# LANDSCAPE SPECIFICATION

## SITE PREPARATION

Clearance of surface vegetation: Clearance of surface weeds and vegetation from the hedgerow strips to be undertaken by a programme of chemical control. Chemical control will be required to control any further re-growth of vegetation that occurs during the Landscape Contract and initial 3-year aftercare period.

Topsoil shall be that which is currently in situ. During the works, the topsoil shall be kept free from compaction,

# contamination and weeds.

**Groundworks/General Cultivation** Cultivation shall not be undertaken within the root protection area of any trees to be retained, without prior agreement from the Local Planning Authority. Topsoil shall be cultivated by hand or machine prior to planting, with minimal compaction by machine. Cultivate to a medium tilth to the following depth and tilth, removing all rubbish, vegetation, perennial weeds, roots, stones over 75mm in any one dimension and rake to even levels.

Hedgerow Planting Areas: 300mm deep cultivation to medium tilth

#### PLANTING Plant Stock and Timing

Plant material and operations shall conform to BS 3936 Nursery Stock (Parts 1-10), BS 4428: 1989, BS 4043: 1989 and BS 5837: 2012. The planting season shall be from the 1st October to the 31st March. Container grown stock may be planted outside this season if accompanied by daily watering, or as necessary to ensure healthy establishment. Planting shall not be carried out during periods of frost, drought, cold drying winds or when the soil is waterlogged or frozen.

#### Plants generally: • Plants are to be materially undamaged, sturdy, healthy, vigorous, of good shape and without elongated shoots.

• Grown in a suitable environment and hardened off. • Free from pests, diseases, discoloration, weeds and physiological disorders. • With balanced root and branch systems, root system and condition in accordance with the relevant part of the National Plant Specification.

True to name.

#### Transplants and Container Grown Stock: 1 + 1 transplants as scheduled.

• Bare rooted stock shall be in a healthy condition with good fibrous root system.

## Labelling and Information:

Provide each bundle of transplants of a single species with supplier's labelling for delivery to site, showing the full botanical name and number of plants per bundle.

Supply of Plants: Unless specified otherwise, obtain transplants and container grown stock from suppliers listed in the Horticultural Trades Association Nursery Certification Scheme.

#### Substitutes: If specified plants are unobtainable or known to be likely to be unobtainable at the time of ordering, submit alternatives to the CA, stating price and how they differ from the specification. Such substitutions may not be acceptable and submission of further alternatives may be required. Obtain approval before making any substitution.

Delivery: The contractor shall give the CA five days' written notice of the delivery of plant material to site and. the commencement of planting operations.

- Handling Storage and Transport: • Comply with CPSE 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part I, Part II and Part III, paragraphs 1.3.3 to 1.3.6, 3.0, and 4.0.
- Protect plants from frost. • Pack transplants in coextruded polythene bags.

• Handle plants with care. Protect from mechanical damage and do not subject to shock, e.g. by dropping from a vehicle.

#### Unpacking: • Upon arrival at the site, all bare rooted transplants shall be unpacked within 25 hours, unless they are to be planted within 48 hours. Transplants shall be broken out of bundles and heeled in friable soil and the roots kept moist

# Planting generally:

• Comply with CPSE 'Handling and establishing landscape plants' (obtainable from the Horticultural Trades Association) Part III, paragraphs 6.2 to 6.6. • Plant upright or well balanced with best side to front.

- Surplus Materials:
- All surplus materials including subsoil, stones, debris, wrapping material, canes, ties, temporary labelling and pruning's to be removed from site.

# PREPARATION FOR PLANTING

Herbicide: Hedge Planting Strips: Prevent weeds from seeding and perennial weeds from becoming established, by removal of weed growth, by hand or by spot application of a suitable herbicide, Glyphosate or equivalent approved, to provide a weed free planting site. Allow period of time to elapse as recommended by manufacturer before cultivation.

