PLANTING STRATEGY KEY:

PROPOSED SPECIMEN TREES
New specimen tree planting, 90% deciduous/ 10% evergreen. Mix of cultivars of native species supplied as; S/M 20-25cm girth, ANS 18-20cm girth and 16-18cm girth sizes.

All trees in soft areas planted in tree pits backfilled with topsoil, underground guys (S/M) or double timber stakes (ANS) with irrigation pipe. Root barrier to sides of pits as required.

Typical Mix of Species - Semi-Mature to Key Locations:
- Fagus sylvatica
- Pinus sylvestris
- Platanus x hispanica
- Prunus avium Plena
- Quercus robur

ANS 18-20cm to Public Open Space and Housing Avenues
- Acer campestre
- Carpinus betulus
- Crataegus spp
- Malus spp
- Prunus padus
- Tilia Greenspire

Ans 16-18cm to Housing and Care Home Rear Gardens:
- Amelanchier
- Betual small var'
- Apple orchard trees to Care Home
- Prunus spp small var'

HEDGES
Proposed clipped hedges with wildlife value and listed as NHS Plants for Pollinators.
Planting supplied in 5L pots, planted in rows into 450mm topsoil trench with the addition of compost soil ameliorants as required and mulch topping.
Hedge trimmed to shape and maintained to 1.2 or 1.8m high depending on location.
Typical Mix of Species:
- Acer campestre
- Carpinus betulus
- Ligustrum vulgare
- Prunus lusitanica
- Taxus baccata
- Viburnum tinus

PROPOSED NATIVE TREE AND SHRUB MIX
Woodland edge mix of locally occurring native trees and shrubs.
Mix comprising c.10% feathered and light standards trees with stakes and tree protection with 60-80cm transplanted stock.
Shrub planting supplied as transplants planted in protective shelters.

Mix planted at 1m centres with feathered and standards interplanted within mix as indicated. Mix to be planted in single species groupings of 7-15no.

Area to receive planting to be prepared with topsoil from site where possible and cultivated using a suitable peat-free recycled PAS100 as required.

Typical Mix of Species:
- Quercus robur
- Betula pendula
- Pinus sylvestris
- Fagus sylvatica
- Prunus avium
- Crataegus monogyna
- Prunus spinosa
- Sorbus aucuparia
- Ilex aquifolium
- Sambucus nigra
- Ulex europaeus
- Acer campestre
- Rosa arvensis
- Lonicera periclymenum
- Viburnum lantana
- Cornus sanguinea

PLANTING TO SWALES, ATTENUATION PONDS & STREAM EDGE
Proposed planting strategy to include species-rich grassland for seasonally wet/dry habitat, marginal and aquatic species.
Proposed planting to include wildflower / grass seeding as well as plug plants.
Wildflower and grass seed mix for occasionally damp areas eg Emorsgate EM8 Meadow Mixture for Wetlands sown at 40Kg/Ha. Mix contains 26 species of wildflowers and grasses.
Typical Mix of Plug Planted Marginal Species:
- Alisma plantago
- Caltha palustris
- Carex acuta
- Iris pseudacorus
- Juncus effusus
- Lythrum salicaria
- Mentha aquatica
- Myosotis scorpioides
- Phragmites australis
- Ranunculus flammula
- Typha minima
- Veronica beccabunga

SHRUB AND GROUNDCOVER PLANTING AREAS
Proposed ornamental shrubs, perennials and grasses with value for wildlife and listed as RHS Plants for Pollinators.

Mixed deciduous and evergreen planting supplied in 1-3L pots for groundcover and 10-15L pots as accents, planted into 450mm topsoil with the addition of compost soil ameliorants as required and mulch topping.

Typical Mix of Plants for Pollinators:
- Anemone × hybrida
- Berberis species
- Bergenia
- Buxus sempervirens
- Calluna vulgaris
- Ceanothus species
- Chaenomeles species
- Cornus alba
- Erica species
- Escallonia species
- Euphorbia species
- Fatsia japonica
- Geranium species
- Hebe species
- Hedera species
- Hydrangea paniculata
- Hydrangea petiolaris
- Ilex aquifolium
- Jasminum officinale
- Lamium maculatum
- Lavandula species
- Lonicera species
- Mahonia species
- Olearia species
- Parthenocissus tricuspidata
- Potentilla species
- Pyracantha species
- Rosa species
- Rosmarinus officinalis
- Rudbeckia species
- Salvia species
- Skimmia japonica
- Ornamental grasses

MANAGED WILDFLOWER GRASSLAND - MEADOW
Existing areas managed as summer-flowering meadow with localised enhancement with overseeding in places. New areas to be seeded with a mix of native grass and wildflowers sown into prepared nutrient-poor soils.
Emorsgate EM2 Mix - Standard General Purpose Meadow Mixture sown at 4g/m2.
Mix contains 17 species of native wildflowers and grasses.

