



Bilsham Road LLP

Land at Bilsham Road, Yapton, West Sussex

**LANDSCAPE & ECOLOGICAL
SPECIFICATION & MANAGEMENT PLAN**

September 2021

FPCR Environment and Design Ltd

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Appendix A: Landscape Proposals Plans (7905-L-100-111)

1.0 INTRODUCTION

- 1.1 The following Landscape & Ecological Specification & Management Plan has been prepared by FPCR Environment & Design Ltd. on behalf of Bilsham Road LLP. This document sets out the habitat protection, creation and management approaches for the landscape proposals for Land at Bilsham Road, Yapton, West Sussex.
- 1.2 This document should be read in conjunction with the landscape proposals plans. For reference, these are shown in **Appendix A**.

Background

- 1.3 This document has been prepared to provide further information regarding the landscape proposals shown on drawings 7905-L-100-111.

Legislation & Policy

- 1.4 All relevant EU and UK nature conservation law will be adhered to in relation to the protection of ecological features and ecological enhancement. This includes the protection afforded to nesting birds under the Wildlife and Countryside Act 1981 (as amended) and with reference to the protection of great crested newts and bats and their roosts under the Conservation of Habitats and Species Regulations 2010 (as amended). Regard has also been given to the Local Biodiversity Action Plan (LBAP) and Habitats of Principle Importance (HPI) as listed within Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006.

Health & Safety

- 1.5 Care will be undertaken throughout the design process and during construction at all stages to consider the health and safety aspects of the proposals.
- 1.6 The site may contain some potentially hazardous features such as footpaths across roads, overhanging trees and bodies of water and also potentially hazardous operations, including tree works, maintenance works near or on highways, works near, on or in water, works involving the use of cutting machinery and potentially hazardous chemical agents, works to steep slopes, works near buried services and overhead services and frequently a combination of these.
- 1.7 The Landscape Management Company will check for below and above ground services, including land drainage, in the vicinity, and give notice if they may be affected and obtain instructions before proceeding. The Landscape Management Company will comply with Arboriculture and Forestry Advisory Group Safety leaflets.
- 1.8 The scheme should be implemented by competent landscape managers and operatives, who are responsible for the application of best practice standards and all relevant health and safety procedures, protection of the environment, avoidance of pollution and protection of protected species and habitats. The management items set out in this document in no way remove their responsibilities to current, or any future, statutory and best practice procedures or obligations.
- 1.9 Care must be taken during the management and the design of that management to assess, and where practicable reduce or eliminate risks. To this end the Management Company will periodically carry out a Health and Safety Audit of the whole of the Common Areas. This audit will review

health and safety considerations and make recommendations on works necessary to maintain the Park in a safe condition. These will be worked into the landscape management as it evolves.

2.0 VISION, AIMS & OBJECTIVES

Vision

- 2.1 The landscape design strategy has been prepared in the context of a thorough and detailed understanding of the site landscape and its context and within the framework of relevant policy and design guidance. The landscape design embraces broader Green Infrastructure (GI) and sustainable development principles and seeks to maximise these multifunctional benefits wherever practicable. Green and blue infrastructure has been devised to integrate the urban area with the landscape and ecology elements and connect the Site to the wider landscape.

The **Vision** for the landscape design strategy is to:

Increase the biodiversity and recreational value of the site over the long-term

Aims & Objectives

- 2.2 The Vision consists of four main Aims, with each Aim being sub-divided into its Objectives. The **Aims** are outlined below, with **Objectives** described in detail on the following pages.

Aim 1: Maintain and enhance the biodiversity value of the site

Objective 1: Protect and maintain retained habitats and protected species within the site;

Objective 2: Create a matrix of complimentary new habitats and assimilate the Sustainable Drainage System (SuDS) for the development into the GI.

Aim 2: Balance development recreation with wildlife

Objective 3: Provide a safe and inspiring recreational and leisure resource.

Aim 3: Manage the site for biodiversity recreational value in the long-term

Objective 4: Ensure the matrix of new and existing habitats establish and are suitably maintained to ensure long-term biodiversity gain.

Aim 4: Monitor the site and review the Plan

Objective 5: Provide a framework of monitoring and review periods.

3.0 HABITATS & PROTECTED SPECIES TO BE RETAINED & PROTECTED

Objective 1: Protect and maintain retained habitats and protected species within the site.

- 3.1 Existing habitats will be retained where feasible within the development and will be protected through the enabling and construction phases.

Pre-construction Mitigation Measures

- 3.2 The following table outlines the ecological mitigation measures to be undertaken ahead of commencing on site in order to minimise impact from construction works.

Existing Hedgerows and Trees

- 3.3 The majority of the existing hedgerows and trees are to be retained within the proposed scheme. Retained trees will be left unmanaged unless otherwise dictated for reasons of public safety or to benefit the woodland structure or other adjacent or associated habitats or species.
- 3.4 During construction, retained hedgerows will be protected in accordance with BS5837:2012 by high visibility fencing as set out in the Arboricultural Method Statement, or where this is not available; fencing will be erected approximately 3m from the outside edge of the hedgerow. Trees will be protected by fencing erected according to their calculated root protection area (RPA) in the Arboricultural Method Statement. No removal of woody vegetation will take place during the bird nesting season (**March to September** inclusive) unless a thorough survey by an appropriately experienced ecologist first confirms that no active nests are present. Any work will accord with the Wildlife and Countryside Act 1981 (as amended).
- 3.5 Trees will be inspected for signs of stress, disease or damage and appropriate remedial action taken. Arisings from any tree management activity will, where appropriate, be retained on site in piles to create wood habitat to maximise invertebrate and bryophyte biodiversity. Where it accords with health and safety inspection, standing dead wood will be left in-situ to provide additional dead wood habitats.

Existing Grassland

- 3.6 Suitable reptile habitat is to be retained on the edges of the site (see figure 3 of the Ecological Mitigation and Management Plan, Condition 13). This area has been fenced off with reptile fencing and slow worms have been translocated within. The grassland will be allowed to develop into tussock forming grass and can be over seeded if there are areas which are bare. Some scrub present is considered suitable and acceptable and provides cover for reptiles.

Mitigation Measures during Construction

Existing Hedgerows and Trees

- 3.7 Protective fencing will be maintained around the retained trees and hedgerows throughout the site, as set out in the Arboricultural Method Statement. Regular checks will be undertaken throughout the enabling and construction phase to ensure these are maintained.

- 3.8 Any trees that require felling will be in accordance with the Arboricultural Method Statement and shall be assessed for bat roosts by a suitably qualified Ecologist.
- 3.9 Any hedgerow removal should be checked and overseen by a suitably qualified Ecologist and will be undertaken with care in stages using hand tools.

Existing Grassland

- 3.10 Existing retained grassland to the perimeter to the site should be maintained lightly due to the presence of slow worm. Overseeding and small-scale scarification in sections is acceptable, management of scrub, should be with a light touch, with pockets of scrub allowed to naturally develop. A suitably qualified Ecologist should be consulted prior to works starting.

Lighting

- 3.11 No construction lighting will be permitted on retained hedgerows or woodland to protect nocturnal animals such as bats. Alternatively, construction will be restricted to daylight hours, finishing at least 30 minutes before sunset and commencing at least 30 minutes after sunrise during the main bat activity season (**April to October** inclusive).

Excavations

- 3.12 Trenches or large excavations will be covered overnight to prevent wildlife falling in and failing to escape, or a strategically placed plank will provide a means of escape. Any large bore pipes will be capped at the end of the day to reduce the potential for wildlife to enter and become trapped.

4.0 LANDSCAPE & ECOLOGICAL SPECIFICATION

Objective 2: Create a matrix of complimentary new habitats and assimilate the Sustainable Drainage System (SuDS) for the development into the GI.

- 4.1 The Plan will create a matrix of new and existing habitats and corridors through the site to encourage the establishment and movement of wildlife.
- 4.2 The following section outlines the specification and implementation, with **Section 5** outlining the works programme and management regime.

General

- 4.3 Shrub, tree and hedgerow planting are to be delivered and planted in accordance with HTA Standard 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part III, paragraphs 6.2 to 6.6 and should also accord with the planting plans. All plants should be stored only when necessary, in accordance with the HTA's 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part I, Part II and Part III, paragraphs 1.3.3 to 1.3.6, 3.0, and 4.0.
- 4.4 Planting is to remain materially undamaged, sturdy, healthy and vigorous, planted upright or well balanced with best side to front. Trees and shrubs are to be of good shape and without elongated shoots, grown in a suitable environment and hardened off before being delivered to the site. All planting is to be true to name, of UK provenance and free from pests, diseases, discoloration, weeds, fungus and physiological disorders.
- 4.5 All trees should take into consideration the recommended minimum distances to foundations as set out in Chapter 4.2 of the NHBC Standards. Planting should accord with these standards unless checked and verified by the project engineer. For further species calculations refer to Chapter 4.2 of the NHBC Standards, and for species not included use a mature height of 2/3 the specified height in A. Mitchell's 'Trees of Britain and Northern Europe'.
- 4.6 All works are to be undertaken with due diligence being sure to leave the works in a clean and tidy condition at completion and after any maintenance operations. Protect areas affected by planting operations using boards/ tarpaulins and do not place excavated or imported material directly on adjacent grassed areas.
- 4.7 Bare root deciduous planting shall be carried out from late October to late March; conifers and evergreens either September/October or April/May, herbaceous plants [including aquatic and marginal] September/October or March/April. Container grown plants at any time of year if ground and weather conditions are favourable. Bare root deciduous planting to be carried out only during suitable ground and weather conditions. Planting shall not be carried out in waterlogged or frozen ground.

Tree Planting

- 4.8 Trees are to be planted into prepared tree pits, backfilled with topsoil/ soil ameliorants as determined by the soil report. During the preparation of the tree pit, the soil is disturbed, but the base of the tree pit should remain undisturbed unless there are specific problems such as poor drainage, soil smearing or pans resulting from pit construction which require rectification. At the time of planting, the tree pit diameter is to be 500mm greater than the root ball, wide enough to

accommodate roots when fully spread. The natural thickening between the trunk and the root collar (the root flare) shall be at the finished top surface of the planting medium and should not be buried by excess soil or mulch. The contractor shall ensure that the nursery identifies the original ground line on the tree with an appropriate paint line, prior to lifting or containerising the trees. An allowance of 10% shall be made for settlement of the soil.

- 4.9 Bareroot trees of 12-14cm girth are to be single staked. Rootballed and bareroot trees 14-16cm girth or large are to be double staked. Stakes to be well driven into the ground to a minimum of 300mm into the bottom of the tree pit. Stakes to be pressure treated, round (75mm/100mm diameter) peeled, sweet chestnut, smooth larch or similar. Trees to be secured with a plastic/rubber proprietary tree tie and nailed to the stake.
- 4.10 This should also include a Greenleaf Root Rain CIVIC watering system (RRCIVIC), or similar approved, which will provide irrigation but also, importantly, aeration. Waiting for leaves to show loss of turgor and drought stress before watering is too late. Ensure watering is pro-active and applied deeply enough to be beneficial. The watering should be phased out over two years to encourage the tree to establish its own root system in relation to existing groundwater conditions.
- 4.11 Individual standard will be managed as follows: -
 - During establishment (the first two years after planting) the base of trees, circa 500mm radius, must be kept weed and grass free using suitable means.
 - Water tree during establishment to field capacity if the tree is under stress during dry periods.
 - Tree stakes can be removed after two-three years unless there is soil or root movement when the tree is rocked. Stakes and ties to be regularly inspected and adjusted or replaced, as necessary.
 - Plants found to be dead or dying within the first two years post planting to be replaced on a like-for-like basis as soon as possible within the next available planting season.
 - Throughout the management period grassland at basal areas should be left unmown to protect the trunk and root areas from machinery and to provide associated habitat diversity at the tree base for small mammals, birds and other local fauna.
 - Trees will be checked annually and after major storms for necessary remedial works with works undertaken as advised by a suitably qualified tree surgeon/ arborist.
 - Pruning of dead, diseased or damaged branches should be carried out as appropriate to promote healthy growth and natural shape, and to favour a single central leading shoot. Pruning and tree works must be undertaken in late summer/ early autumn (September/ October) to avoid the bird nesting season.
 - Where practical, arisings from tree works will be used to create dead wood piles (suitable locations to be agreed). Alternatively, they will be removed from site.

Native Hedgerow Planting

- 4.12 Hedgerows are identified as a Habitat of Principle Importance (HPI) as listed within Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006.
- 4.13 New hedgerows will be created as part of the development, infilling areas to connect existing hedgerows.

- 4.14 New hedgerows will be planted during the planting season (October to March inclusive) and will comprise mixed, native species planting at a density of 7/3 plants per linear metre, with plants arranged in an off-set double staggered row (DSR) in species groups of 5 to 11. All new hedgerow planting will be provided with 75mm bark mulch. Individual spiral guards and bamboo canes will be required to prevent damage to saplings by browsing rabbits.
- 4.15 The main hedgerow mix will comprise the following species:

Species	Density	Size	Root	%
<i>Acer campestre</i>	7/Lm DSR	60-80cm	BR	15
<i>Corylus avellana</i>	7/Lm DSR	60-80cm	BR	15
<i>Cornus sanguinea</i>	7/Lm DSR	60-80cm	BR	5
<i>Crataegus monogyna</i>	7/Lm DSR	60-80cm	BR	35
<i>Euonymus europaeus</i>	7/Lm DSR	60-80cm	BR	5
<i>Ilex aquifolium</i>	7/Lm DSR	3L	C	5
<i>Rosa Canina</i>	7/Lm DSR	60-80cm	BR	10
<i>Prunus spinosa</i>	7/Lm DSR	60-80cm	BR	5
<i>Viburnum opulus</i>	7/Lm DSR	60-80cm	BR	5

- 4.16 Where native hedgerow is proposed in proximity to drainage pipes adjacent to the pump station, the hedgerow mix will comprise the following species:

Species	Density	Size	Root	%
<i>Corylus avellana</i>	7/Lm DSR	60-80cm	BR	35
<i>Ligustrum vulgare</i>	7/Lm DSR	60-80cm	BR	35
<i>Prunus spinosa</i>	7/Lm DSR	60-80cm	BR	15
<i>Sambucus nigra</i>	7/Lm DSR	60-80cm	BR	15

Single Species Hedgerow Planting

- 4.17 New hedgerows will be created as part of the development, providing structure to the landscape framework.
- 4.18 The hedgerow planting will comprise the following species:

Species	Density	Size	Root
<i>Carpinus betulus</i>	3/Lm		BR
<i>Ligustrum ovalifolium</i>	3/Lm	10L	C
<i>Ligustrum vulgare</i>	3/Lm		BR
<i>Lonicera nitida</i>	3/Lm	10L	C
<i>Lonicera nitida</i> 'Maigreen'	3/Lm	5L	C
<i>Prunus laurocerasus</i> 'Otto Luyken'	3/Lm	10L	C
<i>Viburnum tinus</i> 'Eve Price'	3/Lm	10L	C

- 4.19 Plants must be set in the holes at the same depth at which they have previously been growing with planting holes excavated approximately 150mm larger than the root balls and backfilled with a mixture of topsoil.
- 4.20 Plants to be a minimum of 300mm from any adjacent hard surface. All stock to be well watered when planted with 20L of water per m². Following planting and watering operations, all beds are to be mulched with 75mm of mulch (5-75mm particle size, British origin, FSC certified)

Ornamental Shrub and Grass Planting

- 4.21 The native shrub planting around the site boundary will comprise the following species:

Species	Density	%
Euonymus europaeus	1/Sqm	20
Frangula alnus	1/Sqm	10
Rosa canina	1/Sqm	15
Ilex aquifolium	1/Sqm	5
Crataegus monogyna	1/Sqm	25
Prunus spinosa	1/Sqm	10
Corylus avellana	1/Sqm	15

- 4.22 The structural shrub planting within the open space including adjacent to the pump station, substation play area and drainage basin will comprise the following species:

Species	Density	%
Escallonia 'Apple Blossom'	3/Sqm	25
Cornus alba 'Sibirica'	3/Sqm	25
Cornus stolonifera 'Flaviramea'	3/Sqm	25
Viburnum tinus	3/Sqm	25

- 4.23 The ornamental shrub planting to the play area will comprise the following species:

Species	Density	%
Cornus alba 'Sibirica'	3/Sqm	20
Ligustrum vulgare	2/Sqm	20
Cornus sanguinea	3/Sqm	30
Hebe 'Autumn Glory'	2/Sqm	10
Miscanthus sinensis 'Zebra'	3/Sqm	20

- 4.24 Plants must be set in the holes at the same depth at which they have previously been growing with planting holes excavated approximately 150mm larger than the root balls and backfilled with a mixture of topsoil.

