

GENERAL TREATMENT OF PLANTING AREAS

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 Trees in relation to design, demolition & construction - Recommendations- Section 9 (Appendix C).

Damage to Plants to be Retained: If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:

- The destruction of a plant the breaking of branches or roots
- The debarking of trunks or limbs
- The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water
- The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:

Before receiving topsoil, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.

Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):

Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and suitable for sustaining plant life. Stockpiling of soil shall be avoided whenever possible to minimise loss of physical quality, diffusion of oxygen and biological activity.

Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water run-off into a watercourse, not exceeding 1.5 metres high.

The site of the stockpile will be prepared in advance by grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area. Topsoil shall be lightly consolidated in layers not exceeding 150mm using track laying machinery.

Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e.

During or shortly after heavy precipitation

When soil is in a waterlogged condition

When the ground is frozen or covered by snow

When there are pools of water on the grounds surface.

Topsoil shall be laid to the following minimum depths: 150mm below new grass areas

300mm to rear gardens

400mm beneath new shrub areas. Finished levels, after settlement, shall be as follows:

25mm above adjacent paving from new grassed areas and non-mulched shrub beds

75mm below adjacent paving and grass for mulched planting beds.

150mm below damp proof courses.

GROUND CONDITIONING

40 litres of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds

PLANT AND PLANTING SPECIFICATION

All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Code of Practice:

BS 8545:2014 'Trees: from nursery to independence in the landscape BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)

BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)

BS 3936: Part 9 1987 Nursery stock (Specification for bulbs, corms and tubers)

BS 3936: Part 10 1990 Nursery stock (Specification for ground cover plants)

BS 4428: 1989 Recommendations for general landscaping operations.

BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn) The Code of Practice for Plant Handling 1985. (Horticultural Trades Association).

Plant Stock:

Plant stock to be supplied in accordance with the size and description specified ion the plant schedule and position indicated on the most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably hardened off for the proposed situation of planting and lifted at a time in accordance with good nursery practice. Stock shall have a well-formed fibrous root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936: Part 1:1992, Section 7, Form of Trees.

Plant Handling:

All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the procedures and methods illustrated in the publication, "Plant Handling" (Horticultural; Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root-Balled Trees.

Tree Planting:

Trees to be pit planted following supplier recommendations. Minimum pit size: Selected standard tree 600 x 600 x 600 and Heavy standard tree 900 x 900 x 700mm.

Pits to be prepared to base and sides of pit to be further scarified.

Trees to be double staked using two stakes (75mm dia.), driven into ground 400mm below bottom of pit. Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with 200-300mm (dependant on depth of pit due to size of tree) of a mix of subsoil with a 70 to 80% mix of sharp sand. Then backfill remaining area of pit with 400mm of a 3:1 mix of an approved topsoil with compost. Backfill firmly to 50mm above previous ground level to allow for settlement.

Water each tree sufficiently (dependant on size and soil conditions) in same day of planting.

All works shall be carried out to the minimum standard according to BS 3936: 1992 Part 1 Nursery Stock. Specification for Trees and Shrubs. BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:

Mulch:

Double stake all trees with two stakes, a crossbar, a spacer and webbing. Stakes to be round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately 600mm above ground level, taking care not to damage the bark. Ties: Webbing with a spacer. Tying: secure tree firmly to crossbar with spacer and webbing.

All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from fines, weeds, disease and contaminants.

Ornamental shrub and herbaceous planting:

To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant and water in thoroughly. Shrubs shall be individually pit planted in prepared pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native woodland mix and scrub mix planting

Bare root stock shall be planted between November and March. Plants to be planted in groups of 5, 7, or 9 of the same species. Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Undertake formative pruning if necessary. Each plant to be protected with a 60cm high tubex shrub shelter, with two cable ties and a timber stake.

New formal hedges

Prune back to a height of 1 metre.