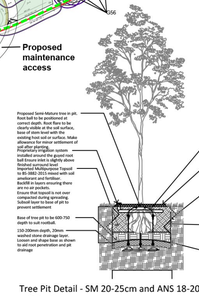
AMENITY GRASSLAND AREAS
Low maintenance mixture tolerating dry conditions suitable for sowing into for use as occasional parking.
Germinal Amenity A16 - Reclamation / Country Parks.
Seed mix sown at 40g/m2. Mix contains 6 species of grass.

AMENITY GRASSLAND - Turfgrass
Hard wearing ryegrass and fescue premium turfgrass to private rear gardens and as indicated, laid over 150mm prepared topsoil.
Rowlawn - Medallion Turf, or similar approved.

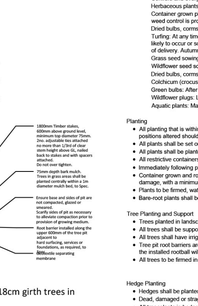
GREEN ROOFS TO APARTMENT BUILDINGS
Extensive biodiverse sedum and herbaceous green roof mix suitable for very low maintenance roofs.
Proprietary plant mix chosen to suit system specified for roof buildups supplied by British Flora Ltd, or similar approved.

EXISTING GRASS / UNDERSTOREY AREAS TO BE RETAINED
Existing grassland / understorey areas to be retained and managed as part of the site-wide landscape strategy.

Ex. bus stop
Proposed footpath / cycle route
Existing signalled crossing
Pedestrian Entrance / Arrival
Holiday Inn Express
Marshall Drive
Botley Road (B3035)
James Mills (Wholesaler)
Properties south of Botley Rd
New access from Botley Road
Proposed Car Park
Existing Car Park
David Lloyd Tennis Centre
Fanzone
Proposed Hotel
Pool
Lake
Section of diverted PRoW Route 241:509
Existing PRoW Route 241:509
Hilton Hotel
Proposed Wellbeing Centre
Open Watercourse
Basin
West Gate
New Roundabout Junction
Ageas Bowl
Enhanced Fanzone Area
New Pavilion
Ex. PRoW Rout 241:509
Boundary Lakes Golf Course
Possible future vehicular link
Westgate Mews
Royal Heights
Possible future footpath / cycle link
footpath to Telegraph
Play Area
20m offset from Telegraph Woods
Telegraph Woods
East Gate
Practice Pitch
Proposed footpath / cycle route
Proposed maintenance access
Proposed Care Home
Existing Wellbeing Centre and Pavilion
Terraced Gardens
Service Area and Bin Store
Ex. PRoW Route 241:509



Tree Pit Detail - SM 20-25cm and ANS 18-20cm girth trees in soft landscape areas
Not to scale
Refer to Planting Strategy and Landscape Specification notes for further details



Tree Pit Detail - EHS 14-16cm & ANS 16-18cm girth trees in soft landscape areas
Not to scale
Refer to Planting Strategy and Landscape Specification notes for further details

Notes
This information, whether drawn or as a data file, is copyright and issued strictly for use on the project for which it is provided
The Contractor is to check all dimensions and conditions on site before commencing. Do not scale from this drawing.

Scale Bars — TO BE USED ONLY AS GUIDANCE

1:100	mm	1000	3000	5000		
1:200	mm	2000	4000	6000		
1:500	M	0	10	20		
1:1250	M	10	30	50	70	

LANDSCAPE SPECIFICATION

SITE PREPARATION

Topsoil
- Existing topsoil shall be stripped before building works begin. Imported topsoil shall be to BS3882: 2015 Specification for Topsoil and Requirements for Use.
- Topsoil shall be multi purpose grade, of medium texture, with a high proportion of fertile loamy material.
- It shall be free from subsoil, rubbish, rubble, contamination, roots of perennial weeds and other materials injurious to plant growth.
- The maximum stone content of the soil shall be 20%, with the maximum size of stone 25mm in any one dimension.
- All topsoil shall be stacked in heaps, not exceeding 2m high. During storage, topsoil heaps shall be kept free from compaction, contamination, and weeds.

