

## SUMMARY PLANTING SPECIFICATION

These implementation and maintenance guidelines are for planning purposes only to indicate the level of workmanship to be specified and do not constitute a detailed specification.

### 1. GENERAL

1.1. All landscape operatives will be appropriately trained, certified and qualified to undertake the tasks required. When required, the relevant certificates will be made available for inspection. All work is to be carried out in accordance with the relevant British Standards, Codes of Practice and Legislation.

1.2. All plants shall conform to BS 3936 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.

1.3. Planting shall not be carried out when the ground is waterlogged, frost bound or during periods of cold drying winds. All bare-root planting stock will be kept covered until actually planted in order to minimise water-loss and prevent the roots from drying out. Tree handling, storage and planting shall be in accordance with BS 8545 Chapters 9 to 10 and Annexes E to F.

1.4. The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

### 2. TREE PLANTING

#### Ground Preparation and Tree Pit Excavation

2.1. Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period to elapse, as recommended by the manufacturer, for the herbicide to take effect.

2.2. Tree pits of at least 75mm diameter greater than the root system and no deeper than the rootball / container depth are to be excavated and the sides well scarified to prevent smearing. All extraneous matter such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site.

2.3. During excavation of the pit, the soil dug should be placed to one side separating topsoil and subsoil as far as is practical.

#### Tree Planting

2.4. Trees shall be planted as per the planting arrangement as set out on the planting plan and plant schedule.

2.5. The typical rooting depth for trees is 900mm. The first 300mm shall be made up of topsoil; it shall be ensured that a suitable depth of the minimum rooting depth.

2.6. The root system of the tree should be wetted prior to planting. The tree should be planted at the correct depth taking into account the position of the root flare and the finished level - the rootball or root stem transition should be level with the existing host soil or surface. The base of the rootball should typically sit on subsoil, for larger rootballs the subsoil will sit around the lower portion of the rootball.

2.7. Tree pits should be backfilled with the excavated topsoil. If the original topsoil is not available or deemed unsuitable, a multi-purpose topsoil should be used. Any subsoil excavated should be discarded and the subsoil depth (beyond 300mm deep) backfilled with a high sand content subsoil. Backfill should be added gradually, in layers of 150mm to 230mm depth, ensuring the tree is held upright. At each stage the fill should be firmed in to eliminate all air pockets under and around the root system, but with care being taken not to excessively compact the soil. The final layer should not be consolidated.

2.8. General-purpose slow release fertiliser (at the rate of 75g/m<sup>2</sup>) and Tree Planting and Mulching Compost at the rate of 200t/ha/m<sup>2</sup> are to be incorporated into the top 150mm of topsoil during final cultivations.

2.9. Extra heavy standard trees shall be double staked with 75mm dia. Stakes should be driven at least 300mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc. and should typically be one third the height of the tree stem above ground.

2.10. Trees shall be secured to stakes with suitable proprietary rubber tree ties and spacers.

2.11. Immediately after planting, but before applying the below bark mulch, all trees should be saturated to field capacity.

2.12. Ornamental composted bark mulch will be spread to a depth of 75mm across a 1.0m dia circle around individual trees, ensuring that the root flare and base of the stem, along with any ground cover plants, are not buried.

#### Maintenance

2.13. In the autumn following planting the CA/Landscape contractor will prepare a list of all trees which are dead, dying or diseased and are to be replaced during the following planting season. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

2.14. The site is to be visited quarterly throughout the year to undertake the following operations.

• Weed clearance: All tree pits are to be kept weed free by hand weeding or herbicide treatment. The bark mulch shall be topped up at least once annually.

• Litter clearance: All litter is to be removed from tree planting areas.

• Watering: All trees are to be watered during the growing season following any dry periods of 7 days.

• Checking trees: All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chafing is occurring. Any broken stakes are to be replaced.

• Formative pruning: Any damaged shoots/branches are to be pruned back to healthy wood. Trees are to be pruned in accordance with good horticultural practice (BS 3998) to maintain healthy well-shaped specimens which are appropriately shaped for their circumstances.

### 3. SHRUB / HERBACEOUS PLANTING

3.1. Shrub/herbaceous plants are to be set out as shown on the drawing and pit planted into the prepared soil at the specified densities with minimal disturbance to the rootball and well firmed in.

