



KEY:

- Existing Trees/Vegetation Retained
- Proposed Tree Planting
- Proposed Mixed Native Hedge Transplants/Structure Planting
- Proposed Single Species Native Hedge Planting
- Proposed Shrub Planting
- Proposed Grass - Rear Garden Turf
- Proposed Grass - Amenity Grass - Hardy Flowering Lawn Mix EL1
- Proposed Grassland/Wildflowers - Standard General Purpose Meadow Mixture EM2
- Proposed Grassland - Swales - Meadow Mixture for Seasonally Wet Wetlands EM8
- Proposed Grassland - Hedgerows - Hedgerow Mixture EH1
- Proposed Bulb Planting

TREE PLANTING

Code	Species	Form	Girth cm	Height cm	Root Condition
AC	Acer campestre	EHS	14-16	425-600	65/85 L
ACS	Acer campestre 'Streetwise'	EHS	14-16	425-600	65/85 L
AG	Alnus glutinosa	EHS	14-16	425-600	65/85 L
AP	Acer pseudoplatanus	EHS	14-16	425-600	65/85 L
BP	Betula pendula	EHS	14-16	425-600	65/85 L
BJ	Betula utilis var. jacquemontii	EHS	14-16	425-600	65/85 L
CBFF	Carpinus betulus 'Frans Fontaine'	EHS	14-16	425-600	65/85 L
ME	Malus 'Evereste'	EHS	14-16	425-600	65/85 L
PC	Pyrus calleryana 'Chanticleer'	EHS	14-16	425-600	65/85 L
PA	Prunus avium	EHS	14-16	425-600	65/85 L
PAP	Prunus avium 'Plena'	EHS	14-16	425-600	65/85 L
PSB	Prunus 'Sunset Boulevard'	EHS	14-16	425-600	65/85 L
SA	Sorbus aria	EHS	14-16	425-600	65/85 L
SAU	Sorbus aucuparia	EHS	14-16	425-600	65/85 L
SCE	Sorbus commixta 'Embley'	EHS	14-16	425-600	65/85 L

NATIVE STRUCTURE PLANTING @ 1M CTRS

Code	Species	Root Condition	Age + Transpl	Height cm
AC	Acer campestre (10%)	Bagged	1+1	40-60
BP	Betula pendula (10%)	Bagged	1+1	40-60
CB	Carpinus betulus (10%)	Bagged	1+1	40-60
CM	Crataegus monogyna (10%)	Bagged	1+1	40-60
CA	Corylus avellana (10%)	Bagged	1+1	40-60
IA	Ilex aquifolium (10%)	9cm pot	1+1	30-40
LV	Ligustrum vulgare (10%)	Bagged	1+1	40-60
PS	Prunus spinosa (10%)	Bagged	1+1	40-60
TB	Taxus baccata (10%)	Bagged	1+1	40-60
VO	Viburnum opulus (10%)	Bagged	1+1	40-60

PLANTING NOTES

All plants to be supplied in accordance with the HTA National Plant Material and from a HTA certified nursery. All plants and trees to be planted in accordance with BS3396 and BS8545. Delivery and handling of all plant material to be in accordance with BS4428/JCL/PCSE Code of Practice for 'Handling and Establishing Landscape Plants' Parts 1, 2 and 3 and BS8545.

Planting Pit and Trench Preparation

Tree pits in soft landscape to be excavated to 1m x 1m x 1m depth prior to topsoiling and all shrub planting areas excavated to 450mm depth. All proposed hedge planting trenches to be excavated to 600mm depth unless otherwise specified, all tree pits in hard landscape to be 2m x 2m x 1m, backfilled with crushed rubble larger than 50mm diameter and any other debris that may interfere with the establishment of plants. The Contractor shall break up and cultivate at the base of the trenches or planting pits. The sides of the trenches or planting pits shall be loosened with a fork or other similar implement. All stones and the like over 75mm in any dimension, deleterious matter, weeds and weed roots brought to the surface by any cultivation or excavation shall be removed off site. The Contractor shall remove off site the excavated subsoil material when preparing planting pits. The imported topsoil should make up any deficiencies caused by the removal of the subsoil material. Trenches and pits shall have the topsoil and any subsoil material thoroughly broken up and mixed prior to backfilling with a compact, contained rootball. They shall be nursery grown and have been regularly watered. Prior to planting, all plant material shall be stored and sorted at in accordance with best practice.