- 4.25 Plants to be a minimum of 300mm from any adjacent hard surface. All stock to be well watered when planted with 20L of water per m². Following planting and watering operations, all beds are to be mulched with 75mm of mulch (5-75mm particle size, British origin, FSC certified)

Climber Planting

- 4.26 Plants must be set in the holes at the same depth at which they have previously been growing with planting holes excavated approximately 150mm larger than the root balls and backfilled with a mixture of topsoil.

- 4.27 Plants to be a minimum of 300mm from any adjacent hard surface. All stock to be well watered when planted with 20L of water per m². Following planting and watering operations, all beds are to be mulched with 75mm of mulch (5-75mm particle size, British origin, FSC certified)

- 4.28 Climbers are to be planted a minimum 450mm from the base of a wall and trained back to support wires along 2no canes approx 600mm long, firmly lodged in ground either side of plant.

Long / Meadow Grassland

- 4.29 New areas of meadow grassland will be seeded using a species-rich meadow grassland mix such as **Emorsgate EM3 – Special General Purpose Meadow Mixture** or similar native species mix.
- 4.30 Areas to be sown will be first rotovated and raked or harrowed to produce a medium fine, firm tilth. Fertiliser will not be applied at any point as this will lead to dominance of nutrient loving species such as broad-leaved grasses, nettles and docks. The seed mix will be sown at a density as per the general manufacturer's recommendation to allow space for each species to establish and to produce good ground cover.
- 4.31 Seed will be sown in the autumn or spring, selecting a time when the soil is moist and can be worked. Seeding will be sown by hand broadcasting, seed fiddle, spinner, hydroseeding or grass seed drill on the surface and will not be raked or harrowed in.
- 4.32 See the Ecological Mitigation and Management Plan, Condition 13 for details.

Wet Grassland

- 4.33 New areas of wet grassland will be seeded using an appropriate species-rich mix such as **Emorsgate EM8 – Meadow Mixture for Wetlands** or similar native species mix.
- 4.34 Areas to be seeded are located as indicated on the planting proposals to the attenuation ponds with species selected to accommodate the periodically wet conditions.
- 4.35 Wet grassland seed will be sown at a density as per the general manufacturer's recommendation to allow space for each species to establish, and to produce good ground cover. Areas to be sown will be first rotovated and raked or harrowed to produce a medium fine, firm tilth. Fertiliser will not be applied at any point as this will lead to dominance of nutrient loving species such as broad-leaved grasses, nettles and docks. The Contractor will protect newly seeded areas to prevent seedling destruction by pedestrians.
- 4.36 Seed will be sown at a time when the soil is moist and can be worked, in the autumn (September/October) or spring (March/April), and not during the summer months. Seeding will be sown by hand broadcasting, seed fiddle, spinner or grass seed drill on the surface and will not be raked or harrowed in. A Cambridge (ribbed) roll is recommended to be used for one or two passes to firm and level the surface and create good seed soil contact. During initial establishment the grassland should be mown when it reaches 100mm in length for the first year.

Amenity Grassland

- 4.37 New short sward amenity grassland areas will be established using a suitable species-rich native flowering grassland mix such as **Emorsgate EL1 – Flowering Lawn Mixture**, sown as per the manufacturer's instructions.
- 4.38 Only areas disturbed through landscape works will be seeded. This will include areas either side of the new footpath links.
- 4.39 Areas to be sown will be first rotovated and raked or harrowed to produce a medium fine, firm tilth. Seed will be sown in the autumn or spring, selecting a time when the soil is moist and can be worked.
- 4.40 The above seed mix includes many perennial species that can be slow to germinate and grow. Ground cover will therefore likely take longer to develop than conventional lawn sowings and may

take 12-18 months to knit together as turf. Newly seeded areas will therefore be protected to prevent seedling destruction by pedestrians.

Existing Grassland Undisturbed During the Construction Process

- 4.41 Areas undisturbed during the construction process (and hence will not be seeded) will be created through the cutting management regime.

Bulb Planting

- 4.42 Areas of bulb planting are to be included within areas of amenity grassland. Planting will take place from late summer through to autumn. Topsize bulbs should be planted 300mm apart, planted in random swathes in the areas shown, at depths three times their height.
- 4.43 Planting will comprise the following species:

Species	%
<i>Crocus vernus</i>	25
<i>Eranthis hyemalis</i>	25
<i>Galanthus nivalis</i>	25
<i>Narcissus pseudonarcissus</i>	25

Bird Boxes and Bat Boxes

- 4.44 Bat boxes will be erected on suitable retained semi-mature / mature trees within the retained hedgerows and positioned out of reach of opportunistic predators such as cats. The bat boxes will be installed in accordance with standard best practice, such that the boxes are positioned at least 4m above the ground, with the entrances to the boxes facing south-west to south-east. The entrances to the boxes are to be free of obstacles such that there is a clean and clear flight path to the new potential roost sites. This measure will provide increased roosting opportunities across the site over the existing situation.
- 4.45 The below boxes are recommended to be installed within the Green Infrastructure:
- Schwegler 2F or similar x 3
 - Schwegler 2FN or similar x 3
 - Schwegler 1FN or similar x 3
 - Integral bat boxes/ tubes to be incorporated into new buildings (locations identified at 6.14 of the Ecological Mitigation and Management Plan, Condition 13).
- 4.46 Bird boxes will also be erected on retained semi-mature / mature trees within the retained hedgerows. Using a variety of nest box types will provide new suitable nesting opportunities for a range of birds and potentially encourage new bird species into the site. The bird boxes will be installed in accordance with standard best practice, such that the boxes are positioned generally around 1-3m above the ground, with the entrances to the boxes facing between north and east. The entrances to the boxes are to be free of obstacles such that there is a clean and clear flight path to the new potential nesting sites.
- 4.47 The below boxes are recommended to be installed within the Green Infrastructure:
- Schwegler 1B or similar x 10

- Schwegler 2M or similar x 10

Hedgehog Highway

- 4.48 Hedgehog highways will be created throughout the development to maintain habitat connectivity. Holes and / or channels measuring 13cm by 13cm will be incorporated into garden fences / field boundaries which are sufficient for a hedgehog to pass through but too small for most pets.

Hibernacula / Refugia

- 4.49 Artificial hibernacula will be created in the development. These can occur along hedgerow boundaries, along stream corridors, or within tussock grassland, and ideally away from public footpaths. See the Ecological Mitigation and Management Plan, Condition 13 for details.

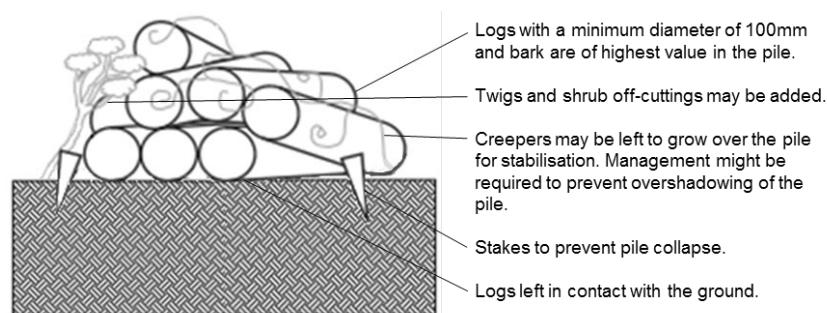
Reptile / Amphibian Hibernacula

- 4.50 Hibernacula can provide a mix of refuge and wintering habitat for amphibians and reptiles. The hibernacula will be constructed out of loosely piled rubble and logs, so that small crevices will be created between material that will allow refuge for amphibians, invertebrates and small mammals. Ideally, on sites with free-draining soils, the hibernacula should be constructed and built up within a pit, whereas sites with impermeable soils or high flood risk, hibernacula should be constructed as a pile on a gentle slope for drainage.

Log Pile

- 4.51 Log piles will ideally be created from tree work arisings from site and placed at the interface between woodland and grassland habitats, avoiding north facing areas. The logs should be left in contact with the ground in dappled shade and built into a compact pile to maintain humidity. Stakes should be driven into the ground either side of the log pile to prevent the pile from collapsing. 7No log piles should be created, 4No in the reptile area and 3No elsewhere.
- 4.52 Larger diameter logs (at least 100mm thick) with bark are of most value, particularly hard wood like ash, oak and beech, whereas freshly cut willow and poplar may re-sprout. Twigs, stems and shrub off-cuttings may also be added. Climbers may be allowed to grow thinly over the dead wood pile for stabilisation and moisture. Full sun will dry and heat the wood, supporting little life, whereas dense shade will promote the growth of fungi but may be too cool for insects. See the Ecological Mitigation and Management Plan, Condition 13 for details.

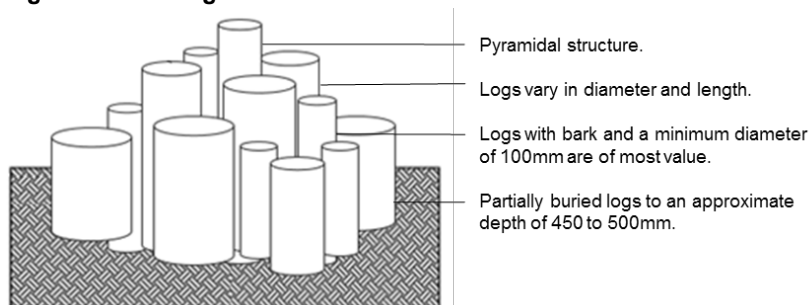
Figure 3: Log Pile Detail



Standing Dead Wood

- 4.53 Standing dead wood habitat will be created by partially burying logs vertically side by side in the ground to an approximate depth of 450 to 500mm, to form a pyramidal structure. Logs should vary in diameter and length.

Figure 4: Standing Dead Wood Detail



Bee Bank

- 4.54 A bee bank will be constructed in a crescent moon shape using rubble, soil and sand, positioned in a sunny area, sheltered from the prevailing wind and near to a source of pollen and nectar, such as a wildflower meadow. The crescent moon shape maximises surface area, traps warmth and creates a variety of microhabitats that will benefit many invertebrates.
- 4.55 A trench of at least 300mm depth will be dug to create the bank footprint. Turf will be removed to a depth of 150mm from up to 1m distance around the bank in order to prevent turf regrowth and create a border of bare ground. The up-side down placed turf, along with rubble, can be used to build the core strip of the bank which is topped with soil.
- 4.56 The bank should then be capped with appropriate material at sufficient depth that allows bees to burrow. Ideal capping material, such as sand (particularly builder's sand) and sub-soil, is low in nutrients with grains of a non-uniform size, which is spread unevenly to a minimum depth of 30cm to create a variety of conditions. Compacted sand should also be used to cover the bank's border to suppress weed growth and provide additional nesting bee habitat.
- 4.57 A number of clifflets will be incorporated into the bank to create vertical nesting habitat. Additional habitat for hole-nesting bees and other insects can be installed, such as bundles of bamboo canes, common reed stems or herbaceous perennial stems, as well as dead wood stumps with holes drilled to 80mm depth at 4-10mm diameter.

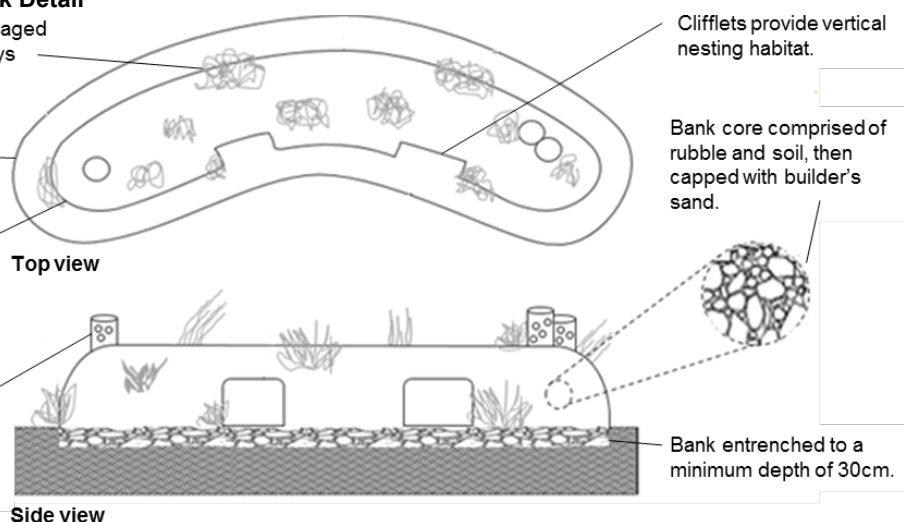
Figure 5: Bee Bank Detail

Sparse vegetation managed so bare ground is always visible.

Bank is bordered by 1m of sandy bare ground.

Crescent moon shaped bank creates a variety of microhabitats.

Dead wood stumps with 4 to 10mm diameter holes drilled to 80mm depth for hole-nesting bees.



Beetle Bank

- 4.58 Beetle banks will form field / meadow borders and / or islands. These banks not only provide essential overwintering habitat for invertebrates, but also offers habitat for small mammals and ground nesting birds. Mounds measuring 2m wide and 400mm high will be planted in September with a grass mix comprising up to 60% of tussock forming species, like cocksfoot and Scots timothy grass, and the remaining 40% as native grass species, including fescues and bents.

Objective 3: Provide a safe and inspiring recreational and leisure resource.

- 4.59 The scheme will incorporate areas of visually attractive meadow grassland, short sward / amenity grassland, trees, hedgerows and ground flora. The site will incorporate several relatively open informal amenity zones and dog walking zones with small tree groups to provide structure and interest.
- 4.60 Public access will be encouraged through most of the site. Appropriate pathways will be created to provide defined access routes across the site, reducing the potential for the creation of unauthorised desire lines across more sensitive habitats.
- 4.61 Litter bins will be provided at appropriate locations throughout the site and litter will be regularly collected and removed to avoid harm to wildlife or encouragement of pests.
- 4.62 Interpretation signage will be provided at appropriate locations as an educational resource to the development. The location of the signage is shown on the landscape proposals plans.