# **Mulching of Woodland Compartments:**

Prior to the application of mulch, the woodland planting areas shall be completely weed free and watered sufficiently to achieve field capacity.

- Mulch is to be free of pests, disease, fungus and weeds. • Clear all weeds and mulch to maintain a depth of not less than 75mm after settlement.
- Mulch is to have over 80% wood content with a particle size of 25-90mm, Screened Wood Chip, supplied by: Material Change Ltd: Tel No. (01449) 721729 or similar approved

### Planting of Transplants & Container Grown Stock to Hedgerow Strips

## Services and Safety:

- CAT scanning will be required; evidence of operator training will be required.
- Check for below and above ground services, including land drainage, in the vicinity. Inform CA if they may be affected and obtain instructions before proceeding. • Comply with Forestry and Arboriculture Training and Safety Council Safety Guides.

**Existing Trees:** Retain existing trees unless instructed otherwise.

Notch Planting Transplants and incorporating compost: • 2L of compost to be incorporated into topsoil for each transplant or container grown plant. When planting transplants some compost should be spread on the surface, prior to notch planting, to ensure that some of the compost is taken into the notch during planting operations.

- Make a vertical 'I', 'L', 'T' or 'H' notch with a special spade or mattock, deep enough to accommodate full depth of roots.
- Plant transplants with the root collar at ground level and firm the soil.
- Compost to be 'Topgrow ' peat-free tree and shrub planting compost, supplied by: Melcourt Ltd, Tel. no. 01666 502711, or equivalent approved.

### SETTING OUT

Delineation of areas to be planted: All areas to be planted with new hedgerows will be delineated on site prior to planting.

# Setting Out: Hedgerows:

• Plant at 5 plants/linear metre in double staggered rows as shown on this drawing. • Plant in single species odd number groups of 3 to 9 of the same species,

### Planting

All planting that is within the root protection area of existing trees shall be undertaken by hand and positions altered should tree roots be encountered, in order to avoid damage to the root systems.

All plants shall be set out evenly over the hedgerow strips as indicated, to the density and quantities shown. All plants shall be planted upright at the same depth as the nursery soil level and evenly spaced, leaving room for growth. All restrictive containers shall be removed with roots not twisted. Immediately following planting, all plants shall be watered-in to field capacity.

Container grown plants shall be planted in a planting pit sufficient to accommodate the plant without causing root damage, with a minimum of 50mm backfill beyond the root ball extent. Plants to be firmed, watered-in and dead, damaged or lopsided branches shall be removed after planting. Bare-root plants shall be slit planted, incorporating an approved high phosphate, slow-release fertilizer.

#### PROTECTION Rabbit proof fencing:

Rabbit fencing shall consist of 1200mm x 31mm mesh galvanized wire netting on two 2.5mm line wires, 900mm high with 150mm buried below ground 150mm down and turned outwards from the protected area. The fence to be supported by 75mm diameter treated softwood posts at 4m centres and driven 700mm into firm ground or set in concrete footings if the ground is very weak, with straining posts and struts at corners as for standard wire fences.

#### AFTERCARE PERIOD Regular Visits

Maintenace shall be carried out in accordance with the LEMP Report for this project. All arisings shall be carted away and the site shall be left clean and tidy at all times.

# Watering

All planting and grass areas shall not be allowed to dry out and shall be kept well watered during the growing season, ensuring the soil is kept moist at all times but avoiding waterlogging.

## Replacement Planting

During each August within the Aftercare Period an inspection shall be made and all plants that have died, are missing, damaged or have failed to thrive shall be noted and replaced in the following planting season.



