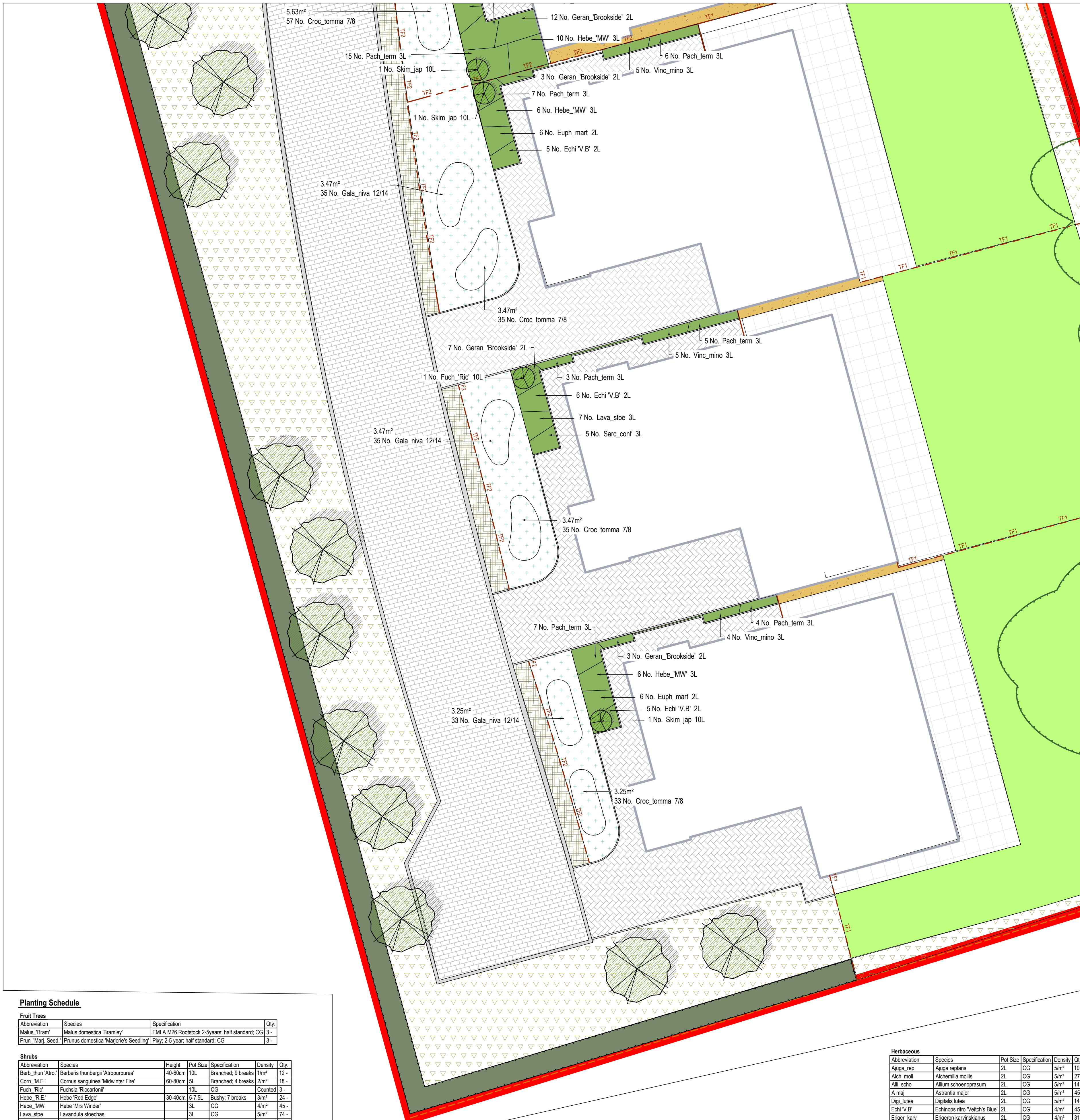




Planting Schedule

Fruit Trees			
Abbreviation	Species	Specification	Qty
Malus_Bram'	Malus domestica 'Bramley'	EMIA M26 Rootstock 2-5years; half standard; CG 3-	3-
Fruin_Warj Seed'	Prunus domestica 'Majorie's Seedling'	Play; 2-5 year; half standard; CG	3-

