PLANTING SPECIFICATION

GENERAL All planting and landscape operations to comply with *Recommendations for General Landscape Operations BS 4428: 1989* and all plant material is to comply with the National Plant Specification and *Nursery Stock Specification BS 3936-1:1992.*
Locally produced peat-free topsoil, compost, turf, plants and mulch to be used wherever possible.
PREPARATION WITHIN THE CROWN SPREAD OF EXISTING TREES
Remove weeds and existing vegetation by hand digging. Retain existing topsoil and cultivate by hand with no greater change of level than 100mm. Proposed new plants to be spaced to avoid damage to tree roots. Planting pits to be backfilled with fresh topsoil and compost mixed 50/50
PREPARATION Break out any existing hard surface to full depth of construction and excavate to allow full depth of topsoil and compost indicated below. Remove any stones greater than 50mm in any dimension. Remove existing unwanted plants including their roots. Finished levels of topsoil with mulch dressing to be 50mm above adjacent pavings.
TOPSOIL Imported topsoil to BS 3882. Premium quality. Spread in layers no deeper than 150mm. Topsoil depths:
Grass areas – 150mm
Shrub beds – 450mm
Locally produced Eco Supersoil is recommended as it contains 30% compost.
FERTILISER All shrub beds to have incorporated bonemeal at the rate of 70gm/m2 into the topsoil. After planting all beds be top dressed with a slow release fertiliser such as Vitagrow Tree and Shrub Fertiliser or similar to manufacturer's recommendations.
COMPOST Shrub beds to have 100mm depth of good quality organic manure, spent mushroom compost or peat-free compost, incorporated into the soil prior to planting. Locally produced and peat-free, Eco Mix or Eco Tree & Shrub Compost is recommended.
PLANT HANDLING, DELIVERY AND STORAGE To be as recommended in the National Plant Specification. Phase the delivery of plants so that there is only sufficient for planting within 48hrs of delivery or, if necessary, ensure suitable temporary storage before final planting by heeling in or lining out.
PREPARATION OF PLANTS Remove inorganic containers. Check for damage, disease or pest infestation. Reject seriously damaged plants. Carefully prune any minor root damage.
PLANTING
• In position shown on the drawings
• At the rate specified, avoiding regimented rows
• In holes large enough to allow adequate root spread and tease out congested root balls of container-grown plants
• Excavate holes at least 75mm below the root system and a minimum 400mm for climbers
• Set plants so that their original soil level matches the new surrounding ground and with their best side displayed
PLANTING HEDGES Excavate trench 300x300mm with suitable topsoil and 100mm depth of compost cultivated in. Plant spacings to be appropriate to genus selected.
PLANTING SHRUBS Shrub pits to be 150mm wider than the container size or large enough to allow the full spread of bare root plants. Backfill with a mix of topsoil and compost.
PLANTING TREES Excavate pit 150mm deeper and 500mm wider than the rootball. Break up base of pit. Backfill with mix of topsoil and compost. Dress with slow release fertiliser to manufacturer's recommendations. Tree stakes to be minimum 75mm diameter, free of bark with one end pointed. Drive stake upright 450mm into bottom of excavated planting pit close to the tree stem on the windward side. Cut off at one-third the height of the tree and secure tree with approved ties and spacers at the top of the stake.
BACKFILLING to be selected existing topsoil. Add 600g/m3 of bonemeal to stimulate root growth. Any additional imported organic matter should be well mixed with at least an equal quantity of existing soil. The backfill is to be evenly worked round the roots and well heeled in.
IMMEDIATELY AFTER PLANTING Lightly prune back any damaged or malformed growth. Rake soil to an even, fine tilth to the required levels.
WATERING Saturate the root ball of container grown plants before planting. Immediately after planting, water all trees and shrubs thoroughly and again before mulching.
