



**KEY**

- Existing tree to be retained
- Existing shrubs and groups of trees
- Existing native hedge
- Existing new scrub planting
- Proposed tree
- Proposed ornamental planting
- Proposed native scrub planting
- Proposed native hedge
- Proposed grass
- Proposed wildflower grass

**TREES**

Species	Form	X transplanted	Height cm	Root condition
Acer campestre	Std	2	8-10	250-300 RB
Alnus glutinosa	Std	2	8-10	250-300 RB
Fagus sylvatica	Feather	2	-	200-250 15lt
Fraxinus excelsior	H Std	3	12-14	350-425 RB
Populus tremula	Std	2	8-10	250-300 B
Prunus padus	H Std	3	12-14	350-425 RB
Quercus robur	Feather	2	-	200-250 15lt
Sorbus aria	Feather	2	-	200-250 B
Acer platanoides	EHS	3	14-16	425-600 RB
Alnus cordata	EHS	3	14-16	425-600 RB
Betula jaquemonitii	EHS	-	14-16	425-600 75lt
Liquidambar styraciflua	EHS	-	14-16	425-600 75lt

**NATIVE HEDGE**

Species	Height/Spread cm	Age / X transplanted	Form
Corylus avellana (10%)	40-60	1+1	Transplant
Crataegus monogyna (70%)	40-60	1+1	Transplant
Euonymus europaeus (5%)	40-60	1+1	Transplant
Prunus spinosa (10%)	40-60	1+1	Transplant
Viburnum opulus (5%)	40-60	1+1	Transplant

**NATIVE SHRUB PLANTING**

Species	Height/Spread cm	Age / X transplanted	Form	Pot size	Planting cts (m)
Cornus sanguinea	40-60	1+1	Transplant	-	1.5
Corylus avellana	40-60	1+1	Transplant	-	1.5
Crataegus monogyna	40-60	1+1	Transplant	-	1.5
Euonymus europaeus	40-60	1+1	Transplant	-	1.5
Ilex aquifolium	40-60	-	Bushy	3lt	1.5
Ligustrum vulgare	40-60	1+1	Transplant	-	1.5
Rosa canina	40-60	1+1	Transplant	-	1.5
Viburnum opulus	40-60	1+1	Transplant	-	1.5

A	8.5.09	Minor amendments, labels added	TG
REV	DATE		BY
			CHKD



**GENERAL PLANTING SPECIFICATION**

NOTE: These implementation and maintenance guidelines are for planning purposes only to indicate the level of workmanship to be specified and do not constitute a detailed specification.

**GENERAL**

All plants shall conform to BS 3936 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting shall not be carried out when the ground is waterlogged, frost bound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water-retained polymer. Recommended topsoil depths are 150mm for grass and 450mm for shrubs. If topsoil depths are inadequate the contractor should inform the contract administrator.

**1.0 TREES AND SHRUB**

**1.1 Ground Preparation**  
Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period as recommended by the manufacture for this to be effective. A general purpose slow release fertiliser at the rate of 75gms/sqm and Tree Planting and Mulching Compost at the rate of 20lt/sqm are to be incorporated into the top 150mm of topsoil during final cultivations. All extraneous matter such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site. Tree pits to the specified size are to be excavated and the base broken up a further 150mm with the sides well scarified to prevent smearing.

TREE SIZE	TREE PIT MM	TPMC lts	ENMAG gms
Fhd/H/St/L/Std	1200x1200x400	80	100
SStd/Hv/St/EH/Std	2000x2000x400	80	100

All trees are to be protected with spiral rabbit guards and supported with 75mm diameter stakes. Full height stakes (1.8 above GL) used for 'whippy' species, stump stakes (600mm above GL) used for the rest; Single stakes for bare rooted (B) stock and Double stakes for rootballed (RB) stock. Stakes shall be driven 500mm into undisturbed ground before planting the tree, taking care to avoid underground services, cables etc.

**1.2 Planting**  
Shrubs are to be pit planted into the prepared soil at the specified centres with minimal disturbance to the rootball and well firmed in. Trees are to be placed into the pits and backfilled with topsoil incorporating slow release fertiliser and Tree Planting Mulch Compost as specified; Firm trees in well and secure with proprietary rubber ties and spacers. Water in all trees and shrubs at the end of each day of planting. Spread ornamental bark mulch to a depth of 75mm in a 1m diameter circle around the base of each tree in grass area and across all other planting areas.

