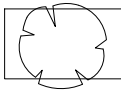


LEGEND

Existing Soft Landscape

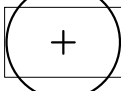


Existing Trees to be Retained
To be protected in accordance with BS 5827:2012 Trees in Relation to Design, Demolition and Construction.
For details refer to tree survey carried out by tree fabrik

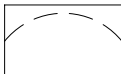


Existing Hedge to be Retained
Note: indicative location of hedgerow due to lack of survey information
To be protected in accordance with BS 5827:2012 Trees in Relation to Design, Demolition and Construction.
For details refer to tree survey carried out by tree fabrik

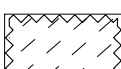
Proposed Soft Landscape



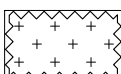
Proposed Tree Planting
Product: Standard Tree with 2m clear stem
Size/Spec: Refer to plant schedule for details
Supplier: Folia or similar approved
Note: All trees are to be tagged by landscape architect prior to delivery



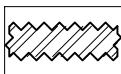
Potential ultimate crown size (25 years+)



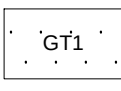
Proposed Native Shrub Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Supplier: Folia or similar approved
Note: All batches of species are to be labeled prior to delivery, all roots are to be protected during transit to prevent roots drying out. Once delivered to site, plants are to be healed in and planted within five working days.



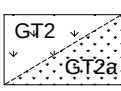
Proposed Ornamental Shrub Planting
Product: Container grown plant stock
Size/Spec: Refer to plant schedule for details
Supplier: Folia or similar approved
Note: All batches of species are to be labeled prior to delivery.



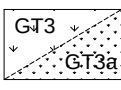
Proposed Hedge Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Supplier: Folia or similar approved
Note: All batches of species are to be labeled prior to delivery, all roots are to be protected during transit to prevent roots drying out. Once delivered to site, plants are to be healed in and planted within five working days



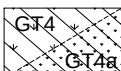
Proposed General Purpose Amenity Grass
Product: A4 Seed Mixture
Supplier: British Seed Housing or similar approved
Note: Seeds are to be sown at a rate of 35-45grams per m2 refer to BSH for details



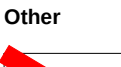
Proposed Woodland Grassland Species
GT2: Moved on a meadow regime
GT2a - Higher intensity of mowing regime
Product: EW1 Woodland Mixture
Supplier: Emorsgate Seeds or similar approved



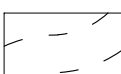
GT3- General Purpose Grassland Species
GT3a- maintained as a meadow
GT3a- increased mowing regime
Product: EM2 Standard General Purpose Meadow Mixture
Supplier: Emorsgate Seeds or similar approved



Proposed Damp Meadow Grass
GT4- Moved on a meadow regime
GT4a - Higher intensity of mowing regime
Product: EP1 Pond Edge Mixture
Supplier: Emorsgate Seeds
Note: Seeds are to be sown at a rate of 4-8grams per m2 refer to Emorsgate for details
All meadow species are to be sown on non-fertile soils



Application Boundary - Town Park Phase A



Extent of Earth Mounding
Refer to Engineer's drawings for details & specification