Shrubs					
Abbreviation	Species	Height	Pot Size	Specification	Density Qty
Berth_thun'Atr'o	Berberis thunbergii 'Atropurpurea'	40-60cm	10L	Branched; 9 breaks	1m² 12-
Com_WiF'	Cornus sanguinea 'Midwinter Fire'	60-80cm	SL	Branched; 4 breaks	2m² 18-
Fuch_Ric'	Fuchsia Riccartonii	10L	CG	Counted 3-	
Hebe_RiE'	Hebe 'Red Edge'	30-40cm	5-7.5L	Bushy; 7 breaks	3m² 24-
Hebe_MW'	Hebe 'Mrs Winder'	3L	CG		4m² 45-
Lava_stoe	Lavandula stoechas	3L	CG		5m² 74-
Maho_aqui	Mahonia aquifolium	3L	CG		4m² 17-
Pach_term	Pachysandra terminalis	3L	CG		5m² 73-
Prun_Zab'	Prunus laurocerasus 'Zabellana'	40-60cm	5-7.5L	Bushy; 5 breaks	2m² 24-
Rosa_off	Rosa gallica 'Officinalis'	3L	CG		4m² 12-
Rosa_off_MUJ	Rosa muscosa 'Officinalis'	3L	CG		4m² 18-
Sarc_conf	Sarcococca confusa	3L	CG		4m² 14-
Skim_jap	Skimmia japonica	10L	CG	Counted 5-	
Skim_jap	Skimmia japonica	3L	CG		4m² 48-
Vinc_mino	Vinca minor	3L	CG		5m² 19-

SPECIFICATION NOTES

- General.**
This plan to be read in conjunction with the following documents:
 - Landscape works specification and other drawings by terra firma
 - Arboricultural report by Lizard Landscape Design & Ecology
- General landscaping.**
 - Existing levels to be preserved around retained existing trees and vegetation. Existing trees and vegetation to be retained are to be protected in accordance with BS5837: 2012 during construction.
 - All landscaping works to be undertaken by competent persons, with appropriate training and equipment.
 - All arising to be removed from site at contractor's expense unless noted otherwise. (e.g. woodchip, gravel, topsoil, timber sleepers).
- Services.**
The contractor must ascertain for himself the exact location of underground services before commencing work.
- Soil Materials Generally.**
 - Purity: Soils shall be free from roots, stonors, rhizomes, propagules of perennial or invasive weeds couch grass, bindweed, docks, Japanese knotweed, giant hogweed and horsetail/marestail (Equisetum arvense).
 - Foreign matter: On visual inspection, free from non-soil material, brick and other building materials and wastes, sharp, and any other foreign matter or material or substance that would render the soil or soil amendment unsuitable for use.
 - Contamination: Do not use topsoil, subsoil, sand or compost contaminated with rubbish or other materials that are:
 - Corrosive, explosive or flammable;
 - Hazardous to human or animal life;
 - Detrimental to healthy plant growth.
 - Give notice: If any evidence or symptoms of soil contamination are discovered on the site or in topsoil, subsoil, sand or compost or other planting media to be used.
- Soil testing**
Each soil source (imported and site-won subsoil and topsoil - see items 6-8 and 9 below) shall be analysed by TM (The) Park Associates, Howbery Park, Wallingford, Oxon OX10 8BA, Tel: 01491 822653, Email: info@tpa.co.uk, www.tpha.co.uk (or equivalent approved).
- Subsoil for general planting areas (sample of site-won and/or imported subsoil to be sent for testing to check compliance with parameters below)**
Provide subsoil as necessary to make up deficiency on site. Natural or manufactured subsoil (from approved source) will be acceptable (within parameters given below). Subsoil to be tested to determine suitability for proposed use for planting; test report to be submitted for approval and to enable amelioration recommendations. Subsoil should be free from commonly tested contaminants, including asbestos. Subsoil parameters to be within the following:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	35
Silt (0.002-0.05mm)	%	0	35
Sand (0.05-2.0mm) of which at least 40% shall fall into fine to medium sand range	%	50	90
Stones (2-50mm)	% DW	50	0
Stones (>50mm)	% DW	0	0
pH Value	Unit	5.5	8.5
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	2800	2800
Exchangeable Sodium Percentage	%	15	15
Organic Matter	%	1.5	1.5

