

Planting Schedule

Trees	Specification	Qty.
Species		
<i>Acer campestre</i>	14-16cm girth, 4.5-5m H, RB or CG	16 No.
<i>Azara glauca</i>	12-14cm girth, 3.5-4.5m H, RB or CG	1 No.
<i>Amelanchier (lamarcki)</i>	10-12cm girth, 3.0-3.5m H, RB or CG	4 No.
<i>Betula abietensis</i> 'Fascination'	10-12cm girth, 3.0-3.5m H, RB or CG	10 No.
<i>Betula pendula</i>	14-16cm girth, 4.0-4.5m H, RB or CG	10 No.
<i>Corylus avellana</i>	2.0m H, Multi-Stemmed, RB or CG	14 No.
<i>Magnolia 'Galaxy'</i>	12-14cm girth, 3.5-4.0m H, RB or CG	3 No.
<i>Malela sylvestris</i>	10-12cm girth, 3.0-3.5m H, RB or CG	1 No.
<i>Prunus 'Sunset Boulevard'</i>	12-14cm girth, 3.5-4m H, RB or CG	2 No.
<i>Prunus avium</i>	12-14cm girth, 3.5-5m H, RB or CG	4 No.
<i>Prunus avium 'Piena'</i>	12-14cm girth, 3.5-4m H, RB or CG	3 No.
<i>Prunus laurocerasus 'Magnifica'</i>	Pleached, 150-200cm frame, 175cm clear stem, 4-5 tiers	7 No.
<i>Prunus padus</i> 'Alberti'	12-14cm girth, 3.5-4m H, RB or CG	1 No.
<i>Prunus subhirtella 'Autumnalis Rosea'</i>	12-14cm girth, 3.5-4m H, RB or CG	4 No.
<i>Quercus robur</i>	14-16cm girth, 4.0-4.5m H, RB or CG	5 No.
<i>Ulmus 'New Horizon'</i>	12-14cm girth, 3.5-4m H, RB or CG	8 No.
<i>Ulmus procera</i>	12-14cm girth, 3.5-4m H, B or CG	1 No.

Native Shrubs

Abbr.	Species	Specific	Density	% Mix.
Bet_pend	<i>Betula pendula</i>	1:1: Transplant - seed raised: Branched: 3 brks: B	1/m ²	15% 385 Nu
Crat_mono	<i>Crataegus monogyna</i>	1:1: Transplant - seed raised: Branched: 4 brks: C	1/m ²	20% 515 Nu
lex_aqui	<i>Ilex aquifolium</i>	Branched: 4 brks: C	1/m ²	20% 515 Nu
Malu_sylv	<i>Malus sylvestris</i>	1:1: Transplant - seed raised: Branched: 4 brks: C	1/m ²	15% 385 Nu
Prun_spin	<i>Prunus spinosa</i>	Branched: 5 brks: C	1/m ²	15% 385 Nu
Sal_carp	<i>Salix caprea</i>	1:1: Transplant - seed raised: Branched: 4 brks: C	1/m ²	5% 133 Nu
Salix_rep	<i>Salix repens</i>	1:1: Transplant - seed raised: Branched: 4 brks: C	1/m ²	10% 260 Nu

Native Hedges

Abbreviation	Species	Specification	Density	% Mity	Qty
Acer_camp	Acer campestre	80-100cm ht whips	0.4C4r Double Staggered at 0.25m offset	15%	298 No.
Cory_avel	Corylus avellana	80-100cm ht whips	0.4C4r Double Staggered at 0.25m offset	15%	298 No.
Crataegus	Crataegus monogyna	80-100cm ht whips	0.4C4r Double Staggered at 0.25m offset	35%	689 No.
Ilex_aqui	Ilex aquifolium	5L CG	0.4C4r Double Staggered at 0.25m offset	5%	100 No.
Prun_spnosa	Prunus spinosa	80-100cm ht whips	0.4C4r Double Staggered at 0.25m offset	15%	298 No.
Vibul_opul	Viburnum opulus	80-100cm ht whips	0.4C4r Double Staggered at 0.25m offset	15%	298 No.

Clipped Hedges

Abbreviation	Species	Specification	Density	Qty.
Esca_ 'Iveyi'	Escallonia 'Iveyi'	CG; 10L; 60-80cm ht	4/m	216 No.
Esca_sylv	Fagus sylvatica	CG; 3L; 80-100cm ht	4.0Ctr Double Staggered at 0.25m offset	2492 No.
Ilex_aqui	Ilex aquifolium	CG; 10L; 60-80cm ht	4/m	239 No.

