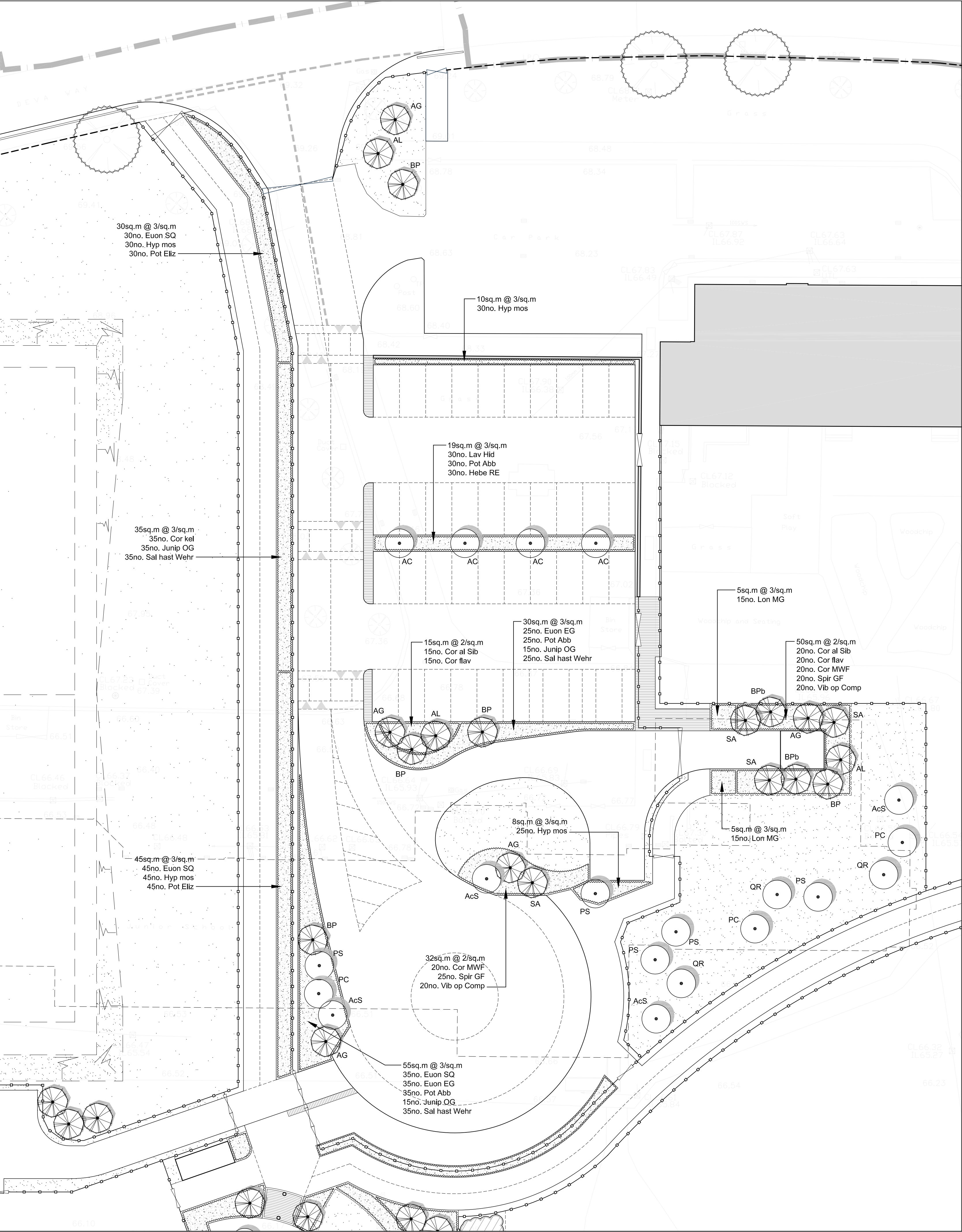




Planting & Aftercare Specification

Timing
The planting scheme is to be implemented within the first available planting season (October to March) after the first use of the development.

Planting medium
Imported topsoil is to comply with BS 3882 (2007) Multipurpose. Tree and shrub Planting compost is to be ALS Premier peat free tree planting and mulching compost incorporating Complete Soak granular at time of manufacture. Generally allow for 2 parts topsoil and 1 part planting compost. All available from Amenity Land Services (Tel no. 01592 641 949).

Proposed amenity grass areas to comprise min 300mm depth free draining soil overlain with min. 150mm depth imported topsoil cover. Proposed wildflower grass areas to be free of imported topsoil but graded smoothly into adjacent soiled areas

Allow for min. 450 mm depth topsoil cover for all proposed native, amenity shrubs and ground cover beds with formation cleared of debris / foreign material and broken up to min. 150mm depth to relieve compaction.

Planting
Plant material is to comply with BS3936 (Specification for Nursery stock, Part 1, 1992) and BS5236 (Recommendations for the cultivation of trees in the Extra Large Nursery Stock Category) unless otherwise approved. Lifting, handling,, delivery and temporary storage of plant material will be the responsibility of the Contractor and should be carried out in accordance with the Plant Handling specification issued by the Committee for Plant Supply and Establishment. Prior to mulching allow for watering all trees and shrubs, perennials and green screens to full ground capacity at time of planting. Newly seeded / turfed grass areas should be kept adequately watered until satisfactorily established.