- Subsoil for tree pits (sample of site-won and/or imported subsoil to be sent for testing to check compliance with parameters below)**
Provide subsoil as necessary to make up deficiency on site. Natural or manufactured subsoil (from approved source) will be acceptable (within parameters given below). Subsoil to be tested to determine suitability for proposed use; test report to be submitted for approval and to enable amelioration recommendations. Subsoil should be free from commonly tested contaminants, including asbestos. Subsoil parameters to be within the following:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	18
Silt (0.002-0.05mm)	%	0	25
Sand (0.05-2.0mm) of which at least 40% shall fall into fine to medium sand range	%	60	90
Stones (2-50mm)	% dry wt.	50	0
Stones (>50mm)	% dry wt.	0	0
pH Value	Unit	5.5	8.5
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	2800	2800
Exchangeable Sodium Percentage	%	15	15
Organic Matter	%	1.5	1.5

- Topsoil for general landscapes (sample of site-won and/or imported topsoil to be sent for testing to check compliance with parameters below and to inform any necessary amelioration - see 9 below)**
Existing topsoil to be stripped and re-used, provided soil is within parameters given below when analysed. Imported topsoil to be good quality sandy loam or manufactured topsoil (from approved source, meeting parameters given below). Topsoil (site-won or imported) is to be tested to determine suitability for proposed use and should be free from commonly tested contaminants, including asbestos; test report to be submitted to Landscape Architect for approval and to enable amelioration recommendations to be made:

Parameter	Unit	Lower Limit	Upper Limit
Clay (<0.002mm)	%	5	18
Silt (0.002-0.05mm)	%	0	35
Sand (0.05-2.0mm) of which at least 40% shall fall into fine to medium sand range	%	50	85
Stones (2-50mm)	% dry wt.	0	20
Stones (>50mm)	% dry wt.	0	15
pH Value	Unit	5.5	8.5
Electrical Conductivity (1:2.5 water extract)	µS/cm	1500	1500
Electrical Conductivity (CaSO4 extract)	µS/cm	2800	2800
Exchangeable Sodium Percentage	%	15	15
Organic Matter	%	4.0	8.0
Total Nitrogen	%	0.15	0.15
Carbon: Nitrogen Ratio	mg/l	20:1	20:1
Extractable Phosphorus	mg/l	26	100
Extractable Potassium	mg/l	240	1200
Extractable Magnesium	mg/l	50	600

- Ameliorant: fertilizer and compost (contractor is responsible for submitting a sample of imported or site-won topsoil to inform requirements).**
Topsoil and subsoil to be determined by analysis. Once amelioration requirements ascertained as required, approved (paid fee) composts to PAS100 and/or fertilizers to be incorporated during cultivation at required rate to full depth of growing medium.

- Soil handling and depths.**
Management of soils to be in accordance with the Construction Code of Practice for the Sustainable Use of Soils on Construction Sites

- Topsoil and subsoil to be handled (i.e. excavated and/or imported, stored, spread, cultivated) in accordance with method agreed in writing by Landscape Architect prior to work commencing. All topsoil and subsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating ameliorants as required. If compaction is suspected in sub-grade, subsoil or topsoil surfaces, these should be ripped as necessary to decompact and ensure adequate drainage.
- Hand cultivations shall be carried out to achieve the required finish on areas where machine cultivation is impossible ie adjacent to kerbs, manholes and footpath junctions, around retained trees etc. Surplus plant material, rubbish and stones having any dimension greater than 25 mm shall be collected and removed from the site. Topsoil and subsoil is to be stored in heaps, maximum of 2m in height, providing soil is reasonably dry and friable during stripping and handling - using a tracked excavator. To protect from wet weather once final height is achieved, an excavator should regrade the sides and top of stockpile to firm surface by tracking across it to form a smooth gradient.
- Final topsoil depth (allowing for settlement) to be 300mm for tree pits and general planting areas and 150mm for grass. Finished soil levels to be 25mm above/below adjoining paving or kerbs; not less than 150mm below dpc of adjoining buildings; shrub areas to be higher than adjoining grass areas by 25 mm. Topsoil to be spread in lightly compacted layers, max. 150mm depth, gently firm each layer before spreading the next.

- Plant handling and establishment.**
Plant handling shall be in accordance with 'Handling and establishing landscape plants', published by the CPSE through the JCLC (<https://www.csdhub.com/wp-content/uploads/2014/12/The-National-Plant-Specification-Handling-and-Establishment.pdf>). The contractor shall comply with Part 3: Recommendations for plant handling from delivery to site to ensure successful establishment.

