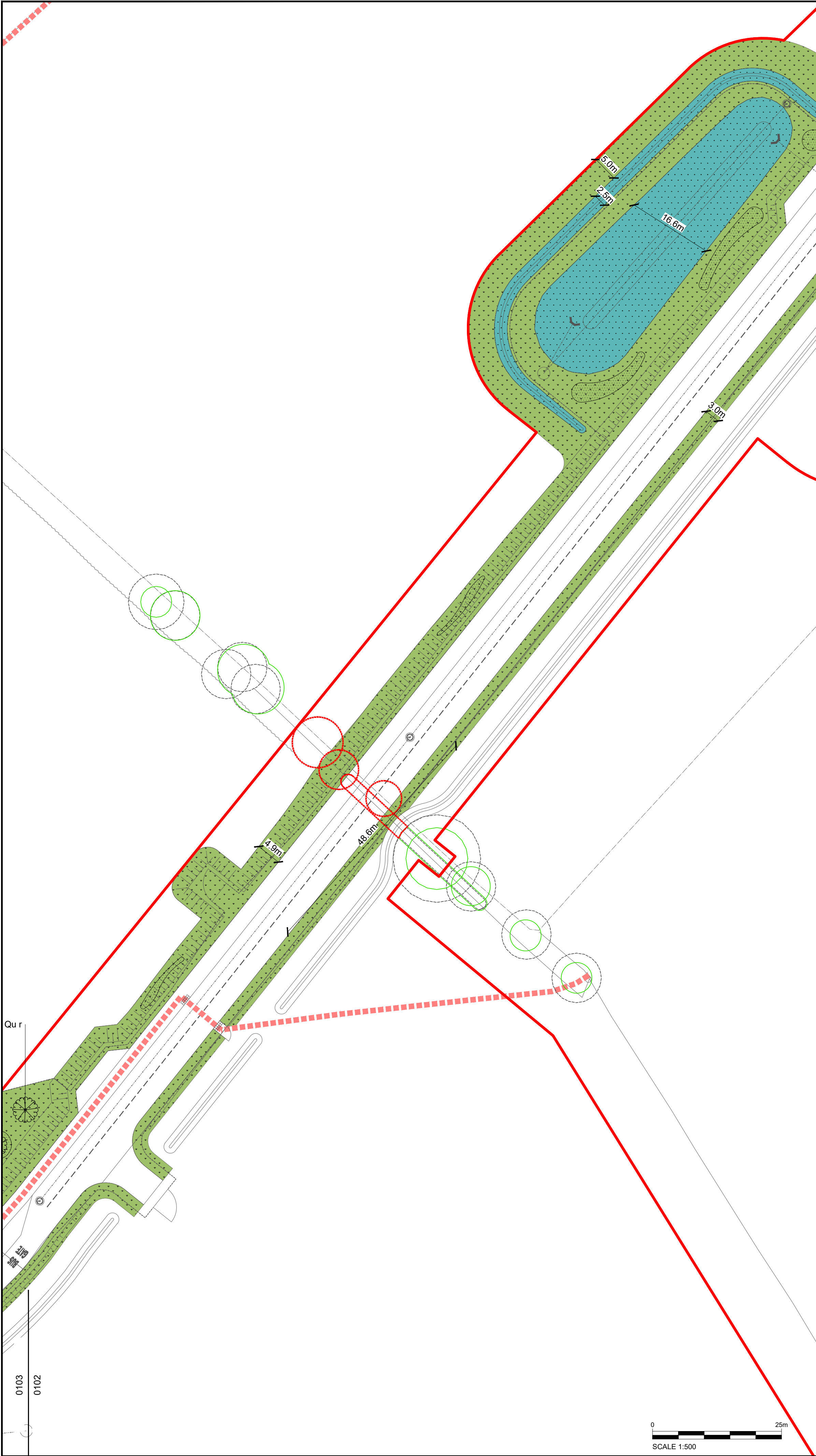




Proposed Native Hedgerow Mix

Hedgerow species to be planted in a double staggered row. Rows 400mm apart. Plant at 500mm centres on each row. 5 plants per linear metre. Species distributed randomly in species groups of 5.