Fencing and Gates

- 4.63 Fencing will consist of the following types:
- Galvanised metal fence line, 1.2m high with self-closing pedestrian access gate and double leaf maintenance access gate. Details of fence line specification to be agreed with LPA according to requirements.
 - Post and wire fencing with timber gate to secure SUDs basin. Details of fence line specification to be agreed with LPA according to requirements.
- 4.64 Set out and erect fencing following straight lines or smoothly flowing curves. The tops of posts are to follow the profile of the ground. Posts are to be erected and set rigid, plumb and to specified depth, or greater where necessary to ensure adequate support. All components are to be securely fixed.
- 4.65 Ensure all fencing and gates are secure, undamaged and in a good state of repair. Should any part of a fence or gate be deemed below standard obtain guidance and/ or repair or replace as required.
- 4.66 Set out and erect gates to ensure that they are erected and set rigid, plumb and to specified depth, or greater where necessary to ensure adequate support. Tighten all fixings before handover and ensure that all hinges, latches and closers are suitably adjusted so as to provide smooth operation. Lubricate where necessary.

Footpaths

- 4.67 Footpaths through the public open space will consist of tarmac with concrete kerbs, to be agreed with LPA and engineers according to requirements.

Street Furniture

4.68 Street furniture will consist of the following types:

- Curved Benches – Furnitubes Zenith Horizon curved seating with external backrest ZNF RSV 238. 45/ 2.4m radius, 1890mm c/l 540mm depth 780mm height (or similar).
- Timber benches – Broxap Kedleston seat BX17 4092. 1800mm length x 350mm width x 450mm height (or similar).
- Timber litter bin – Broxap Winchester canopied litter bin. 90L, 900 high. 560mm diameter (or similar).
- Information boards – Fitzpatrick Woolmer design and publishing, A1 size Woodsman Timber Lectern (or similar).
- Welcome sign – Fitzpatrick Woolmer design and Publishing, A0 size Bowman C interpretation display (or similar).

Play Equipment

4.69 Play equipment to be supplied by Jupiter Play/ Russell Play or similar, and provide similar play experiences/ equipment as follows:

4.70 The play area will consist of the follow equipment: A – Semi Natural LAP

- Teepee Play House
- Climbing Tree
- Fallen Logs
- Stepping Logs

4.71 The play area will consist of the follow equipment: B – Natural LAP

- Slope Side
- Stepping posts
- Climbing Boulders

4.72 The play area will consist of the follow equipment: C – LEAP

- Timber Multi play Unit with Slide
- Group Spinning Bowls
- 4 Person Seesaw
- Play House
- Stepping logs
- Timber Climber and Net
- Pendulum Swing
- Stone Play Boulders

4.73 Grass Mat Impact Attenuation (1500mm x 1000mm) or similar to be installed under play equipment as required, to manufacturers instruction.

5.0 LANDSCAPE & ECOLOGICAL MANAGEMENT

Objective 4: Ensure the matrix of new and existing habitats establish and are suitably maintained to ensure long-term biodiversity gain.

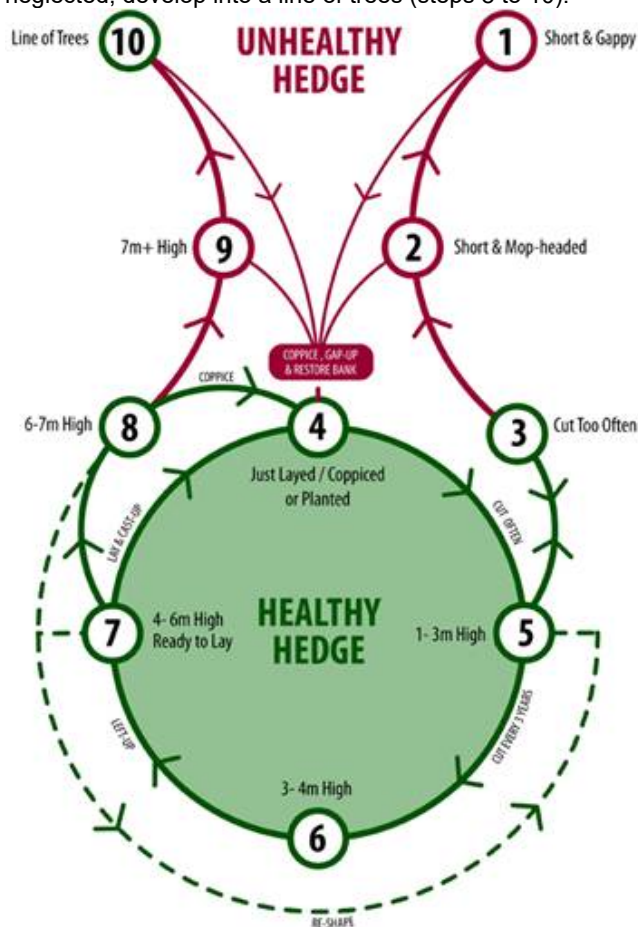
- 5.1 The following section outlines the works programme and management regime, with **Section 5** outlining the specification and implementation.

Table 1: Ten Year Management Works Programme

Prescriptions	Years with Priority									
	1	2	3	4	5	6	7	8	9	10+
Existing Retained Trees and Hedgerows										
Trees will be assessed by an experienced arboriculturalist or tree surgeon prior to works including tree removal necessary to permit creation of access paths and structures / bridges. Tree works will follow best practice procedures as set out in BS 3998:2010. No removal of woody vegetation will take place during the bird nesting season unless checked by a qualified Ecologist. Existing retained trees will be left unmanaged unless otherwise dictated for reasons of public safety.	✓									
Retained trees will be protected from damage and from soil compaction during construction using fenced Root Protection Areas (RPAs) where construction works are to be undertaken in the vicinity, in accordance with guidance in British Standard 5837:2012 – Trees in Relation to Design, Demolition and Construction – Recommendations.	✓									
Arisings from any woodland management activity will, where possible will be used to provide opportunities for invertebrates and bryophytes by forming micro-habitats from piles of dead wood or recumbent dead logs away from publicly accessible areas. Woodpiles will be created at the woodland edge and within the woodland interior. Where practical, piles will be situated in partial sunlight with some shade.	As required									
Side trimming of hedgerows in an 'A' profile to promote healthy hedgerow base. Hedgerows will be cut along one side annually, alternating between the two sides of the hedgerow each year.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
In the long term, hedgerows will be taken through a Hedgerow Management Cycle (HMC) ¹ . The ten steps of the HMC are shown below. The cycle shows a healthy green core and two unhealthy red offshoots. The aim should be to keep the hedge in the green part (steps 3 to 8), periodically laying or coppicing it, with trimming at appropriate intervals in between. If the hedge is not	As required									

¹ The Hedge Management Cycle (HMC). Art work by Will Field. Management Cycle concept developed by Nigel Adams. Hedgelink UK

permitted to go through this cycle, it will either, if cut too often, become short and gappy (steps 1 – 3) or, if neglected, develop into a line of trees (steps 8 to 10).



Tree Planting

A weed-free mulched 1m diameter circle around the tree stem to a minimum depth of 75mm. When trees have reached independence, the sward can be allowed to grow up to the trunk, although tall weeds, bramble and ivy will be removed from around the trees. Care will be taken when using strimming or mowing equipment to avoid damaging trees. Weeds and grass within 100mm of the trunks will be removed by hand.

Examine all tree stakes and ties, replace or adjust as appropriate. If the tree has yet to establish, replace or adjust ties, spacers and tree tubes as appropriate. If the tree has established well, then remove all stakes, ties, spacers, tubes etc. and make good surfaces disturbed – filling any holes with suitable topsoil.

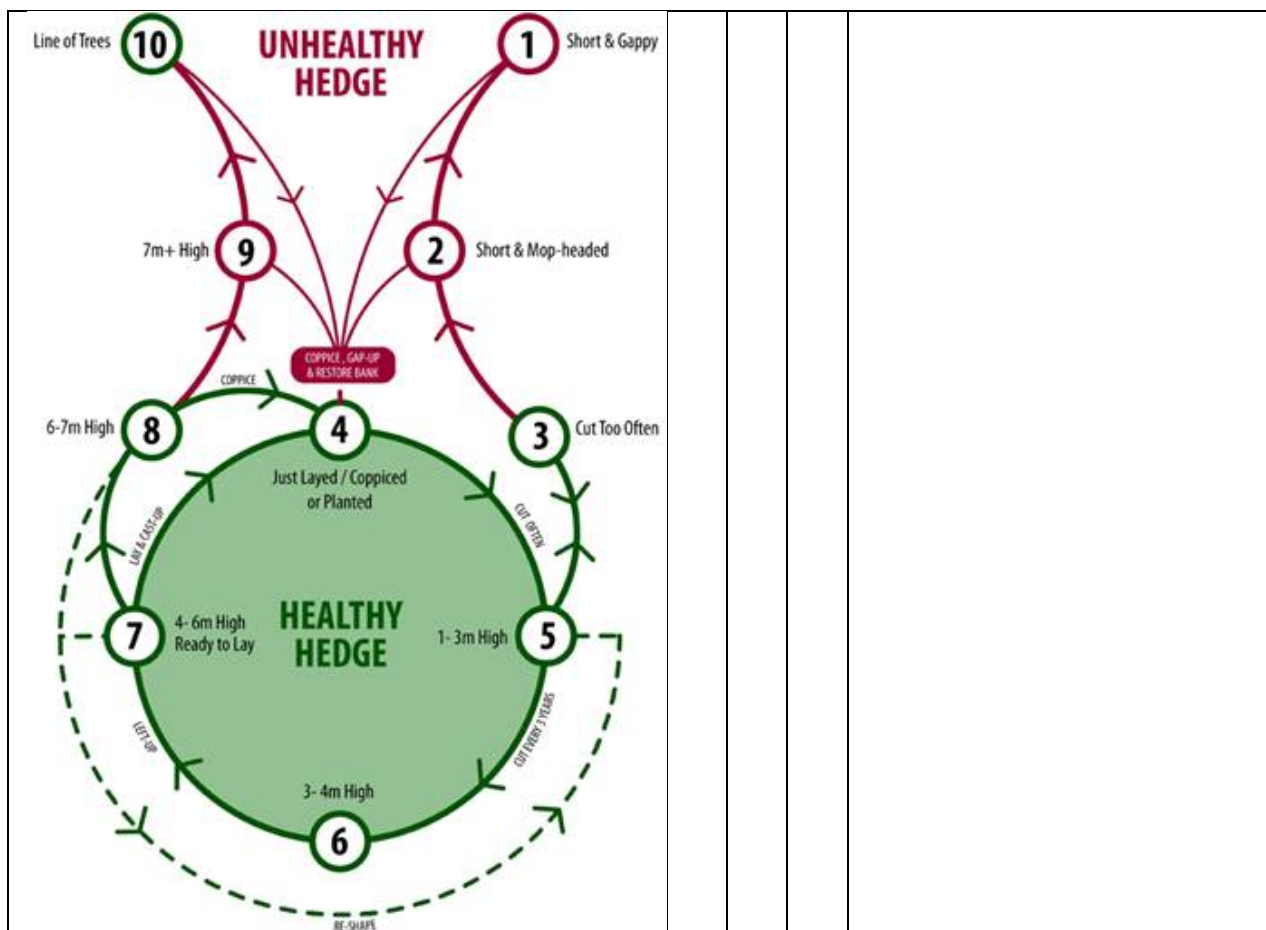
Replace failed specimens on a like-for-like basis. Top up mulch to a depth of 75mm where necessary.

Where periods of extreme drought occur, trees that have not yet established (not healthy, not in full leaf, suppressed growth) need to be watered where their tolerance to drought is deemed to be insufficient.

✓	✓	✓	✓	✓					
✓	✓	✓	✓	✓					
✓	✓	✓	✓	✓					
✓	✓	✓	✓	✓					

Native Hedgerow Planting										
Following planting, water hedgerows in periods of extreme drought (2 or more weeks without substantial rainfall) (new and translocated hedgerow planting).	✓	✓	✓	✓	✓					
Replace failed specimens on a like-for-like basis.	✓	✓	✓	✓	✓					
Examine all guards and replace or adjust as appropriate. Remove guards once hedgerows established	✓	✓	✓	✓	✓					
Spraying or strimming of weeds to reduce competition and aid establishment. Not required if weed suppression matting used.	✓	✓	✓	✓	✓					
Side trimming of hedgerows in an 'A' profile to promote healthy hedgerow base. Starting in year 4 after planting new hedgerows will be cut along one side annually, alternating between the two sides of the hedgerow each year. Top up mulch as required.				✓	✓	✓	✓	✓	✓	✓
Prune any diseased or rotten wood back to sound wood. Remove all cut material from site.				As required						
In the long term, hedgerows will be taken through a Hedgerow Management Cycle (HMC) ² . The ten steps of the HMC are shown below. The cycle shows a healthy green core and two unhealthy red offshoots. The aim should be to keep the hedge in the green part (steps 3 to 8), periodically laying or coppicing it, with trimming at appropriate intervals in between. If the hedge is not permitted to go through this cycle, it will either, if cut too often, become short and gappy (steps 1 – 3) or, if neglected, develop into a line of trees (steps 8 to 10).				As required						

² The Hedge Management Cycle (HMC). Art work by Will Field. Management Cycle concept developed by Nigel Adams. Hedgelink UK



Single Species Hedgerow Planting

Following planting, water shrubs in periods of extreme drought (2 or more weeks without substantial rainfall).	✓	✓	✓	✓	✓					
Replace failed specimens on a like-for-like basis.	✓	✓	✓	✓	✓					
Remove weed growth by hand and top up mulch levels as necessary. Dead-head after flowering.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Prune hedgerows to a square cross section during October to March.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Climber Planting

Following planting, water shrubs in periods of extreme drought (2 or more weeks without substantial rainfall).	✓	✓	✓	✓	✓					
Replace failed specimens on a like-for-like basis.	✓	✓	✓	✓	✓					
Remove weed growth by hand and top up mulch levels as necessary.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Prune climbers during October to March where vegetation encroaches over gateways or pathways.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Ornamental Shrub and Grass Planting