Consistent in species, cultivar and clone to ensure a uniform hedge. To be planted in a previous prepared planting bed 0.6metre wide and 0.3m deep. Container stock planted centrally in a single row at 3 per metre. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Cut the tips of any wilted leading stems to encourage the roots of the cherry laurel to grow down and the plant to bush out in the first year. Sprinkle 100g per square metre of blood fish and bone fertilizer in the trench before laying each plant and backfill the trench with a 3:1 mix of an approved topsoil with compost and using your heal to firm the soil around each plant. Backfill the trench to 50mm above previous ground level creating a slightly domed shape with the highest point being at the centre of the trench to assist drainage and settlement. Planting bed to be covered with a medium grade bark mulch to a settled depth of 75mm.

New mixed native hedgerows - Double staggered

Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species. To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 330mm between plants and 300mm between rows (6 no. plants per linear metre). Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Backfill the trench with a 3:1 mix of an approved topsoil with compost and using your heal to firm the soil around each plant. Backfill the trench to 50mm above previous ground level creating a slightly domed shape with the highest point being at the centre of the trench to assist drainage and settlement. Planting bed to be covered with a medium grade bark mulch to a settled depth of 75mm. Each plant to be protected with a 60cm high tubex shrub shelter, with two cable ties and a timber stake. Prune back to a height of not less than 2 metres.

Turfed Areas:

To be specified and laid in accordance with BS. 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 25% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from general wear. Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:

Subsoil to be prepared to a depth of 300mm as per ground preparation and soil specification.

Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:

Public open spaces shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.

Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form finished levels as indicated in section, 'Topsoil'. Roll, fertilise at 50gms/sq m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

MAINTENANCE AND MANAGEMENT

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Management Company during which time the following operations shall be carried out:

Regular visits:

Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Sweep mulch spillage
- Re-firming plant stock to ensure the new planting is all planting to upright positions
- Adjust stakes and ties as necessary
- Prune plant stock as required to encourage good form
- Check all plant stock and report signs of pests, disease, death and damage

Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:

Plant stock to receive the following quantities of water:

Water each tree regularly each month dependant on size, soil conditions, and weather conditions between April and September.

Shrubs and transplants: 5 litres/plant on three occasions throughout growing season. Watering to be undertaken during the first 24 months as needed to maintain plant health.

Grass Maintenance:

Grass shall be cut throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary. The clippings shall be removed on the day of cutting to avoid nutrient build up.

Native Woodland Maintenance

Beating up; After year 2 any dead trees to be removed and replaced. An assessment to be undertaken at this time to ensure replacement species are ones which have proven so far successful in

Thinning; After 10 years woodland to be thinned out by selective removal of 15-20% of establishing woodland. An assessment will be made to identify suitable trees for removal based on health, form and success of adaption to site conditions.

Coppicing; Hazel (Corylus Avellana) in woodland to be coppiced after 10 years and thereafter every 7 years on selective cycles.

New Tree, Scrub, and Shrub Planting:

Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, thin and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter

Plant replacements:

All dead, dying and vandalised plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.

Planting Schedule

Trees						
Number of Pla	nts Abbreviation	Species	Specification	Height	Girth	Density
6 -	ACE ELS	Acer campestre 'Elsrijk'	Selected Standard: 4 brks: 2x: RB: Clear Stem min. 200cm	300-350cm	10-12cm	Counted
1 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
3 -	BET PEN	Betula pendula	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
2 -	BET JAC	Betula utilis jacquemontii	Selected Standard: 5 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm	Counted
4 -	CAR FON	Carpinus betulus 'Frans Fontaine'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm	Counted
3 -	CRA SCA	Crataegus laevigata 'Paul's Scarlet'	Selected Standard: 4 brks: 2x: RB: Clear Stem 175-200cm	300-350cm	10-12cm	Counted
1 -	PRU AVI	Prunus avium	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
1 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
2 -	SOR AUC	Sorbus aucuparia	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	TIL GRE	Tilia cordata 'Greenspire'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total :26 -		•				