																	1
Qty	Name	Age	Height	Form	Root	Cntr	%	Centres (m)	Qty	Name	Age	Height	Form	Root	Cntr	%	Centres (m)
240	Acer campestre	1/1	60-80cm	Transplant	В		15.00 %	0.200	36	Cornus sanguinea	1/2	60-80cm	Transplant	В		15.00 %	1.000
161	Corylus avellana	1/1	40-60cm	Transplant	В		10.00 %	0.200	36	Corylus avellana	1/2	60-80cm	Transplant	В		15.00 %	1.000
402	Crataegus monogyna	1/1	60-80cm	Transplant	В		25.00 %	0.200	36	Crataegus monogyna	1/1	60-80cm	Transplant	В		15.00 %	1.000
321	Ligustrum vulgare	1/1	60-80cm	Transplant	В		20.00 %	0.200	12	Euonymus europaeus	1/2	60-80cm	Transplant	В		5.00 %	1.000
127	Malus sylvestris	1/1	60-80cm	Transplant	В		8.00 %	0.200	12	llex aquifolium		60-80cm		С	3L	5.00 %	1.000
161	Prunus spinosa	1/1	60-80cm	Transplant	В		10.00 %	0.200	60	Ligustrum vulgare	1/1	60-80cm	Transplant	В		25.00 %	1.000
111	Sambucus nigra	1/1	60-80cm	Transplant	В		7.00 %	0.200	24	Viburnum lantana	1/2	60-80cm	Transplant	В		10.00 %	1.000
81	Viburnum opulus	1/1	40-60cm	Transplant	В		5.00 %	0.200	24	Viburnum opulus	1/2	60-80cm	Transplant	В		10.00 %	1.000
1604									240								

.EGEND		SPECIFICA
	Existing trees and vegetation retained	Areas of public ope
÷	Proposed tree planting (see Landscape Masterplan for details)	<b>Backfilling with Su</b> For areas to be ser selected subsoil ar stones over 75mm
	Proposed native hedge mix	<b>Topsoil:</b> Existing topsoil sha topsoil shall be BS proportion of fertile growth. The maxir
	Proposed EL1 seed mix (Flowering Lawn Mix)	heaps, not exceed topsoil heaps shall <b>Cultivation:</b>
	Proposed EM3 seed mix	Cultivation shall no meadow seed mixe all rubbish, vegetat EM3, EM8 & EM10
		150mm deep cultiva
	Proposed semi-improved tussock grassland Emorsgate EM10 to the banks of the SuDS Basin	EM3 & EL1 GrassI For un-excavated a hedgerows) cultiva grassland mix EM3
* <b>EM8</b> * *	EM8 mix in the base of SuDS basin	<b>EL1 Flowering Law</b> Areas of public oper periods of suitable operations. Lightly practise to ensure e
Marine	Delineates transition in wildflower grassland mixes	is well established. <b>EM3, EM8 Meadov</b> Areas of meadow September to Octo
	Riparian Zone. See LEMP for maintenance proposals	5g/m <sup>2</sup> or as specifi horticultural practice
	Proposed native shrub planting	The maintenance of and long-term object
	1.1m high galvanised steel bow-top fencing	<b>EL1 – FLOV</b> From Emorsgate s <i>Wild Flowers</i> <i>% Latin name</i> 4 Galium verun
	Timber knee rail	<ul> <li>0.5 Leontodon hi</li> <li>1 Leucanthemu</li> <li>3.7 Lotus cornicu</li> <li>3 Primula veris</li> <li>4 Prunella vulg</li> <li>3.5 Ranunculus a</li> </ul>
<del>0</del> 00	Maintenance access gate	0.3 Trifolium prat 20 Grasses
	Breedon self-binding gravel path	<ul> <li><i>Latin name</i></li> <li>Agrostis capi</li> <li>Cynosurus cr</li> <li>Festuca rubra</li> <li>Phleum berto</li> </ul>
	Mown path - existing	Sowing Rates <b>kg/ha kg/acr</b> o 40 16
	Mown path - proposed	EM3 – SPE From Emorsga
0	Circular picnic bench	Wild Flowers % Latin name 0.4 Achillea mill 0.4 Agrimonia e 0.1 Anthyllis vul 0.1 Betonica off
	Shallow mounding	<ul> <li>3.7 Centaurea r</li> <li>2.5 Centaurea s</li> <li>1.5 Daucus caro</li> <li>1 Galium albu</li> <li>0.2 Knautia arve</li> </ul>
ς́ІВ	Interpretation board (ecology)	3.2 Leucanthem 0.2 Medicago lu 0.1 Origanum v 0.4 Pastinaca s 0.6 Poterium sa
$\bigcirc$	Location of burial mound and outer ditch	$\begin{array}{cccc} 2.6 & \text{Prunella vul} \\ 2.6 & \text{Prunella vul} \\ 0.2 & \text{Ranunculus} \\ 0.2 & \text{Rumex acet} \\ 0.1 & \text{Silaum silau} \\ 2 & \text{Silene vulga} \\ 0.5 & \text{Torilis japor} \\ \hline \overline{20} \end{array}$
		Grasses % Latin name 8 Agrostis cap 28 Cynosurus o 24 Festuca rub 4 Phleum bert 16 Poa pratens 80
		ou Sowing Rates <b>kg/ha</b> 40
0 – TUSSO(	CK MIXTURE	EM8 – MEA