Following planting, water shrubs in periods of extreme drought (2 or more weeks without substantial rainfall).	✓	✓	✓	✓	✓					
Replace failed specimens on a like-for-like basis.	✓	✓	✓	✓	✓					
Remove weed growth by hand and top up mulch levels as necessary. Dead-head after flowering.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Neatly prune back shrubs (no more than one third of woody growth) during October to March. Trim shrubs back from paths.			✓	✓	✓	✓	✓	✓	✓	✓
Neatly prune back and remove the spent stems and dead leaves of grasses during March - April. Care should be taken not damage the crown or emerging new growth.			✓	✓	✓	✓	✓	✓	✓	✓
Long / Meadow Grassland										
Following establishment grassland will be mown on a rotational basis with areas either being mown once during early spring (March) and autumn (October). A later cut will benefit moth species by providing a food source for longer, and subsequently provide increases foraging opportunities for bats in their active season of April to October.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Grassland adjacent to hedgerows and woodland habitat will be cut once on alternate years with some ruderal species being allowed to colonise for further species and habitat diversity. Arisings will be left for 48 hours to allow dispersal of seeds and invertebrates prior to removal, to encourage grassland establishment and prevent soil enrichment and thatching.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spot treat persistent pernicious weeds using herbicide following the first season's growth and/or manual hand strimming of target areas either in late summer when adjacent grassland is mown or in early spring. Care will be taken when using herbicide adjacent to riparian and aquatic habitats to prevent pollution of such habitats.	As required									
Wet Grassland										
Following establishment the Wet Grassland in the basins will be cut on a rotational basis with no more than one third cut in any one year. The Wet Grassland will be cut during March or August/September, to create a varied structure of grassland habitat that will be of benefit to invertebrates, amphibians, reptiles and other species. Strimming should not occur with 100mm of tree stems.		✓	✓	✓	✓	✓	✓	✓	✓	✓
Spot treat persistent pernicious weeds using herbicide following the first season's growth and/or manual hand strimming of target areas either in late summer when adjacent grassland is mown or in early spring. Care will be taken when using herbicide adjacent to riparian and aquatic habitats to prevent pollution.	As required									
Amenity Grassland										
During initial establishment of new grassland, it will be mown to a height of 50mm 6-8 weeks after germination and subsequently to a height of 35-40mm as required, but not more regularly than once every 4 weeks until such a time as a knitted turf is established. Once established, amenity grassland will be cut 16 times per year between March and October. Strimming should not occur with 100mm of tree stems.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Mowing will be reduced during prolonged dry periods and the mowing height increased to 50mm at such times. Similarly in very wet conditions all grass cutting operations will cease until conditions allow for grass cutting to take place.	As required									
Spot treat persistent pernicious weeds using herbicide following the first season's growth and/or manual hand strimming of target areas either in late summer when adjacent grassland is mown or in early spring. Care will be taken when using herbicide adjacent to riparian and aquatic habitats to prevent pollution of such habitats.	As required									
Strimming or mowing of grass on grasscrete parking bays	As required									
Bulb Planting										
Following establishment, areas with bulb planting will not be mown until after a 6-week period following flowering to allow the plants to feed the bulbs for the subsequent year.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Replace failed specimens on a like-for-like basis.	✓	✓	✓							
Bird Boxes and Bat Boxes										
Bird boxes will have a non-invasive inspection in autumn or winter to check for damage. Replace lost or damaged boxes.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bat boxes will have a non-invasive visual inspection in autumn or winter to check for damage, unless a separate agreement has been agreed with Natural England. Replace lost or damaged boxes. Any work required to the bat boxes will be carried out by a licenced bat worker.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hibernacula										
Following establishment, the grassed cap will be strimmed once annually in late summer (late August to September).	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
The margins of the hibernacula will be inspected once annually to be kept clear from vegetation, leaving the fill exposed to allow access by wildlife.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
The bank must be managed to maintain sparse vegetation so that bare ground is always visible. Sections of the bank should be cleared annually of weeds in rotation, ideally in February , to minimise disturbance.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
The grass sward atop the bank will be managed during its first summer with typically three cuttings which commence when the sward reaches 10cm in height to encourage grasses to tiller and help control invasive annual weeds. Cutting should not occur within months May to August inclusive to avoid disturbing nests. Once established, the sward will typically only need cutting once annually to remove dead tussocks and promote tussock regeneration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fences and Gates										
Fencing and gates shall have a twice annual inspection in spring and autumn.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Footpaths										
Ensure access paths are free from weeds, trip hazards or other obstructions. This includes a once annual spray of weeds and any depressions / pits to be filled.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Street Furniture										
Maintain all furniture in good condition. Should any part be damaged then prohibit use, obtain guidance and/ or repair or replace as required. Repaint as required.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Once annual spray and weed around footings.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Play Equipment										
Maintain all play equipment in good condition. Should any part be deemed below standard then prohibit use, obtain guidance and/ or repair or replace as required.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Inspect on a regular basis to manufacturers / ROPSA requirements. Record inspections and any actions arising from inspections.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
General										
Litter will be removed from the site as part of the general management and maintenance visits. All litter, stones or other debris will be collected and removed by the Contractor immediately prior to grass cutting operations.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ecological visual inspection by a qualified ecologist for the first year to provide baseline data for future surveys to be monitored against.					✓					✓
Arboricultural visual inspection, as part of the tree safety risk assessment for the development.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Work programme review by those members of staff involved in site management.					✓					✓

6.0 MONITOR THE SITE AND REVIEW THE PLAN

Objective 5: Provide a framework of monitoring and review periods.

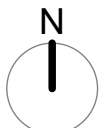
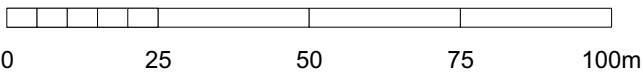
- 6.1 In order to ensure that the habitats created within the site reach and maintain their maximum value to nature conservation, all habitats will be monitored.
- 6.2 Results of this monitoring will be used to inform changes to the management plan and ten- year work programme. The prescriptions provided here will not be set in stone and will be altered if required in agreement with the Local Planning Authority (LPA). The management plan will run for a period of ten years, with the work programme fully reviewed at the end of the initial five-year period by those members of staff involved in site management, and the LEMP updated accordingly, to be updated for the life of the development.
- Ecological inspection by a qualified ecologist in years 5 and 10 to provide baseline data for future surveys to be monitored against.
 - Annual arboricultural visual inspection, as part of the tree safety risk assessment for the development.

Appendix A

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NOTES

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KEY

- Site Boundary
- Visibility Splays

EXISTING LANDSCAPE FRAMEWORK

- Existing Trees Retained & Protected (Subject to Arboricultural Assessment)
- Existing Hedgerows Retained & Protected (Subject to Arboricultural Assessment)
- Existing Trees to be Removed (Subject to Arboricultural Assessment)
- Existing TPO Trees (See Arboricultural Assessment for details)

PROPOSED PLANTING CHARACTER AREAS

Drove Park Ornamental Planting Mixes

- Main Street
- Secondary Street
- Lanes

Loveys Field Ornamental Planting Mixes

- Secondary Street
- Lanes

Bilsham Street Ornamental Planting Mixes

- Main Street
- Lanes

- Proposed Tree Planting
- Native Shrub Mix
- Native Mixed Hedgerow
- Single Species Ornamental Hedgerow
- Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)
- Ornamental Structural Shrub Mix (Open Space)
- Play Area Shrub Mix
- Turf
- Rolawn Medallion Turf (or similar approved)
- Amenity Grassland
- Emorsgate EL1 - Flowering Lawn Mixture (or similar approved)
- Meadow Grassland
- Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)
- Wet Meadow Grassland
- Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)
- Bulb Planting

PROPOSED HARD LANDSCAPE MATERIALS

- (See Drawing 7905-L-011 for Details)
- Macadam Footpaths through Open Space
- Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1
- Timber Benches
- Curved Benches
- Welcome Sign
- Information Boards
- Litter Bins
- Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

G	23/09/2021	Minor amendment to native hedgerow species mix	JES/LP
F	26/08/2021	Removal of hedgerow from vis splay at plot 134-137	JES/UPF
E	12/08/2021	Amended as per revised layout and drainage proposals	JES/UPF
rev	date	description	drn / chkd



masterplanning
environmental assessment
landscape design
urban design
ecology
architecture
arboriculture

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client
Hyde Housing

project
Land at Bilsham Road,
Yapton, West Sussex

drawing title
General Arrangement Plan

scale
1:1250 @ A1

drawn / checked
JES / LP

revision date
23 September 2021

drawing number

rev

7905-L-100

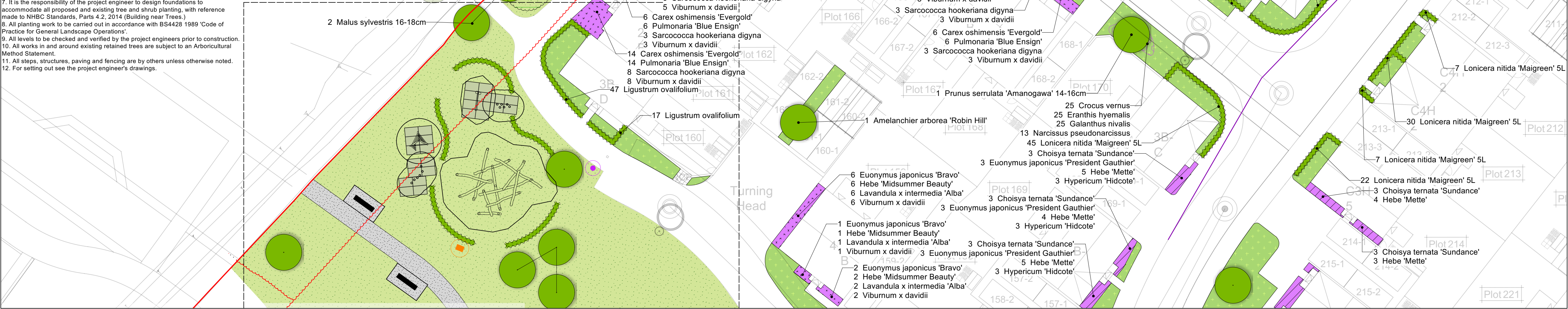
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Planting Schedule						
Qty	Latin Name	Common Name	Height	Form	Root Condition	Minimum Clear Stem
17	Acer campestre	Field maple	400-450cm	Extra Heavy Standard	RB	Min. 200cm
6	Alnus glutinosa 8-10cm	Alder	250-300cm	Standard	RB	Min. 200cm
10	Alnus glutinosa 12-14cm	Alder	350-400cm	Heavy Standard	RB	Min. 200cm
25	Amelanchier arborea 'Robin Hill'	Amelanchier	425-490cm	Extra Heavy Standard	RB	Min. 200cm
11	Amelanchier lamarckii	Snowy Mesquit	300-350cm	Extra Heavy Standard	RB	Min. 200cm
10	Betula pendula 8-10cm	Silver birch	250-300cm	Standard	RB	Min. 200cm
10	Betula pendula 14-16cm	Silver birch	400-450cm	Extra Heavy Standard	RB	Min. 200cm
31	Betula utilis jacquemontii	West Himalayan birch	350-425cm	Heavy Standard	RB	Min. 200cm
16	Betula utilis jacquemontii Multistem	West Himalayan birch	250-300cm	Multistem	C	Min. 200cm
2	Carpinus betulus 'Trans Fontaine'	Hornbeam 'Trans Fontaine'	400-450cm	Extra Heavy Standard	RB	Min. 200cm
1	Carpinus betulus 8-10cm	Hornbeam	250-300cm	Standard	RB	Min. 200cm
3	Carpinus betulus 14-16cm	Hornbeam	400-450cm	Extra Heavy Standard	RB	Min. 200cm
3	Castanea monogyna 'Starka'	Hawthorn 'Starka'	350-400cm	Heavy Standard	RB	Min. 200cm
4	Fagus sylvatica 14-16cm	Common beech	400-450cm	Extra Heavy Standard	RB	Min. 200cm
12	Magnolia 'Heaven Scent'	Magnolia 'Heaven Scent'	350-400cm	Extra Heavy Standard	RB	Min. 200cm
1	Magnolia x soulangeana 'Yellow Bird'	Yellow Bird Magnolia	350-400cm	Extra Heavy Standard	RB	Min. 200cm
6	Magnolia x loebneri 'Leonard Messel'	Leonard Messel Magnolia	350-400cm	Extra Heavy Standard	RB	Min. 200cm
1	Malus 'Golden Hornet'	Crab Apple 'Golden Hornet'	400-450cm	Heavy Standard	RB	Min. 200cm
4	Malus sylvestris	Crisp Apple	400-450cm	Heavy Standard	RB	Min. 200cm
16	Pinus sylvestris	Scots pine	250-300cm	Extra Heavy Standard	RB	Min. 200cm
3	Prunus serrula	Paperbark Cherry	400-450cm	Extra Heavy Standard	RB	Min. 200cm
3	Prunus serrula 'Amanogawa'	Cherry	350-420cm	Extra Heavy Standard	RB	Min. 200cm
20	Prunus sibirica 'Chariclever'	Calvery pear 'Chariclever'	400-450cm	Extra Heavy Standard	RB	Min. 200cm
3	Quercus robur 8-10cm	Common, English oak	250-300cm	Standard	RB	Min. 200cm
1	Quercus robur 12-14cm	Common, English oak	350-420cm	Heavy Standard	RB	Min. 200cm
29	Sorbus aucuparia 8-10cm	Mountain ash or Rowan	250-300cm	Standard	RB	Min. 200cm
7	Tilia cordata	Small-leaved lime	400-450cm	Extra Heavy Standard	RB	Min. 200cm
Native Mixed Hedgerows (double staggered row at 7/linear metre)						
Qty	Latin Name	Common Name	Height	Form	Root Condition	
237	Acer campestre	Field maple	60-80cm	Whip	BR	
79	Cornus sanguinea	Common dogwood	60-80cm	Whip	BR	
718	Cornus alba avelana	Hazel, Colony	60-80cm	Whip	BR	
553	Crataegus monogyna	Common hawthorn	60-80cm	Whip	BR	
10	Euonymus europaeus	Spindle	60-80cm	Whip	BR	
461	Ligustrum vulgare	Common privet	60-80cm	Whip	BR	
385	Prunus spinosa	Blackthorn	60-80cm	Whip	BR	
7	Rosa canina	Dog rose	60-80cm	Whip	BR	
Single-Species Ornamental Hedgerows (single row at 3/linear metre)						
Qty	Latin Name	Common Name	Height	Form	Root Condition	Scheduled Size
402	Carpinus betulus	Hornbeam	60-100cm	Furnished	C	10L
307	Ligustrum ovalifolium	Oval-leaved Privet	60-80cm	Whip	BR	10L
123	Ligustrum vulgare	Common privet	60-80cm	Whip	BR	10L
108	Lonicera nitida 10L	Honeysuckle	40-60cm (D)	Whip	C	5L
1347	Lonicera nitida 'Maigreen' 5L	Honeysuckle	40-60cm (D)	Whip	C	5L
91	Prunus laurocerasus 'Otto Luyken'	Cherry laurel var.	60-80cm	Whip	C	10L
215	Viburnum tinus 'Eve Price'	Laurel	40-60cm	Bushy	C	10L
Climbing Plants						
Qty	Latin Name	Common Name	Height	Form	Root Condition	Scheduled Size
12	Jasminum officinale	Jasmine	80-100cm	Whip	C	5L
9	Clematis arvensis	Armed Clematis	60-80cm	Whip	C	5L
Shrubs and Herbaceous Perennials						
Qty	Latin Name	Common Name	Height	Scheduled Size	Rate/Spacing	Root Condition
73	Agapanthus 'White Umbrella'	African Lily	20-30cm	1.5-2L	5 Plantlets/m	C
66	Angelica mediana 'Cathie's Giant'	Angelica	20-30cm	2-3L	3 Plantlets/m	C
95	Bergenia cordifolia	Elephant's Ears	20-30cm	2-3L	3 Plantlets/m	C
39	Carex oshimensis 'Evergold'	Sedge 'Tropical Curls'	20-30cm	2-3L	3 Plantlets/m	C
273	Carex monnensis 'Ice Dance'	Ice Dance	20-30cm	2-3L	3 Plantlets/m	C
345	Choisya ternata	Mexican orange blossom	40-60cm	5-7 SL	4 Plantlets/m	C
36	Choisya ternata 'Sundance'	Mexican orange blossom	40-60cm	5-7 SL	4 Plantlets/m	C
65	Choisya x dewilbeana 'Asteric Pearl'	Mexican orange blossom	20-30cm	2L	3 Plantlets/m	C
33	Cistus x danersheimi 'Decumbens'	Rose Rose 'Decumbens'	30-40cm	2L	4 Plantlets/m	C
37	Cistus x lewisii 'Snow White'	Rose Rose 'Snow White'	40-60cm	2L	3 Plantlets/m	C
37	Cornus alba 'Sibirica' 40-80cm	Siberian dogwood	40-60cm	2L	3 Plantlets/m	C
334	Cornus alba 'Sibirica' 60-80cm	Siberian dogwood	60-80cm	2L	3 Plantlets/m	C
30	Cornus sanguinea	Common dogwood	60-80cm	2L	3 Plantlets/m	BR
308	Cornus stolonifera 'Flavissima'	Yellow-stemmed Dogwood	60-80cm	3L	3 Plantlets/m	C
662	Corylus avellana	Hazel, Cobnut	60-80cm	1 Plantlet/m	BR	
668	Crataegus monogyna	Common hawthorn	60-80cm	3 Plantlets/m	BR	
308	Cytisus x praecox 'Algalot'	Broom 'Algalot'	40-60cm	3L	5 Plantlets/m	C
308	Escallonia 'Apple Blossom'	Escallonia	40-60cm	3L	3 Plantlets/m	C
308	Euonymus europaeus	Spindle	60-80cm	1 Plantlet/m	BR	
110	Euonymus fortunei 'Emerald Gaiety'	Spindle 'Emerald Gaiety'	30-40cm	3L	3 Plantlets/m	C
97	Euonymus fortunei 'Emerald n Gold'	Spindle	40-60cm	7.5L	3 Plantlets/m	C
103	Euonymus japonicus 'Bravo'	Spindle 'Bravo'	30-40cm (D)	10L	3 Plantlets/m	C
103	Euonymus japonicus 'President Gauthier'	Spindle 'President Gauthier'	30-40cm (D)	5-7 SL	3 Plantlets/m	C
277	Frangula alnus	Alder Buckthorn	60-80cm	1 Plantlet/m	BR	
107	Geranium 'Ann Folkard'	Cranesbill 'Ann Folkard'	20-30cm	2-3L	3 Plantlets/m	C
113	Geranium macranthum	Cranesbill	20-30cm	2-3L	3 Plantlets/m	C
10	Hebe 'Autumn Glory'	Hebe 'Autumn Glory'	20-30cm	5L	2 Plantlets/m	C
241	Hebe 'Matis'	Hebe 'Matis'	20-30cm	5L	3 Plantlets/m	C
241	Hebe 'Midsummer Beauty'	Hebe 'Midsummer Beauty'	20-30cm	5L	3 Plantlets/m	C
247	Hebe rakensis	Hebe rakensis	40-60cm	5L	3 Plantlets/m	C
67	Hedera helix 'Ereclat'	Ivy 'Ereclat'	20-30cm	2-3L	3 Plantlets/m	C
40	Hydrangea 'Princess'	Hydrangea 'Princess'	30-40cm	3L	3 Plantlets/m	C
109	Hypericum 'Hidcote'	St John's Wort 'Hidcote'	40-60cm	5-7 SL	3 Plantlets/m	C
43	Hypericum x moserianum 'Tricolor'	St John's Wort 'Tricolor'	40-60cm	3L	3 Plantlets/m	C
128	Hebe 'Autumn Glory'	Hebe 'Autumn Glory'	20-30cm	5L	2 Plantlets/m	C
98	Lavandula x intermedia 'Alba'	Lavender 'Alba'	20-30 cm	3L	3 Plantlets/m	C
98	Libertia parguiana 'Gold Leaf'	Wandering Chilean iris 'Gold Leaf'	30-40cm	2-3L	4 Plantlets/m	C
103	Ligustrum vulgare	Common privet	60-80cm	3L	3 Plantlets/m	C
110	Lonicera nitida 'Maigreen' 5L	Lonicera nitida 'Maigreen' 5L	20-30 cm	3L	3 Plantlets/m	C
110	Malva japonica 'Apollis'	Wandering Chilean iris 'Gold Leaf'	30-40cm	2-3L	4 Plantlets/m	C
298	Miscanthus sinensis 'Gracillimus'	Maiden grass	20-30cm	3-4L	3 Plantlets/m	C
26	Miscanthus sinensis 'Zosterius'	Maiden grass	20-30cm	3-4L	3 Plantlets/m	C
31	Phlox x russii 'Little Red Robin'	Christmas berry 'Little Red Robin'	40-60cm	5L	3 Plantlets/m	C
277	Prunus spinosa	Blackthorn	60-80cm	5L	3 Plantlets/m	C
441	Pulmonaria 'Blue Ensign'	Lungwort	20-30cm	2L	3 Plantlets/m	C
113	Pulmonaria officinalis 'Sissinghurst White'	Lungwort	20-30cm	2L	5 Plantlets/m	C
277	Rosa canina	Dog rose	60-80cm	5L	3 Plantlets/m	BR
31	Rosmarinus officinalis	Rosemary	40-60cm	5L	3 Plantlets/m	C
62	Sarcococca confusa	Christmas box	30-40cm	3L	3 Plantlets/m	C
148	Sarcococca hookeriana digyna	Sweet Box digyna	20-30cm	5L	3 Plantlets/m	C
120	Sarcococca humilis	Dwarf Sweet Box	25-30cm	5L	3 Plantlets/m	C
135	Skimmia japonica 'Rubellae'	Japanese spirea	30-40cm	5L	3 Plantlets/m	C
33	Spiraea japonica 'Goldflame'	Japanese spirea	30-40cm	5L	3 Plantlets/m	C
128	Stipa tenuifolia	Giant feather grass	1.5-2L	3 Plantlets/m	3L	3 Plantlets/m
308	Viburnum tinus	Laurel	40-60cm	7.5L	3 Plantlets/m	C
0					0	
Bulbs						
Qty	Latin Name	Common Name	Height	Scheduled Size	Rate/Spacing	
2096	Crocus vernus	Crocus		10 Plantlets/m		
2096	Erantthis hyemalis	Winter Aconite		10 Plantlets/m		
2096	Gallanthus nivalis	Common snowdrop		10 Plantlets/m		
1047	Narcissus pseudonarcissus	Daffodil		5 Plantlets/m		

