

LANDSCAPE SPECIFICATION

GENERAL

1. All planting to comply with BS3936 relevant parts for Nursery Stock
2. All pre-planting, site preparation, planting and post planting maintenance shall be carried out in accordance with BS4428:1989 Code of Practice for General Landscape Operations
3. All trees shall be positioned in accordance with BS5837:2012 Trees in Relation to Design, Demolition and Construction and BS 8545:2014 Trees: from nursery to independence in the landscape - Recommendations

LANDSCAPE IMPLEMENTATION

SCHEDULE OF IMPLEMENTATION

The landscape reinstatement shall be carried out in the first available season after completion of construction

- a) Soiling during April - October
- b) Turling during April - September when there is no risk of frost
- c) Seeding during April to September when there is no risk of frost
- d) Planting of trees and hedge plants during October - March
- e) Planting of shrubs, herbaceous plants can be undertaken throughout the year, when weather and ground conditions are suitable.
- f) Wildflower seeding late August to end of September

GROUND PREPARATION

1. Topsoil and sub-soil outside the Root Protection Area of trees that are retained, that is suitable for re-use in reinstatement, will be stripped before construction and stored on site.
 2. All soiling works will be carried out in accordance with DEFRA Construction Code of Practice for the Sustainable Use of Soils on Construction Sites and British Standards for Topsoil (BS3882:2015) and Subsoil (BS8601:2013) for the stripping, handling, storage and spreading of soils.
- At reinstatement:
1. All litter, debris and stone above 50mm in any dimension, construction debris and any other unwanted material will be removed from future grass seeding and turfing areas. Stones between 50-75mm are acceptable in planting and wildflower areas where they can be buried or do not protrude and can be soiled over.
 2. All areas to be planted, to receive 600mm depth soils for tree planting and 450mm depth for shrub planting of which the upper 300mm shall be site sourced topsoil or imported topsoil to BS3882:2014 sandy loam class and the lower profile to be site sourced or imported free draining clean inert subsoils to BS8601:2013.
 3. Subsoils to be placed for wildflower areas to finished ground levels, a shallow depth of topsoil or sand can be ameliorated into the seed mix to aid spreading of seed.
 4. All areas to be seeded with grass for lawn areas o receive topsoils to minimum 100mm depth.
 5. All areas for planting to receive 300mm depth of topsoil.

PROPOSED SEEDING FOR AMENITY GRASS

Where existing grass areas are affected by construction works and require reinstatement, grass seed will be Germinal Amenity A4 mix or equivalent product sown at 500kg/ha or 50g/m²

65.0% CORALL STRONG CREEPING RED FESCUE (*Festuca rubra rubra*)

20.0% ABERFLEECE SHEEPS FESCUE (*Festuca ovina*)

10.0% JOANNA CHEWINGS FESCUE (*Festuca rubra Commutata*)

5.00% HIGHLAND BROWNTOP BENTGRASS (*Agrostis castellana*)

1. Create a fine friable seedbed down to 150 mm in depth and remove stone over 50mm in any dimension, thatch, roots and unwanted materials. Do not excessively stonepick as retaining soils will aid drainage.
2. Place collected stones around the edge of the ponds in piles and form into hibernacula.
3. Grade to smooth flowing contours.
4. Carry out two equal sowings at right angles to each other and diagonally to main axis. Broadcast manually or use seed drill, rake level and roll. Ensure good seed to soil contact.
5. Allow grass areas to establish to minimum 100mm before initial cut down to 75mm and thereafter cutting height between 15 -75 mm

PROPOSED MEADOW AND GRASS WILDFLOWER SEEDING

Sow wildflower seed with grass mix in the autumn using and broadcast by hand or by machine. Allow for bulking up the seed with an inert carrier such as sand or sandy topsoil for ease of distribution. Sow with Emorsgate Meadow Mixture for Loamy Soils EM5 at 4g/m² with Yellow rattle or equivalent product.

Wild Flowers – 20%

- 0.20% Achillea Millefolium – Yarrow
- 1.60% Galium verum – Lady's Bedstraw
- 1.40% Leucanthemum vulgare – Oxeye Daisy
- 3.40% Malva moschata – Musk Malwort
- 3.40% Plantago lanceolata – Ribwort Plantain
- 1.60% Ranunculus acris – Meadow Buttercup
- 0.20% Daucus carota – Wild carrot
- 0.20% Primula versis – Cowslip
- 0.20% Lotus corniculatus – Birdsfoot Trefoil
- 0.40% Lathyrus pratensis – Meadow Vetchling
- 0.10% Silene vulgaris – Bladder Campion
- 0.60% Knautia arvensis – Field Scabious
- 2.40% Centaurea nigra – Common Knapweed
- 0.10% Rumex acetosa – Common Sorrel
- 0.40% Agrimonia eupatoria – Agrimony
- 0.60% Betonica officinalis – Betony
- 0.60% Carex flacca – Glaucous Sedge
- 0.10% Leontodon hispidus – Rough Hawkbit
- 0.20% Silaum silaus – Pepper Saxifrage
- 0.10% Vicia cracca – Tufted Vetch

Grasses – 80%

PLANTING SCHEDULE, SPECIFICATION AND IMPLEMENTATION PLAN

Project	THE BRIDGEWAY CENTRE WREXHAM INDUSTRIAL ESTATE	Dwg No	197/LAND/L/400	Revision	P04
Title	PLANTING SCHEDULE, SPECIFICATION AND IMPLEMENTATION PLAN	Scale		Date	25/11/2024

