropriate season and weather condition;
- Adjust levels by raking out of filling of fine soil under turfs;
- Consolidate by lightly and evenly firming with wooded beaters as laying proceeds. Do not use rollers;
- Dress turf with fine topsoil and brush in to fill joints;
- Thoroughly water completed turf within 24 hours of laying;
- between 25-30mm;
- Remove and dispose of all arisings.

Native woodland planting matrix

For wider/narrower areas use same proportion of each species.

- Ag Ag Ag Pa Pa Pa Ac Ac Ac Sc Sc Sc Cm Cm Cm Cm Cm la la Ag Ag Ag Ag Pa Pa Pa Ac Ac Sc Sc Sc Sc Cm Cm Cm Cm la la Ag Ag Ag Bp Pa Pa Pa Pa Ac Ac Ag Ag Sc Sc CmQr Qr Ia Ia Bp Bp Bp Bp Pt Pt Pt Qr Qr Ag Ag Ms Ms Ps Ps Qr Qr Ia SI SI SI Bo Ca Pt Pt Pt Or Or Ag Ag Ms Ms Ps Ps Ps Or Or SI SI SI Ca Ca Pt Pt Qr Qr Qr Ms Ms Ms Ms Ps Ps Ps Cs Cs A* SI SI Ca Ca Pn Pn Qr Qr Qr Sf Sf Ms Ms Ld Ps Cs Cs Cs A* A* A* A* A* Ca Pn Pn Pn Pn Qr Sf Sf Sf Sf Ld Ld Ld Ld Cs Cs A* A* A* Ca Ca
- Pn Pn Pn Sf Sf Sf Sf Ld Ld Ld Ld Ld Cs Cs Cs A* A* Ca Ca

Amenity planting matrix

For wider/narrower areas use same proportion of each species

- Ln Ln Ln Ln Ln Colln MsHr Hr Polln Ln HmHmPo Pol Coll n Ln Ln Co Co Ln Ms Hr Hr Hr Poo Ln Ln Hm Hm Hm Po Po Ms C Ln Ln Co Co Cc Ms Hr Hr Hr Po Ln Ln Hm Hm Po Po Ms Cs Cs Ln Co Co Co Ms Hr Hr Hr Po Po Ln Ln Hm Hm Po Po Ms Cs Cs Hr Co Co Co Ms Cs Cs Hr Po Po Px Cc Cs Hm Po Po Ms Cs Cs Hr H Co Co Cs Cs Cs Cs Po Po Px Ms Cs Cs Hr Po Px Cs Cs Hr Hr Ea
- Co Cs Cs Cs Cs Po Po Px Ms Cs Cs Hr Hr Px Cs Cs Hr Hr Ea Co Cs Cs Cs Hm Hm Po Px Ms Cs Hr Hr Hr Px Px Hm Hm Cc Ea Ea Co
- Cs Hm Hm Hm Px Px Ms Cs Hr Hr Pr Px Hm Ea Ea Ea Co Co Co HmHmHmPx Px Ms Cs Hr Hr Hr Px Px HmHmEa Ea Co Co Co Co

ants per linear meter. All plants			
Planting			
density			
5/LM			

5/LM

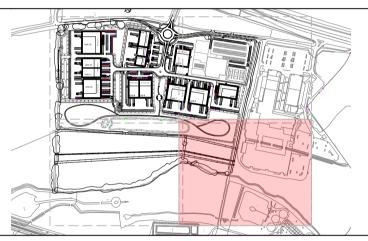
This drawing is to be read in conjunction with the following Laird Bailey Landscape Architects

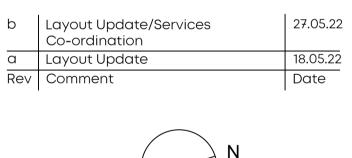
Refer to other consultants' drawings and specifications for the following design information:

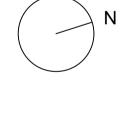
• When grass is 50mm high remove debris, litter and any stones, in dry conditions cut grass to

Site Boundary
Land Under Applicants Ownership
Existing Vegetation to be Retained
• Proposed Tree
Proposed Native Woodland Planting
Proposed Hedgerow
Proposed Wetland Planting
Proposed Reed Bed
 ∇ ∇ Proposed Amenity ∇ ∇ Planting Mix
Proposed Native Shrub
Proposed Wildflower Meadow Mix
Proposed Swale Seed Mix
Wetland Dry Meadow Mix
Proposed Amenity Grass

Locaion Plan









LAIRD BAILEY LANDSCAPE ARCHITECTS 07411 659697 hello@lbla.co.uk www.lbla.co.uk Cotswolds - Somerset - South Wales

Client: Albion Land

Project Title: Catalyst Bicester

Drawing Title: RM4 - Soft Landscape Proposals (Sheet 4 of 4)

Date: 25 April 2022 Drawing Number: LB291_D04 Scale: 1:500 at A1

Drawn By: AL Checked by: DB Revision: b



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Legend

Ecological Enhancements

Bat Boxes



▲ Vivara Pro Harlech Box

Vivara Pro Large Multichamber

Bird Boxes

- Woodstone Alicante Open Nest Box

Woodstone Seville 32mm Box



Woodstone Seville 28mm Box

🗰 Swift Nest Box Tower

Swift Box

Bespoke Swift Tower mounted on a telegraph or metal pole. Specification will be as per the following:

- Lowest box at least 7m from ground level;

- Clear flyway in front of and below the nest chamber entrances;

- Minimum of 10 x nest chambers;

- Each nest chamber should have dimensions of 200mm width, 400mm length, and 200mm height;

- Next entrances should be 30mm x 65mm to exclude larger bird species;

- Long lasting weatherproof materials should be used;

- Rough materials should be used for the interior and exterior of the nest chambers to ensure swifts can obtain a grip with their claws; and

- An anti-squirrel baffle should be placed at the bottom of the pole to prevent potential predation.

	50	100	150 m
Project	Bicester Gateway	J	
Drawing Title	Ecological Enhancemnet Plan		
Scale	As Shown (Approximate)		
Drawing No.	11920/P08b		
Date	November 2022		
Checked	WW/AG		
	Tyle Gra	r nge	

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