Trees in open grass will require proprietary strimmer guards to be fitted in accordance with suppliers recommendations - available from Amenity Land Services (Tel no. 01592 641 949).

Mulch
Mulch for trees / ornamental shrubs / groundcover is to be an approved type Bark mulch (range 5 - 35mm to be spread throughout all planted areas to a depth of 75mm and topped up annually. Trees in grassland are to be mulched to 75mm depth around the base to a 500mm radius and kept weedfree throughout the establishment period.

Wildflower grass areas
Existing and proposed rough, unmanaged and enhanced grassland areas are to be established and managed with reference to consulting ecologists recommendations

Ground Anchors (14-20cm girth trees)
ANS tree anchors are to be Platipus tree anchoring system RF IP or similar approved type including Plati-Mats. Irrigation system for standard and larger trees is to be Piddler Tree Irrigation or similar approved type sized to suit rootball dia. All available from Amenity Land Services (Tel no. 01592 641 949)

Tree stakes and ties (Feathers and <14cm trees)
Tree stakes are to be untreated softwood, straight pointed at one end, free of bark and without any projections. Stake use will vary according to the species of tree being supported as shown on the drawings. All stakes are to be long enough to project 900mm into the ground and to finish at specified heights above ground after fixing. Tree stakes are to be set to the windward side of trees in advance of planting unless otherwise requested. Stakes should be driven to a minimum depth of 900mm finishing 600mm above ground.

Tree ties are to be Greenleaf hessian NatureTie or similar fixed in accordance with suppliers recommendations. Tree stakes and ties are to be removed after 2-3 years to ensure successful establishment within the statutory aftercare period.

5 year establishment period
Each year check monthly (April to October) the health and vigour of all trees, shrubs and groundcover and prune to remove dead branches, maintain good form and encourage flowering once annually at an appropriate time.

Allow for clearing litter from planting beds

Keep all planted areas weed free at all times, top up mulch to all planted areas to maintain 75mm depth at least once annually. Maintain a fully mulched, weed free 1m ring around each tree in open grass areas. Each year any plant material which is dead, dying or failing to thrive is to be replaced on a like for like basis during the first planting season (October to March) following failure.

Allow for checking / firming tree stakes / soil around rootballs and adjusting tree ties at least monthly. Remove tree ties and stakes after 2-3 years.

Allow for mowing sports and amenity grassland areas upto 13 times annually and for re-levelling, seeding and reinstatement of any damaged areas of grass. Delay cutting bulb areas under trees and around shrub beds where indicated to suit flowering period of bulbs. Allow for managing wildflower grassland areas in accordance with consulting ecologists recommendations

Irrigation
Allow for watering all shrubs, perennials, green screens and newly established grass areas to full ground capacity as required, checking weekly during times of drought, and watering to full ground capacity on each occasion.

Standard and larger tree Irrigation - Generally, trees may need to be watered regularly from April to October during the establishment period in accordance with the following schedule.

Year one - Allow for irrigating fortnightly between May and September inclusive (10 irrigation visits), however if no significant rainfall is received during April start cycle one month early (12 irrigation visits in total).

Year two - Allow for irrigating once in May and September and fortnightly June, July, August (8 irrigation visits), however if no significant rainfall is received during April start cycle one month early (9 irrigation visits in total).

Year three - Allow for irrigating once in June, twice in July, once in August (4 irrigation visits)

NB - Summer showers that may seem heavy do not penetrate more than 5cm of soil and do little to help the tree establish, accordingly fortnightly watering should be a regular routine regardless of summer rainfall.

Standard and larger trees are to be fitted with proprietary irrigation tubes as described, trees in open amenity grassland are to be planted into localised 1000-1200mm dia depressions 50-100mm deep to localise the infiltration of water during irrigation.

As a general rule provide 50 litres for every 25cm of trunk circumference. Apply half the water via the irrigation pipe (if fitted) and half over the surface of the pit area, so that it soaks into the area of the root system. Take care to ensure that water does not run off the surface, taking it away from the tree. If necessary form berms to the edge of the pit area, to retain the water as it is applied. Use this table as a guide for the amount of water to be delivered at each watering:

Stem Girth (cm)	Height	Litres
12/14	2.5 - 3.0	25
14/16	2.5 - 3.0	30
16/18	3.0 - 3.5	35
18/20	3.5 - 4.0	40
20/25	4.0 - 4.5	50
25/30	4.5 - 5.0	60
30/35	5.0 - 5.5	70
35/40	5.5 - 6.0	80
40/50	6.0 - 7.0	100
50/60	7.0 - 8.0	120
60 +	8.0m +	140

During periods of exceptionally wet weather do NOT water if the ground around the rootball is sodden, delay watering for one week and re-assess. If water is puddled on top of the rootball or pit area then gently use a fork to create holes around the edge of the tree pit, not too close to the rootball, to increase drainage and to stop the soil becoming anaerobic. Remove any water that does not drain away significantly from the surface of the rootball with a bucket.