Species Name	Common Name	Abbrev.	Height (cm)	General Specification	Mix %	Quantity
Acer campestre	Field Maple	Ac c	60-80	Bare root; 1+1; Transplant - seed raised	10	315
Cornus sanguinea	Common Dogwood	Co s	60-80	Bare root; 1+1; Transplant - seed raised; branched; 3 breaks	10	315
Corylus avellana	Common Hazel	Co a	60-80	Bare root; 1+2; Transplant - seed raised; branched; 3 breaks	10	315
Crataegus monogyna	Common Hawthorn	Cr m	60-80	Bare root; 1+1; Transplant - seed raised	40	1255
Ilex aquifolium	Common Holly	Il a	60-80	5L pot; Leader with laterals	10	315
Rosa canina	Dog Rose	Ro c	60-80	Bare root; 1+1; Transplant - seed raised; branched; 3 breaks	10	315
Viburnum opulus	Gelder Rose	Vi o	60-80	Bare root; 1+2; Transplant - seed raised; branched; 3 breaks	10	315

PLANTING NOTES

General

- Contractor to confirm positions of all buried utilities prior to commencement of landscape works. Proposals positioning in relation to underground services are subject to further on-site ground and utilities investigation.
- Existing trees to be retained should be protected during construction as per BS 5837 and arboricultural advice. Final determination of trees to be removed to be confirmed on site as per arboriculturist advice.
- Plant material to conform to the National Plant Specification. Plant handling and planting operations to be in accordance with HTA 'Handling and Establishing Landscape Plants', Parts I-III.

Trees & Shrubs

- Planting the trees should be carried out in accordance with British Standard BS:8545 2014.
- Planting season: Late October to late March.
- Square-shaped tree pits to encourage root growth, the planting pit should be no deeper than the existing rootball or container depth.
- During excavation of the tree pit, the soil dug should be placed to one side separating topsoil and subsoil as far as is practical. Excavated topsoil to be free of perennial weeds, weed seeds and contamination and stone picked to remove any stones larger than 50mm prior to re-use. Excavated topsoil to be ameliorated and/or screened if necessary, to achieve this specification. Backfill should be added gradually, in layers of 150 mm to 230 mm depth. The layers should match the surrounding subsoil and topsoil as closely as possible. At each stage the fill should be firmed in to eliminate all air pockets under and around the root system, but with care being taken not to excessively compact the soil. The final layer of backfilling should not be consolidated but should be of a sufficient depth to allow for settlement and mulching. Approximately 200g of organic slow release fertiliser per tree shall be worked into the backfill mixture.
- All planting to be protected with guards with the exception of semi-mature sized trees.
- Semi mature sized trees to be supported by rootball fixing system. Light standard sized trees to be supported by 1no. tree stake and 1no. adjustable tree tie. Stakes in line with prevailing winds, or when planted on embankment, stakes to be parallel and to the top of the slope.
- The root flare of the newly planted tree should be clearly visible at the soil surface. It should not be buried by excess soil or mulch.
- Tree pit sides should not have compacted, glazed or smeared sides from digging. Sides of a planting pit that have been smeared or smoothed during excavation should be scarified.
- Ensure pit free of rubble or concrete before backfilling with soil, compost and fertiliser mix.
- The rootball or root-stem transition should be level with the existing host soil.
- Imported topsoil to BS 3882: 2015 general purpose grade and from an approved source. Soil pH 7.0. Topsoil to be free from excessive amount of weed seeds, roots of perennial weeds, subsoil and extraneous matter. Do not handle during or after heavy rainfall or when it is wetter than the plastic limit as defined by BS 3882.
- Mulch Parkland and Orchard trees with matured coniferous bark, with an even particle size between 5-35mm, to 75mm minimum depth over weed-free soil after completion of planting and watering operations. Individual biodegradable mulch mats to be used in Woodland Core and Woodland Edge mixes instead of bark mulch.

