

LEGEND

SOFT LANDSCAPE

EXISTING TREES & VEGETATION

Existing Trees to be Retained: To be protected in accordance with BS 5837:2012 'Trees in relation to Design, Construction'. Note: Refer to arboricultural survey & report for details.

PROPOSED PLANTING

Proposed Native Scrub Planting: Product: Bare root stock. Size/Spec: Refer to indicative plant schedule for further information.

Grass Type 1 - Proposed Amenity Grassland: Product: EG22 Strong Lawn Grass Mixture. Supplier: Emorsgate or similar approved.

Grass Type 5 - Proposed Grassland: Spec: EG7 Meadow Grass Mixture for Sandy Soils. Supplier: Emorsgate Seeds or similar approved.

Existing Grassland: Spec: Existing sward retained and managed to maximise ecological benefit. Supplier: n/a

Mown Wildflower Meadow Grass: Area seeded with adjacent mix and managed as close-mown sward

Note: Specification of seed mixes subject to soil testing, analysis and Agronomist's recommendations.

STREET FURNITURE

Furniture Type 1a - Curved Concrete Seating: Used to retain adjacent earth mounding. Size: 500(d) x 500mm(h).

INDICATIVE PLANT SCHEDULE

PLANT SCHEDULE

Table with columns: Species, Size/Spec, Condition. Lists various plants like Acer pseudoplatanus, Alnus glutinosa, Amelanchier 'Robin Hill'.

Proposed Native Hedge Planting: Species, Size/Spec, Condition. Lists plants like Crataegus monogyna, Cornus sanguinea, Prunus spinosa.

Proposed Native Shrub Planting: Species, Size/Spec, Condition. Lists plants like Achillea millefolium, Anemone nemorosa, Arctostaphylos uva-ursi.

Proposed Ornamental Shrub Planting: Species, Size/Spec, Condition, Density. Lists plants like Brachyglottis 'Sunshine', Cornus alba 'Elegantissima', Choisya ternata.

Proposed Herbaceous Planting: Species, Size/Spec, Condition, Density. Lists plants like Anemone tricolora, Anemone x hybrida 'Königin Charlotte', Scabiosa columbaria subsp. ochroleuca.

Proposed Ornamental Grasses: Species, Size/Spec, Condition, Density. Lists plants like Miscanthus sinensis 'Kleine Fontaine', Deschampsia cespitosa.

Seeded Ferns: Species, Size/Spec, Condition, Density. Lists plants like Dryopteris affinis, Dryopteris filix-mas.

Proposed Bulb Planting: Species, Size/Spec, Condition, Density. Lists plants like Allium cristophii, Tulip sylvestris, Narcissus pseudonarcissus.

GRASS MIXTURES

Proposed Strong Lawn Grass Seed Mix [GT1]

Product: Strong Lawn Grass Mixture EG22. Suggested Sowing Rates: 250kg/ha. Description: EG22 is an excellent all purpose lawn mixture suited to a wide range of domestic and landscape applications.

Composition 100% Grass Seed: 5.0 Agrostis capillaris Common Bent, 5.0 Festuca rubra Red Fescue, 25.0 Lolium perenne Perennial Ryegrass, 20.0 Poa pratensis Smooth-stalked Meadow-grass.

Proposed Meadow for Sandy Soils Seed Mix [GT2]

Product: Meadow Mixture for Sandy Soils EM7. Suggested Sowing Rates: 40kg/ha. Description: Sandy soils can vary considerably in pH, humus content, fertility and structure but are usually infertile, well drained and prone to drought.

Composition Wild Flowers - 20%: 1.5 Achillea millefolium Yarrow, 0.15 Anthyllis vulneraria Kidney Vetch, 0.15 Betonica officinalis Betsy, 3.0 Centaurea nigra Common Knapweed.

Grasses 80%: 4.0 Agrostis capillaris Common Bent (w), 4.0 Agrostis vinealis Sweet Vernal-grass (w), 4.0 Anthoxanthum odoratum Sweet Vernal-grass (w).

Proposed Meadow for Clay Seed Mix [GT3]

Product: Meadow Mixture for Clay Soils EM4. Suggested Sowing Rates: 40kg/ha. Description: EM4 is composed of species that are adapted to growing on soils with a high clay content.

Composition Wild Flowers - 20%: 1.2 Achillea millefolium Yarrow, 0.2 Agrimonia eupatoria Agrimony, 0.1 Betonica officinalis Common Knapweed.