## EM10 – TUSSOCK MIXTURE From Emorsgate Seeds (www.wildseed.co.uk) or similar approved

5	Latin name	Cor
5	Agrimonia eupatoria	Agri
2	Arctium minus	Less
4	Centaurea nigra	Con
1	Centaurea scabiosa	Gre
5	Chaerophyllum temulum	Rou
1	Cirsium eriophorum	Woo
1	Cruciata laevipes	Cros
0	Dipsacus fullonum	Wild
5	Filipendula ulmaria	Mea
0	Galium album – (Galium mollugo)	Hed
0	Leucanthemum vulgare	Oxe
0	Malva moschata	Mus
0	Ranunculus acris	Mea
1	Silene dioica	Red
5	Silene latifolia	Whit
5	Silene vulgaris	Blad

ulgans

#### 1.0 Alopecurus pratensis 16.0 Cynosurus cristatus 16.0 Dactylis glomerata 4.0 Deschampsia cespitosa 24.0 Festuca rubra 1.0 Holcus lanatus 10.0 Schedonorus arundinaceus 8.0 Schedonorus pratensis

Sowing Rates kg/ha kg/acre

ommon name rimony sser Burdock mmon Knapweed eater Knapweed ugh Chervil oly Thistle osswort d Teasel adowsweet dge Bedstraw eye Daisy – (Moon Daisy) isk Mallow adow Buttercup d Campion nite Campion Bladder Campion Upright Hedge-parsley Tufted Vetch

Meadow Foxtail (w) Crested Dogstail Cocksfoot Tufted Hair-grass (w) Strong-creeping Red-fescue Yorkshire Fog (Festuca arundinacea) – Tall Fescue (w) (Festuca pratensis) – Meadow Fescue

Subsoil:

nall be stripped before building works begin (IMPORTANT NOTE: but not within the RPAs of existing trees or hedgerows). Imported BS3882:2007 Specification for Topsoil and Requirements for Use. Topsoil shall be multi-purpose grade, of medium texture, with a high ile loamy material. It shall be free from subsoil, rubbish, rubble, contamination, roots of perennial weeds and other materials injurious to plant iximum stone content of the soil shall be 20%, with the maximum size of stone 25mm in any one dimension. All topsoil shall be stacked in eding 2m high and 4m wide. Loose tip and shape from the side only, without running machinery on the heap at any time. During storage, Il be kept free from compaction, contamination and weeds.

not be undertaken within the root protection area of any tree/shrubs to be retained. Topsoil (in relation to mix EL1) and Subsoil (in relation to xes EM3, EM8) shall be cultivated prior to planting, with minimal compaction by machine. Cultivate to the following depths and tilth, removing ation, perennial weeds, roots, stones over 25mm in any one dimension and rake to even levels.

