

TOPSOIL CULTIVATION In accordance with BS 3882. Apply glyphosate herbicide prior cultivation and allow the recommended period before further action. Ensure ground is free draining by breaking up subsoil and installation of land drainage as required. Do not work the soil in frozen or waterlogged condition. Remove any debris and stones greater than 50mm from surface and cultivate to suitable tith for planting. Rake surface to achieve required level flush with adjacent paving for turf and 50mm below for planting to allow for mulch layer and smooth flowing contours for open space areas without hollows or soft areas. Topsoil depths to be minimum 150mm for grass and 450mm for planting and at least 300mm of suitable subsoil beneath the topsoil layer. Site topsoil to be supplemented with imported topsoil in accordance with BS 3882. Shrub beds in grass areas to be neatly cut to layout shown.

PLANTING Plant material shall conform to the National Plant Specification and be healthy, vigorous specimens, well rooted but not pot bound, free from pests and disease, hardy and undamaged by transport operations in accordance with HTA 'handling and establishing landscape plants'. Planting and turfing to be in accordance with BS 3936 and 4428. Plant species substitutes will be permitted to accommodate availability and to include stock of particular good quality in nursery provided these are of a similar habit, size, colour, value etc and that they are **approved in advance** by the Landscape Architect. Native species to be local provenance. Bare root and rootballed plants to be planted between November and March. Backfill of planting holes and tree pits to be excavated topsoil with 25% by volume tree and shrub planting compost. Shrub pits to be generally 300 x 300 x 300mm or 75mm wider and deeper than the root spread. Tree pits to be 900 x 900 x 600mm or 150mm wider than the root spread. Stakes to be two 75mm diameter pointed stakes driven until firm and trimmed to 900mm above G.L. with 50 x 100mm crossbar screwed to stakes. Rubber tree cushion nailed to crossbar and rubber tree belting nailed to secure tree. Single 75mm diameter stake for bare-rooted trees with rubber tree belting with spacer. Apply slow release fertiliser (16-10-10) at rate of 100g/ sq.m. to planting areas and 250g per tree. Thoroughly water planting.

PLANTING DENSITIES/ SETTING OUT Refer to the Planting Schedule for densities. Where a bed is indicated as mixed species on the plan, the area should be divided equally between the species shown and the relevant density for that species applied to that proportion of the bed. Taller species to the rear of the bed and smaller species to the front planted in bold groups of single species and not mixtures unless clearly requested on the plan annotations.

TREE RABBIT GUARDS If rabbit activity is noted in the area and guarding is authorised each bare-rooted native plant hedge plant to receive a 1214 weight 900mm cane and 60cm clear spiral guard. Trees to receive 90cm spiral guard. If extensive rabbit activity is observed rabbit fencing to ornamental areas will be required as directed by the Landscape Architect.

MULCH Spread 50mm layer of general purpose bark mulch, free from large sticks, and debris over all shrub areas. 800mm wide strips for hedging and 800mm diameter circles for tree pits in grass with neatly trimmed edge.

TURFING Following cultivation preparation specified above supply and lay Rolawn Hallstone turf or similar approved with staggered joints close butted to uniform levels to finish 25mm above adjacent paving levels once well tamped down. Use sharp sand spread on surface to achieve fine tuning of levels. Thoroughly soak turf on completion and ensure regular watering is arranged until the turf has rooted. Do not turf in waterlogged or frozen conditions.

SEEDING AMENITY GRASS. Following cultivation preparation specified above apply Boscotn Seeds BS Slow Grow and Wildflower Companion mix or similar approved at a rate of 35gms/ sq.m. and roll with quad or hand drawn ballast grass roller. Apply water with sprinkler hose in dry conditions to ensure germination. Levels to be flush with adjacent paving following firming and settlement of topsoil. Further stone-picking, top-dressing and re-seeding of bare patches to ensure uniform, level grass is established. Re-roll as required at first cut stage.

SEEDING WILDFLOWER GRASS. Preparation as for amenity grass followed by sowing Boston Seeds mixes at 5 gms/ sq.m. in accordance with suppliers recommendations between March and September and roll. Mix BS6M to margins of pond and wetland areas, BS7M alongside the native hedgerows, BS8M for the woodland margin and under-seeding to the woodland planting and BS1M for the open meadow areas and road/ path margins. Seeding applies to disturbed soil and re-graded areas only with existing vegetation being retained wherever possible to protect the existing habitats. Existing ruderal and herb areas to be cut and raked off in accordance with the landscape management for wildflower meadow grass. Cut 50% of the area in year 1 and 50% in year 2 to reduce the disturbance of wildlife.