**1.3 Maintenance**  
The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

The site is to be visited monthly throughout the year to undertake the following operations:  
**Weed clearance:** All planting areas to be kept weed free by hand weeding or herbicide treatment.  
**Litter clearance:** All litter is to be removed from planting beds.  
**Watering:** All trees are to be watered weekly from May to the end of September unless unnecessary due to heavy rain; Fhd/H/St/L/Std are to receive 10 gallons of water per tree and SStd/Hv/St/EH/Std are to receive 20 gallons of water. All shrubs are to be watered for the first two years from May to September following any dry periods of 7 days.  
**Checking trees:** All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chaffing is occurring. Any broken stakes are to be replaced.  
**Formative pruning:** Any damaged shoots/branches are to be pruned back to healthy wood. Plants are to be pruned in accordance with good horticultural practice to maintain healthy, well-shaped specimen.

**2.0 NATIVE HEDGE PLANTING**

**2.1 General**  
All plants shall conform to BS 3936 and be of the species and sizes shown in the plant schedule. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting shall not be carried out when the ground is waterlogged, frostbound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water retaining polymer. All stock to be of native provenance.

**2.2 Setting Out/Planting**  
The hedge line shall be set out using 38x38x1200 stakes and all herbaceous material within 500mm of the centreline shall be sprayed out using an approved herbicide at least two weeks before planting. A 600mm wide and 300mm deep trench shall be dug and the backfill mixed with 80lt/s TPMC and 100gms slow release fertiliser per 4 linear metres.

Native hedge: plants shall be set out in two rows 400mm apart and staggered at 400mm centres and notched or pit planted as appropriate. All native hedges shall be protected with a 600mm proprietary shelter secured with a stake/cane and ties as recommended by the manufacturer; Upon completion native hedge trenches to be mulched with 40mm layer of bark. All other hedge trenches to be mulched with 75mm layer of bark.

**2.3 Maintenance**  
Native and beech hedges shall be maintained to a height of 1.5m and a width of 2m. The hedge line shall be kept weed free throughout the maintenance period. Each Autumn during the first two years after planting the CA will prepare a list of all plants which are dead, dying or diseased and are to be replaced during the following planting season.

**3.0 NATIVE SHRUB TRANSPLANTS**

**3.1 General**  
All plants shall conform to BS 3936 and be of species and sizes shown in the plant schedule. All plants shall be packed and transported in accordance with the Code of Practice for Handling as produced by CPSE. Planting shall not be carried out when the ground is waterlogged, frostbound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water retained polymer. All stock to be of native provenance.

**3.2 Ground Preparation**  
The extent of the planting area shall be set out using 38x38x1200mm timber stakes at maximum 10m intervals. All herbaceous material within the proposed planting area shall be sprayed out using an approved herbicide at least two weeks before planting and the ground shall be cultivated to a depth of 150mm. A 600mm diameter circle shall be sprayed out at each planting station using an approved herbicide at least two weeks before planting.

**3.3 Planting**  
Proposed native shrub planting is to be planted on an informal 1.5m grid. To avoid straight lines each planting station can be moved up to 300mm in any direction. All stock to be protected from rabbit damage using approved proprietary rabbit guards for trees and 600x200mm shrub shelters, secured with stakes and ties as advised by the manufacturer

**3.4 Maintenance**  
Using approved herbicides a 1m diameter circle centred on each planting station shall be kept weed free throughout the two year maintenance period. Each Autumn during the first two years after planting the CA will prepare a list of all plants which are dead, dying or diseased and are to be replaced during the following planting season.

**4.0 AMENITY GRASS SEEDING**

Amenity grass seed shall be A21 Mix/British Seed Houses. Sown at a rate of 40g/sqm.

**4.1 Preparation for seeding**  
During any fallow period prior to sowing, the tilth shall be maintained free from weeds. No seed shall be sown until the cultivation and preparatory works have been completed. Areas of existing grass and weeds shall be sprayed out with a glyphosate based herbicide no less than 24 hours prior to cultivations to create a stale seed bed. Areas to be seeded shall be cultivated to a depth of 100mm, and all weeds, deleterious material and stones exceeding 25mm diameter removed. Areas to be seeded shall have an even surface, be lightly consolidated and raked to a fine tilth to receive the seed, incorporating the pre-seeding fertiliser at a rate of 35 g/sqm to all general reinstatement seeding areas.

