



Native Structure Mix:
1.5/m² Plant in groups of 5-10 No. of similar species underplanted with BSH A24 seed mix @35g/m² and WGF8 @0.5g/m²

20% Cornus alba	80-100cm
20% Corylus avellana	80-100cm
20% Crataegus monogyna	80-100cm
10% Ilex aquifolium	1L/80-100cm
15% Prunus spinosa	80-100cm
5% Rosa canina	60-80cm
10% Viburnum opulus	80-100cm

Typical Tree Selection:

Acer campestre - Fthd and C/S	14-16cm and 16-18cm
Ainus glutinosa - Fthd and C/S	14-16 and 16-18cm
Betula pendula - M/S and C/S	18-20 and 3.0-3.5m
Betula pubescens - M/S and C/S	16-18 and 2.5-3.0m
Betula ermanii - M/S	3.5-4.0m
Carpinus betulus - C/S	16-18cm
Fraxinus excelsior - C/S	14-16 and 16-18cm
Prunus avium C/S	16-18cm
Quercus robur C/S	14-16cm and 18-20cm
Salix caprea Fthd	14-16m / 2.5m
Sorbus aria C/S	16-18cm/20-25cm
Sorbus aucuparia	18-20cm
Sorbus torminalis	14-16 and 16-18cm
Tilia cordata C/S	20-25cm

Native Woodland Edge Matrix
@1/m² in groups of 3,5,9 of similar species, pit planted:

Corylus avellana	80-100cm	15%
Cornus sanguinea	80-100cm	15%
Eucornus europaeus	80-100cm	10%
Ilex aquifolium	80-100cm	5%
Rhamnus frangula	80-100cm	15%
Prunus spinosa	80-100cm	15%
Sambucus nigra	80-100cm	15%
Viburnum lantana	80-100cm	10%

Under planted with WGF8 seed mix
@5g/m² and ground flora mix, P9 in groups of 3, 5, 9, 13, 15 of similar species:

Allium ursinum (Ramsons)	1L
Endymion non-scriptus (Bluebell)	1L
Galium odoratum	1L
Geranium robertianum (Herb Robert)	1L
Geum urbanum (Wood Aven)	1L
Hypericum perforatum (St. John's Wort)	1L
Silene dioica (Red Campion)	1L

Bog Garden Planting Mix @5/m²:
Plant in groups of 5-15 No. of similar species

10% Primula pulverulenta	1L
10% Lythrum salicaria	1L
10% Caltha palustris	1L
10% Osmunda regalis	2L
10% Iris pseudocorus	1L
10% Trollius europaeus	1L
10% Hosta sp.	1L
10% Angelica gigas	2L
10% Rodgersia pinnata 'Superba'	2L
10% Blechnum spicant	1L

Including British Seed Houses WGF9 wetland and pond seed mix @5g/m²

Typical Herbaceous Perennial and Herb Garden Mix @various/m²:

Herbaceous Perennials:

Anemone 'Spendans'	3L
Aster novae belgii	3L
Carex 'Silver spectre'	3L
Crocus aureus	Bub
Crocus 'Lucifer'	3L
Cyclamen coum	2L
Helleborus foetidus	3L
Iris pallida	3L
Kniphophia 'Little Maid'	3L
Leucanthemum vulgare	3L
Liriope muscari 'Big Blue'	3L
Origanum vulgare	Bulb
Narcissus 'February Gold'	3L
Primula vulgaris	3L
Sedum spectabile	3L
Sedum 'Autumn Joy'	3L
Syrinchium 'Aunt May'	3L
Stachys officinalis	3L
Tropaeolum majus	3L

Herbs:

Apple mint	1L
Basil	1L
Bay Leaf	1L
Chives	1L
Coriander	1L
Cumin	1L
Dill	1L
Fennel	1L
Garlic	1L
Lavender	1L
Marjoram	1L
Thyme	1L