LANDSCAPE MAINTENANCE. Any plants which fail within 5 years to be replaced in the season following failure to the original specification. Check and adjust stakes and ties every month, and remove stakes in year 5 when trees are suitably stable. Prune trees and shrubs once each year - formative prune to encourage good habit. Apply fertiliser once in Spring each year to grass 40gms/ sq.m. Apply fertiliser once in Spring each year to shrubs 20gms/ sq.m - Osmocote slow release. Top up bark mulch to 50mm depth annually. Check for pests and diseases - treat as required. Water as required all landscape areas. Mow grass 18 times annually and remove arisings, trim edges. Apply selective herbicide and moss killer to grass as required. Re-seed, top dress and aerate lawns as required to maintain grass in good condition. Cut and rake off wildflower grass twice annually. Collect litter from all landscape areas monthly. Apply Glyphosate herbicide to hard paved areas as required.

LEGEND

- Existing tree
- Existing hedge
- Existing woodland
- Existing scrub
- Existing native flora
- Proposed hedge
- Proposed tree
- Specimen shrub
- Proposed grass
- Proposed shrubs
- Wild flower grass
- Proposed native marginals
- Proposed native woodland (Mix 1)
- Proposed native woodland margin (Mix 2)
- Proposed wildlife pond
(Area regraded to create level perimeter. Max depth 90cm)
- Proposed localised mounding
(Formed with subsoil to maximum 1m above G.L.)
- Proposed informal wildlife walk path
(420m route with option for jogging/ trim trail)

Species rich native woodland margin planting to protect and extend the existing woodland habitat. Wildflower grass seeding beneath to further enhance the local biodiversity

Native Holly hedge to create some enclosure to the 6 smaller units with flowering Cherry trees flanking the entrance. Groups of native trees provide some natural screening of the units to views from the south-west. Grass area with Daffodils for Spring display

Wildflower grass seeding to the re-graded embankment to diversify the local habitat. Native woodland floor bulb and plug planting in informal groups. Feature planting as a focal point at the high profile entrance area with an arc of emergent specimens

Shade tolerant evergreen shrubs against the upstanding section of the retaining wall. Flowering shrubs and Whitebeam trees flank the exit area and provide some enclosure to the parking area

Native tree planting to supplement existing woodland trees with shrub and ground flora layers. Formal layout of contemporary timber planters flank the reception entrance with topiary Yew cones and trailing scented Rosemary. High quality paving to entrance area. Informal seating on planters. Sunny aspect seating for staff recreation area partially enclosed by planters. Option for more seating

Paved area for product display and potentially additional staff seating for recreational breaks

Low flowering shrubs creates enclosure for the car park and adds year-round colour interest

Existing remnants of hedgerow with occasional trees to receive infill planting to restore boundary

Cherry tree provide an early blossom display and enhances the local biodiversity

Native infill planting to former hedge remnants mitigates for loss of hedge for entrance formation

Mounding and reprofiling groundworks to be beyond the RPA's of the trees

Native woodland planting to extend the natural infrastructure and habitat

Wildflower grass seeding to all re-graded areas with pond marginals within 5m of the pond

Wildlife pond generally 50cm average depth with 25% of area to 90cm deep. Adds a new habitat.

native species emergent plants add wildlife and colour interest in views from the offices and walkers on the informal route around the grounds

Native woodland with informal tree groups on a low mound to 1m maximum height to form pond hollow. Natural screen helps to integrate the development with its landscape setting

Species rich native hedge to define the southern boundary and complete the site enclosure and connect with the existing hedges

Native species trees provide some natural screening to the development to reduce the potential landscape and visual impact

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MIX 1 (Woodland)