PLANT SCHEDULE

Proposed Tree Planting Species	Symbol	Specification	Tree Girth	Condition	Density	Qty.
Acer campestre	Ac	Extra Heavy Standard	16-18cm	RB	Counted	4 No.
Acer platanoides 'Drummondii'	ApDr	Extra Heavy Standard	16-18cm	RB	Counted	6 No.
Alnus cordata	Aco	Extra Heavy Standard	16-18cm	RB	Counted	9 No.
Amelanchier lamarkii	Al	Extra Heavy Standard	Multi-Stem	RB	Counted	5 No.
Betula albosinensis 'Fascination'	BaF	Extra Heavy Standard	14-16cm	RB	Counted	12 No.
Betula pendula 'Tristis'	BpT	Heavy Standard	12-14cm	RB	Counted	15 No.
Castanea sativa	Cs	Extra Heavy Standard	16-18cm	RB	Counted	4 No.
Crataegus laevigata 'Paul's Scarlet'	CPS	Extra Heavy Standard	14-16cm	RB	Counted	12 No.
Fagus sylvatica 'Dawyc'	FsD	Heavy Standard	12-14cm	RB	Counted	6 No.
Ginkgo biloba	Gb	Extra Heavy Standard	16-18cm	RB	Counted	18 No.
Liquidambar styraciflua 'Stella'	LsS	Extra Heavy Standard	16-18cm	RB	Counted	6 No.
Liriodendron tulipifera	Lt	Extra Heavy Standard	16-18cm	RB	Counted	8 No.
Malus hugoensis	Mh	Heavy Standard	12-14cm	RB	Counted	11 No.
Mespilus germanica	Mg	Heavy Standard	12-14cm	RB	Counted	3 No.
Prunus sargentii	PRSA	Heavy Standard	12-14cm	RB	Counted	17 No.
Prunus serotina	Ps	Heavy Standard	Multi-Stem	RB	Counted	12 No.
Quercus robur	Qr	Extra Heavy Standard	16-18cm	RB	Counted	60 No.
Salix alba 'Tristis'	SaT	Extra Heavy Standard	16-18cm	RB	Counted	6 No.
Tilia cordata	Tc	Extra Heavy Standard	16-18cm	RB	Counted	82 No.
Total :296 No.						

Proposed Conifer Planting Species	Symbol	Specification	Tree Girth	Condition	Density	Qty.
Picea abies	Patb	Extra Heavy Standard	16-18cm	RB	Counted	1 No.
Total :1 No.						

Proposed Hedge Planting Species	Symbol	Specification (height)	Condition	Density	Qty.
Fagus sylvatica	Fs	0.50m Double Staggered at 0.3m offset	RB	0.50m Double Staggered at 0.3m offset	308 No.
					Total :308 No.

Proposed Shrub Planting Species	Specification (height)	Condition	Density	Qty.
Berberis darwinii	30-45cm	C3	5/m²	112 No.
Cotoneaster horizontalis	30-45cm	C5	4/m²	58 No.
Pachysandra terminalis 'Green Carpet'	10-20cm	C3	7/m²	1091 No.
Viburnum davidii	30-40cm	C5	5/m²	102 No.
Viburnum tinus 'Eve Price'	40-60cm	C5	5/m²	117 No.

Proposed Ornamental Grasses Species	Specification	Condition	Density	Qty.
Anemranthe lessoniana	Full Pot	C3	5/m²	41 No.
Miscanthus sinensis	Full Pot	C3	7/m²	214 No.
Molinia caerulea 'Heidebraut'	Full Pot	C3	7/m²	257 No.

Proposed Native Shrub Mix Species	Specification	Condition	Density	Qty.
Acer campestre	60-80cm	BR	3/m²	882 No.
Cornus sanguinea 'Midwinter Fire'	40-60cm	BR	3/m²	1313 No.
Crataegus monogyna	60-80cm	BR	3/m²	882 No.
Ligustrum vulgare	60-80cm	BR	3/m²	1313 No.
Prunus spinosa	40-60cm	BR	3/m²	447 No.
Rosa canina	40-60cm	BR	3/m²	447 No.
Rosa rugosa	40-60cm	BR	3/m²	882 No.
Sambucus nigra	60-80cm	BR	3/m²	1313 No.
Viburnum opulus	60-80cm	BR	3/m²	1313 No.
Total :8792 No.				

Proposed Ornamental Grass & Herbaceous Mix Species	Specification	Condition	Density	Qty.
Achillea millefolium	10m²	C2	10/m²	156 No.
Centaurea scabiosa	10m²	C2	10/m²	234 No.
Leucanthemum vulgare	10m²	C2	10/m²	234 No.
Luzula nivea	10m²	C2	10/m²	621 No.
Tellima grandiflora	10m²	C2	10/m²	312 No.
Total :1557 No.				

PLANTING SPECIFICATION

Proposed Tree Planting

To be planted in the first available planting season after construction as root balled stock. Tree pit dimensions are subject to soil conditions, soil report provided by Agronomist and rootball size. Tree pit sizes are to be agreed with Landscape Architect prior to excavations and inspected by the Landscape Architect prior to planting. All tree pits and trenches to have irrigation pipe and end cap, 150mm depth aggregate drainage layer with geotextile separation layer and horticultural grade sand to support root ball with sides and base of tree pit to be broken up. Tree pit construction detail to be submitted to LPA for approval. Trees within hard landscape areas to have Silvacell tree pit or similar and approved.