Shrubs							
Number of Plan	nts Abbreviation	Species	Specification	Height	Pot Size	Density	Area
41 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	9.4778m ²
55 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	17.3201m ²
14 -	ELA LIM	Elaeagnus x ebbingei 'Limelight'	Branched: 3 brks: C	30-40cm	3L	2/m²	6.1905m ²
50 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	15.6274m²
108 -	HEBGG	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	15.0871m ²
41 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	12.8753m²
50 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	23.142m ²
53 -			Bushy: 5 brks: C	15-20cm	2L	4/m²	12.6843m²
25 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	7.8875m ²
75 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C		2L	4/m²	17.8072m ²
107 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	51.488m²
39 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	8.992m ²
34 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	15.2518m²
16 -	VIN ALB	Vinca minor 'Alba'	Several Shoots: 3 brks: C		3L	4/m²	3.7536m ²
Total :708 -							Total :217.5846m

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
30 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	7.108m ²
20 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	4.8096m ²
Total :50 -							Total :11.9176

Formal Hedge					
lumber Abbreviation Species	Specification	Height	Pot Size	Density	Length
270 - PRU ROT Prunus laurocerasus 'Rotundifol	a' Bushy: 2 brks: C	40-60cm	2L	3/m	87.8463m
					Total :87.8463r

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Length
6 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm		0.33Ctr Double Staggered at 0.3m offset	10%	9.1991m
6 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.33Ctr Double Staggered at 0.3m offset		9.1991m
224 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		0.33Ctr Double Staggered at 0.3m offset	40%	36.7962m
56 -	ILE AQU	llex aquifolium	Leader with Laterals: C	40-60cm	3L	0.33Ctr Double Staggered at 0.3m offset	10%	9.1991m
12 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		0.33Ctr Double Staggered at 0.3m offset	20%	18.3981m
28 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.33Ctr Double Staggered at 0.3m offset	5%	4.5995m
28 -	VIB OPU	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		0.33Ctr Double Staggered at 0.3m offset	5%	4.5995m
Fotal :560 -			•				•	Total :91.99

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Area
4 -	COR SAN	Cornus sanguinea	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1/m²	10%	3.6083m ²
2 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1/m²	5%	1.8042m ²
13 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	1/m²	35%	12.6292m ²
4 -	ILE AQU	llex aquifolium	Bushy: 3 brks: C	40-60cm	1/m²	10%	3.6083m ²
2 -	LIG VUL	Ligustrum vulgare	0/2: Cutting: Branched: 3 brks: B	80-100cm	1/m²	5%	1.8042m ²
6 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm	1/m²	15%	5.4125m ²
2 -	ROS ARV	Rosa arvensis	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm	1/m²	5%	1.8042m ²
2 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1/m²	5%	1.8042m ²
2 -	SOR AUC	Sorbus aucuparia	1+2: Feathered: B	100-125cm	1/m²	5%	1.8042m ²
2 -	VIB OPU	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	1/m²	5%	1.8042m ²
Total :39 -		•	•		•		Total :36.083

Proposed Mi	ixed Woodlan	d Planting					
Number	Abbreviation	Species	Specification	Height	Pot Size Density	Percentage Contribution	Area
107 -	ALN GLU	Alnus glutinosa	1+1: Transplat - seed raised: B	60-80cm	2/m²	15%	53.1275m ²
107 -	BET PEN	Betula pendula	1+1:Transplant - seed raised: B	60-80cm	2/m²	15%	53.1275m ²
107 -	BET PUB	Betula pubescens	1+1: Transplant - seed raised: B	60-80cm	2/m²	15%	53.1275m ²
37 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	2/m²	5%	17.7091m ²
178 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	2/m²	25%	88.5459m²
72 -	POP BET	Populus nigra betulifolia	0/1: Cutting: B	60-80cm	2/m²	10%	35.4184m ²
107 -	QUE ROB	Quercus robur	1+1: Transplant - seed raised: B	60-80cm	2/m²	15%	53.1275m ²
Total :715 -							Total :354.1834m²

A Minor Amendments CN 17/01/23 REV DESCRIPTION

Landscape | Trees | Ecology

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Castle Green Homes Former Ambulance Center, St Asaph

Planting Plan (Sheet 2 of 2)

DRAWN BY: CHKD BY: DATE: AC CN 16/01/2023 P.1766.23.04