Plant name	Common name	% in mix	2500 stems/ Ha	0.25/ sq.m.	Specification
<i>Quercus petraea</i>	Sessile Oak	0.16			4080cm bare root
<i>Corylus avellana</i>	Hazel	0.20			4080cm bare root
<i>Betula pendula</i>	Silver Birch	0.10			4080cm bare root
<i>Sorbus aucuparia</i>	Rowan	0.10			4080cm bare root
<i>Ilex aquifolium</i>	Holly	0.10			30/40cm in C2 container
<i>Pinus sylvestris</i>	Scots Pine	0.04			30/40cm in C2 container
<i>Crataegus monogyna</i>	Hawthorn	0.04			4080cm bare root
<i>Acer platanoides</i>	Norway Maple	0.04			4080cm bare root
<i>Populus tremula</i>	Aspen	0.04			4080cm bare root
<i>Prunus padus</i>	Bird Cherry	0.04			4080cm bare root
<i>Prunus avium</i>	Gean	0.04			4080cm bare root
<i>Fagus sylvatica</i>	Beech	0.02			4080cm bare root
<i>Sorbus aria</i>	Whitebeam	0.02			4080cm bare root
<i>Tilia cordata</i>	Small Leaved Lime	0.02			4080cm bare root
<i>Ulmus glabra</i>	Whych Elm	0.02			4080cm bare root
<i>Viburnum opulus</i>	Geulder Rose	0.02			4080cm bare root
Total		1.00			

MIX 2 (Woodland Edge)

Plant name	Common name	% in mix	5000 stems/ Ha	0.5/ sq.m.	Specification
<i>Crataegus monogyna</i>	Hawthorn	0.20			4080cm bare root
<i>Corylus avellana</i>	Hazel	0.20			4080cm bare root
<i>Prunus spinosa</i>	Blackthorn	0.10			4080cm bare root
<i>Sorbus aucuparia</i>	Rowan	0.10			4080cm bare root
<i>Ilex aquifolium</i>	Holly	0.10			30/40cm in C2 container
<i>Acer campestre</i>	Field Maple	0.08			4080cm bare root
<i>Prunus padus</i>	Bird Cherry	0.05			4080cm bare root
<i>Prunus avium</i>	Elder	0.03			4080cm bare root
<i>Ulmus glabra</i>	Whych Elm	0.03			4080cm bare root
<i>Viburnum opulus</i>	Geulder Rose	0.03			4080cm bare root
<i>Malus sylvestris</i>	Crab Apple	0.02			4080cm bare root
<i>Rosa canina</i>	Dog Rose	0.02			4080cm bare root
<i>Taxus baccata</i>	Yew	0.02			30/40cm in C2 container
<i>Cytisus scoparius</i>	Broom	0.02			30/40cm in C2 container
<i>Malus sylvestris</i>	Crab Apple	0.02			4080cm bare root
Total		1.00			

HEDGES:

<i>Ilex aquifolium</i>	Holly	5/ linear metre average	Key	
<i>Ligustrum ovalifolium</i>	Golden privet		IAH	40/50cm bushy form in C3 contain
			LOH	40/60cm bushy form in C3 contain

HEDGE: Species rich native mix

Plant name	Common name	% in mix	Specification
<i>Crataegus monogyna</i>	Hawthorn	0.60	4080cm bare root
<i>Prunus spinosa</i>	Blackthorn	0.10	4080cm bare root
<i>Ilex aquifolium</i>	Holly	0.08	30/40cm in C2 container
<i>Corylus avellana</i>	Hazel	0.05	4080cm bare root
<i>Rosa canina</i>	Dog Rose	0.05	4080cm bare root
<i>Lonicera periclymenum</i>	Honeysuckle	0.05	4080cm bare root
<i>Sambucus nigra</i>	Elder	0.02	30/40cm in C2 container
<i>Viburnum opulus</i>	Geulder Rose	0.02	4080cm bare root
<i>Prunus padus</i>	Bird Cherry	0.02	4080cm bare root
<i>Acer campestre</i>	Field Maple	0.02	4080cm bare root
<i>Malus sylvestris</i>	Crab Apple	0.02	4080cm bare root
Total		1.00	

BULBS

<i>Hyacinthoides non-scripta</i>	Blue Bells	BB	6/8 bulb	20/ sq.m.
<i>Galanthus nivalis</i>	Snow Drops	SD	5/6 bulb	20/ sq.m.
<i>Narcissus pseudonarcissus</i>	Daffodil	N	10/12 bulb	15/ sq.m.