Shrubs

Abbreviation	Species	Pot Size	Specification	Density	Qty.
Corn alb 'E'	Cornus alba 'Elegantissima'	5L	Bushy; 6 brks: C	3m ²	84 No.
Corn cana	Cornus canadensis	5L	Bushy; 6 brks: C	4m ²	252 No.
Corn M.B.'S	Cornus sanguinea	10L	Bushy; 4 brks: C	Counted	132 No.
Corn syl	Cornus sylvestris	10L	Bushy; 4 brks: C	Counted	N/A
Coto damm	Cotoneaster dammeri	5L	Bushy; 6 brks: C	4m ²	114 No.
Coto hori	Cotoneaster horizontalis	5L	Bushy; 6 brks: C	4m ²	158 No.
Eun. 'G.O'	Euonymus fortunei 'Emerald 'n' Gold'	3L	Bushy; 3 brks: C	5m ²	401 No.
Hebe 'G&G'	Hebe 'Grand Orme'	3L	Bushy; 6 brks: C	3m ²	58 No.
Hebe 'M.B.'S	Hebe 'Midsummer Beauty'	3L	Bushy; 7 brks: C	3m ²	56 No.
Hebe 'N.B.'	Hebe 'Nicolas Buxus'	3L	Bushy; 7 brks: C	3m ²	76 No.
Hebe 'R.E.'	Hebe 'Red Edge'	3L	Bushy; 7 brks: C	5m ²	119 No.
Hebe rak	Hebe rakaisensis	3L	Bushy; 3 brks: C	4m ²	96 No.
Hebe hibe	Hedera helix hibernica	4L	Full pot	4m ²	29 No.
Hyd. 'MEM'	Hydrangea macrophylla 'Mme Edile Mouillere'	3L	Branched; 3 brks	2m ²	16 No.
Hyd. 'HIL'	Hydrangea 'Hidcote'	5L	Bushy; 6 brks: C	3m ²	640 No.
Lav. 'LAV'	Lavandula angustifolia 'Hidcote'	3L	Branched; 5 brks	Counted	132 No.
Loni mlti 'P.G.'	Lonicera nitida 'May Green'	5L	Bushy; 6 brks: C	4m ²	680 No.
Loni mlti 'Mile'	Lonicera pileata	5L	Bushy; 6 brks: C	4m ²	114 No.
Maho. apol	Mahonia aquifolium 'Apollo'	3L	Branched; 2 brks: C	4m ²	284 No.
Maho 'SC'	Mahonia erybracteata gapaniensis 'Soft Caress'	3L	Branched; 3 brks	4m ²	212 No.
Nand fire	Nandina domestica 'Firepower'	3L	Bushy; 4 brks: C	4m ²	114 No.
Pach. 'PACH'	Pachysandra terminalis 'Variegata'	3L	Bushy; 6 brks: C	5m ²	505 No.
Pach term 'Var'	Pachysandra terminalis 'Variegata'	3L	Bushy; 6 brks: C	5m ²	9 No.
Prunus O.L'	Prunus laurocerasus 'Otto Luyken'	5L	Bushy; 6 brks: C	4m ²	851 No.
Prunus O.L'	Prunus laurocerasus 'Otto Luyken'	3L	Bushy; 6 brks: C	4m ²	132 No.
Rosa 'Kent'	Rosa 'Kent'	4L	Cutting or Bush; Strong: C	4m ²	49 No.
Rosa 'Surrey'	Rosa 'Surrey'	4L	CO or BR; Cutting; bush: 3 brks	3m ²	53 No.
Rosa 'Fairy'	Rosa 'Fairy'	4L	Cutting; Bush: 3 brks	4m ²	173 No.
Rosa 'Saxs'	Rosa 'Saxs'	4L	CO or BR; Cutting; bush: 3 brks	3m ²	59 No.
Sarc conf	Sarcococca confusa	3L	Bushy; 6 brks: C	4m ²	187 No.
Skim K.C'	Skimmia confusa 'Kew Green'	3L	Bushy; 3 brks	3m ²	387 No.
Symp 'Han'	Symphoricarpos 'x chenaulti'	4L	Full pot	4m ²	24 No.
Vibu davi	Viburnum dentatum	5L	Bushy; 4 brks: C	5m ²	252 No.
Vibu davi	Viburnum dentatum	5L	Bushy; 6 brks: C	5m ²	83 No.
Vibu lant	Viburnum lantana	10L	Bushy; 4 brks: C	Counted	6 No.
Vibu opul 'R'	Viburnum opulus 'Roseum'	10L	Bushy; 4 brks: C	Counted	3 No.
Vibu tinu	Viburnum tinus	5L	Bushy; 6 brks: C	3m ²	103 No.