- The retention of existing topsoil to be with supplementation of imported topsoil to BS 3882:2015 'Multipurpose'. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required.
- All backfilled material is to include an organic slow release fertilizer dependent on soil tset and agronomist recommendations.
- Tree support to be underground anchors to BS 4043: 1989 'Recommendations for Transplanting Root-Balled Trees' for trees in excess of 20cm girth. For trees under this size two untreated softwood stakes at min 7.5cm diameter @ 230 cm length driven into the ground to either side of the rootball, top of stake to min 750mm height above finished soil level. The stem of the tree should be fixed in place with 'Toms' tree ties or similar and approved. Ties and stakes to be checked and adjusted cross beam every six months or after periods of strong wind and rain.
- All open space areas where tree planting is proposed to be fenced off with temporary fencing to ensure soil structure is not compacted or degraded during construction.
- All trees to be protected with summer guards.
- Base of trees in soft landscape to receive well rotted wood chip or bark mulch.
- All trees within 3m of services and 2m of built form to have suitable root barrier. Contractor to provide details of root barrier for confirmation of suitability for application by Engineer prior to installation. Contractor to satisfy themselves with locations of all services prior to excavation of tree pits and installation of root barriers.Tree pit root barrier to be installed to all tree pits and trenches within 3m of any underground service route. Barrier material to be agreed. Contractor to confirm locations of all services prior to implementation.

Tree Pit Guidelines

- Final tree pit size will vary dependent on size of rootball and tree stock. See guidance notes below. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidelines:	Tree size	Rootball Size	Tree pit size (length, width, depth)
10-12 cmg	30x40cm	60x80x65cm	
12-14 cmg	30x40cm	60x80x65cm	
14-16 cmg	50x50cm	80x80x65cm	
16-18 cmg	50x50cm	80x80x65cm	

- Additional support for trees may be required if ground conditions become too wet for ground anchors to provide support.
- Final location of trees is subject to location of services that are to be confirmed by engineer.
- Base and sides of tree pit to be broken up.

Proposed Native Planting

- To be planted in a minimum of 300mm depth approved topsoil to BS 3882:2007 'Multipurpose' in the first available planting season after construction. All plants to be supplied by folia or similar approved.
- All shrubs are to be planted as bareroot stock unless otherwise specified. All stock is to be well rooted into the container.
- All shrubs are to be planted with a slow release organic fertilizer (vixax or similar approved) and backfilled with a mixture of excavated top soil and compost (not peat based).
- A minimum of 50 mm approved ornamental grade bark mulch is to be applied to planting areas unless stated otherwise.
- All plants are to be labeled prior to delivery. Once delivered plants to be healed in and planted within five working days.
- Maintain a 1m circle around each tree (or 1m strip along a row) and mulch depth for the first 3 years of growth.
- Notch planting to be carried out for bareroot stock.
- Containerised stock to be used only if planting outside of the winter planting season for bareroot stock.
- Planting to be protected initially by a brush barrier and once plants have established

Proposed Ornamental Shrub / Perennial Planting

To be planted in a minimum of 300mm depth of either existing retained or approved topsoil to BS 3882:2015 'Multipurpose' in the first available planting season after construction.

All shrubs are to be planted as container stock unless otherwise specified (2.3.5 or 10 litre), all stock is to be well rooted into the container but not pot bound. All shrubs are to be planted with a slow release organic fertilizer (vixax or similar approved) and backfilled with a mixture of excavated top soil and compost (not peat based). A minimum of 50 mm approved ornamental grade bark mulch is to be applied to planting areas unless stated otherwise.

Herbaceous planting guidance notes:

- Planting area to be protected from footfall and wildlife damage by laying protective bright orange mesh over the newly planted area.
- Location of plug plants to be agreed with the contractor on site with Landscape Architect and Ecologist

Proposed Hedge Planting

To be planted in a minimum of 300mm depth approved topsoil to BS 3882:2007 'Multipurpose' or better in the first available planting season after construction. All shrubs are to be planted as container stock unless otherwise specified (5litre), all stock is to be well rooted into the container. All hedge are to be planted in double staggered rows.