1. All drawing dimensions to be checked and verified prior to construction.
2. Drawings are design intent and for Planning purposes only
3. Drawings to be checked and verified by the project Architect, Engineer, M&E Engineer, Lighting consultant.
4. Specification/depth/location of root barriers to be subject to the project engineer's final design.
5. All services and drainage easements are to be checked and verified by the project engineers. Planting to be in accordance with relevant Southern Water and Sewerage Sector Guidance.
6. The landscape contractors shall make themselves aware of all service locations, health and safety and risk assessments prior to commencing planting operations.
7. It is the responsibility of the project engineer to design foundations to accommodate all proposed and existing tree and shrub planting, with reference made to NHC Standards, Parts 4.2, 2014 (Building near Trees.)
8. All planting work to be carried out in accordance with BS4288 1989 'Code of Practice for General Landscaping Operations'.
9. All levels to be checked and verified by the project engineers prior to construction.
10. All works in and around existing retained trees are subject to an Arboricultural Method Statement.
11. All steps, structures, paving and fencing are by others unless otherwise noted.
12. For setting out see the project engineer's drawings.

ADDITIONAL TREES OF SUITABLE SPECIES TO BE INCLUDED WITHIN NEIGHBOURING SITE TO COMPLETE BAT HOP-OVER.



LANDSCAPE SPECIFICATION

Outline Implementation & Maintenance Guidelines

Topsoil
Identification of topsoil and subsoil resources on site will be required to inform the detailed design of tree and planting beds, including the appropriate depth of soil horizons and the requirement for amelioration of the growing medium, prior to planting. If modifications to the soil are necessary, soil ameliorants will be used sparingly. The backfill medium used should be as close as possible in texture and structure to the soil excavated from the tree pit. Ideally the dug soil from the excavated pit should be used as the backfill medium and as far as practicable, replicate the horizons within the original soil profile. Site won topsoil that has been stored in temporary stock piles will be re-tested prior to use. Where site won topsoil is not available, imported topsoil will be used. Topsoil for tree pits and planting beds shall be imported from an approved site, be in accordance with BS3882:2007 and be classified as premium grade. Topsoil shall, under no circumstances become contaminated by other materials e.g hardcore. Minimum topsoil depths generally: tree 1200mm depth, shrub areas 450mm depth and grass areas 150mm depth.

Existing Tree & Hedgerows
All trees and hedges which are shown for retention should be inspected for safety by a qualified member of the Arboricultural Association and subject to BS 5837:2012 'Trees in Relation to Construction'. They should be protected during all phases of construction with temporary fencing in accordance with BS 5837:2012 and must comply with all applicable planning conditions. Any tree surgery required shall also be in accordance with BS 3998:2010. The landscape contractor shall make the Contract Administrator (CA) aware of any notifiable weeds on site.

Tree Planting
All plant material to be in accordance with BS8945:2014. Any stock planted outside the recognised planting season to be containerised. Containerised plant stock will have a fully developed root system within the specified pot size. Where growing-on in the nursery is necessary all plant material is to be re-potted to the next approved pot size, re-spaced to allow for 15-20% growth per growing season, and maintained to healthy vigorous growth irrespective of weather conditions.

Root barriers to be installed as necessary in line with manufacturer's and engineer's recommendations.

Trees to be planted into prepared tree pits, backfilled with topsoil/soil ameliorants as specified. During the preparation of the tree pit, the soil is disturbed, but the base of the tree pit should remain undisturbed unless there are specific problems such as poor drainage, soil smearing or pans resulting from pit construction which require rectification. At the time of planting, the tree pit diameter is to be 500mm greater than the root ball, wide enough to accommodate roots when fully spread. The natural thickening between the trunk and the root collar (the root flare) shall be at the finished top surface of the planting medium and should not be buried by excess soil or mulch.

Trees shall have a 1000mm diameter circle around the base of the trunk to be maintained free from grass and spread with 75mm medium grade mulch (5-75mm particle size and of British origin, FSC certified). Mulch is not to be placed against the stem of the tree. All trees are to be watered-in when planted with a minimum 5L, and then when required within the Maintenance Period to ensure survival.

Bareroot trees up to 12-14cm girth are to be single stalked - stakes well driven into the ground minimum 300mm into bottom of tree pit, outside of the root ball. Stakes to be pressure treated, round (75cm diameter) peeled, smooth larch or similar. Trees to be secured with plastic/rubber proprietary tree tie, nailed to the stake. All rootballed trees and bareroot trees 14-16cm girth or larger shall be double stalked. 2no.100mm diameter stakes required. All stakes to be pointed at one end, extending above ground by 1/3 of the height of the ground to the 1st branch.

Shrub / Hedge Planting / Climber Planting
All plant material to be in accordance with BS 3936 Part 1 (1992), 'Nursery Stock Specification for Trees and Shrubs', BS3936 Part 10: 1990 'Nursery Stock Specification for Ground-cover Plants', and 'Handling and Establishing Landscape Plants' HTA 1985, revised edition March 2002. Any stock planted outside the recognised planting season to be containerised. Containerised plant stock to have fully developed root system within the specified pot size. Where growing-on in the nursery is necessary all plant material is to be re-potted to the next approved pot size, re-spaced to allow for 15-20% growth per growing season, and maintained to healthy vigorous growth irrespective of weather conditions. All planting areas to be weed free prior to planting. Allow for an application of an approved translocated systemic herbicide in line with 1997 Control of Pesticide Regulations and 2003 COSHH. All beds to be thoroughly forked over or rotovated to a minimum depth of 400mm, ensuring that the subgrade and topsoil are both free draining. All planting beds are to be 90mm below adjacent grass/hard surfaces.

Shrubs to be planted in groups of single species in groups of 3, 5 and 7, with larger species placed at the back of the planting bed, and smaller species to the front. Shrubs to be planted in pits 150mm wider and deeper than their root spread and backfilled with a mixture of topsoil/soil ameliorants as specified earlier. Climbers are to be planted a minimum 300mm from the base of a wall and trained back to support wires along 2no. canes approx 600mm long, firmly lodged in ground either side of plant. Plants to be a minimum of 300mm from any adjacent hard surface. All stock to be well watered when planted with 20L of water per m2. Following planting and watering operations, all beds are to be mulched with 75mm of mulch (5-75mm particle size, British origin, FSC certified).

Bareroot native species hedgerow planting to be planted in a double staggered row (DSR), protected by rabbit proof guards with the base pushed flush to ground level, and held in place with a cane. Ornamental hedgerow planting to be planted in a single row.

Climbing Plants
Taut horizontal or vertical wires to be fixed to proposed buildings where indicated, held by vine eyes. Wires to protrude approx 5cm from the wall surface. Space the wires 30-45cm apart, with the lowest wire 30cm above soil level. Plant climbers 45cm from the wall, at 1m centres as shown. Angle all plants towards the base of the wires and as appropriate. Use small canes as necessary to bridge the gap.

Grassland / Turf
Where the ground has become disturbed through construction operations, the specified grassland mix will be used. A minimum of 100mm depth topsoil for grassed areas is to be prepared to a fine fluff, all stones over 50mm removed, and firmed to achieve a level surface. Soil levels to be 10mm below or flush with adjacent surfaces. Seed mixes to be sown at manufacturers specification. Water all grass areas to maintain healthy growth. Turf to conform to BS3969 1988 Recommendations for Turf for General Purpose from an approved source. Turf to be a high quality, purpose grown turf. An establishment cut of all grassland areas should be undertaken when the grass is 50mm high. Remove any debris, litter and stones and cut the grass to between 25-30mm. Remove all arising. Where existing grassland is undisturbed, the existing grassland will be retained and brought into the relevant maintenance regime.

Bulb Planting
All plant material to be in accordance with 'Handling and Establishing Landscape Plants' HTA 1985, revised edition March 2002. All bulbs to be planted at 3 times their depth and at 300mm centres.

Maintenance
Regular visits shall be made for the specified Maintenance Period following practical completion, to maintain all planted areas in a weed and litter free condition. In general, a minimum number of visits to be tree and shrub areas min. 8 visits per annum, amenity grassland min. 15 visits per annum, meadow grassland min. 2 visits per annum.

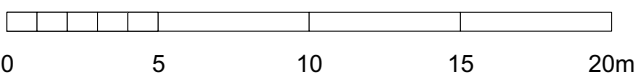
Amenity grassland is to be cut to achieve a neat and tidy appearance, with a mowing height of 25-30mm. All arising to be removed from site. Mowing is to be suspended if drought or very wet weather occurs.

Maintenance visits to include watering, pruning, pest/disease control, litter removal, checking tree stakes/ties and re-mulching as required. All planting beds to be maintained with mulch (5-75mm particle size, British origin & FSC certified), to a depth of 75mm. All mulch to be pest, disease and weed free and shall not have been treated with any additives. Mulch to be spread carefully so as not to cover shoots and foliage, and to finish 15mm below adjacent surfaces.