Excavation
- The contractor must ascertain for himselfthemself the exact location of underground services and maintenance points.
- Excavation shall NOT be undertaken within the root protection area of any existing trees or shrubs to be retained.
- Unless otherwise indicated areas to be planted/ seeded shall be cleared of all surface rubbish and excavated to the dimensions below finished level as follows, when the soil is not waterlogged or frozen.
- Ensure the location of all services is known before any excavation operations.
- Tree pits: To Detail Drawings.
 Shrub and hedge pit/ trench: 450mm deep
- Hedge Trench: 600mm deep
- Grass areas: 150mm deep
- Wildflower grassland areas: 150mm deep
- The base of excavated areas shall be forked or otherwise cultivated to a depth of 150mm to facilitate drainage.
- All bricks, stones and other debris, etc. over 75mm in any one dimension shall be removed.
- Areas trafficked by construction vehicles shall be ripped to a depth of 150-300mm to relieve compaction.

Backfilling with Subsoil
- Excavated areas lower than the required depths shall be backfilled with selected subsoil and lightly consolidated to make up levels.
- Selected subsoil shall be friable, second quality topsoil or similar.
- Subsoil shall be free of rubbish, roots, stones over 75mm in any one dimension, perennial weeds or other materials injurious to plant growth.

Backfilling with Topsoil
- Tree, shrub and hedge pit/ trench excavations shall be backfilled, in layers, with clean topsoil (as specified above) thoroughly mixed with peat-free planting compost e.g. 'Melcourt Topgrow' compost at a rate of 20 litres/m2.
- An approved tree and shrub fertilizer shall be added to topsoil, prior to backfilling tree-pits.
- Grass areas (excluding wildflower grassland areas) shall be backfilled with topsoil in layers of 150mm depth.

Cultivation
- Prior to cultivation, planting/ seeding areas shall be free of weed growth to be strimmed and the arisings removed.
- All re-growth treated with an approved herbicide ie Glyphosate.
- Treatment to be undertaken in the growing season preceding planting, at a minimum 4 weeks prior to works to allow for repeat treatment if necessary.
- Cultivation shall not be undertaken within the root protection area of any trees/ shrubs to be retained, without prior agreement from the Local Planning Authority.
- Topsoil shall be cultivated by hand or machine prior to planting, with minimal compaction by machine.
- Cultivate to the following depths and tilth, removing all rubbish, vegetation, perennial weeds, roots, stones over 25mm in any one dimension and rake to even levels:
- Planting areas: 300mm deep cultivation to medium tilth.
- Grass seeding areas: 150mm deep cultivation to fine tilth raked to a smooth evenly firmed bed.
- Wildflower grassland areas: 150mm deep cultivation to medium tilth raked to a smooth evenly firmed bed.

Wildflower grassland areas
- Where un-excavated areas are to be seeded with wildflower grassland mix the topsoil shall be cultivated to turn the soil over to a depth of 300mm to bring subsoil to the surface.
- Elsewhere, excavated areas to be seeded with wildflower grassland mix to be backfilled to finished levels with subsoil (as above).

PLANTING

Plant Stock and Timing
- Plant handling at the nursery, and during transit up to delivery, shall be in accordance with 'Plant Handling', the booklet published by the Committee for Plant Supply and Establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the Horticulture Trades Association, 19 High Street, Theale, Reading, Berks RG7 5HJ which refers to the receipt, unloading and temporary storage of plants.
- Plants shall be first class examples of their species or variety, free from all pests and diseases, with good fibrous root systems and materially undamaged (refer to relevant sections of BS3936 Parts 1-4 'Specification of Nursery Stock').
- All planting is to be in general compliance with BS4428: 1989 'Code of Practice for general landscape operations (excluding hard surfaces)'.
- Planting shall not be carried out during periods of frost, drought, cold drying winds or when the soil is waterlogged or frozen.
- Carry out all work while soil and weather conditions are suitable.
- Do not move, spread or cultivate soil for planting areas in unsuitable weather conditions; when it is wetter than the plastic limit, when the ground is frozen or covered by snow.
- Do not plant during periods of frost or strong winds. Plant only during the following periods:
 Deciduous trees and shrubs: Late October to late March
 Conifers and evergreens: September/October or April/May
 Herbaceous plants: September/October or March/April
 Container grown plants. At any time if ground and weather conditions are favourable: Ensure that adequate watering and weed control is provided
 Dried bulbs, corms and tubers: September/October
 Turfing: At any time if ground and weather conditions are favourable. Do not lay turf when persistent cold or drying winds are likely to occur or soil is frost bound, waterlogged or excessively dry. Timing of laying, Spring and summer: Within 16 hours of delivery. Autumn and winter: Within 24 hours of delivery. Ensure that adequate watering and weed control is provided.
 Grass seed sowing season generally: April to June or August to October.
 Wildflower seed sowing season generally: March to May or August to October.
 Dried bulbs, corms and tubers: September/ October.
 Colchicum (crocus): July/ August.
 Green bulbs: After flowering in spring.
 Wildflower plugs: Late August to mid November or March/ April.
 Aquatic plants: May/ June or September/ October.