Wildflower Grassland

- Sow meadow grassland seed mixes into areas indicated in low nutrient soil, in accordance with supplier's recommendations, in autumn to reduce competition.
- Sow into a clean seedbed that has been first cleared of all existing vegetation and weeds and then cultivated to produce optimum conditions for germination. Unwanted vegetation can be cut back and removed from site or chopped up to be incorporated during cultivation.
- Cultivate the soil to sufficient depth to alleviate compaction, then rake or harrow and roll to produce a fairly fine, firm surface.
- Extra attention is required in terms of seed bed preparation to encourage good establishment and to cultivate when soil moisture allows breakdown of the soil aggregates into a medium tilth.

Bulbs

- Bulbs shall comply with BS 3936 : Part 9.
- All bulbs must be commercially grown in the UK, not collected from the wild.
- The number of bulbs per unit area shall be as described in the planting schedule.
- Bulbs shall be planted at the depth stated by supplier.
- Bulb planting is to be completed after the preparation and seeding for wildflower grassland areas have been carried out.

Native Hedgerow

- Hedge species to be planted in trenches large enough to take full spread of roots and backfilled with excavated topsoil/compost.
- Planted in a double staggered row. Rows 400mm apart. Plant at 500mm centres on each row.
- Protect plants with guards, fix with cable ties and support by timber stake, ensuring protection methods do not restrict natural movement or growth.
- Bark mulch, 75mm H, to be applied around base of plants.

Proposed Parkland Trees

Species Name	Common Name	Abbrev.	Height (cm)	Girth (cm)	General Specification	Quantity
Acer campestre	Field Maple	Ac c SM	500-550	20-25	Rootball; 3x; Semi-mature; clear stem minimum 200cm	16
Carpinus betulus	Hornbeam	Ca b SM	500-550	20-25	Rootball; 3x; Semi-mature; clear stem minimum 200cm	10
Fagus sylvatica 'Purpurea'	Copper Beech	Fa s SM	500-550	20-25	Rootball; 3x; Semi-mature; clear stem minimum 200cm	4
Prunus avium	Wild Cherry	Pr a SM	500-550	20-25	Rootball; 3x; Semi-mature; clear stem minimum 200cm	21
Quercus robur	Common Oak	Qu r SM	500-550	20-25	Rootball; 3x; Semi-mature; clear stem minimum 200cm	11
Salix alba	White Willow	Sa a SM	500-550	20-25	Rootball; 3x; Semi-mature; clear stem minimum 200cm	3
Tilia platyphyllos	Large-leaved Lime	Ti p SM	500-550	20-25	Rootball; 3x; Semi-mature; clear stem minimum 200cm	6

Proposed Orchard Trees

Species Name	Common Name	Abbrev.	Height (cm)	Girth (cm)	General Specification	Quantity
Malus sylvestris	Crab Apple	Ma s	250-300	6-8	Bare root; 2x; Light Standard; clear stem 150-175cm; 3 breaks	3
Prunus cerasus	Cherry	Pr c	250-300	8-10	Bare root; 2x; Standard; clear stem 175-200cm; 3 breaks	3
Prunus domestica 'Victoria'	Plum	Pr d	250-300	8-10	Bare root; 2x; Standard; Myrobalan B rootstock; clear stem 150-175cm; 3 breaks	2
Pyrus communis	Common Pear	Py c	250-300	8-10	Bare root; 2x; Standard; clear stem 175-200cm; 3 breaks	2

Proposed Bulb Mix

Total Area = 2460 m² (0.2460 ha).