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KEY

- Site Boundary
- Visibility Splays
- EXISTING LANDSCAPE FRAMEWORK
 - Existing Trees Retained & Protected (Subject to Arboricultural Assessment)
 - Existing Hedgerows Retained & Protected (Subject to Arboricultural Assessment)
 - Existing Trees to be Removed (Subject to Arboricultural Assessment)
 - Existing TPO Trees (See Arboricultural Assessment for details)

PROPOSED PLANTING CHARACTER AREAS

- Drove Park Ornamental Planting Mixes
 - Main Street
 - Secondary Street
 - Lanes
- Lovesly Field Ornamental Planting Mixes
 - Secondary Street
 - Lanes
- Bilsham Street Ornamental Planting Mixes
 - Main Street
 - Lanes
- Proposed Tree Planting
- Native Shrub Mix
- Native Mixed Hedgerow
- Single Species Ornamental Hedgerow
- Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)
- Ornamental Structural Shrub Mix (Open Space)
- Play Area Shrub Mix
- Turf
- Rolavn Medallion Turf (or similar approved)
- Amenity Grassland
- Emergate EL1 - Flowering Lawn Mixture (or similar approved)
- Meadow Grassland
- Emergate EM3 - Special General Purpose Meadow Mixture (or similar approved)
- Wet Meadow Grassland
- Emergate EM8 - Meadow Mixture for Wetlands (or similar approved)
- Bulb Planting
- PROPOSED HARD LANDSCAPE MATERIALS (See Drawing 7905-L-011 for Details)
 - Macadam Footpaths through Open Space
 - Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1
- Timber Benches
- Curved Benches
- Welcome Sign
- Information Boards
- Litter Bins
- Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

G	23/09/2021	Minor amendment to native hedgerow species mix	JES/LP
F	26/08/2021	Removal of hedgerow from vis splay at plot 134-137	JES/JFP
E	12/08/2021	Amended as per revised layout and drainage proposals	JES/JFP

rev	date	description	dm / chkd
1			

masterplanning

environmental assessment

landscape design

urban design

ecology

architecture

arboriculture

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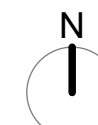
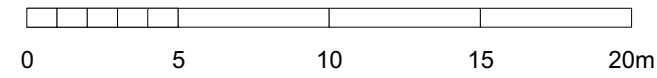
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- Existing TPO Trees (See Arboricultural Assessment for details)

PROPOSED PLANTING CHARACTER AREAS

Drove Park Ornamental Planting Mixes

- Main Street
- Secondary Street
- Lanes

Lovelys Field Ornamental Planting Mixes

- Secondary Street
- Lanes

Bilsham Street Ornamental Planting Mixes

- Main Street
- Lanes

Proposed Tree Planting

Native Shrub Mix

Native Mixed Hedgerow

Single Species Ornamental Hedgerow

- Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)

Ornamental Structural Shrub Mix (Open Space)

Play Area Shrub Mix

Turf

Rolawn Medallion Turf (or similar approved)

Amenity Grassland

Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)

Wet Meadow Grassland

Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)

Bulb Planting

PROPOSED HARD LANDSCAPE MATERIALS

(See Drawing 7905-L-011 for Details)

Macadam Footpaths through Open Space

Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1

Timber Benches

Curved Benches

Welcome Sign

Information Boards

Litter Bins

Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

rev | date | description | drn / chkd

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F 26/08/2021 Removal of hedgerow from vis splay at plot 134-137 JES/UPF

E 12/08/2021 Amended as per revised layout and drainage proposals JES/UPF

rev | date | description | drn / chkd

masterplanning environmental assessment landscape design urban design ecology architecture arboriculture

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client Hyde Housing

project Land at Bilsham Road, Yapton, West Sussex

drawing title Landscape Proposals - Sheet 2

scale 1:250 @ A1

drawn / checked JES / LP

revision date 23 September 2021

drawing number

7905-L-102

G

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Rights Hyde have over Arun District Council across garage site from Tack lee Road to access gate.

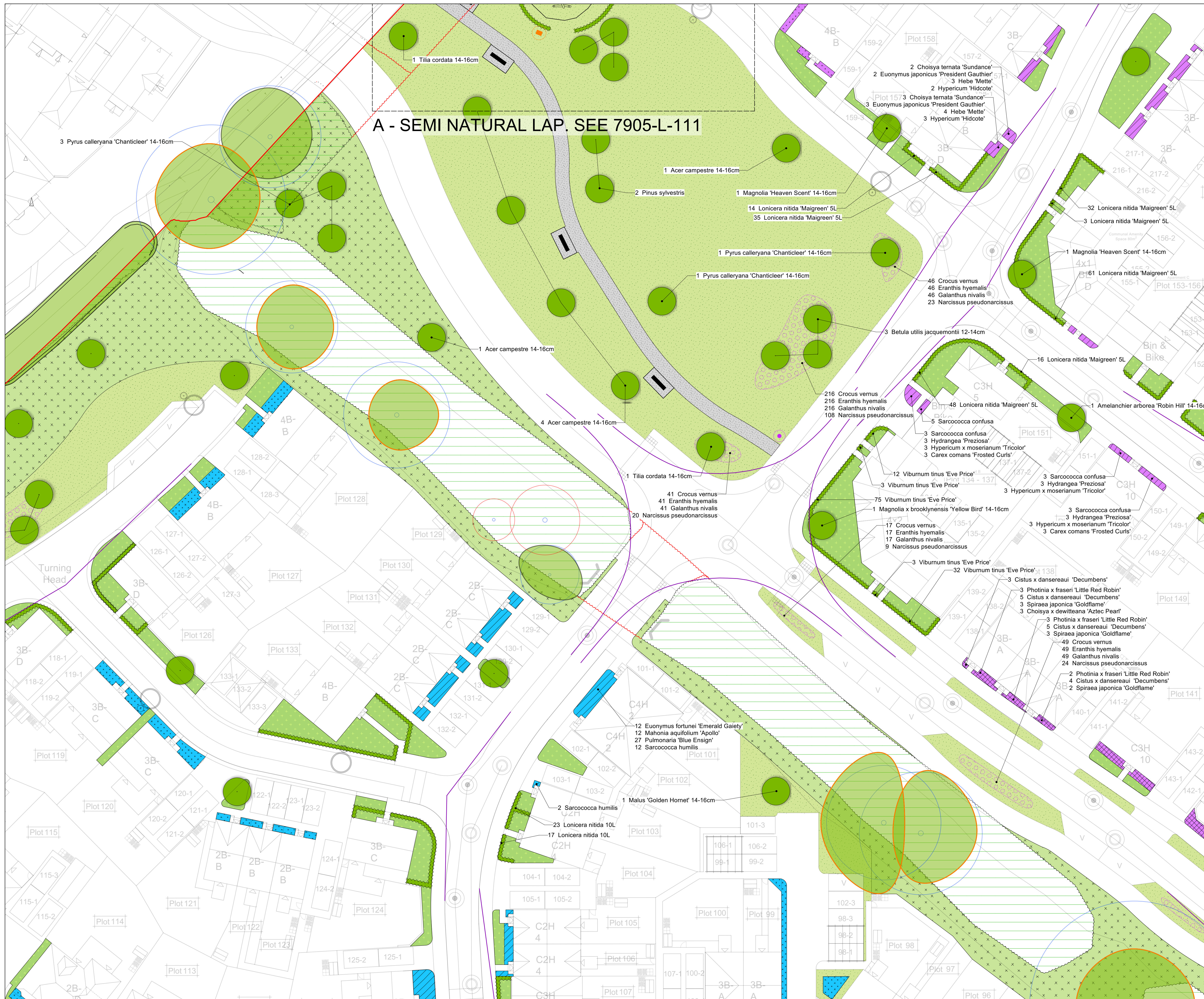
Rights Arun District Council have across Hyde land for rear access alley

MACADAM SURFACING TO REAR ACCESS TRACK 1.2M WIDE

Garag es

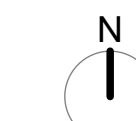
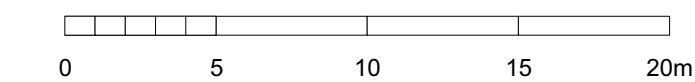
Access gate A

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KE

- Site Boundary
- Visibility Splay

EXISTING LANDSCAPE FRAMEWORK

- | | |
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PROPOSED PLANTING CHARACTER AREAS

- | | |
|---|---|
| Drove Park Ornamental Planting Mixes | |
|  | Main Street |
|  | Secondary Street |
|  | Lanes |
| Loveys Field Ornamental Planting Mixes | |
|  | Secondary Street |
|  | Lanes |
| Bilsham Street Ornamental Planting Mixes | |
|  | Main Street |
|  | Lanes |
|  | Proposed Tree Planting |
|  | Native Shrub Mix |
|  | Native Mixed Hedgerow |
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(Wires 30-45cm apart with lowest wire 30cm above soil level) |
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|  | Bulb Planting |

PROPOSED HARD LANDSCAPE MATERIALS

PROPOSED HARD LANDSCAPE MATERIALS
(See Drawing 7905-L-011 for Details)

- | | |
|---|--|
|  | Macadam Footpaths through Open Space |
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To be seeded with <i>Amenity Grassland</i> seed mix EL 1 |
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rev	date	description	dwn / chkd

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environmental assessment ■
landscape design ■
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client
Hyde Housing

project
Land at Bilsham Road,
Yapton, West Sussex

drawing title
Landscape Proposals - Sheet 3

scale
1:250 @ A1

drawn / checked
JES / LP

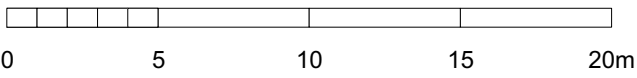
revision date
23 September 2021

drawing number **7905-L-103** rev **G**

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 - Ornamental Structural Shrub Mix (Open Space)
 - Play Area Shrub Mix
 - Turf
 - Rolawn Medallion Turf (or similar approved)
 - Amenity Grassland
 - Emorsgate EL1 - Flowering Lawn Mixture (or similar approved)
 - Meadow Grassland
 - Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)
 - Wet Meadow Grassland
 - Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)
 - Bulb Planting
- PROPOSED HARD LANDSCAPE MATERIALS**
(See Drawing 7905-L-011 for Details)
- Macadam Footpaths through Open Space
 - Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1
 - Timber Benches
 - Curved Benches
 - Welcome Sign
 - Information Boards
 - Litter Bins
 - Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

G	23/09/2021	Minor amendment to native hedgerow species mix	JES/LP
F	26/08/2021	Removal of hedgerow from vis splay at plot 134-137	JES/UPF
E	12/08/2021	Amended as per revised layout and drainage proposals	JES/UPF
rev	date	description	dwn / chkd



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client
Hyde Housing

project
**Land at Bilsham Road,
Yapton, West Sussex**

drawing title
Landscape Proposals - Sheet 4

scale
1:250 @ A1

drawn / checked
JES / LP

revision date
23 September 2021

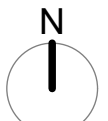
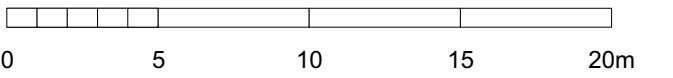
drawing number
7905-L-104

revision
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KEY

- Site Boundary
- Visibility Splays

EXISTING LANDSCAPE FRAMEWORK

- Existing Trees Retained & Protected (Subject to Arboricultural Assessment)
- Existing Hedgerows Retained & Protected (Subject to Arboricultural Assessment)
- Existing Trees to be Removed (Subject to Arboricultural Assessment)
- Existing TPO Trees (See Arboricultural Assessment for details)

PROPOSED PLANTING CHARACTER AREAS

Drove Park Ornamental Planting Mixes

- Main Street
- Secondary Street
- Lanes

Lovesys Field Ornamental Planting Mixes

- Secondary Street
- Lanes

Bilsham Street Ornamental Planting Mixes

- Main Street
- Lanes

Proposed Tree Planting

- Native Shrub Mix
- Native Mixed Hedgerow
- Single Species Ornamental Hedgerow

Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)

Ornamental Structural Shrub Mix (Open Space)

Play Area Shrub Mix

Turf

Amenity Grassland

Emorsgate EL1 - Flowering Lawn Mixture (or similar approved)

Meadow Grassland

Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)

Wet Meadow Grassland

Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)

Bulb Planting

PROPOSED HARD LANDSCAPE MATERIALS

(See Drawing 7905-L-011 for Details)

Macadam Footpaths through Open Space

Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1

Timber Benches

Curved Benches

Welcome Sign

Information Boards

Litter Bins

Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

rev | date | description | drn / chkd

G 23/09/2021 Minor amendment to native hedgerow species mix JES/LP

F 26/08/2021 Removal of hedgerow from vis splay at plot 134-137 JES/UPF

E 12/08/2021 Amended as per revised layout and drainage proposals JES/UPF

rev | date | description | drn / chkd

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client

Hyde Housing

project

Land at Bilsham Road,

Yapton, West Sussex

drawing title

Landscape Proposals - Sheet 5

scale

1:250 @ A1

drawn / checked

JES / LP

revision date

23 September 2021

drawing number

7905-L-105

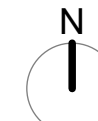
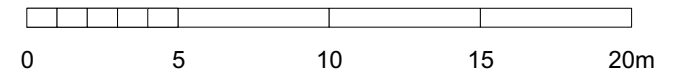
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- Existing TPO Trees (See Arboricultural Assessment for details)

PROPOSED PLANTING CHARACTER AREAS

- Drove Park Ornamental Planting Mixes
 - Main Street
 - Secondary Street
 - Lanes
- Lovesley Field Ornamental Planting Mixes
 - Secondary Street
 - Lanes
- Bilsham Street Ornamental Planting Mixes
 - Main Street
 - Lanes
- Proposed Tree Planting
- Native Shrub Mix
- Native Mixed Hedgerow
- Single Species Ornamental Hedgerow
- Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)
- Ornamental Structural Shrub Mix (Open Space)
- Play Area Shrub Mix
- Turf
 - Rollawn Medallion Turf (or similar approved)
- Amenity Grassland
 - Emorsgate EL1 - Flowering Lawn Mixture (or similar approved)
- Meadow Grassland
 - Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)
- Wet Meadow Grassland
 - Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)
- Bulb Planting
- PROPOSED HARD LANDSCAPE MATERIALS (See Drawing 7905-L-011 for Details)
 - Macadam Footpaths through Open Space
 - Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1
 - Timber Benches
 - Curved Benches
 - Welcome Sign
 - Information Boards
 - Litter Bins
 - Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

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F	26/08/2021	Removal of hedgerow from vis splay at plot 134-137	JES/UPF
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rev	date	description	dwn / chkd