PLANTING SEASON Plant out non-container grown plants only between October and March inclusive unless otherwise agreed. Container grown or containerized plants may be planted out at any time of year except when the temperature is below 4°C or on a falling thermometer, in frozen or waterlogged ground or in drought conditions.
MULCH Spread 100mm minimum of good quality bark chippings (50-75mm) in any direction. Mulch to be free from sticks, leaves and rubbish and have been rested for at least 90 days.
TURF
• -to BS 3969 with weedkiller applied 1 to 3 months before lifting;
• -900 x 300 minimum size x 25mm minimum even thickness.
DELIVERY to be phased to ensure laying within 48hrs of lifting. Stacks not to exceed 1.4m high.
PREPARATION FOR TURFING
• Remove all weeds, rubbish and stones over 30mm in any dimension.
• Cultivate topsoil to a minimum depth of 100mm.
• Reduce top 30mm to a fine tilth.
FERTILISER
Dress areas to be turfed with Growmore N7:P7:K7 fertiliser at a rate of 50g/m.sq. Work into the top 30mm of tilth 7 days before turfing and water in well.
LAYING TURF
• Transport turf over close-butted timber planks.
• Lay turf in consecutive rows.
• Lay turf from timber planks protecting previously laid turf.
• Lay turf close butted breaking the joint in alternate rows.
• Use only whole turves at margins.
• Consolidate lightly with wooden beaters.
• Brush in finely sieved topsoil to fill all joints.
• Ensure final surface is 20mm above any adjacent hard surface.
TURFING ADJACENT TO OBSTRUCTIONS
• Leave a neat 300mm radius of soil round all newly planted trees.
• Unless otherwise shown on the drawing, turf right up to existing established trees, walls, fences and similar obstructions, leaving no soil uncovered.
TREES
TREE QUALITY to the National Plant Specification with size as noted on drawing or schedule.
TREE STAKES 75mm minimum diameter, free of bark, with one end pointed.
STAKING FOR TREES UP TO 'EXTRA HEAVY' SIZE
Drive stake upright 600mm into bottom of excavated planting pit close to the tree stem on the windward side. Stakes must not extend more than 500mm above ground level. For trees with a single stake, tree ties will be secured with a single nail no more than 25mm below the top of the stake. Spacers to be used to protect tree bark.
PLANT TREES
• Upright and in exact positions shown on the drawings
• In holes large enough to allow adequate root spread
• So that their original soil level matches the new surrounding ground
• So that the original orientation is maintained
• Excavate holes at least 75mm below the root system and loosen soil in base of holes
• For root-balled or bare-root stock, cut back any damaged roots to sound growth
• Bio-degradable corrugated plastic tree guards are to be fitted to all trees to protect from damage
WATERING AND AERATION PIPES
Provide perforated plastic watering pipes in a circle round the base of tree pits at the level of the bottom of the root ball.
BACK-FILLING to be selected existing topsoil where available. Any imported soil/organic matter should be well mixed with at least equal quantities of existing soil. The back-fill is to be worked round the roots and well heeled in leaving the top slightly proud of the existing level to allow for settlement.
MULCH Spread 100mm minimum of good quality bark chippings (50-75mm) in any direction for a 1.5m diameter with stem at the centre. Mulch to be free from sticks, leaves and rubbish and have been rested for at least 90 days.
PRUNING
Immediately after planting carry out light formative pruning according to species. Remove damaged or weak growth.
WATERING AND PROTECTION
Water thoroughly immediately after planting and at intervals as necessary until Practical Completion. After the first watering, mulch with 75mm of composted coarse bark shippings over the excavated area.
MAINTENANCE AND REPLACEMENT
Replace any trees that are dead or dying within five years of planting. In the following year in March or April apply N7:P7:K7 fertiliser round all trees and keep the ground weed free for 1.5 metre diameter round each tree.