Herbaceous

Abbreviation	Species	Pol	Size	Specification	Density	Qty
Ajunc 'rep' CG'	Ajuga reptans 'Cattlin's Giant'	2L	Full Pot	Sept to April planting; British Native-origin.	5/m ²	187 No.
Anem. 'H.J.'	Anemone hybrida 'Honningdale'	2L	Full Pot C	C	5/m ²	25 No.
Ariz. Cor. 'Sun'	Gargania corymbosa 'Sunningdale'	2L	Full Pot C	C	5/m ²	34 No.
Dipl. purp. 'Ab's'	Digitalis purpurea 'Ab's'	2L	Full Pot C	C	5/m ²	34 No.
Euph. aym'	Euphorbia amygdaloides robiae	2L	Full Pot C	C	5/m ²	141 No.
Gera. 'KP'	Geranium 'Kashmir Purple'	2L	Full Pot C	C	5/m ²	78 No.
Gera. 'roz'	Geranium Rozanne	2L	Full Pot C	C	5/m ²	162 No.
Geum. 'MB'	Geum 'Mrs J. Bradshaw'	2L	Full Pot C	C	5/m ²	85 No.
Heim. foel	Hebe foetidus	2L	Full Pot C	C	5/m ²	22 No.
Prim. mv	Luzula meyeri	2L	Full Pot	Sept to April planting; British Native-origin.	5/m ²	83 No.
Prim. vul	Primula vulgaris	2L	Full Pot C	C	5/m ²	62 No.
Verb. bon	Verbena bonariensis	2L	Full Pot C	C	5/m ²	40 No.
Vinc. mino	Vincetoxicum minor	2L	Full Pot	Sept to April planting; British Native-origin.	5/m ²	474 No.

Ferns

Abbreviation	Species	Pot Size	Specification	Density	Qty.
Aspl_sco	Asplenium scolopendrium	3L	Full Pot: C	3/m ²	89 No.
Dryo_fil	Dryopteris filix-mas	3L	Full Pot: C	5/m ²	68 No.

Climbers

Abbreviation	Species	Height	Pot Size	Specification	Density	Qty.
Clem 'J'	Clematis 'Jackmanii'	100-150cm	10L	CG caned; several shoots; 5 breaks	Counted	5 No.
C m 'T'	Clematis montana 'Tetrasore'	100-150cm	10L	CG caned; several shoots; 5 breaks	Counted	8 No.
Ja off	Jasminum officinale	100-150cm	10L	CG caned; several shoots; 5 breaks	Counted	8 No.
L per 'B'	Loniceria perlydiumum 'Belgica'	100-150cm	10L	CG caned; several shoots; 5 breaks	Counted	8 No.
L per 'G' T'	Loniceria perlydiumum 'Graham Thomas'	100-150cm	10L	CG caned; several shoots; 5 breaks	Counted	2 No.
Trac jas	Trachelospermum jasminoides	100-150cm	10L	CG caned; several shoots; 5 breaks	Counted	7 No.

Bulbs

Abbreviation	Species	Bulb Size	Specification	Density	Qty.
CCB	Crocus 'Cream Beauty'	5/6	5/6 bulb size	20/m ²	216 No.
CV	Crocus vernus 'Vanguard'	7/8	7/8 bulb size	20/m ²	216 No.
NAR MAS	Narcissus 'Dutch Master'	5/6	5/6 bulb size	15/m ²	142 No.
N 'T'	Narcissus 'Thalia'	12/14	12/14 bulb size	15/m ²	142 No.

Marginal / Aquatics

Abbreviation	Species	Common Name	Pot Size	Specification	Density	Qty.
P au	<i>Phragmites australis</i>	Common Reed	9cm	Full pot; June to September planting; British native origin	4/m ²	1175 No.

N.B. Plants marked with an * are particularly known to be night scented.

SPECIFICATION NOTES

1. **General.**
This plan is to be read in conjunction with the following documents:
- Risk Register by terra firma
 - Ecological Appraisal and Protected Species Surveys by Lindsay Carrington Ecological Services
 - Arboricultural report by Barrell Tree Consultancy

2. **General landscaping.**
 - i. 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 or as detailed in Tree Protection Plan.
 - ii. All landscape works to be undertaken by competent persons, with appropriate training and equipment.
 - iii. All arisings to be removed from site at contractor's expense unless noted otherwise. (e.g. woodchip, gravel, topsoil, timber sleepers).

- 3. Services.**
The contractor must ascertain for himself/herself the exact location of underground services before commencing work.