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client
Hyde Housing

project
Land at Bilsham Road,
Yapton, West Sussex

drawing title
Landscape Proposals - Sheet 6

scale
1:250 @ A1

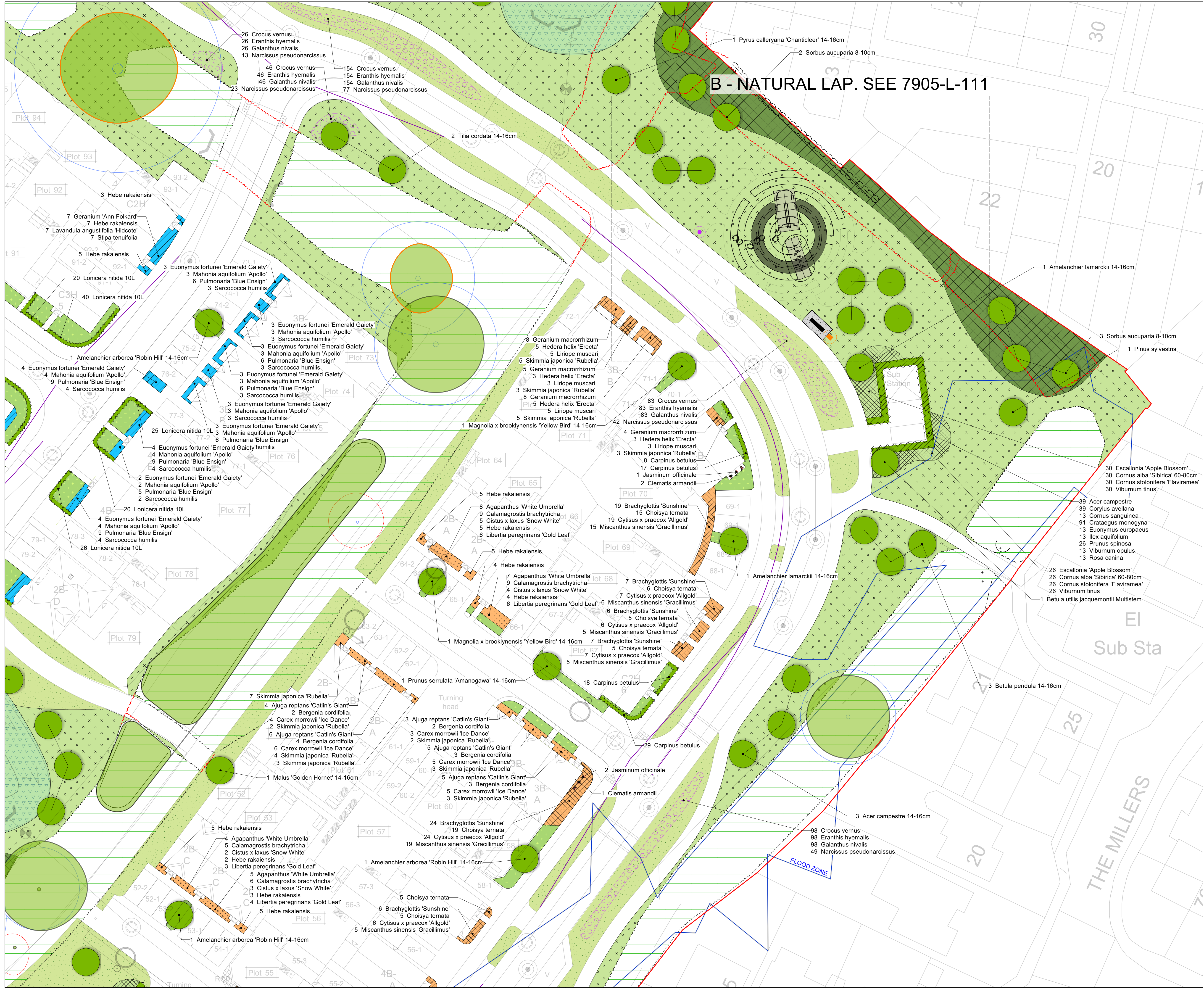
drawn / checked
JES / LP

revision date
23 September 2021

drawing number
7905-L-106

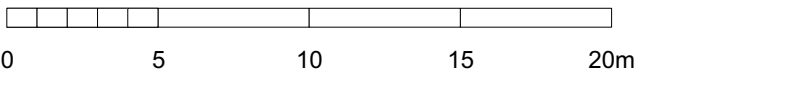
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 - Existing TPO Trees (See Arboricultural Assessment for details)
- PROPOSED PLANTING CHARACTER AREAS**
- Drove Park Ornamental Planting Mixes
- Main Street
 - Secondary Street
 - Lanes
- Lovesey Field Ornamental Planting Mixes
- Secondary Street
 - Lanes
- Bilsham Street Ornamental Planting Mixes
- Main Street
 - Lanes
- Proposed Tree Planting
- Native Shrub Mix
- Native Mixed Hedgerow
- Single Species Ornamental Hedgerow
- Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)
- Ornamental Structural Shrub Mix (Open Space)
- Play Area Shrub Mix
- Turf
- Rollway Medallion Turf (or similar approved)
- Amenity Grassland
- Emorsgate EL1 - Flowering Lawn Mixture (or similar approved)
- Meadow Grassland
- Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)
- Wet Meadow Grassland
- Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)
- Bulb Planting
- PROPOSED HARD LANDSCAPE MATERIALS**
(See Drawing 7905-L-011 for Details)
- Macadam Footpaths through Open Space
 - Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1
 - Timber Benches
 - Curved Benches
 - Welcome Sign
 - Information Boards
 - Litter Bins
 - Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

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rev	date	description	dwn / chkd

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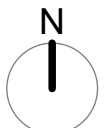
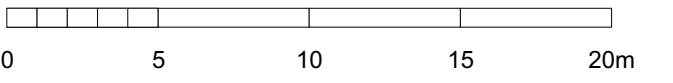
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**Land at Bilsham Road,
Yapton, West Sussex**

drawing title
Landscape Proposals - Sheet 7

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KEY

- Site Boundary
- Visibility Splays

EXISTING LANDSCAPE FRAMEWORK

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- Existing Hedgerows Retained & Protected (Subject to Arboricultural Assessment)
- Existing Trees to be Removed (Subject to Arboricultural Assessment)
- Existing TPO Trees (See Arboricultural Assessment for details)

PROPOSED PLANTING CHARACTER AREAS

Drove Park Ornamental Planting Mixes

- Main Street
- Secondary Street
- Lanes

Loveys Field Ornamental Planting Mixes

- Secondary Street
- Lanes

Bilsham Street Ornamental Planting Mixes

- Main Street
- Lanes

Proposed Tree Planting

Native Shrub Mix

Native Mixed Hedgerow

Single Species Ornamental Hedgerow

- Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)

Ornamental Structural Shrub Mix (Open Space)

Play Area Shrub Mix

Turf

Amenity Grassland

Meadow Grassland

Wet Meadow Grassland

Bulb Planting

PROPOSED HARD LANDSCAPE MATERIALS

(See Drawing 7905-L-011 for Details)

Macadam Footpaths through Open Space

Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1

Timber Benches

Curved Benches

Welcome Sign

Information Boards

Litter Bins

Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

rev | date | description | drn / chkd

G 23/09/2021 Minor amendment to native hedgerow species mix JES/LP

F 26/08/2021 Removal of hedgerow from vis splay at plot 134-137 JES/UPF

E 12/08/2021 Amended as per revised layout and drainage proposals JES/UPF

client

Hyde Housing

project

Land at Bilsham Road, Yapton, West Sussex

drawing title

Landscape Proposals - Sheet 8

scale

1:250 @ A1

drawing number

7905-L-108

drawn / checked

JES / LP

revision date

23 September 2021

client

Hyde Housing

project

Land at Bilsham Road, Yapton, West Sussex

drawing title

Landscape Proposals - Sheet 8

scale

1:250 @ A1

drawing number

7905-L-108

drawn / checked

JES / LP

revision date

23 September 2021

client

Hyde Housing

project

Land at Bilsham Road, Yapton, West Sussex

drawing title

Landscape Proposals - Sheet 8

scale

1:250 @ A1

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7905-L-108

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revision date

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project

Land at Bilsham Road, Yapton, West Sussex

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Landscape Proposals - Sheet 8

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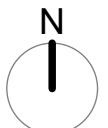
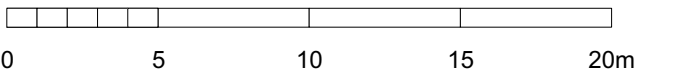
Land at Bilsham Road, Yapton, West Sussex

drawing title

Landscape Proposals - Sheet 8

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KEY

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PROPOSED PLANTING CHARACTER AREAS

Drove Park Ornamental Planting Mixes

- Main Street
- Secondary Street
- Lanes

Loveys Field Ornamental Planting Mixes

- Secondary Street
- Lanes

Bilsham Street Ornamental Planting Mixes

- Main Street
- Lanes

Proposed Tree Planting

Native Shrub Mix

Native Mixed Hedgerow

Single Species Ornamental Hedgerow

Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)

Ornamental Structural Shrub Mix (Open Space)

Play Area Shrub Mix

Turf

Amenity Grassland

Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)

Wet Meadow Grassland

Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)

Bulb Planting

PROPOSED HARD LANDSCAPE MATERIALS

(See Drawing 7905-L-011 for Details)

Macadam Footpaths through Open Space

Grasscrete or similar to parking bays as shown. To be seeded with Amenity Grassland seed mix EL1.

Timber Benches

Curved Benches

Welcome Sign

Information Boards

Litter Bins

Post and wire fencing with timber gate to secure SUDS basin. Details of fence line specification to be agreed with LPA according to requirements

rev / date / description / drn / chkd

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rev / date / description / drn / chkd

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Land at Bilsham Road,

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drawing title

Landscape Proposals - Sheet 9

scale

1:250 @ A1

drawing number

7905-L-109

drawn / checked

JES / LP

revision date

23 September 2021

rev

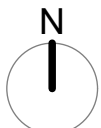
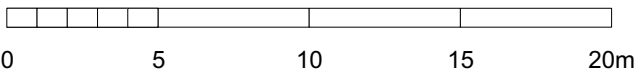
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- PROPOSED PLANTING CHARACTER AREAS**
- Drove Park Ornamental Planting Mixes**
- Main Street
 - Secondary Street
 - Lanes
- Loveys Field Ornamental Planting Mixes**
- Secondary Street
 - Lanes
- Bilsham Street Ornamental Planting Mixes**
- Main Street
 - Lanes
- Proposed Tree Planting**
- Native Shrub Mix
 - Native Mixed Hedgerow
 - Single Species Ornamental Hedgerow
 - Climbing Plants trained up building walls with Taut Horizontal or Vertical Wires held by Vine Eyes. (Wires 30-45cm apart with lowest wire 30cm above soil level)
 - Ornamental Structural Shrub Mix (Open Space)
 - Play Area Shrub Mix
 - Turf
 - Rolawn Medallion Turf (or similar approved)
 - Amenity Grassland
 - Emorsgate EL1 - Flowering Lawn Mixture (or similar approved)
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- PROPOSED HARD LANDSCAPE MATERIALS**
(See Drawing 7905-L-011 for Details)
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project
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drawing title
Landscape Proposals - Sheet 10

scale
1:250 @ A1

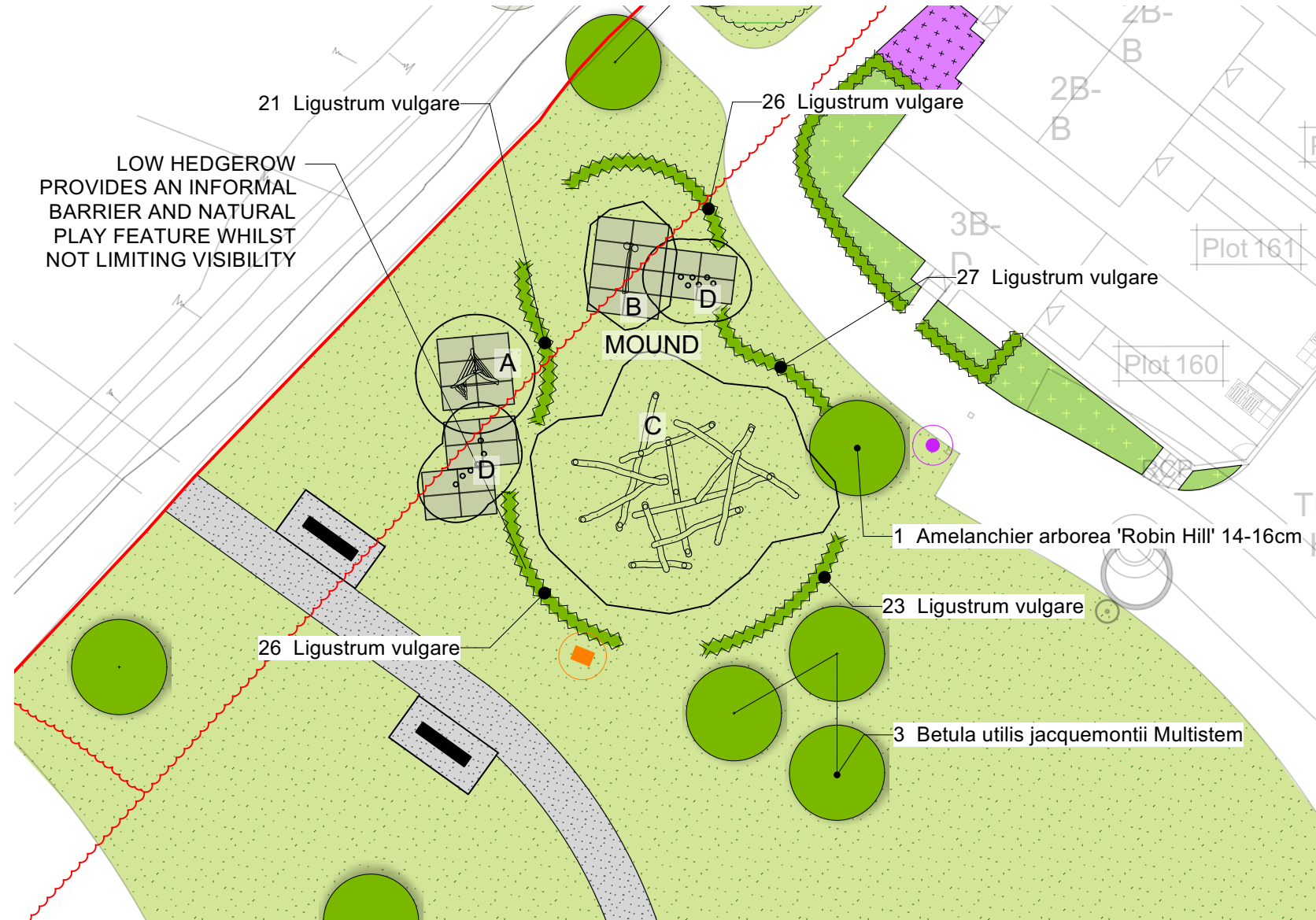
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JES / LP

