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IMPLEMENTATION GUIDELINES

1.0 GENERAL
All plants shall conform to BS 3838 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting shall not be undertaken when the ground is waterlogged, frostbound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water-retaining polymer. If the formation level is compacted it should be topped through before topsoiling.

2.0 ORNAMENTAL SHRUBS AND TREES

2.1 Ground Preparation
Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period as recommended by the manufacturer for this to take effect. A general purpose slow release fertiliser at the rate of 75g/m² and Tree Planting and Mulching Compost at the rate of 20litres/m² are to be incorporated into the top 150mm of topsoil during final cultivations. All extraneous matter such as plastic, wood, metal and stones greater than 35mm in any dimension shall be removed from site. Surface levels should remain regular and even. Tree pits are to be excavated and the base broken up a further 150mm with the sides well scarified to prevent eimering. All trees up to and including selected standards are to be supported with single 75mm diameter stakes. All rootball, container grown and trees over heavy standard size shall be fitted with a below ground anchoring system. Stakes should be driven 500mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc. Shrub Planting to have 200mm topsoil and a minimum of 600mm subsoil. Shrub pits to be broken up to full depth of topsoil.

2.2 Planting
Shrubs and hedges are to be set out as shown on the drawing and pit planted into the prepared soil at the specified centres with minimal disturbance to the rootball and well firmed in. Trees are to be placed into the pits and backfilled with topsoil incorporating slow release fertiliser and Tree Planting and Mulching Compost. Firm trees in well. Water in all trees and shrubs at the end of each day of planting. Tree pits must be positively drained unless soils are proven to be free draining. Spread ornamental pine bark mulch to a depth of 75mm across all new planting areas ensuring groundcover plants are not buried. Ornamental hedges to be supported by canes where required.

3.0 NATIVE WOODLAND AND SHRUB PLANTING
Planting areas to have 300mm Topsoil and 600mm Subsoil (min). Prior to planting use appropriate measures to suppress weed growth to all shrub areas. Planting pits to be broken up to full depth of topsoil. All stones above 35mm, roots, debris and other deleterious materials to be removed prior to grading. Surface levels should remain regular and even. Standard trees within woodland mix to be planted as per section 2.0 above.

4.0 HEDGEROW PLANTING
Planting areas to have 300mm Topsoil and 450mm Subsoil (min). Plant shrubs in trenches large enough to take full spread of roots. Plant in a double staggered row 350mm apart and with 550mm between rows, to result in 5 plants per linear metre. Finish with 75mm depth of bark mulch for weed suppression.

5.0 MARGINAL AND AQUATIC PLANTING
Planting areas to have topsoil - 300mm site won or imported soils with low nutrient levels and a friable texture. Subsoil - existing made good plus won medium or heavy subsoil as required to achieve finished levels.

6.0 TIMINGS
Bare rooted and root balled stock to be planted between mid-November and end-February. Seed shall be sown as per manufacturer's recommendations.

7.0 PLANT PROTECTION AND MULCH
Native shrub and hedgerow plants to be protected by spiral guards or shrub shelters as appropriate. Where necessary trees to be protected with guards as appropriate. On plot planting beds to be mulched with 50mm of ornamental bark over weed suppressant membrane. Planting beds in key areas of public open space areas to be mulched with 75mm of amenity bark mulch without membrane.

8.0 ROOT BARRIERS
Where proposed trees are located adjacent to roads/pathways root protection barriers to be provided on footpath side of tree pit. Location and design of barriers to be agreed with project engineer.

9.0 AMENITY GRASS
Areas to be sown with amenity grass mix or turfed to have 150mm Topsoil and a minimum 450mm subsoil.

9.1 Preparation
Topsoil to be broken up to full depth to fully incorporate ameliorant/fertilizer. All stones above 35mm, roots, debris and other deleterious materials to be removed prior to grading. Finished levels after settlement should be 25mm above adjacent paving levels. For final cultivation, reduce seed bed to fine, firm tilth with good crumb structure. Seed to be broadcast at a rate of 35g/m² unless otherwise stated.

9.2 Turf
Front gardens to be turfed. Turfing operations shall be in accordance with BS 4426. Whole turves shall be laid around the perimeter of the area to be turfed. The central area shall be laid in rows with staggered joints, well buttled together, working from planks positioned on grass already laid. The turf shall be watered on completion. Any unevenness shall be made good by lifting the turf and adjusting the levels. Should shrinkage occur, fine topsoil shall be brushed into the joints. Turf must be rolled out immediately in spring/summer and within 24 hours of delivery in the autumn/winter.