- #### 4. Soil Materials Generally.
- Purity: Soils shall be free from roots, stolons, rhizomes, propagules of perennial or invasive weeds such as grass, bindweed, docks, Japanese knotweed, giant hogweed and horsetail/marestail (*Equisetum* avenue).
 - Foreign matter: On visual inspection, free from non-soil material, brick and other building materials and wastes, sharps, and any other foreign matter or material or substance that would render the soil or soil ameliorant 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.

- 5. 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

- i. 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.
- ii. 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 matter, rubbish and surface 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.
- iii. 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.

- 6. Plant handling and establishment.**
Plant handling shall be in accordance with 'Handling and establishing landscape plants', published by the CPSE through the JCLI. The contractor shall comply with Part 3: Recommendations for plant handling from delivery to site to ensure successful establishment.

- 7. 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 3936, 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:

- Deciduous and conifer trees: Late October to late March (rootball and bare root)
- Container grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering is provided
- Bulbs : September/October

- 8. 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/aeration system installed as supplied by Platipus 01737 762300 www.platipus-anchors.com or approved equivalent. Water-in heavily after planting and mulch surface, ensuring mulch is not in contact with trunk of tree. Tree support to comply with BS 8545: Bare root trees to have a single upright stake; RB or CG trees to have double stake and bridge with adjustable tie; multi stemmed trees or trees on slopes to have angled single stake with adjustable tie; in windy locations or for large trees, install wired guying. Trees to be underground guyed shall have suitable guying systems installed as supplied by Platipus 01737 762300 www.platipus-anchors.com or approved equivalent. 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.
- iii. 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.

- 9. 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. 1m ht 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 height specified on plan and sides trimmed to neat shape where necessary.

- 10. Native hedges.** Species to be randomly mixed for natural effect, and planted in groups of 3-5 plants of any one species. Depth of planting trench 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 Tubes 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.

- 11. Native tree and shrub mixes.**
All plants to be planted in cultivated planting beds with species randomly mixed for natural effect, and spaced in groups of 3-5 plants of any one species. Plants to be notch- or pit-planted. Plant on grid at planting given in schedule. Provide and install each plant with an appropriate sized biodegradable staked green tree or shrub shelter (Tubex Nursey® or similar approved, available from Tubs Ltd phone 01621 874201). 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.
- 12. 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.

- 13. 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.

- 14. Climbers and wall shrubs.**
All climbers to be planted as 19. above and provided with steel line wires attached to the wall/fence (min 3 no.) at 300mm vertical spacing with climbers spread out and tied to wires using appropriate horticultural ties. Fertiliser to be incorporated as required to ensure establishment and continued thriving of plants - type and application rate to be determined by analysis.

- 15. Bulb planting.** All bulbs to be planted at the rate given in the schedule, in random mixed drifts of single species in areas indicated on the plan, minimum 15 bulbs per drift of single species. For planting, naturalized bulb positions by dropping bulbs from waist height. Neatly remove a plug of turf and replace after planting. Plant so that the top of the bulb is at a depth of approximately twice its height with base in contact with bottom of hole. Bulbs should be no closer together than approximately twice the width of a single bulb.

- 16. Grass.**
- Turfing and seeding 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 and seeding. 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 or seed 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, or equivalent seed.

- 17. Species-rich grass.**
Establish seed mix & soil requirements in accordance with suppliers specifications.
Emorsgate Seeds (01553 829028):-
- EM1 (Basic General Purpose Meadow Mixture)
 - EM8 (Meadow Mixture for Wetlands)
 - EW1 (Woodland Mixture)
- or similar approved.*

- 18. Root barrier.**
Root barrier system to be used in locations determined by engineers in order to protect services. To be supplied by GreenBlue Urban 01424 717797 or other approved supplier. Thickness, size and depth of installation of root barrier to be to manufacturer's recommendations for particular circumstances.

- ### 19. 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.
 - Particular attention to be given to watering of trees as required in first summer after planting
 - Check tree stakes and ties annually and after strong winds.
 - Check shrub shelters at least twice annually to remove weeds and any soil build up inside tube. Disintegrated fragments of biodegradable shelters to be removed.
 - Native shrub 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 50 mm during April to August inclusive and between 50 mm and 70 mm during the rest of the year.
 - Species-rich grassland. 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.

- All dimensions in millimetres unless otherwise indicated. All levels in metres relative to Ordnance Datum and are positive (AOD) unless otherwise indicated.
- Figure dimensions only to be taken from this drawing. Dimensions and levels to be checked on site.
- Do not re-scale this drawing.
- All civil/structural materials including existing and proposed services, structures, construction, site structures and retaining walls are subject to design confirmation by an appropriately qualified Engineer. 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 planning purposes only and should not be used for quantification, tender or construction.