Planting

All plants shall be planted in a random fashion avoiding formal regimented lines at densities indicated in the schedule, unless otherwise specified. Unless otherwise specified, all hedgerows shall be planted in a double staggered rows and hedgerow mixes shall be planted in groups of 7, 9 & 13s at densities indicated on the schedule. Ornamental shrub planting mixes shall be planted in groups of 5, 7 & 11s and native shrub planting mixes shall be planted in groups of 9, 13 & 15s. The selection, procurement, handling, storage and planting operations of all proposed trees shall be in accordance with BS5428:2014. Trees from nursery to independence in the landscape, recommendations.

Planting and associated operations shall comply with BS4043, BS4428, BS5837 and BS8545. Unless otherwise stated planting shall be carried out during the period of 1 Nov to 31 March when the ground is not frozen or waterlogged. If planting is required outside this period agreement shall be sought and all bare root plants shall be substituted with container grown stock.

Watering

All plants shall be watered in to field capacity immediately after planting and mulched with 50mm depth of medium grade crushed mulch. The Contractor shall water the trees, shrubs and hedges once planted so that the entire tree pit or planted area is moistened to field capacity. i.e. 'the amount of water retained by previously saturated soil once full drainage has ceased'. Watering to field capacity shall continue frequently and on a regular basis as considered necessary by the landscape contractor and as necessary to ensure the successful establishment and continued thriving of all planting. Additional watering shall be undertaken during summer months and/or periods of drought. Post planting management and maintenance specifically for new tree planting shall include ongoing irrigation and formative pruning as outlined in BS8545. The period over which regular irrigation required for transplanted trees is likely to be at least two full growing seasons to ensure successful establishment. As the root system develops the frequency of irrigation can be reduced.

Staking

All trees within soft landscape areas to be double staked with cross bar and tied, using 1.5m long, 75mm diameter rounded tree stakes 75mm brace, rubber tie and spacer block. Stakes not to extend more than 600mm above ground level. All trees within hardstanding/highways visibility splays to be clear stem to 1.5m high unless otherwise specified. Trees within hardstanding / splays to be underground guyed unless otherwise specified.

Sprink Guards

50cm Treble spiral guards (or similar) to be applied to new trees and native shrub planting. Guards to be located at base of trunk and secured with bamboo stake, or as per manufacturer specification.

Protection of Existing Vegetation to be Retained

Existing trees to be retained shall be protected in accordance with BS5837, from commencement to completion of all works on site.

N.B. All planting proposals including tree planting have been developed in order to create a high quality environment and gain planning consent for the development. All tree species have been reviewed in line with NHC guidance (2017) and in the absence of any building foundation depths or detailed soil analysis information for the site. Where possible only low and moderate water demand species are proposed in close proximity to new buildings. A number of varied cultivars of these species as well as ornamental species that have a smaller overall mature height (which are not currently assessed within NHC guidance 2017) are proposed to provide variety in the scheme and engineer's should consider these locations & species. Where necessary new building foundation depths shall be designed to accommodate the approved tree species, site specific soil analysis and tree water demand in line with NHC standards 2017 (Chapter 4.2 - Building Near Trees). Planting plans have been prepared for planning purposes and in the absence of fully detailed ground investigations, geological or hydrological surveys and planting design or species choice may be subject to change - suitability should be confirmed on site by the landscape contractor. Detailed site specific soil analysis and suitable site drainage should be checked by landscape contractor to ensure planting can be implemented in accordance with approved drawings prior to implementation.

NATIVE HEDGE TRANSPLANTS @ 5 per linear metre in double staggered row

Code	Species	Root Condition	Age + Transpl	Height cm
AC	Acer campestre (10%)	Bagged	1+1	40-60
CM	Crataegus monogyna (50%)	Bagged	1+1	40-60
CA	Corylus avellana (10%)	Bagged	1+1	40-60
LV	Ligustrum vulgare (10%)	Bagged	1+1	40-60
PS	Prunus spinosa (10%)	Bagged	1+1	40-60
VO	Viburnum opulus (10%)	Bagged	1+1	40-60