Species Name	Common Name	General Specification	Density / m²	Quantity
Galanthus nivalis	Common Snowdrop	Grade 5 / 6	60	147,600
Narcissus pseudonarcissus	Wild Daffodil	Grade 5 / 6	60	147,600

Proposed Woodland Core Mix

Total Area = 10,271 m² (1.0271 ha). Plant on a 1.5m grid (0.44 plants per m²) with transplant species (80-100cm high) planted at 1.5m centres mixed at 20% with light standard species (250-300cm) planted randomly at 4.5m centres throughout the entire planting area. For embankments, light standard species to be planted towards the top half of the slope.

Species Name	Common Name	Abbrev.	Height (cm)	Girth (cm)	General Specification	In groups of	% of Mix	Quantity
Acer campestre	Field Maple	Ac c LS	250-300	6-8	Bare root; 2x; Light Standard; clear stem 150-175cm; 3 breaks	3	5	226
Acer campestre	Field Maple	Ac c	80-100	-	Bare root; 1+1; Transplant - seed raised	3	5	226
Carpinus betulus	Hornbeam	Ca b	80-100	-	Bare root; 1+1; Transplant - seed raised	5	10	446
Castanea sativa	Sweet Chestnut	Ca s	80-100	-	Bare root; 1+1; Transplant - seed raised	5	10	446
Fagus sylvatica	Common Beech	Fa s LS	250-300	6-8	Rootball; 2x; Light Standard; clear stem 150-175cm; 3 breaks	5	5	226
Fagus sylvatica	Common Beech	Fa s	80-100	-	Bare root; 1+2; Transplant - seed raised	5	5	226
Pinus sylvestris	Scots Pine	Pi s	80-100	-	10L; leader with laterals	3	5	226
Quercus robur	Common Oak	Qu r LS	250-300	6-8	Rootball; 2x; Light Standard; clear stem 150-175cm; 3 breaks	3	5	226
Quercus robur	Common Oak	Qu r	80-100	-	1+2; Transplant - seed raised	7	35	1590
Populus tremula	Aspen	Po t	80-100	-	Bare root; 1+1; Transplant - seed raised	3	5	226
Tilia platyphyllos	Large-leaved Lime	Ti p LS	250-300	6-8	Bare root; 2x; Light Standard; clear stem 150-175cm; 3 breaks	3	5	226
Tilia platyphyllos	Large-leaved Lime	Ti p	80-100	-	Bare root; 1+1; Transplant - seed raised	3	5	226

Proposed Woodland Edge Mix

Total Area = 7929 m² (0.7929 ha). Plant on a 1.5m grid (0.44 plants per m²).

Species Name	Common Name	Abbrev.	Height (cm)	General Specification	In groups of	Mix %	Quantity
Cornus sanguinea	Common Dogwood	Co s	60-80	Bare root; 1+1; Transplant - seed raised; branched; 3 breaks	5	15	524
Corylus avellana	Common Hazel	Co a	60-80	Bare root; 1+2; Transplant - seed raised; branched; 3 breaks	5	15	524
Crataegus monogyna	Common Hawthorn	Cr m	60-80	Bare root; 1+1; Transplant - seed raised	7	30	1049
Eionymus europaeus	Spindle	Eu s	60-80	Bare root; 1+2; Transplant - seed raised; branched; 5 breaks	5	10	349
Ligustrum vulgare	Wild Privet	Li v	60-80	Bare root; 0/2; Cutting; branched; 3 breaks	5	10	349
Malus sylvestris	Crab Apple	Ma s	60-80	Bare root; 1+1; Transplant - seed raised	5	10	349
Rosa canina	Dog Rose	Ro c	60-80	Bare root; 1+1; Transplant - seed raised; branched; 3 breaks	3	5	174
Viburnum opulus	Gelder Rose	Vi o	60-80	Bare root; 1+2; Transplant - seed raised; branched; 3 breaks	3	5	174

Proposed Wildflower Grassland Mix

Emorsgate Seeds EM3 - Special General Purpose Meadow Mixture.