**4.2 Sowing**  
Sowing shall be carried out during calm, weather and not when the ground is frost bound or waterlogged, and shall be undertaken during April. Any failures due to neglect and especially seeding out of season shall be the responsibility of the contractor. Seed shall be sown in two equal sowings in transverse directions at the rates as specified. After sowing the contractor shall lightly rake the seed into intimate contact with the soil.

**4.3 Initial cut**  
When the newly seeded areas reach 50mm they should be rolled and after 24 hours cut to a height of 30mm. All arisings shall be removed from site. General seeded areas shall be cut a second time when they again reach 50mm.

**4.4 Maintenance:**  
Meadow shall be cut every fortnight from April until October and all cuttings be taken off site.

**5.0 WILDFLOWER MEADOWS**

For Building cover use Lindum 'Green Roof Wildflower Mix' in biodegradable grass mats. For all other areas Lindum LW6 Wildflower Mix for Landscaped areas sown as per manufacturers specification (tel: 01904 448675)

**5.1 Ground Preparation**  
All areas of existing grass to be over seeded with wildflowers shall be heavily scarified to create areas of bare earth prior to seeding with wildflower only mixes. Newly created and disturbed areas to be seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface shall be raked to smooth flowing contours with a fine tilth.

**5.2 Seeding**  
Wildflower meadows shall be sown in April/October during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in transverse directions - at 4 gms/sqm for bare soil with wildflower and grasses mixes and - at 2gms/sqm with wildflower only mixes where overseeding existing grass.

**5.3 Maintenance**  
Meadow shall be cut in the spring if required and once in autumn after plants have shed their seeds; cuttings to be removed from site.

**ORNAMENTAL SHRUBS AND GROUND COVERS**

Species	Height/Spread cm	Pot size (Litres)	Habit	Min No breaks	Planting cts (m)
Amelanchier lamarkii	80-100	10lt	Branched	6	Spec
Ceanothus thys. repens	30-40	3lt	Bushy	5	1.5
Choisya ternata	30-40	3lt	Bushy	4	1.0
Cistus corbariensis	30-40	3lt	Bushy	4	3.0
Cornus alba 'Elegantissima'	40-60	3lt	Branched	4	1.5
Cotinus coggygria 'Velvet Cloak'	40-60	10lt	Branched	5	Spec
Cotoneaster microphyllus	30-40	3lt	Bushy	3	1.5
Elaeagnus ebbingei	60-80	5lt	Branched	4	1.0
Euonymus 'Emerald and Gold'	20-30	3lt	Bushy	7	5.0
Euonymus 'Emerald Galety'	20-30	3lt	Bushy	7	5.0
Fatsia japonica	60-80	10lt	Leader	-	Spec
Hebe rakienis	20-30	3lt	Bushy	5	3.0
Hedera helix Hibernica	30-40	1lt	Sev shoots	3	5.0
Hydrangea Hidcote	30-40	3lt	Bushy	5	2.0
Lavandula Munstead	20-30	3lt	Bushy	5	5.0
Lonicera Maygreen	30-40	3lt	Bushy	6	3.0
Osmanthus burkwoodii	40-60	5lt	Bushy	5	1.0
Phormium tenax	60-90	10lt	Double crown	-	Spec
Photinia Red Robin	40-60	5lt	Branched	7	1.0
Prunus Otto Luyken	30-40	3lt	Bushy	3	2.0
Pyracantha rogersiana	40-60	3lt	Leader + lats	4	1.0
Rubus 'Betty Ashburner'	30-40	2lt	Branched	3	4.0
Senecio Sunshine	30-40	3lt	Branched	4	1.5
Spiraea Anthony Waterer	30-40	3lt	Branched	6	3.0
Spiraea Snowmound	30-40	3lt	Branched	4	3.0
Symphoricarpos Hancock	40-60	3lt	Branched	5	1.0
Viburnum burkwoodii	60-80	10lt	Branched	5	Spec
Viburnum davidii	30-40	5lt	Bushy	4	2.5
Viburnum tinus Eve Pice	40-60	5lt	Bushy	5	1.5
Vinca minor	20-30	2lt	Spreading	-	5.0

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Project  
**Wroxton - Phase two**

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Client  
**Apollo Business Park**

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Title  
**Proposed Landscape Plan**

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Scale	Date	Drawn	Checked
1:250	Apr 09	MK	TG
Drawing no.	2318-003		Revision
			A

A1 Original