10 Seed Mixtures & EL1 Grassland Mix Areas: ivation to medium tilth raked to a smooth, evenly firmed bed.

sland Mix Areas: I areas which are to be seeded with meadow grassland mixes the existing topsoil shall be (other than within the RPAs of existing trees or vated to turn the soil over to a depth of 300mm to bring subsoil to the surface. Elsewhere, excavated areas that are to be seeded with meadow M3 is to be backfilled to finished levels with subsoil (and for EL1 mix, with additional topsoil).

awn Mixture Amenity Area Grass: Seeding: pen space amenity grass shall be seeded with EL1 Flowering Lawn Mixture during the period March to May or September to October, during e warm and moist weather conditions. Seed shall be sown on even, prepared ground (as detailed above), at a rate of 4g/m<sup>2</sup>, in two transverse tly roll seed bed after sowing. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good horticultural establishment of a healthy grass sward. On completion of seeding and turfing erect and maintain a temporary protective fence until the grass

Grass Cutting:

### WERING LAWN MIXTURE seeds (www.wildseed.co.uk) or similar approved

rom	Emorsgate seeds (ww
/ild 1 5 .5 .7 .3 0	Flowers Latin name Galium verum Leontodon hispidus Leucanthemum vulgare Lotus corniculatus Primula veris Prunella vulgaris Ranunculus acris Trifolium pratense
rass 5 0 8 0	ses <b>Latin name</b> Agrostis capillaris Cynosurus cristatus Festuca rubra Phleum bertolonii
owii <b>g/ha</b> 0	ng Rates <b>a kg/acre g/m2</b> 16 4
	3 – SPECIAL O n Emorsgate seeds
/ild	Flowers

Vild Fl	lowers
6	Latin name
.4	Achillea millefolium
.4	Agrimonia eupatoria
.1	Anthyllis vulneraria
.1	Betonica officinalis
.7	Centaurea nigra
.5	Centaurea scabiosa
.5	Daucus carota
	Galium album - (Galiu
.2	Knautia arvensis
.2	Leucanthemum vulgar
.2	Medicago lupulina
.1	Origanum vulgare
.4	Pastinaca sativa
.6	Poterium sanguisorba
.6	Prunella vulgaris
.2	Ranunculus acris
.2	Rumex acetosa
.1	Silaum silaus
	Silene vulgaris
.5 0	Torilis japonica
0	
Grasse	es

apillaris s cristatus ıbra ertolonii isis

kg/acre

% 0.5 0.4 1 3 0.5 0.5 1.8 0.2 1 0.5 0.4 0.5 0.4 0.8 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 1.8 0.2 1 0.5 0.4 0.5 0.5 1.8 0.2 1 0.5 0.4 0.5 0.5 1.8 0.2 1 0.5 0.4 0.5 0.5 1.8 0.2 1 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Latin name Achillea millefolium Achillea ptarmica Betonica officinalis Centaurea nigra Filipendula ulmaria Galium verum Geranium pratense Leontodon hispidus Leucanthemum vulgare Lotus pedunculatus Plantago lanceolata Primula veris Prunella vulgaris Ranunculus acris Rhinanthus minor Rumex acetosa Sanguisorba officinalis Silaum silaus Silene flos-cuculi Succisa pratensis Taraxacum officinale Vicia cracca
Grass % 10 3 3 24 2 32 32 3 80 Sowir <b>kg/ha</b> 40	Latin name Agrostis capillaris Alopecurus pratensis Anthoxanthum odoratu Briza media Cynosurus cristatus Deschampsia cespitosa Festuca rubra Hordeum secalinum

0.5 Torilis japonica 3.0 Vicia cracca Grasses 80%

# ATION FOR THE CREATION OF NEW 'GRASSLAND HABITAT' WITHIN POS AREAS

pen space to be prepared and cultivated and sown with the specified seed mixes at the specified sowing rates for each area.