During periods of severe drought - before watering use a fork to create holes around the edge of the tree pit, not too close to the rootball, to increase permeation of water and deliver 1.5 times the amount of water stated in the above table. After watering cover the entire pit area with bark mulch to a depth of 75mm as described.

PLANTING SCHEDULE

Shrub planting (2 or 3/sq.m)	Height	Grown	No.	Notes
Brachyglottis Sunshine	30-40cm	PG 2L	40	Bushy
Cornus alba Sibirica	60-90cm	BR	80	1 + 2
Cornus flaviramea	60-90cm	BR	80	1 + 2
Cornus kelseyi	20-30cm	PG 2L	35	Bushy
Cornus sang Mid Winter Fire	60-90cm	BR	80	1 + 2
Euonymus Silver Queen	20-30cm	PG 2L	150	Bushy
Euonymys Emerald Galety	20-30cm	PG 2L	75	Bushy
Hebe albicans Red Edge	20-30cm	PG 2L	65	Branched
Hebe White Gem	20-30cm	PG 2L	60	Branched
Hypericum moserianum	20-30cm	PG 2L	130	Bushy
Juniperus pfitzeriana Old Gold	30-40cm	PG 3L	75	Branched
Lavandula Hildcote	20-30cm	PG 3L	70	Bushy
Loniceria pileata May Green	20-30cm	PG 2L	170	Bushy
Perovskia Blue Spire	30-40cm	PG 2L	15	Bushy
Potentilla frutic Abbotswood	30-40cm	PG 2L	140	Bushy
Potentilla frutic Elizabeth	30-40cm	PG 2L	90	Bushy
Rosmarinus officinalis	20-30cm	PG 2L	10	Branched
Salix hastata Wehrhahnii	20-30cm	PG 2L	115	Branched
Spirea japonica Gold Flame	40-60cm	BR	85	Bushy
Viburnum opulus Compactum	30-40cm	PG 2L	80	Branched

Note - Plant in single species swathes within mixed shrub beds

Feathered Trees	Height	Grown	No.	Notes
AG Alnus glutinosa	1.75-2m	Air PG	9	low stake
AL Amelanchier lamarckii	1.75-2m	Air PG	8	low stake
BP Betula pendula	1.75-2m	Air PG	8	low stake
BPb Betula pubescens	1.75-2m	Air PG	3	low stake
PA Prunus avium	1.75-2m	Air PG	2	low stake
PV Pinus sylvestris	1.5-1.75m	Air PG	2	Ground anchors
PT Populus tremula	1.75-2m	Air PG	2	low stake
SA Sorbus aucuparia	1.75-2m	Air PG	8	low stake
SAr Sorbus aria	1.75-2m	Air PG	3	low stake

Heavy Standard Trees

	Girth	Grown	No.	Notes
AcS Acer campestre Streetwise	12-14cm	Air PG	7	Ground anchors
PS Prunus Snow Goose (Umineko)	14-16cm	Air PG	7	Ground anchors
PC Pyrus Chanticleer	14-16cm	Air PG	6	Ground anchors
QR Quercus robur	12-14cm	Air PG	4	Ground anchors

Extra Heavy Standard Trees

	Girth	Grown	No.	Notes
AC Alnus Cordata (AGM)	14-16cm	Air PG	4	Ground anchors
KP Koelreuteria paniculata	14-16cm	Air PG	3	Ground anchors

Note - Standard avenue trees to be evenly matched

Plantation mix @ 1.5m c's (0.45/sq.m)	Height	Grown	No.	Notes
Betula pendula	80-100cm	BR	15	1+1
Corylus avellana	60-80cm	BR	20	1+1
Crataegus monogyna	60-80cm	BR	15	1+1
Ilex aquifolium	60-80cm	PG 2L	10	Bushy
Populus tremula	80-100cm	BR	10	1+1
Prunus avium	80-100cm	BR	10	1+1
Quercus robur	80-100cm	BR	10	1+1
Salix capraea	60-80cm	BR	10	1+1
Salix cinerea	60-80cm	BR	10	1+1
Sorbus aucuparia	80-100cm	BR	10	1+1
Viburnum opulus	60-80cm	BR	15	1+1

Bulb planting (avg ~ 10/sq.m) 3000no. Total

	Grown	No.	Notes
Crocus chrysanthus 'Blue Pearl'	/	375	/
Crocus chrysanthus 'Cream Beauty'	/	375	/
Crocus chrysanthus 'Prins Claaus'	/	375	/
Crocus chrysanthus 'Saturnus'	/	375	/
Crocus chrysanthus 'Snowbunting'	/	375	/
Fritillaria meleagris Britheg	/	375	/
Galanthus nivalis Lili Wen Fach (single)	/	375	/
Galanthus nivalis flore pleno (double)	/	375	/

Allow for planting 300sq.m in informal grassland drifts beneath informal tree groups in locations and arrangements all as finally agreed on site at avg. 10/sq.m

revision note