3.2. Recommended rooting depths are 600mm for shrub/herbaceous plants. Multi-purpose topsoil depths shall be 300mm for shrub/herbaceous, ensuring that a suitable subsoil shall provide the remainder of the minimum rooting depth. Before receiving topsoil, subsoils should be loosened using ripping equipment, this shall be done when the subsoil is dry to encourage soil shattering. All stones and other objects larger than 50 mm shall be removed from the prepared surface.

3.3. Within the day of planting shrub/herbaceous plants should be saturated to field capacity, this shall be done before applying the below bark mulch.

3.4. Spread ornamental pine bark mulch to a depth of 75mm across all new planted areas, taking care not to bury groundcover plants.

### 4. BULB PLANTING

4.1. Bulbs are to be planted at a depth suitable for each species with the base in contact with the bottom of the hole. The removed soil backfilled and firmed on top and, where relevant, the removed plug of turf neatly replaced after planting.

4.2. Planting should avoid man-made grids and lines, and should group species together in groups of 5-7 plants.

### 5. AMENITY GRASS

#### Preparation

5.1. Areas to be turfed or seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface shall be raked to smooth flowing contours with a fine rib. Amenity grass areas will receive pre-seeding fertiliser at 70 g/m<sup>2</sup>. Meadow grass areas will not be fertilised.

5.2. The minimum overall recommended rooting depth for grass is 450mm, the first 150mm shall be made up of a multi-purpose topsoil, it shall be ensured that a suitable subsoil shall provide the remainder of the minimum rooting depth. Before receiving topsoil, subsoils should be loosened using ripping equipment; this shall be done when the subsoil is dry to encourage soil shattering. All stones and other objects larger than 50 mm shall be removed from the prepared surface.

#### Turf

5.3. Turf shall be supplied in accordance with BS3969. It shall be close textured and green in colour and be sufficiently fibrous to withstand handling. Turves shall be regular in shape, 300mm wide and of uniform thickness (minimum 25mm). The grass shall be closely mown and shall not exceed 25mm in height. Turf shall be stacked in piles of up to 1 metre. It shall not be laid in frosty or waterlogged conditions and shall not be stacked in rolls for more than three days. Turfing operations shall be in accordance with BS 4428. 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 butted together, working from planks positioned on turves 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.