- General planting notes.**
Details for tree, hedge and general planting to be finalised once final site conditions are known (i.e. compaction and permeability of ground). General plant stock to conform to BS 3036: advanced nursery stock to BS 8545, and planting to BS 4428. 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. All planting operations to be in general compliance with BS4428: 'Code of Practice for general landscape operations'.
Only carry out all planting while soil and weather conditions are suitable:
 - Do not plant during periods of frost or strong winds. Plant only during the following periods:
 - Circulars and conifer trees: Late October to late March (rootball and bare root)
 - Bulbs: September/OctoberSetting out of planting beds to be approved by Landscape Architect before work commences. Ensure that plant beds are neatly defined, and raise from adjacent paved areas as specified above. All tree pits, tree circles in lawn and planting beds to be mulched with approved bark mulch to 75mm depth after planting.

- Tree planting**
Any proposed substitutions of species shown on plan to be approved by landscape architect prior to planting. Details for tree planting to comply with BS8545. As a guide all trees to be planted in square pits with base undisturbed unless drainage / compaction problems known. Plant at a depth where the root flare is clearly visible at the soil surface. Where trees have been supplied with the root flare too deep excess soil or fibrous root growth should be removed before planting. All trees to have 'Piddler' tree irrigation/irrigation system installed as supplied by Platipus 01737 762000 www.platipus-anchors.com or approved equivalent. Water-in heavily after planting and mulch surface, ensuring mulch is not in contact with the soil surface. Trees support to comply with BS 8545: RB or CG trees to have double stake and bridge with adjustable tie; trees on slopes to have angled single stake with adjustable tie; in windy locations or for large trees, install wire guying; tree stakes to be stained black. Any necessary remedial tree works are to be carried out by an approved tree surgeon to BS 3998. Trees planted within grass areas to be set in mulched earth circles, 1m diameter around tree trunk, with turf trimmed neatly to form circle.

- Trees up to 20cm girth.
Depth of tree pits to be the same as the rootball and with overall width to be 150mm wider than the diameter of the rootball (75mm min. from rootball edge to tree pit side). Pits to be backfilled with 300mm depth of specified topsoil over subsoil as per spec.

- Clipped Hedges.**
Depth of planting trench to be same as rootball, overall width 150mm wider than rootball (75mm min. from rootball edge to sides of trench). Trench to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis. Central post and wire supporting to be provided with two line wires and plants to be tied in using horticultural plastic ties. On planting, hedges to be trimmed to 800mm ht. and sides trimmed to neat shape where necessary.

- Mixed Native hedges.**
Depth of planting pit to be same as root system, overall width space 150mm wider than root system (75mm min. from root system edge to sides of trench). Trench to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Provide and install each plant with an appropriate sized recyclable staked green shrub shelter (available from Tubex Ltd, phone 01621 874201 or similar approved). Position shelter stake on windward side of plant, drive vertically into bottom of pit before planting, to a min. depth of 300mm and consolidate backfill material around stake; attach shelter to stake with a minimum of two ties.

- Specimen Shrubs.**
Depth of planting pit to be same as rootball, overall width space 100mm wider than rootball (50mm min. from rootball edge to sides of pit). Pit to be backfilled with 300mm depth of specified topsoil over subsoil as per spec. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.
- Shrub and Ground Cover Planting.**
All plants to be planted into cultivated planting beds (with 300mm depth specified topsoil) at densities shown in plant schedule, backfilled with same topsoil. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.

- Grass.**
Turfing shall be carried out only during appropriate seasons and while soil and weather conditions are suitable for the relevant operations. Only machinery and tools suitable for the site conditions and the work to be carried out shall be used. Hand tools shall be used around trees, plants and in confined spaces where it is impractical to use machinery. The soil shall be weed free prior to turfing. Contact herbicide as specified should be applied to all areas of weed growth 4-6 weeks before grassing and repeated if necessary to maintain a weed free bed. Where deep rooted weeds are present (docks, thistles etc.) approved Glyphosate-based herbicide should be applied as a spot treatment. Turf shall be laid on prepared, levelled soil (minimum 150mm depth) in the areas indicated on the drawings in accordance with BS 4428:1989 Code of practice for general landscape operations'. All grass areas to be approved landscape quality turf for general amenity areas or lawn turf for garden areas.