- Key**
- Site boundary
 - New building
 - Existing trees retained and protected
 - New trees
 - Native structure mix
 - Ornamental edible garden mix
 - Herbaceous perennial and herb garden
 - Native hedge planting
 - Woodland underseeded with woodland grass mix
 - Turf- Hardwearing variety
 - Quality Lawn seed mix
 - Wildflower meadow grass
 - Grass play area - Hardwearing mix
 - Productive garden
 - Wetland grass mix
 - Fibre reinforced turf for occasional vehicle use

Outline Specification Notes - Soft landscaping

1.0 Site Preparation and Earthworks

1.1 All existing trees/vegetation to be retained shall be protected from damage by a scaffold framework comprising a vertical and horizontal framework, well braced to resist impacts, with vertical tubes spaced at a maximum interval of three metres. Onto this, weld mesh panels should be securely fixed with wire of scaffold clamps, in accordance with BS5837 (2005). Protective fencing is to be located one metre beyond the canopy spread of individual tree groups, and the contained area is to remain completely undisturbed for the duration of the contract.

1.2 Generally all earthworks shall be executed in accordance with BS4428 'General Landscape Operations'.

1.3 Ground profiles to be left with smoothly flowing contours, free from localised depressions, high spots and abrupt angles.

1.4 Cultivate topsoil and produce an even surface free from lumps and clods. Cultivation shall be to a minimum depth of:
Planted areas: 450mm
Native transplant areas: 350mm
Grass areas: 150mm

2.0 Planting

2.1 Handling and transportation of all plants shall be carried out in accordance with Horticultural Trade Association's 'Plant Handling' recommendation (1987).

2.2 All planting operations shall be carried out in accordance with BS5326: 1975; BS4043: 1996; and BS4428: 1968. Advanced nursery stock to BS5236: 1975.

2.3 Trees: All trees shall be supplied in accordance with the plant schedules by named nurseries.

Tree planting backfill shall contain:
80% by volume: Topsoil
20% by volume: Mushroom Compost
3kg/m³: Enmag Fertilizer
1kg/m³: Water Retaining Polymer Gel

Tree Stakes: Timber for tree stakes shall be straight, pointed, round section, peeled, preservative impregnated (BS1282) softwood, sweet chestnut or larch. All tree stakes are to be supplied to site stained black with an approved timber stain. In general, the length of stakes shall be equal to the sum of the length of the stake above ground (500mm), the depth of the tree pit and an additional 300mm. Trees are to be secured with 'Rubberloc' belting.

Underground Guying: All semi-mature and multi-stemmed trees (over 2.5m in height) are to be anchored using 'Duckbill' or 'Deadman' anchoring systems. Watering tubes shall be supplied for all semi-mature and extra heavy standard stock. To be 50mm diameter, black land flex perforated land drainage pipe with suitable rubber/plastic bung.

Tree Pits: Tree pits should be excavated to the following dimensions:

□ Semi-mature trees and conifers	2000mm square x 1000mm deep
□ Extra heavy/heavy standard trees	1200mm square x 800mm deep
□ Standard and large feathered trees	900mm square x 600mm deep
□ Small feathered trees	600mm square x 450mm deep
□ Transplants	450mm square x 450mm deep

2.4 Shrubs: All shrubs will be supplied in accordance with the plant schedules by named nurseries. Shrub pits to be excavated to allow a 75mm clearance around the edges of the root system. Sides and bottom of pits shall be loosened to receive any compaction. Backfill for each plant to include 50g of SA1 Enmag.

Bark mulch shall consist of FSC approved matured British conifer bark with an even particle size distribution between 5-35mm. The mulch to be Melcourt 'Ornamental Grade Bark Mulch' or similar approved, and a representative sample of the mulch shall be supplied or approved prior to delivery to site.