PLANTING	Form	Age Condition/ Number of Times Transplanted	Girth cm	Overall or Minimum Height cm	Clear Stem cm	Root Condition	%	QUANTITY
TREES								
Ac - Acer campestre	heavy standard	3X	12-14cm girth	350-425	175-20 0	rootball		18
Bp - Betula pendula	heavy standard	3X	12-14cm girth	350-425	175-20 0	rootball		17
Qr - Quercus robur	heavy standard	3X	12-14cm girth	350-425	175-20 0	rootball		4
Ms - Malus sylvestris	heavy standard	3X	12-14cm girth	350-425	175-20 0	rootball		2
PaP - Prunus avium 'Plena'	heavy standard	3X	12-14cm girth	350-425	175-20 0	rootball		5
Sau - Sorbus aucuparia	heavy standard	3X	12-14cm girth	350-425	175-20 0	rootball		2
								48
HEDGE - H1 NATIVE SPECIES	Total length 250.3m planted at 5 per metre (1250Nr) in a double staggered row						%	
Acer campestre	60-80 cm bare root	1+1	transplant	60-80		bare root	10	125
Corylus avellana	60-80 cm bare root	1+1	transplant	60-80		bare root	10	125
Crataegus monogyna	60-80 cm bare root	1+1	transplant	60-80		bare root	50	625
Ilex aquifolium	60-80 cm container grown			60-80		container grown	10	125
Rosa canina	40-60 cm bare root	1+1	transplant	40-60		bare root	7	87
Sambucus nigra	60-80 cm bare root			60-80		bare root	5	63
Viburnum opulus	60-80 cm bare root	1+1	transplant	60-80		bare root	8	100
							100	1250
ORNAMENTAL SHRUBS	Total area 298.33m2 Planted at 4 per m2 for general bed planting						Area and %	Bed 1
							298.33	40
Ceanothus thyrsiflorus repens		2litre pot		20-30		container grown	15	6
Hebe pinguifolia 'Pagei'		2litre pot		20-30		container grown	15	6
Lavandula angustifolia 'Hidcote'		2litre pot		20-30		container grown	10	4
Skimmia 'Godries Dwarf'		2litre pot		20-30		container grown	15	6
Euonymus fortunei 'Kewensis'		2litre pot		20-30		container grown	15	6
Euonymus 'Silver Queen'		2litre pot		20-30		container grown	15	6
Pachysandra terminalis		2litre pot		20-30		container grown	15	6
							100	22
SHRUBS	Planted at locations shown to rain gardens							
Amelanchier lamarckii	Branched with minimum 3 breaks	3litre pot		60-80		container grown		3
Cornus sanguinea	Branched with minimum 3 breaks	3litre pot		60-80		container grown		11
Rosa rugosa 'alba'	Branched with minimum 3 breaks	3litre pot		60-80		container grown		5
Viburnum opulus	Branched with minimum 3 breaks	3litre pot		60-80		container grown		8
								27
HERBACEOUS PERENNIALS	Total area 356.44m2 Planted at 4.5 per m2 1760 plants						Area and %	
Ajuga reptans		2litre pot		20-30		container grown	5	80
Asplenium scolopendrium		2litre pot		20-30		container grown	5	80
Camassia leichlinii		2litre pot		20-30		container grown	3	48
Carex oshimensis 'Evergold'		2litre pot		20-30		container grown	7	112
Geranium 'Johnson's Blue'		2litre pot		20-30		container grown	8	128
Geranium 'Rozanne'		2litre pot		20-30		container grown	8	128
Geum rivale		2litre pot		20-30		container grown	6	96
Liatris spicata		2litre pot		20-30		container grown	7	112
Primula vulgaris		2litre pot		20-30		container grown	7	112
Pulmonaria officinalis		2litre pot		20-30		container grown	7	112
Sedum spectabile 'Brilliant'		2litre pot		20-30		container grown	10	160
Sisyrinchium striatum		2litre pot		20-30		container grown	10	160
Stachys byzantina		2litre pot		20-30		container grown	4	64
Lobelia cardinalis		2litre pot		20-30		container grown	5	80
Verbenia bonariensis		2litre pot		20-30		container grown	7	112
Patentilla palustris		2litre pot		20-30		container grown	5	80
Iris pseudocorus		2litre pot		20-30		container grown	3	48
Echinacea purpurea		2litre pot		20-30		container grown	3	48
							100	1760
WILDFLOWER AND GRASS MIX	to verge and upper part of swale and attenuation pond							Area m2
WFG1	Emorsgate EM5 Meadow mixture for loamy soils or equivalent @ 4g/m2							530.88
WILDFLOWER AND GRASS MIX	to side and base of swale and attenuation pond							Area m2
WFG2	Emorsgate EM8 Meadow mixture for loamy soils or equivalent @ 4g/m2							544.61

Revision P04	Revision P01 P02 P03 P04	Date 18.06.2024 06/11/2024 19/11/2024 25/11/2024	Details FOR INFORMATION FOR INFORMATION FOR INFORMATION FOR INFORMATION	Drawn MD MD MD MD	Checked XX XX XX XX
Date 25/11/2024					

Drawing references	
197/LAND/L/100	LANDSCAPE AND BIODIVERSITY PROPOSALS PLAN
197/LAND/L/200	PROPOSED PLANTING PLAN
197/LAND/L/400	PLANTING SCHEDULE, SPECIFICATION AND IMPLEMENTATION PLAN
197/LAND/L/500	LANDSCAPE MAINTENANCE AND MANAGEMENT PLAN



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