Grasses 80%: 2.4 Agrostis capillaris Common Bent, 2.0 Anthoxanthum odoratum Sweet Vernal-grass (w), 2.0 Briza media Quaking Grass (w).

Proposed Wetland Wildflower Seed Mix [GT4]: Product: Meadow Mixture for Wetlands EM8. Suggested Sowing Rates: 40kg/ha. Description: EM8 contains species suitable for seasonally wet soils.

Proposed Meadow Mixture for Wetlands EM8: Species, Size/Spec, Condition, Density. Lists plants like Agrostis capillaris, Anthoxanthum odoratum, Briza media.

Composition Wild Flowers 20%: 2.4 Achillea millefolium Yarrow, 0.1 Betonica officinalis Common Knapweed, 4.0 Centaurea nigra Common Knapweed.

Grasses 80%: 2.0 Agrostis capillaris Common Bent (w), 2.0 Anthoxanthum odoratum Sweet Vernal-grass (w), 4.0 Briza media Quaking Grass (w).

Proposed Meadow Grass for Sandy Soils Mix [GT5]: Product: Meadow Grass Mixture for Sandy Soils EG7. Suggested Sowing Rates: 50kg/ha. Description: EG7 contains fine grasses that are tolerant of drought and low fertility.

Composition 100% Grass Seed: 5.0 Agrostis capillaris Common Bent, 5.0 Agrostis vinealis Sweet Vernal-grass (w), 57.0 Anthoxanthum odoratum Sweet Vernal-grass (w).

SOFT SPECIFICATION NOTES

Proposed Tree Planting

Nursery Stock and Selection: All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock'.

Tree Handling: It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees.

Dormant trees sizes of 12-16cm: These are to be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection.

Dormant trees sizes of 18-20cm - 25-30cm: These are to be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection.

Tree Planting: The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified.

All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations.

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock'.

Maintenance Notes - Overview: Refer to separate landscape maintenance and management plan for detailed specification. All landscaped areas are to be maintained for 24 months following practical completion of the phase or until the plants have established.

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%. This will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cm use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth.

Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989 'Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect.

Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root growth. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking.

Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain. All topsoil is to conform to BS 3882:2007 'Multipurpose' or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required.

Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation N.J.J.G specification and requirements are to be referred to.

Table with columns: Tree size, Rootball Size, Tree pit size (length, width, depth). Lists sizes for 8-10 cm, 10-12 cm, 12-14 cm, and 14-16 cm trees.

Tree aftercare and pruning: When a tree is lifted/harvested it will lose a percentage of it's root system. As a result the roots are unable to supply the crown with the water demand being placed on the root system which can cause stress to the tree. As a result the tree will respond by reducing the amount of foliage, in some cases when the water storage is great the tree will shed wood from the crown.

The flow of water within the bark will normally prevent this, however, after planting less water is transpired and as a result the trunk is at risk of sunburn. The setting sun will cause the most potential damage. Most of the damage will be visible on the western side of the tree.

Note: This is to only be done as a temporary measure as the tree is establishing, after which the hessian is to be removed. Monitoring of the trees is to be carried out during the rectification period and as part of the long term management. The following points are to be considered and monitored:

- Watering, trees will require watering for the first two years after planting, after which they will generally look after themselves. The number of times will depend on location, weather conditions and growing season. Therefore, as the tree is a growing organism the required experience and knowledge will determine the number of times the tree is watered to ensure establishment.

Proposed Ornamental Shrub / Perennial Planting: To be planted in a minimum of 300mm depth 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 (5 or 10 litre), all stock is to be well watered into the container but not pot bound.

Planting Guidelines: All planting and landscape operations should comply with the requirements specified in BS 3936:4:2007 'Nursery Stock' (Part One) and BS4428:1989 'Code of Practice for General Landscape Operations' (excluding hard surfaces). All topsoil and testing to conform to BS 3882: 2015 'Specification for Topsoil and Requirements for Use'.

Irrigation of plant material to be carried out during periods of drought will be required to ensure successful establishment of all plant stock. All new planting to be protected from mammal and human damage by stock proof fencing. If planting is to be carried out outside the growing season, all bareroot / rootballed plant stock is to be substituted with containerised stock.

Watering as required to maintain healthy growth. Any species that die or fail to establish in the first five years should be replaced by an identical species, or alternative species as agreed with LPA.

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 Conservation Recommendations'.

Final location and tree species selection will be subject to service report and foundation depths to be provided by engineers. Planting within visibility splays to include ground cover plants only and to be maintained at 600mm high.