SHRUB AND HEDGE PLANTING

Code	Species	Height spread cm	Pot size (Litres)	Habit	Min no. of breaks	No. / m ²
BCP	Bergenia cordifolia Purpurea	15-20	3L	-	-	5
BSF	Buxus sempervirens Faulkner	30-40	3L	Bushy	5	5
CAE	Cornus alba Elegantisima	40-60	3L	Branched	3	1.5
CAK	Cornus alba Kesselringii	40-60	3L	Branched	4	1.5
CK	Cornus sericea 'Kelsey'	40-60	3L	Branched	4	4
CACC	Cornus alba Cream Cracker	40-60	3L	Branched	4	1.5
CCB	Cotoneaster 'Coral Beauty'	30-40	2L	Spreading	3	3
CBH	Carpinus betulus (hedge)	60-80	2L	Feathered	4	5/lin m
CE	Carex oshimensis Evergold	20-30	2L	-	-	5
CSK	Cotoneaster 'Skogholm'	30-40	3L	Spreading	3	3
CSP	Cistus Silver Pink	30-40	3L	Bushy	3	3
CMWF	Cornus sanguinea 'Midwinter Fire'	40-60	3L	Branched	3	4
CT	Choisy ternata	30-40	3L	Bushy	7	1.5
EE	Elaeagnus x ebbingei	60-80	3L	Bushy	3	1.5
EAG	Euonymus Emerald 'n' Gold	20-30	3L	Bushy	7	5
EEG	Euonymus Emerald Gaiety	20-30	3L	Bushy	7	5
FSH	Fagus sylvatica (hedge)	60-80	2L	Feathered	4	5/lin m
HAR	Hebe albicans Red Edge	20-30	3L	Bushy	5	3
HR	Hebe rakaiensis	20-30	3L	Bushy	5	3
HH	Hypericum Hidcote	30-40	3L	Bushy	5	2
HMW	Hebe 'Mrs Winder'	20-30	3L	Bushy	7	3
LAV	Lavandula Hidcote	20-30	3L	Bushy	5	5
LBG	Lonicera Baggesens Gold	30-40	3L	Bushy	3	4
LM	Lonicera Maygreen	30-40	2L	Bushy	3	3
MA	Maianthemum Aegle	30-40	3L	Bushy	3	2.5
OH	Oleandra haastii	30-40	3L	Bushy	2	3
OB	Osmanthus burkwoodii	30-40	3L	Bushy	5	1.5
PAB	Potentilla burkwoodii	30-40	3L	Bushy	4	2.5
PE	Potentilla Elizabeth	30-40	4L	Bushy	6	2.5
PAR	Pennisetum advena 'Rubrum'	20-30	3L	-	-	5
PRA	Potentilla Red Ace	30-40	3L	Bushy	4	2.5
POL	Prunus Otto Luyken	30-40	3L	Bushy	3	2
PRR	Photinia x Fraseri 'Red Robin'	40-60	3L	Branched	6	1.5
PV	Pennisetum vilosum	20-30	3L	-	-	5
RK	Rosa 'Kent'	30-40	3L	Bushy	4	3
RR	Rosa 'Herfordshire'	30-40	3L	Bushy	3	3
RO	Rosmarinus officinalis	20-30	3L	Bushy	-	5
RS	Rosa 'Suffolk'	30-40	3L	Bushy	4	3
SAW	Spiraea Anthony Waterer	30-40	3L	Branched	5	3
SG	Spiraea Goldflame	20-30	2L	Bushy	5	3
SH	Symphoricarpos Hancock	40-60	3L	Branched	2	2
SHo	Sarcococca hookeriana	30-40	3L	Bushy	3	3
SKW	Skimmia 'Kew White'	30-40	3L	Bushy	3	3
SO	Salvia officinalis	20-30	3L	-	-	5
SOP	Salvia officinalis 'Purpureas'	20-30	3L	-	-	5
SR	Skimmia japonica 'Rubella'	30-40	3L	Bushy	3	3
SNS	Spiraea Snowmound	40-60	3L	Branched	5	3
SS	Senecio Sunshine	30-40	3L	Bushy	4	2
VM	Vibum Minor	15-20	2L	-	-	5
VD	Viburnum davidii	30-40	3L	Bushy	3	3
VTEP	Viburnum tinus 'Eve Price'	30-40	3L	Bushy	7	1.5