Planting
- All planting that is within the root protection area of existing trees/shrubs to be retained, shall be undertaken by hand and positions altered should tree roots be encountered, in order to avoid damage to the root system.
- All plants shall be set out evenly in the positions as indicated, to the density and quantities shown.
- All plants shall be planted upright at the same depth as the nursery soil level and evenly spaced, leaving room for growth.
- All restrictive containers shall be removed with roots not twisted.
- Immediately following planting, all plants shall be watered-in to field capacity.
- Container grown and root balled plants shall be planted in planting pit sufficient to accommodate the plant without causing root damage, with a minimum 50mm backfill beyond the root ball extent.
- Plants to be firmed, watered-in and dead, damaged or lopsided branches shall be removed after planting.
- Bare-root plants shall be silt planted, incorporating an approved high phosphate, slow-release fertilizer.

Tree Planting and Support
- Trees planted in landscape areas shall be installed as shown on detailed drawings.
- All trees shall be supported with underground guys or timber stakes as shown on detailed drawings.
- All trees shall have irrigation system units fitted to fully surround the root ball.
- Tree pit root barriers are to be installed wherever the installed rootball will be within 2.0 m of a building foundation, or wherever the installed rootball will be within 3.0 m of an existing underground service route.
- All trees to be firmed in after planting.

Hedge Planting
- Hedges shall be planted in a double staggered or single row as per specified detail.
- Dead, damaged or straggly branches shall be removed after planting.
- All transplants in hedge and native mixes shall be fitted with individual protection ie transparent spiral guards with cane supports or shrub shelters, as specified, or alternatively the planting areas shall be protected with rabbit-proof fencing
- All shrub shelters/ spiral guards shall be black or green, adequately supported and installed to allow for expansion.

Issue	Description	By	Date
08	**Adjustments to Calderpeel layout 21016 (PL) 104 P1. Footpath link to Telegraph Woods added. Pedestrian / cycle route adjusted to provide 2.5 / 3m route through the site and connection to West End. Dedicated Fanzone route adjusted to achieve minimum 10m width**	JH	17.11.23
07	**Adjustments to Calderpeel layout 21016 (PL) 100 I**	JH	23.06.23
06	**Adjustments to layout to LPA consultee comments and latest Calderpeel layout 21016 (PL) 104 D**	JH	23.05.23
05	**Adjustments to layout to LPA consultee comments and latest Calderpeel layout 2023-02-24**	JH	26.02.23
04	**Minor adjustments to layout to accommodate Tree RPAs in line with Mulberry Tree Consultants comments 2022-06-06**	JH	18.07.22
03	**Rear gardens to Care Home adjusted to accommodate Monkey Puzzle RPA. Service yard levels amended and retaining wall and steps added. Tree planting strategy to main car park zones revised to client comments 2022-04-19. Residential layout updated to include current drainage strategy recommendations to residential area**	JH	28.04.22
02	**Updated to revised layout (Budget Hotel) and Mulberry Tree Survey information added**	JH	09.03.22
01	**Draft issue for DT information**	CP	01.03.22

Client
LAND AND DEVELOPMENT ADVISORY LIMITED

Project
AGEAS BOWL MASTERPLAN

Drawing Title
LANDSCAPE MASTERPLAN PLANTING STRATEGY

Date	03.2022	By	CP	Chk	JH
Scale	1:1250@A1	Drawing No.	MP-008	Issue	08
Job No.	J00828		PLANNING		

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