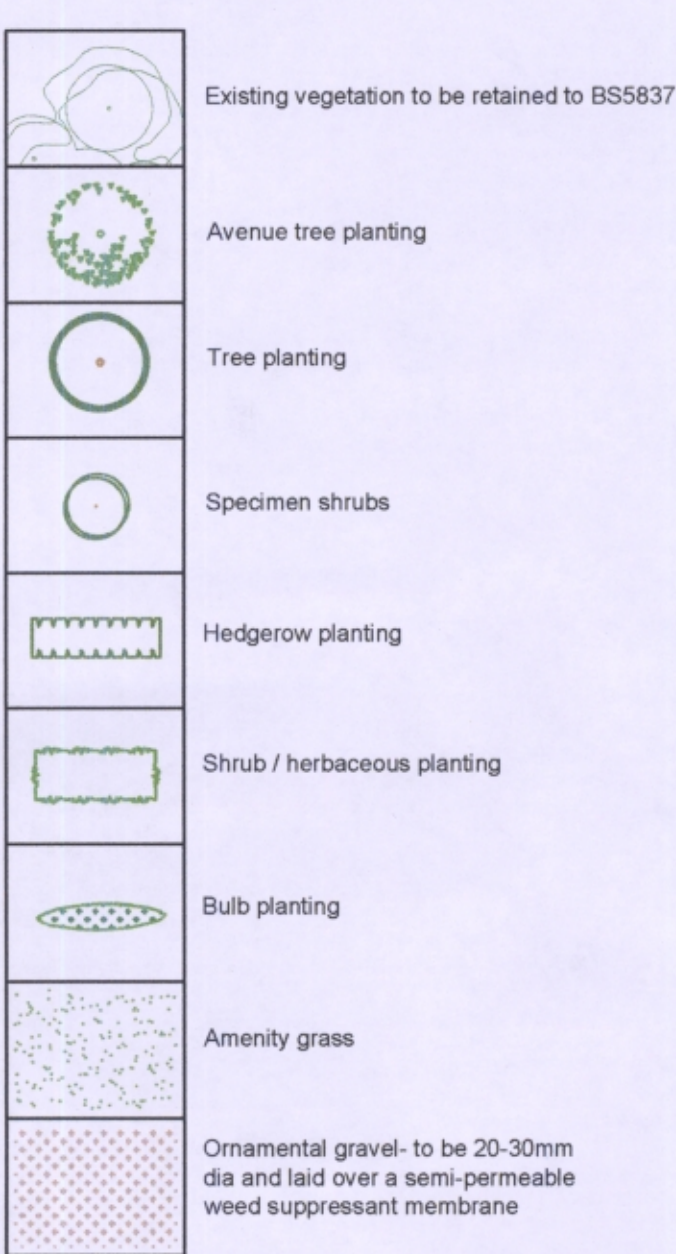
#### Seeding

5.4. Grass seed shall be sown either in April/May or September/October during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in transverse directions at 35 g/m<sup>2</sup> for amenity grass. After sowing the contractor shall lightly rake the seed into intimate contact with the soil.

#### Initial Cut

5.5. When newly seeded amenity grass areas reach 50mm they should be lightly rolled and cut to a height of 25mm. All arisings shall be removed. Any bare patches shall be made good at this time. Amenity grass shall be regularly maintained between 25 and 50mm during the first season after sowing. Long or rough mown grass will be maintained between 50 and 75mm during the first season after sowing.

## Key



## Planting Schedule

Tree	Species	Depth	Height	Specification	Tree Size
1 No.	Amelanchier arborea 'Robin Hill'	15-18mm	min. 4500mm	Extra Heavy Standard	Clear Stem min. 200 mm TSL
2 No.	Betula pendula	14-16mm	425-4500mm	Extra Heavy Standard	Clear Stem min. 200 mm TSL
3 No.	Betula utilis 'Jaqueline'	15-18mm	min. 4500mm	Extra Heavy Standard	Clear Stem min. 200 mm TSL
4 No.	Ceanothus thyrsiflorus repens	15-18mm	min. 4500mm	Extra Heavy Standard	Clear Stem min. 200 mm TSL
5 No.	Cornus alba 'Elegantissima'	14-16mm	425-4500mm	Extra Heavy Standard	Clear Stem min. 200 mm TSL
6 No.	Cornus alba 'Elegantissima'	14-16mm	425-4500mm	Extra Heavy Standard	Clear Stem min. 200 mm TSL
7 No.	Cornus alba 'Elegantissima'	14-16mm	425-4500mm	Extra Heavy Standard	Clear Stem min. 200 mm TSL

Shrub	Species	Height	Specification	Tree Size	Density
1 No.	Aucuba japonica	30-40cm	Bulky C	3L	600
2 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
3 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
4 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
5 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
6 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
7 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
8 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
9 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
10 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
11 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
12 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
13 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
14 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
15 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
16 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
17 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
18 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
19 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
20 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
21 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
22 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
23 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
24 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
25 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
26 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
27 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
28 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
29 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
30 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
31 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
32 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
33 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
34 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
35 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
36 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
37 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
38 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
39 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
40 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
41 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
42 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
43 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
44 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
45 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
46 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
47 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
48 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
49 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
50 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
51 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
52 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
53 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
54 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
55 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
56 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
57 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
58 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
59 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
60 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
61 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
62 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
63 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
64 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
65 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
66 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
67 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
68 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
69 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
70 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
71 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
72 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
73 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
74 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
75 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
76 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
77 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
78 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
79 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
80 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
81 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
82 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
83 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
84 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
85 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
86 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
87 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
88 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
89 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
90 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
91 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
92 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
93 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
94 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
95 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
96 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
97 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
98 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
99 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600
100 No.	Chamaecyparis 'Nana'	30-40cm	Bulky C	3L	600

Herbaceous			
Number	Species	Specification	Plot Size Density
60 Na	Geranium 'Brookside'	C	2L 6m²
74 Na	Geranium 'macranthum' 'Album'	C	2L 6m²
11 Na	Heuchera 'May Lime Flr'	C	2L 6m²
32 Na	Heuchera 'maritima' 'Peach Purple'	C	2L 6m²
28 Na	Linum catharticum 'Munro White'	C	2L 6m²
32 Na	Luzula sylvatica	C	2L 6m²