Total Area = 33,484 m² (3.3484 ha). Total seed required = 133,936 g (133.936 kg). Sown at 4g per m² in accordance with supplier's instructions

Species Name	Common Name	%
Wildflowers		20
Achillea millefolium	Yarrow	0.4
Agrimonia eupatoria	Agrimony	0.3
Betonica officinalis - (Stachys officinalis)	Betony	0.5
Centaurea nigra	Common Knapweed	1.3
Centaurea scabiosa	Greater Knapweed	0.8
Daucus carota	Wild Carrot	1.8
Galium album - (Galium mollugo)	Hedge Bedstraw	0.8
Galium verum	Lady's Bedstraw	2
Geranium pratense	Meadow Crane's-bill	0.1
Knautia arvensis	Field Scabious	0.3
Leontodon hispidus	Rough Hawkbit	0.5
Leucanthemum vulgare	Ox-eye Daisy	1.2
Malva moschata	Musk Mallow	1.7
Origanum vulgare	Wild Marjoram	0.3
Plantago media	Hoary Plantain	0.8
Poterium sanguisorba - (Sanguisorba minor)	Salad Burnet	1.6
Primula veris	Cowslip	0.8
Prunella vulgaris	Selfheal	0.3
Ranunculus acris	Meadow Buttercup	0.5
Ranunculus bulbosus	Bulbous Buttercup	0.2
Rhinanthus minor	Yellow Rattle	0.5
Rumex acetosa	Common Sorrel	1
Silene dioica	Red Campion	1.5
Silene flos-cuculi - (Lychnis flos-cuculi)	Ragged Robin	0.4
Silene latifolia	White Campion	0.2
Taraxacum officinale	Dandelion	0.1
Vicia sativa ssp. segetalis	Common Vetch	0.1
Grasses		80
Agrostis capillaris	Common Bent	8
Cynosurus cristatus	Crested Dog's-tail	28
Festuca rubra	Slender Creeping Red Fescue	24
Phleum bertolonii	Smaller Cat's-Tail (w)	4
Poa pratensis	Smooth-stalked Meadow-grass	16

Proposed Wildflower Grassland Mix for SUDS

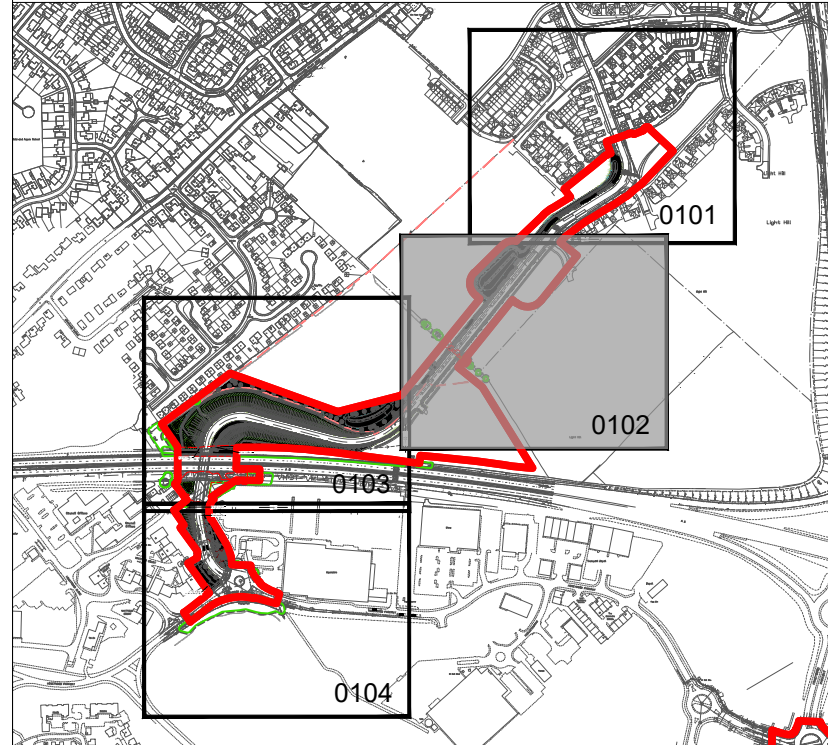
Emorsgate Seeds EM6 - Meadow Mixture for Wetlands.