All shrubs are to be planted with a slow release organic fertilizer to a N:P:K ratio of 4.5:2.0:7.7+0.8%mg (vixax or similar approved) and backfilled with a mixture of excavated top soil and compost (not peat based). A minimum of 50 mm approved ornamental grade bark mulch is to be applied to planting areas unless stated otherwise.

A4 Seed Mixture - Proposed Amenity Grass (GT1)

A4 is suitable for creating natural grassland landscapes where minimal maintenance is required. It's adaptable to a range of cutting heights making it ideal for whip plantings or left to grow to form an attractive seed head canopy. Wild flower species can also be added to this mixture for increased diversity. For very low nutrient situations ABERACE miniature leaved white clover can be incorporated to provide a free constant supply of nitrogen.

Grasses (100%) Species	%	Grams/m²
Aniset Strong Creeping Red Fescue	40	35
Raissa Chewings Fescue	30	35
Mentor Hard Fescue	25	35
Highland Bent Grass	5	35

EW1- Proposed Woodland Grassland Species (GT2 / GT2a)

EW1 is a very good mixture of woodland wild flowers and grasses that will bloom in spring and early summer. Woodland wild flowers require some shade to thrive. So, use this mixture in established woods, or in young woodland, as the canopy begins to close in. The mix ratio and specification are to be considered and approved by the EA and LPA.

Wild Flowers Species	Common Name	%	Grams per m²
Alliaria petiolata	Garlic Mustard	3	4
Allium ursinum	Allium ursinum	1	4
Betonica officinalis - (Stachys officinalis)	Betony	1.2	4
Digitalis purpurea	Foxglove	1	4
Filipendula ulmaria	Meadowsweet	2	4
Galium album - (Galium mollugo)	Hedge Bedstraw	1	4
Geum urbanum	Wood Avens	3	4
Hyacinthoides non-scripta	Bluebell	2.6	4
Hypericum hirsutum	Hairy St John's-wort	0.4	4
Primula vulgaris	Primrose	0.2	4
Prunella vulgaris	Selheal	1	4
Silene dioica	Red Campion	1.4	4
Silene flos-cuculi - (Lychnis flos-cuculi)	Ragged Robin	0.2	4
Stachys sylvatica	Hedge Woundwort	1	4
Teucrium scorodonia	Wood Sage	1	4

Grass Species	Common Name	%	Grams/m²
Agrostis capillaris	Common Bent	10	4
Anthoxanthum odoratum	Sweet Vernal-grass (w)	2	4
Brachypodium sylvaticum	False Brome (w)	7	4
Cynosurus cristatus	Crested Dogstail	28	4
Deschampsia cespitosa	Tufted Hair-grass (w)	1	4
Festuca rubra	Slender Creeping Red Fescue	20	4
Poa nemoralis	Wood Meadow-grass	12	4

EM2- General Purpose Grassland (GT3 / GT3a)

EM2 meadow mixture contains species that are characteristic of traditional meadows across a wide range of soil types. The mix ratio and specification are to be considered and approved by the EA and LPA.

Wild Flowers (20%) Species	Common Name	%	Grams/m²
Achillea millefolium	Yarrow	0.5	4
Centaurea nigra	Knapweed	0.5	4
Daucus carota	Wild Carrot	1.0	4
Galium verum	Ladies Bedstraw	2.5	4
Knaulia arvensis	Field Scabious	1.0	4
Leucanthemum vulgare	Oxeley Daisy	2.0	4
Lotus corniculatus	Birdsfoot trefoil	0.2	4
Plantago lanceolata	Ribwort Plantain	1.0	4
Primula veris	Cowslip	1.5	4
Prunella vulgaris	Self-Heal	2.5	4
Ranunculus acris	Meadow Buttercup	3.0	4
Ranunculus bulbosus	Bulbous Buttercup	2.0	4
Rhinanthus minor	Yellow Rattle	1.5	4
Rumex acetosa	Common Sorrel	0.8	4

Grasses (80%) Species	Common Name	%	Grams/m²
Agrostis capillaris	Common Bent	8.0	4
Cynosurus cristatus	Crested Dogstail	40.0	4
Festuca rubra	Slender Creeping Red Fescue	28	4
Phleum bertolonii	Smaller Cat's-Tail	4	4

EP1 - Proposed Damp Meadow Grass (GT4)

Pond edge mixture EP1 contains wild flowers and grasses suitable for sowing at the wet margins of ponds, streams and ditches. The mix ratio and specification are to be considered and approved by the EA and LPA.