WOODLAND FLOOR PERENNIALS

<i>Anemone nemorosa</i>		AN	9 cm plugs	8/ sq.m.
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POND MARGINALS				
<i>Filipendula ulmaria</i>	Meadowsweet	20%	9 cm plugs	8/ sq.m.
<i>Iris pseudacorus</i>	Yellow Flag Iris	60%	9 cm plugs	8/ sq.m.
<i>Caltha palustris</i>	Marsh Marigold	20%	9 cm plugs	8/ sq.m.

TREES

<i>Alnus glutinosa</i>	Alder	AG	2.2-5m bare root
<i>Quercus petraea</i>	Sessile Oak	OP	8-10cm rootballed
<i>Betula pendula</i>	Silver Birch	BP	8-10cm rootballed
<i>Sorbus aucuparia</i>	Rowan	SA	8-10cm rootballed
<i>Pinus sylvestris</i>	Scots Pine	PS	40-60cm CS
<i>Crataegus monogyna</i>	Hawthorn	CM	2.2-5m bare root
<i>Prunus padus</i>	Bird Cherry	PP	2.2-5m bare root
<i>Prunus avium</i>	Gean	PA	8-10cm rootballed
<i>Fagus sylvatica</i>	Beech	FS	8-10cm rootballed
<i>Acer platanoides</i>	Norway Maple	AP	8-10cm rootballed
<i>Sorbus aria</i>	Whitebeam	SAR	8-10cm rootballed
<i>Tilia cordata</i>	Small Leaved Lime	TC	8-10cm rootballed
ORNAMENTAL TREES			
<i>Prunus Pink Perfection</i>		PPP	8-10cm rootballed

SPECIMEN SHRUBS

<i>Amelanchier lamarckii</i>		AL	CIS
<i>Syringa vulgaris</i>		SV	CIS
<i>Phormium Sundowner</i>		PS	CIS
<i>Phormium Yellow Wave</i>		PY	CIS
<i>Photonia Red Robin</i>		PR	CIS
<i>Taxus baccata</i>		TB	1-1.2m topiary cones C25

SHRUBS

	No./ sq.m.	Specification
<i>Bergenia cordifolia</i>	BC	5 C2 20-30cm
<i>Cornus alba Elegantisima</i>	CA	3 C2 30-40cm
<i>Cotoneaster dammeri</i>	CD	4 C2 30-40cm
<i>Cistus Silver Pink</i>	CS	3 C2 20-30cm
<i>Cytisus praecox All Gold</i>	CP	3 C5 30-40cm
<i>Euonymus Emerald Gaiety</i>	EE	4 C2 20-30cm
<i>Escallonia Red Elf</i>	ER	3 C2 30-40cm
<i>Geranium Johnsons Blue</i>	GJ	6 C2 20-30cm
<i>Hebe Marjorie</i>	HM	3 C5 30-40cm
<i>Hebe Blue Gem</i>	HB	3 C5 30-40cm
<i>Hebe Autumn Glory</i>	HA	3 C5 30-40cm
<i>Heuchera Palace Purple</i>	HP	6 C2 20-30cm
<i>Hypericum Hidcote</i>	HH	4 C2 20-30cm
<i>Lonicera Maigreen</i>	LM	3 C2 20-30cm
<i>Potentilla Goldfinger</i>	PG	4 C2 20-30cm
<i>Pyracantha rogersiana</i>	RP	3 C5 30-40cm
<i>Rosmarinus prostratus</i>	RP	4 C2 20-30cm
<i>Rudbeckia Goldstrum</i>	RG	6 C2 20-30cm
<i>Senecio Sunshine</i>	SS	3 C2 20-30cm
<i>Spiraea japonica Goldflame</i>	SJ	3 C2 20-30cm
<i>Vinca minor Atropurpurea</i>	VM	6 C2 20-30cm
<i>Viburnum davidii</i>	VD	3 C5 30-40cm

Rev C 27 06 23 Adjustment to entrance layout
Rev B 16 03 23 Removal of wildlife walk following neighbour comments
Rev A 01 02 23 Minor changes following client and Architect comments

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Westwood
landscape

CHARTERED LANDSCAPE ARCHITECTS
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CLIENT
Thomas Graham

DEVELOPMENT
St Thomas Cross Egremont

DRAWING
SITE LAYOUT

Landscape Plan

DRAWN BY BW DATE 27.01.23
STATUS: PLANNING SCALE 1:500 @ A1

DRAWING NUMBER WW/L01 REVISION C