2.5 Transplants: All small feathered trees and transplants shall be planted in a pit 250mm diameter by 300mm depth, to accommodate fully the outstretched spread of roots. Backfill with excavated topsoil and gently firm in place. Ensure plants are planted to level of nursery mark.

Plants to be evenly spaced and grouped in accordance with proportion of mix in small irregular blocks to give a 'natural' appearance, avoiding straight lines.

All transplants to be fitted with rabbit guards of an appropriate diameter. To be 12mm square plastic mesh tree guards, 600mm high in black, brown or green, fixed with soft wood stake

2.6 Hedgerows: Following erection of post and wire stockproof fence, plant a staggered row of hedge plants.

2.7 Turfing: Turf to be Tilers 'Arena', supplied to BS3969. Pre-turfing fertilizer to be Fisons 'PS5' applied at a rate of 70g/m². The turves will be laid with half lapped joints and well butted up.

2.8 Grass seeding: Grass seeding shall be carried out in accordance with BS4428: 1969 (19) and AMD 938 (1972). Pre seed fertilizer Fison's PS5 (6:9:6) shall be applied at a rate of 70g/m². Seed shall be British Seed Houses A19 sown at a rate of 25g/m² in equal sowings in transverse directions.

3.0 Watering: All tree pits and shrub beds shall be thoroughly watered prior to application of mulch and subsequent maintained in a moist condition. Watering rates shall be as follows:

Advanced nursery stock trees	50 litres/tree
Shrub areas	30 litres/m ²

4.0 Maintenance: All areas to be maintained under installing contract for 12months post practical Completion, to provide optimum conditions for plant and grass growth and to present a clean and tidy appearance. All deaths and failures are to be replaced at the first horticulturally sound opportunity.

Typical Ornamental and Edible Shrub Garden Mix @various/m²:

Ornamental Shrubs:

Amelanchier canadensis	25L
Berberis darwinii	5L
Berberis 'Atropurpurea'	5L
Berberis 'Atropurpurea Nana'	5L
Buddleja davidii	5L
Cotoneaster sp.	5L
Cornus sp.	5L
Cytisus scoparius	5L
Erica cinerea	5L
Erica tatarica	5L
Escallonia macrantha	5L
Helianthemum nummularium	5L
Hebe sp.	5L
Hedera sp.	3L
Lavandula angustifolia	5L
Percovskia 'Blue Spire'	3L
Prunus 'Otto Luykers'	5L
Pyracantha coccinea	5L
Ribes odoratum	10L
Rosa 'Kent'	5L
Rosa 'Suffolk'	5L
Rosmarinus 'Miss Jessops Upright'	5L
Rubus 'Betty Asburner'	3L
Rubus aculeatus	5L
Sambucus nigra	5L
Ulex europaeus	5L
Viburnum tinus	5L

Edible plants:

Trees: M9 and MM106 rootstock
Apples- Rootstock varieties: Red Devil, Kidds Orange Red or Bakers Delicious and Red Falstaff
Blackcurrants: Ben Sareck 3L
Blackberry: Oregon Thornless 3L
Whitcurrants: White Versailles 3L
Redcurrants: Laxtons no 1
Strawberries: Mae (early), Marshmello, Silver Jubilee, Cambridge Vigour
Blue berries: Blue crop, Sunshine Blue

Soft Fruits:
Raspberries: Autumn Bliss, Joan J, All Gold, Mailing Admiral 3L
Blackcurrants: Ben Sareck 3L
Blackberry: Oregon Thornless 3L
Whitcurrants: White Versailles 3L
Redcurrants: Laxtons no 1
Strawberries: Mae (early), Marshmello, Silver Jubilee, Cambridge Vigour
Blue berries: Blue crop, Sunshine Blue

Typical Semi-Evergreen Hedging:
Planted in double staggered row @6/m² underplanted with Silene dioica P9 @6/m² in groups of 3-5

Carpinus betulus	BR 80-100 5L
Fagus sylvatica	BR 80-100 5L

Planning