9.3 Seeding
To be seeded according to manufacturer's instructions.

10.0 MEADOW GRASSLAND AND WETLAND MEADOW
Wildflower and wetland meadow areas to have 150mm low nutrient top soil (in high nutrient soils within 1 metre of the surface) and a minimum 450mm depth subsoil. Ground should be free of weeds (particularly docks and ribwort) and stable. Ground to be worked to a medium tilth and seeded according to manufacturer's instructions.

11.0 TOPSOIL
11.1 Existing Topsoil
Carry out the following works to the existing topsoil on site to ensure it conforms to BS 3882:2015, being free from rocks larger than 50mm diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilize with 100g per meter square of Vitas 'Nutricote 180' slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 meters in width, work over thoroughly or machine cultivate soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm, except where there are services, or within 10 metres of free drains or 3 metres of existing hedges. Do not to areas where roots greater than 10mm diameter are encountered.

11.2 Imported Topsoil
Any imported topsoil for making up ground, shall conform to BS 3882:2015, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than 20% clay. It is essential that the following information, at least, be provided by the supplier prior to supplying the topsoil:

- a) Number and date of British standard BS 3882
- b) Soil source
 - For natural topsoil: Description of location including previous and current land use and OS grid reference.
 - For manufactured topsoil: name of producer
- c) Designation of the topsoil
- The supplier's understanding of the intended use of the soils where the topsoil will be used
- d) Details of the laboratory that performed the analysis
 - e) Date the topsoil was sampled, date the sample was received by the laboratory, date the laboratory reported the results
 - f) Soil texture class
 - g) Content of coarse fragments
 - h) Mass loss on ignition
 - i) pH of the topsoil
 - The carbonate content, total nitrogen, extractable phosphate, potassium and magnesium, carbon: nitrogen ratio
 - j) Topsoil electrical conductivity
 - k) Content of potentially phytotoxic elements
 - Content of visible contaminants; plastics and/or sharps

12.0 To be maintained according to management plan. All planting to be watered to ensure survival.

NOTES

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KEY

- Site Boundary
- Existing Vegetation
- Proposed Trees
(Heavy standard 12-14cm girth, 3.50-4.00cm height)
- Proposed Ornamental Hedgerow
(Planted single row at 200mm centers at 5 plants per linear meters)
- Proposed Ornamental Shrub Planting
- Proposed Wall Climber
- Amenity Turf

For POS proposals see 10095-FPCR-XX-XX-DR-L-00015-0020

Planting Schedule

INDIVIDUAL TREES

Qty	Latin Name	Common Name	Height	Form	Root Condition	Minimum Clear Stem	Girth
31	Betula pendula 'Fastigiata'	Upright silver birch	350-400cm	Heavy Standard	RB	Min 200cm	12-14cm
16	Prunus 'Accolade'	Cherry	350-400cm	Heavy Standard	RB	Min 200cm	12-14cm
8	Prunus 'Amanogawa'	Cherry	350-400cm	Heavy Standard	RB	Min 200cm	12-14cm
22	Prunus 'Spire'	Flowering cherry 'Spire'	350-400cm	Heavy Standard	RB	175-200cm	12-14cm
8	Ulmus 'New Horizon'	elm 'New Horizon'	350-400cm	Heavy Standard	RB	Min 200cm	12-14cm

HEDGEROWS (planted in a single row, 5 plants lin/m)

Qty	Latin Name	Common Name	Height	Form	Root Condition
1065	Carpinus betulus	Hornbeam	60-80cm	10L	B
2359	Fagus sylvatica	Common beech	60-80cm		BR