- Meadow grass:**
Emorsgate EH1
Mixture EH1 contains wild flowers and grasses that are tolerant of semi-shade. Good preparation is essential to success so aim to control weeds and produce a good seed bed before sowing. To prepare a seed bed first remove weeds using repeated cultivation. Cultivation close to established trees and shrubs can be damaging to their root systems so take care not to dig too deep, keeping disturbance to the minimum required to expose fresh soil. Seed is best sown in the autumn or spring but can be sown at other times of the year if there is sufficient warmth and moisture. The seed must be surface sown and can be applied by machine or broadcast by hand. To get an even distribution and avoid running out, divide the seed into two or more parts and sow in overlapping sections. Do not incorporate or cover the seed but firm in with a roll, or by treading, to give good soil/seed contact.
The wild flower and grass species in this mix are perennial; they will be slow to germinate and grow and will not usually flower in their first growing season. There will often be a flush of annual weeds from the soil in the first growing season. This annual weed growth is easily controlled by repeated mowing. Mow newly sown flowering lawns regularly (every 7 - 10 days during growing season) throughout the first year of establishment. Cut to a height of 40-60mm, removing cuttings if dense. This will gradually develop a good sward structure, help maintain balance between faster growing grasses and slower developing wild flowers, and control annual weeds.

- Avoid cutting in the spring and early summer if the mixture has been sown with a nurse cover of clover annuals, or is autumn sown and contains Yellow Rattle. These sown annuals should be allowed to flower, then in mid-summer cut back and the cut vegetation removed. It is important to cut back cornfield annuals before they die back, set seed or collapse; this cut will reveal the developing meadow mixture and give it the space it needs to develop.

- Species-rich grass flowering lawn:**
Emorsgate EL1
Mixture EL1 contains slow growing grasses with a selection of wild flowers that respond well to regular short mowing. Preparation of ground and sowing information same as above meadow grass. Dig out any residual perennial weeds. Once established, mow regularly as a lawn but not too short (25-40mm). To permit flowering, mowing can be relaxed from late June. Cut again when the sward gets untidy (after 4-8 weeks). Mowing may be suspended earlier in the year to allow cowslips to flower. Heavy quantities of cuttings should be collected and removed from site.

- Maintenance.**
Establishment maintenance for all planting for 5 years from Practical Completion to include weed control, watering and replacement of failures to original specification in the planting season following failure.
 - All plant material to receive annual pruning and hedges and groundcover to be trained and edged with minimum 2 trims per year.
 - Check tree stakes and ties annually and after strong winds.
 - Native shrubs plants to be trimmed during winter just after planting, then twice annually in summer and autumn to encourage lower branching and dense growth.
 - Lawn & amenity grass areas - Mowing is to be carried out using approved machinery to maintain the vegetation length within the limits of 30 mm and 60 mm during April to August inclusive and between 50 mm and 70 mm during the rest of the year.
 - Wildflower meadows... Meadow grass areas where left un-mown to receive a main summer hay cut in combination with autumn and spring mow. Leave grass to flower from spring through to late July/Aug to give sown species the opportunity to flower. After flowering carry out a 'hay' cut with a strimmer to 50mm. Leave 'hay' to dry and shed seed for 1-7 days then remove from site. Mow regrowth through to late autumn to 50mm and again in spring as needed.
 - Flowering Lawn...Mow regularly in the first 12 months then cut annually, once in late summer once the flowers have set.

0m5m

north

- All dimensions in millimetres unless otherwise indicated. All levels in metres relative to Ordnance Datum and any positive (AD) unless otherwise indicated.
- Figure dimensions only to be taken from this drawing, do not scale. Dimensions to be checked on site.
- For civil and structural matters including existing and proposed services, sub-base construction and site structures (including retaining walls over 900mm height) refer to information by others.
- The original version of this drawing was produced in colour - monochrome copies should not be relied upon to accurately reflect all drawing elements.
- This drawing has been prepared for tender purposes only and should not be used for construction.

Key plan 1:2500

Site boundary

Proposed planting

Proposed trees

Proposed fruit tree

Existing meadow grass seeding, with Emorsgate EH1 utilizing existing soils, with compost but not fertilizer as Ecologist recommendation

Flowering Lawn Mixture EL1 as Ecologist recommendation

Clipped mixed native hedge

Mixed native hedge

Ornamental shrub and groundcover planting

Amenity grass

- For structural planting refer to terra firma drawing 2248-TF-00-00-DR-L-001

P02	18/02/22	DB	KS	Updated to proposals to latest architectural layout.
P01	29/03/21	DB	KS	First issue (pending AIA update)
rev	date	by	chm	notes
project	Land adjacent to Scolt, Climping			
title	Planting Plan 2 of 2			
status	Stage 4			scale @ A1 1:100
dwg no	2248-TF-00-00-DR-L-3002			
references	Site Plan rev A, by R&R Design Studio received 2021/01/12			

terrafirma

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