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23 September 2021

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7905-L-110

revision
G

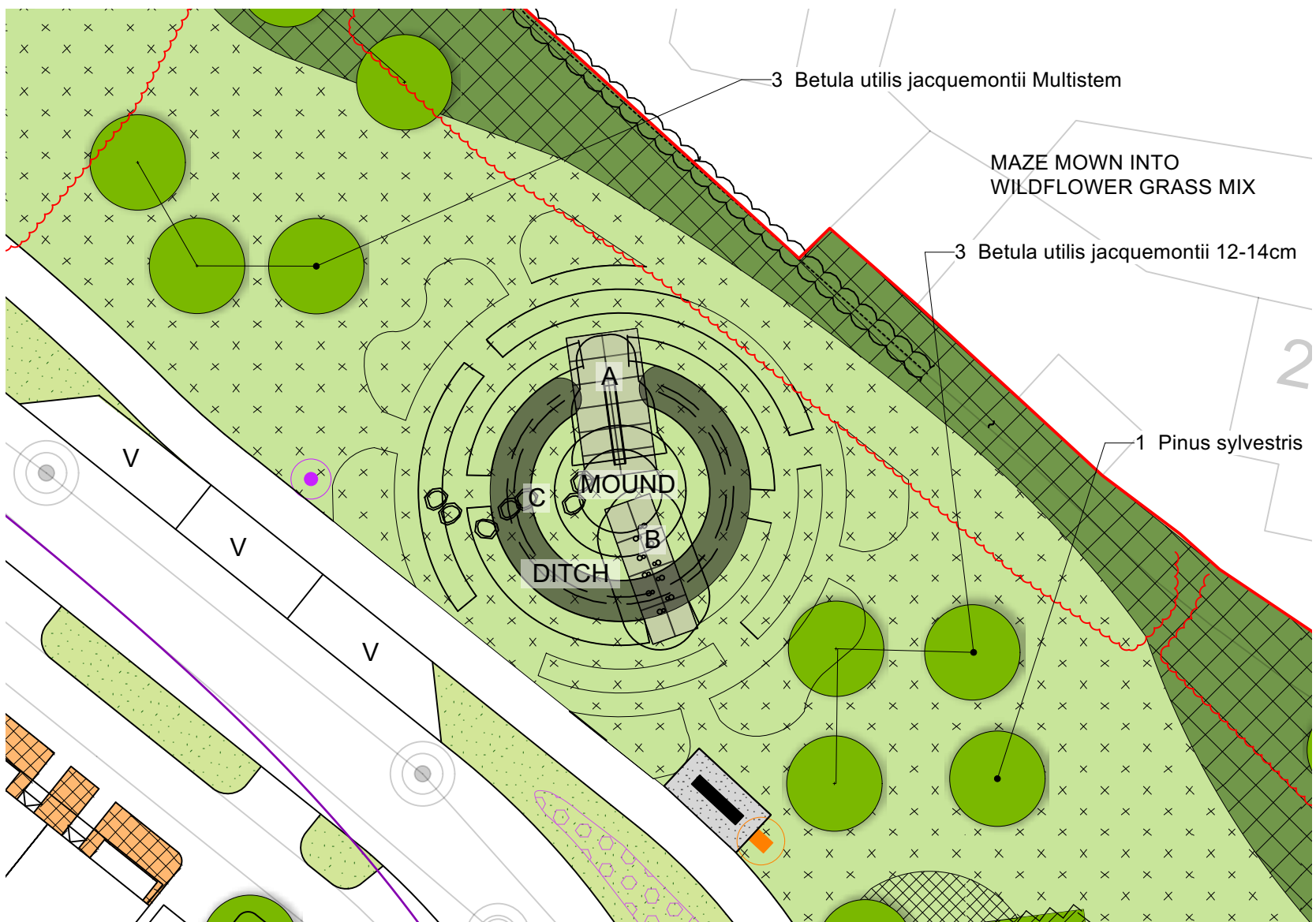
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A SEMI-NATURAL LAP
Scale: 1:250

Minimum activity zone 100m².
KEY
A - Teepee Play House
B - Climbing Tree
C - Fallen Logs
D - Stepping Logs

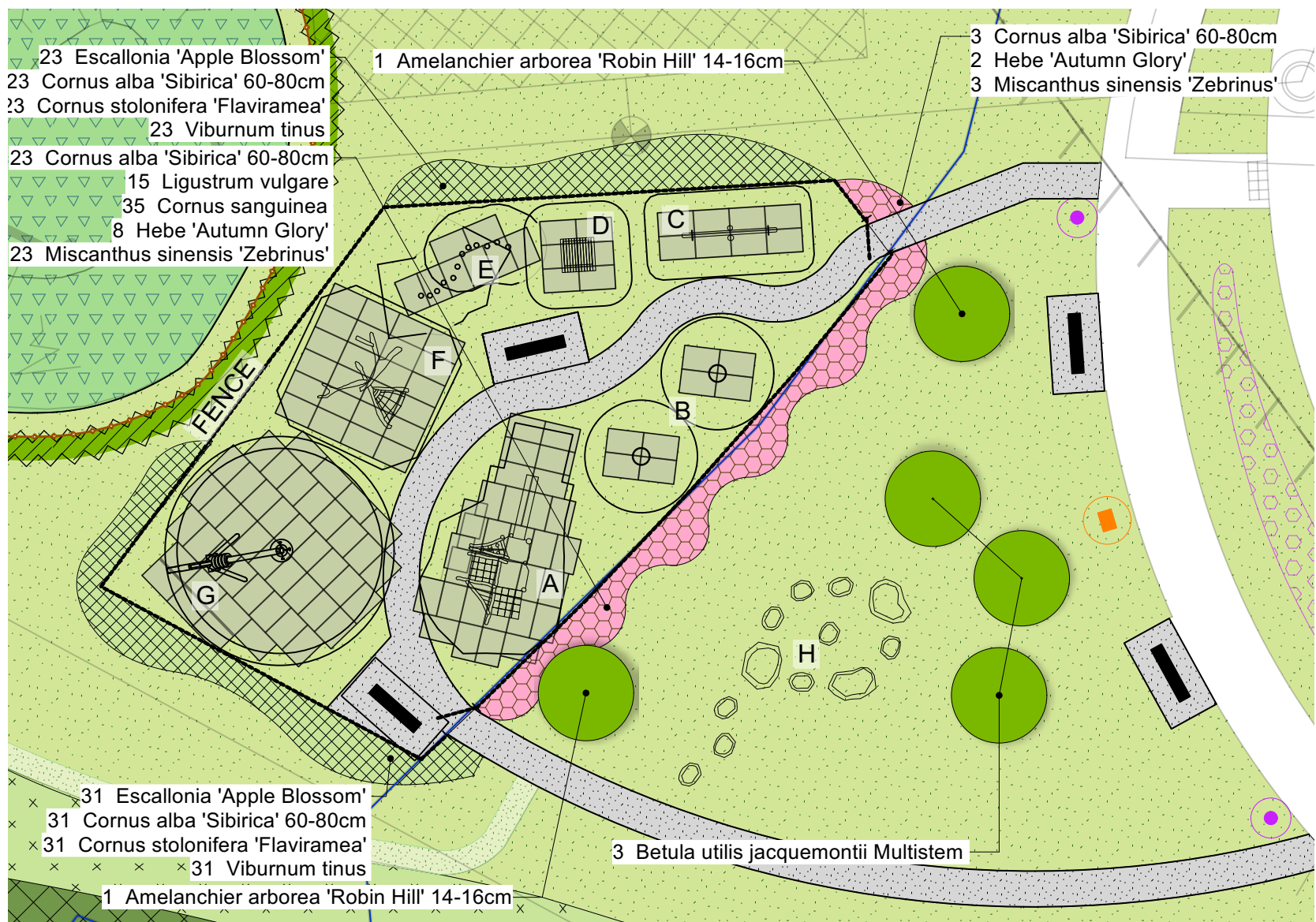
SEMI NATURAL LAP DESIGN RATIONALE - a broken hedgerow creates an informal boundary to the space, with tree planting softening views from the surrounding properties. This play provision is focused on imaginative play and providing children with a structure which they can build upon. Climbing, balancing, group play and engagement with the environment are primary features of the area.
This is intended to be the smaller of two play spaces within Drove Park - the neighbouring larger play space would be located to the west and complement the intention for this area.



B NATURAL LAP
Scale: 1:250

Minimum activity zone 100m².
KEY
A - Slope slide
B - Stepping posts
C - Climbing boulders

NATURAL LAP DESIGN RATIONALE - mound, ditch and mown maze through long grasses are the primary features of the area. Only two formal play features are included with children encouraged to experience the space in a non prescriptive manner and engage with nature and the surrounding landscape. Sliding, climbing, balancing crawling, imagination and group play are all included or encouraged.



C LEAP
Scale: 1:250

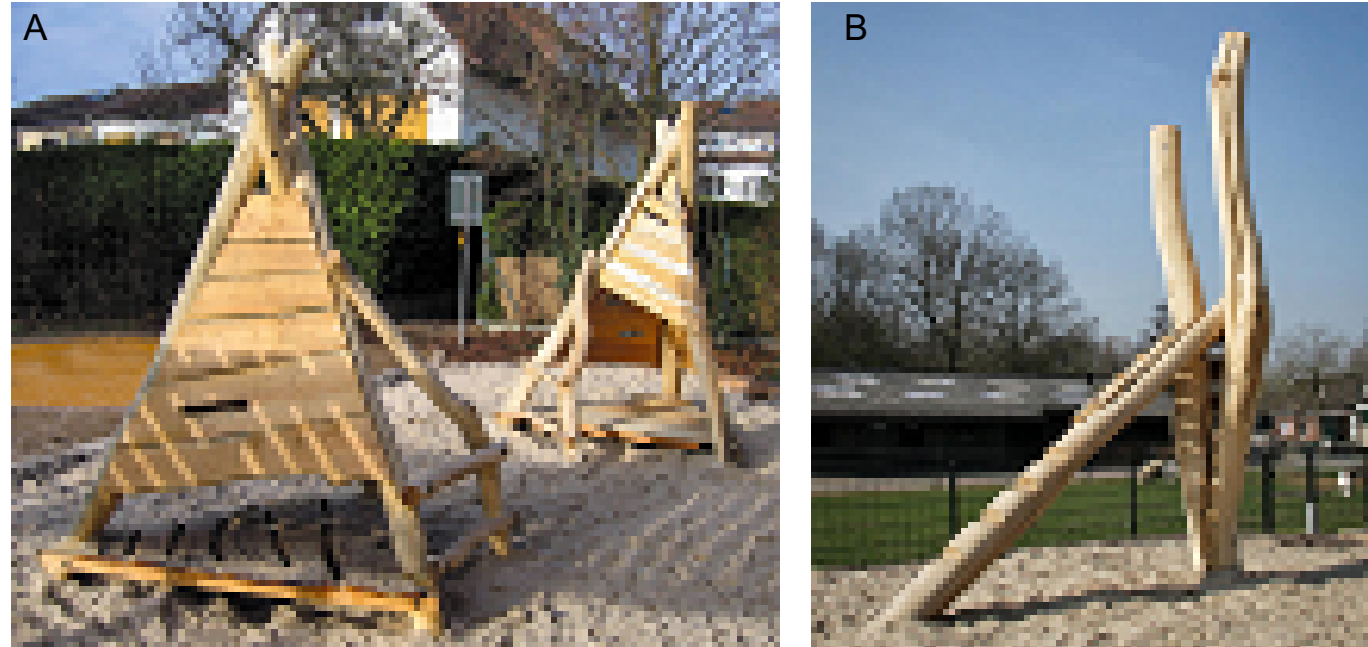
Minimum activity zone 400m².
KEY
A - Timber Multi Play Unit with Slide
B - Group Spinning Bowls
C - 4 Person Seesaw
D - Play House
E - Stepping Logs
F - Timber Climber and Net
G - Pendulum Swing
H - Stone Play Boulders

LEAP DESIGN RATIONALE - this space is the most traditional of the play provision in the site however natural materials and a considered planting palette will create an area that ties into the surrounding environment and provides a play experience that's rich and engaging for children.

The equipment has an organic character and provides: spinning, swinging, balancing, climbing, sliding, bouncing, imaginative and group play for children aged between 3 and 8. There is flexibility of user numbers and units are accessible for different abilities. The grass mat surfacing ensures that all units are accessible and conform to safety standards. The play area is fenced due to its location close to an attenuation pond, shrub and hedgerow planting is proposed to soften the character of the space.

A group of stone boulders on the grass lawn outside of the gated play area offers additional opportunities for informal play. To comprise CED Stone Play Boulders (or similar approved), slip resistant, smoothed of sharp edges. Sizes to vary between 1m and 2m width and a maximum of 1.2m height.

INDICATIVE IMAGES FOR SEMI-NATURAL LAP



INDICATIVE FURNITURE / MATERIALS - Entrance Gateway

Welcome Sign - Fitzpatrick Woolmer Design & Publishing, A0 size Bowman™ C interpretation display (or similar).



Curved Benches - Furnitubes Zenith Horizon Curved Seating with External Backrest, ZNF RSV 248. 45° / 2.4m radius, 1890mm c/l, 540mm depth, 780mm height (or similar).



INDICATIVE IMAGES FOR NATURAL LAP



INDICATIVE FURNITURE / MATERIALS - Rest of Site

Timber Litter Bin - Broxap Winchester Canopied Litter Bin. 90l, 900mm height, 560mm diameter (or similar).



Information Boards - Fitzpatrick Woolmer Design & Publishing, A1 Size Woodman™ Timber Lectern (or similar).

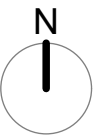
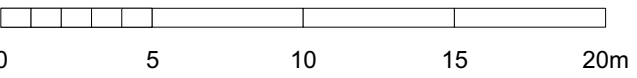


Timber Benches - Broxap Kedleston Seat, BX17 4092. 1800mm length x 350mm width x 450mm height (or similar).



NOTES

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KEY

- Site Boundary
- Visibility Splays

EXISTING LANDSCAPE FRAMEWORK

- Existing Trees Retained & Protected (Subject to Arboricultural Assessment)
- Existing Hedgerows Retained & Protected (Subject to Arboricultural Assessment)
- Existing Trees to be Removed (Subject to Arboricultural Assessment)
- Existing TPO Trees (See Arboricultural Assessment for details)

PROPOSED PLANTING

- Proposed Tree Planting
- Native Shrub Mix
- Native Mixed Hedgerow
- Single Species Ornamental Hedgerow
- Ornamental Structural Shrub Mix (Open Space)
- Play Area Shrub Mix
- Turf
- Rollawn Medallion Turf (or similar approved)
- Amenity Grassland
- Emorsgate EL1 - Flowering Lawn Mixture (or similar approved)
- Meadow Grassland
- Emorsgate EM3 - Special General Purpose Meadow Mixture (or similar approved)
- Wet Meadow Grassland
- Emorsgate EM8 - Meadow Mixture for Wetlands (or similar approved)
- Bulb Planting

PROPOSED HARD LANDSCAPE MATERIALS

- Macadam Footpaths through Open Space
- Timber Benches
- Curved Benches
- Welcome Sign
- Information Boards
- Litter Bins
- Grass Mat Impact Attenuation - as required. 1500mm x 1000mm
- Galvanised metal fenceline, 1.2m high with 1 x self closing pedestrian access gate and 1 x double leaf maintenance access gate as shown. Details of fence line specification to be agreed with LPA according to requirements

To be read in conjunction with OSP Boundary Material Layout plan.

G	23/09/2021	Minor amendment to native hedgerow species mix	JES/LP
F	26/08/2021	Removal of hedgerow from vis splay at plot 134-137	JES/UPF
E	12/08/2021	Amended as per revised layout and drainage proposals	JES/UPF
rev	date	description	dwn / chkd

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masterplanning
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client
Hyde Housing

project
**Land at Bilsham Road,
Yapton, West Sussex**

drawing title
**Landscape Proposals - Sheet 11 - Play Spaces
& Materials**

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