Total Area = 7351 m² (0.7351 ha). Total seed required = 29,404 g (29.404 kg). Sown at 4g per m² in accordance with supplier's instructions

Species Name	Common Name	%
Wildflowers		20
Achillea millefolium	Yarrow	0.5
Achillea ptarmica	Sneezewort	0.4
Betonica officinalis	Betony	1
Centaurea nigra	Common Knapweed	3
Filipendula ulmaria	Meadowsweet	0.4
Galium verum	Lady's Bedstraw	3
Geranium pratense	Meadow Crane's-bill	0.5
Leontodon hispidus	Rough Hawkbit	0.5
Leucanthemum vulgare	Ox-eye Daisy	1.8
Lotus pedunculatus	Greater Bird's-foot Trefol	0.2
Plantago lanceolata	Ribwort Plantain	1
Primula veris	Cowslip	0.5
Prunella vulgaris	Selfheal	0.4
Ranunculus acris	Meadow Buttercup	0.8
Rhinanthus minor	Yellow Rattle	0.8
Rumex acetosa	Common Sorrel	1.4
Sanguisorba officinalis	Great Burnet	0.1
Silene flos-cuculi	Pepper Saxifrage	0.3
Silene flos-cuculi	Ragged Robin	1.7
Succisa pratensis	Devil's-bit Scabious	0.3
Taraxacum officinale	Dandelion	0.6
Vicia cracca	Tufted Vetch	0.8
Grasses		80
Agrostis capillaris	Common Bent	10
Alopecurus pratensis	Meadow Foxtail (w)	3
Anthoxanthum odoratum	Sweet Vernal-grass (w)	3
Briza media	Quaking Grass (w)	3
Cynosurus cristatus	Crested Dogtail	24
Deschampsia cespitosa	Tufted Hair-grass (w)	2
Festuca rubra	Red Fescue	32
Hordeum secalinum	Meadow Barley (w)	3

DO NOT SCALE

KEY PLAN (SCALE 1:10,000 @ A1)



LEGEND

- Application Site Boundary
- Existing vegetation to be removed
- Existing trees to be retained
- Proposed parkland tree
- Proposed orchard tree
- Proposed woodland core
- Proposed woodland edge
- Proposed hedgerow
- Proposed wildflower grassland
- Proposed wildflower grassland for SuDS
- Proposed bulb planting
- Areas where existing arable/pastoral soil profile to be reused for planting
- Proposed root barrier
- Public Right of Way

P05	31/07/2020	TE	Planting quantities finalised	AK/SL	TD
P04	29/07/2020	TE	Planting quantities added	AK/SL	TD
P03	27/07/2020	TE	Revised proposals following revised layout	AK/SL	TD
P02	03/07/2020	TE	Revised proposals following meeting with KCC	AK/SL	TD
P01	04/06/2020	TE	First Issue	AK/SL	TD
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:
S4 - FOR CONSTRUCTION APPROVAL

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CLIENT:
KENT COUNTY COUNCIL

ARCHITECT:

SITE/PROJECT:
DOVER FASTRACK

TITLE:
LANDSCAPE GENERAL ARRANGEMENT PLAN
SHEET 2 OF 8

SCALE @ A1:
1:500

CHECKED:
AK/SL

APPROVED:
TD

PROJECT NO:
70070465

DESIGNED:
TE

DRAWN:
TE

DATE:
May 2020

DRAWING NO:
DVFT-WSP-S1-XX-DR-L-0102

REV:
P05

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