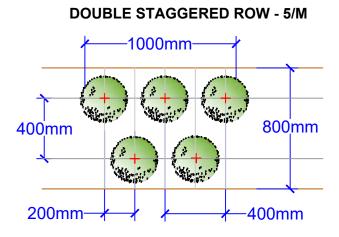
seeded with EM3 & EM8 meadow mixes, where existing ground levels are lower than the required depth, excavations shall be backfilled with and lightly consolidated to make up levels. Selected subsoil shall be friable, second quality topsoil or similar and be free of rubbish, roots, m in any one dimension, perennial weeds or other materials injurious to plant growth.

## ow Seed Mix Areas & EM10 Tussock Mixture Grass Mix: Seeding:

mixture grassland shall be seeded with EM3 & EM8 seed mixes suitable for the soil type as specified, during the period March to May or tober, during periods of suitable warm and moist weather conditions. Seed shall be sown on prepared ground (as detailed above), at a rate of ified. Lightly roll seed bed after sowing. Water as necessary to avoid shrinkage and achieve satisfactory establishment. Undertake good tice to ensure establishment of a healthy wildflower grass sward.

e of the new areas will be subject to the detailed maintenance clauses within the LEMP Management Plan Report which will set out the short ectives for maintenance of the areas of public open space.

> Common name Lady's Bedstraw Rough Hawkbit Oxeye Daisy - (Moon Daisy) Birdsfoot Trefoil Cowslip Selfheal Meadow Buttercup Wild Red Clover



NATIVE MIX HEDGE PLANTING

Common name Common Bent Crested Dogstail Red Fescue Smaller Cat's-tail

#### GENERAL PURPOSE MEADOW MIXTURE s (www.wildseed.co.uk) or similar approved

Common name Yarrow Agrimony Kidney Vetch Betony Common Knapweed Greater Knapweed Wild Carrot ium mollugo) Hedge Bedstraw Field Scabious Oxeye Daisy - (Moon Daisy) Black Medick Wild Marjoram Wild Parsnip Salad Burnet Selfheal Meadow Buttercup Common Sorrel Pepper Saxifrage Bladder Campion Upright Hedge-parsley

> Common name Common Bent Crested Dogstail Red Fescue Smaller Cat's-tail Smooth-stalked Meadow-grass

g/m2

#### EM8 – MEADOW MIXTURE FOR WETLANDS From Emorsgate Seeds (www.wildseed.co.uk) or similar approved

Common name Yarrow Sneezewort Betony Common Knapweed Meadowsweet Lady's Bedstraw Meadow Crane's-bill Rough Hawkbit Oxeye Daisy - (Moon Daisy) Greater Birdsfoot Trefoil Ribwort Plantain Cowslip Selfheal Meadow Buttercup Yellow Rattle Common Sorrel Great Burnet Pepper Saxifrage Ragged Robin Devil's-bit Scabious Dandelion Tufted Vetch

Common name Common Bent

Meadow Foxtail (w) Sweet Vernal-grass (w) Quaking Grass (w) Crested Dogstail Tufted Hair-grass (w) Slender-creeping Red-fescue Meadow Barley (w)

E Tree planting updated; bund added MLN 28.04.23 MLD 28.04.23 D Revisions C Amended wildflower mix MLD 20.06.22 B New layout; additional planting MLN 21.05.21 added. A Changes to attenuation basin. MLD 14.04.21 Issue Revision Initial Date natt lee NDSCAPE ARCHITECTURE 9, The Street, Manuden, Bishop's Stortford, Herts CM23 1DD email: matt@ml-landarchitecture.com office: 01279 819195 Project Land east of Loraine Way Bramford, Suffolk Client Bellway Homes (Essex) Ltd Title PLANTING PROPOSALS FOR PUBLIC **OPEN SPACE & SHOWING THE EXTENT** OF MANAGED AREAS OF OPEN SPACE Scale 1:1000@A0 Date FEB 2021

Job No. Drawing No. Rev. PR209 04 E © Copyright Matt Lee Landscape Architecture Limited