PLANTING BEDS

Qty	Latin Name	Common Name	Height	Container Size	Rate/Plants m ²
31	Abelia grandiflora		40-60m	5L	3
84	Achillea 'Cloth of Gold'	Yarrow	20-30cm	3L	4
46	Achillea 'Moonshine'	Yarrow	20-30cm	3L	4
83	Anemranthe lessoniana	New Zealand Wind Grass	30-40cm	3L	5
46	Aster x frikartii 'Monch'	Aster 'Monch'	20-30cm	3L	3
40	Astilbe 'Purpurianze'	Chinese astilbe	30-40cm	3L	3
94	Bergenia 'Bressingham White'	Elephant's ears	20-30cm	5L	5
141	Bergenia cordifolia 'Purpurea'	Elephant's Ears	20-30cm	3L	5
154	Carex buchananii 'Red Rooster'	Bronze Sedge	20-30cm	2L	---
498	Carex morrowii 'Ice Dance'	Ice Dance Japanese Sedge	20-30cm	3L	5
709	Carex oshimensis 'Evergold'	Oshima kan suge	20-30cm	2L	---
144	Choisya ternata 'Sundance'	Mexican orange blossom	40-60cm	5L	3
33	Choisya x dewitteana 'Aztec Pearl'	Mexican orange	30-40cm	7L	3
229	Cistus x laxus 'Snow White'	Rock rose 'Snow White'	40-60cm	3L	3
49	Deschampsia caespitosa 'Goldtau'	Tufted hairgrass or fairy wand	30-40cm	3L	4
38	Deschampsia flexuosa 'Tatra Gold'	Golden wavy hair grass	30-40cm	3L	4
323	Elaeagnus x submacrophylla	Ebbinge's silverberry	60-80cm	5L	3
179	Escallonia 'Pride of Donard'		40-60cm	3L	3
69	Euonymus alatus	Burning bush	30-40cm	5L	3
36	Euonymus fortunei 'Emerald Gaiety'	Spindle 'Emerald Gaiety	30-40cm	3L	3
116	Euonymus fortunei 'Emerald n Gold'	Euonymus 'Emerald and Gold'	30-40cm	5L	3
16	Euonymus fortunei 'Silver Queen'	Spindle Silver Queen	30-40cm	1.5-2L	3
220	Euonymus japonicus 'Albomarginatus'	Spindle	40-60cm	5L	3
25	Fatsia japonica	Japanese aralia	60-80cm	5L	3
96	Festuca glauca	Blue grass	20-30cm	1.5-2L	4
86	Geranium macrorrhizum	Cranesbill	20-30cm	3L	3
438	Geranium 'Rozanne'	Rozanne Cranesbill	20-30cm	3L	5
67	Hebe albicans	Hebe	40-60cm	5L	3
62	Hebe rakalensis	Hebe	20-30cm	3L	3
96	Hebe 'Red Edge'	Hebe	30-40cm	3L	3
146	Hypericum 'Hidcote'		30-40cm	3L	3
100	Hypericum x moserianum	St. John's wort	30-40cm	3L	3
392	Lavandula angustifolia 'Hidcote'	Lavender 'Hidcote'	30-40 cm	3L	3
244	Mahonia aquifolium 'Apollo'	Oregon grape	20-30cm	3L	4
66	Nandina domestica 'Fire Power'	Heavenly bamboo 'Fire Power'	20-30cm	5L	3
759	Nepeta 'Six Hills Giant'	Catmint	30-40cm	3L	3
270	Pennisetum alopecuroides 'Little Bunny'	Chinese fountain grass 'Little Bunny'	30-40cm	3L	5
145	Phlomis fruticosa	Jerusalem sage	20-30cm	3L	3
25	Phormium tenax 'Purpureum'	New Zealand Flax	40-60cm	5L	3
74	Pittosporum tenuifolium 'Golf Ball'	Tawhiwhi 'Golf Ball'	30-40cm	5L	3
68	Pittosporum tenuifolium 'Silver Queen'	Tawhiwhi 'Silver Queen'	30-40cm	5L	3
161	Pittosporum tenuifolium 'Tom Thumb'	New Zealand Pittosporum	40-60cm	5L	3
128	Potentilla fruticosa 'Red Ace'	'Red Ace' cinquefoil	20-30cm (D)	3L	3
131	Rosmarinus officinalis	Rosmary	30-40cm	3L	3
131	Rudbeckia fulgida 'Goldsturm'	Coneflower, Black-eyed Susan	30-40cm	3L	3
24	Salvia nemorosa 'Amethyst'	Balkan clary	20-30cm	3L	3
137	Salvia nemorosa 'Caradonna'	Balkan clary	20-30cm	3L	3
308	Sarcococca confusa	Christmas box	30-40cm	5L	3
175	Skimmia japonica 'Rubella'		30-40cm	3L	3
83	Spiraea japonica 'Goldflame'	Japanese spiraea	30-40cm	3-4L	4
152	Stachys byzantina	Lamb's ear	10-20cm	3L	3
43	Viburnum davidii	David's viburnum	20-30cm	5L	3
251	Vinca minor	Lesser periwinkle	20-30cm	3L	5
91	Lonicera periclymenum	Common honeysuckle	60-80cm	2L	0
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P05	01/11/2023	Added Climbers amended species.	SDO	TCM
P04	13/10/2023	Amendments based on comments	PIM	TCM
P03	28/09/2023	Change of layout and amendments from comments.	SDO	TCM
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**Land West of Pagham Road
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