Wild Flowers (20%) Species	Common Name	Grams/m²	%
Achillea ptarmica	Sneezewort	0.5	4
Angelica sylvestris	Wild Angelica	2.5	4
Caltha palustris	Marsh Marigold	0.5	4
Eupatorium agrinonium	Hemp Agrimony	0.5	4
Filipendula ulmaria	Meadowsweet	2.5	4
Geum rivale	Water Avens	0.8	4
Hypericum tetrapetrum	Square St John's Wort	0.5	4
Iris pseudacorus	Yellow Iris	2.5	4
Lotus pedunculatus	Greater Birdsfoot Trefoil	1.0	4
Lychnis flos-cuculi	Ragged Robin	0.5	4
Lycopus europaeus	Gipsywort	1.0	4
Lythrum salicaria	Purple Loosestrife	1.5	4
Pulicaria dysenterica	Feabane	0.2	4
Ranunculus acris	Meadow Buttercup	1.0	4
Scrophularia aunculata	Water Figwort	0.2	4
Succisa pratensis	Devil's-bit Scabious	0.8	4
Thalictrum flavum	Common Meadow-Rue	1.5	4
Vicia cracca	Tufted Vetch	2.0	4

Grasses (80%) Species	Common Name	Grams/m²	%
Agrostis capillaris (w)	Common Bent	12	4
Alopecurus pratensis (w)	Meadow Foxtail	3	4
Anthoxanthum odoratum (w)	Sweet Vernal-grass	2	4
Briza media (w)	Quaking Grass	1	4
Cynosurus cristatus	Crested Dogstail	36	4
Deschampsia cespitosa (w)	Tufted Hair-grass	1	4
Festuca rubra ssp. juncea (w)	Slender Creeping Red Fescue	25	4

Maintenance Notes - Overview

- All landscaped areas are to be maintained for 12 months or until the plants have established.
- All trees are to be maintained for 36 months.
- All planted areas to be kept clear of weeds at all times throughout maintenance period.
- Planted areas to be forked through regularly to keep soil loose and aerated.
- All litter and debris to be removed from landscaped areas and carted off site.
- Plants pruned as instructed by the Landscape Architect to promote healthy growth and to remove dead and diseased wood.
- Watering as required to maintain healthy growth (allow for 24 N° waterings minimum).
- Any species that dies or fails to establish in the first five years should be replaced by an identical species.
- Allow for a minimum of 24 maintenance visits.

Additional Notes

- Existing levels to be preserved around existing trees and vegetation to be retained.
- Existing trees and vegetation to be retained are to be protected during construction to BS 5837:2012 'Trees in Relation to Design, Demolition and Construction'.
- Any necessary tree works to be carried out by an approved tree surgeon to BS 3998:2010 'Recommendations for Tree Works'.
- All planting in visibility splay should be maintained below 600mm in height.
- For all arboricultural issues refer to survey and reports carried out by other consultants.
- Final location and tree species selection will be subject to service report and foundation depths to be provided by engineers.
- All planting to have adequate rabbit and deer protection.

Notes

- This drawing is the property of fabrik ltd. It must not be copied or reproduced without written consent.
- Only figured dimensions are to be taken from this drawing. All contractors must visit site and be responsible for taking and checking all dimensions related to the works shown on the drawing.

02	25.01.17	Amends to Native Planting numbers will additional planting along southern boundary	ah
01	17.11.16	Site wide amends following client comments	ah
No.	Date	Reason	Name
Revisions			

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Project

Town Park, Phase A, Berewood, Waterlooville
for Grainger

Drawing

Soft Landscape Legend, Plant Schedule and Specification
to be read with D2403 L.301 - L.304

Scale	Date	Checked	Drawn
NTS	Nov'16	as	ah

Drawing No.	Revision
D2403 L.305	02

☐ Preliminary	☐ Issued for Design/Information
☒ Issued for Planning Approval	☐ Issued for Tender
☐ Issued for Construction	☐ As Built

Drawing sheet size - A1