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APPROVED PLANTING SCHEME TO BE IMPLEMENTED PRIOR TO OCCUPATION OF DWELLING/S



SCALE BAR
It is the contractor's responsibility to check and confirm all measurements on site. Janine Pattison Studios accept no liability for any discrepancies between this drawing and actual site measurements.

GROUND PREPARATION SPECIFICATION

GENERAL
Peat free materials must be used for site preparation. All topsoil must comply with *Specification for topsoil and requirements for use BS 3882:2007.*
GRADIENTS AND LEVELS
Ensure the area to be planted is an even graded area without peaks and troughs. Tread the area in different directions and then rake several times in all directions. Final levels after settlement are to be 20mm above any adjacent paving, unless otherwise specified.
SOIL STRUCTURE
Soil structure must be suitable for a wide range of plant species. A light friable mix comprised of 50% solids (including approx. 5% organic matter), 25% air and 25% water is required.
SOIL PH
The soil pH must be tested on site prior to soft landscaping installation. Site soil pH should remain as is without attempting to alter. This ensures longevity of the scheme and that existing vegetation is not put at risk.
SOIL TESTING
If soil contamination or deficiency is suspected, ensure to send samples to a qualified and professional soil testing facility for investigation.
GROUND PREPARATION
Eliminate all perennial weeds prior to bed preparation with glyphosate and a broadleaf herbicide to all areas requiring soft landscaping. Ensure application is at least one month prior to plant installation works. Ensure existing vegetation to be retained and existing trees are not put at risk by strictly following all instructions and warnings given by manufacturers. Care to be taken to avoid damage to trees, vegetation, species to be introduced, sensitive habitats, aquatic environments and drainage features.
Remove all debris, stones above 50mm in any dimension and unwated material from soft landscape areas.
Cultivate the soil by hand within tree root protection areas and ensure that roots over 25mm in diameter are not harmed.
Use a rotovator to a 450mm depth outside of tree root protection areas where impractical to complete by hand. Complete a percolation test - measure success. Incorporate organic matter at a rate of 5kg/m² to all planting areas.
Incorporate a balanced fertiliser such as Growmore (N:7, P:7, K:7) at a rate of 70g/m² or otherwise specified by the manufacturer.
Rake and grade soil to specified levels.
Leave to rest and settle for seven days minimum.
If preparation is for turf areas, apply 50mm depth of 10mm general purpose topsoil. If site soil is low in organic matter, apply 25mm of spent mushroom compost and incorporate.
COMPACTION
Alleviate all compaction, capping and panning with the use of hand digging in tree root protection areas or a rotovator outside of the tree root protection areas.
In areas of previous hard landscaping, ensure 600mm depth is prepared and a water percolation test is performed prior to soft landscaping install.
ORGANIC MATTER
Soil should be comprised of approx. 5% organic matter. Appropriate material must have been rested for a minimum of 90 days. Recommendations include: well-rotted horse manure, spent mushroom compost, general purpose compost or soil improver. Must be free of non-biodegradable waste and debris. Organic matter to comply with *Soil Improvers and Growing Media BS 13039:2011.*
MULCH
To be woodland bark mulch as a blend of soft and hardwood chippings screened and matured for a naturalistic look. Chipping size at 50-75mm in dimension.

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TREE WATERING METHOD

Trees must be watered from April to October. Watering should commence during the Spring and fortnightly soaking practices must be implemented, with weekly soaking in particularly dry months. The average calculation is based on a rule of 50 litres per 25cm of trunk circumference. An equal distribution of water should be applied via irrigation pipe and over the surface of the tree roots to ensure the rootball is sufficiently soaked. Ensure the water reaches the desired areas and is not running off the surface and diverting away from the root system. Baffles can be implemented to ensure the watering is localised. Summer showers are often not heavy enough to sufficiently water trees, therefore watering prescriptions must be adhered to regardless of Summer rainfall.

PROTECTION OF TREES

The responsibility for the safety of trees always rests with the site owner or the person who has control of tree management. Where sites contain trees this Janine Pattison Studios design does not include liaison with the appropriate local planning authority or any application for consent for works to protected trees or hedges. Consent for works to protected trees and hedges must be obtained from the local planning authority prior to any works being carried out on them.

The trees and landscape features within or adjacent to the site may be protected by tree preservation orders, be within a conservation area, constitute an important hedgerow or be subject to planning conditions. The local planning authority must be consulted for details of any such planning restrictions and their advice followed before work is planned or carried out to trees.

The legal Duty of Care requires that all works to trees should be carried out by qualified, arboricultural contractors working according to Health & Safety Executive guidelines. All treeworks should be carried out to arboricultural industry best practice and comply with BS 3998:2010 'Tree work - Recommendations'. All tree management work must take account of the Wildlife and Countryside Act, 1981, as amended by the Countryside and Rights of Way Act, 2000, which makes it a criminal offence to disturb, injure or kill bats or nesting birds and other protected animals.

Important hedgerows may be protected if they are in the countryside, are over 20m long and over 30 years old, provide habitats for protected species or have been designated as such by a local planning authority.

Tree health and condition can change over time and be affected by the environment, therefore, regular periodic inspections are recommended and a qualified arboriculturalist consulted if any concerns are identified.

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TREE WATERING CONDITIONS

WET WEATHER Assess the ground to ensure that the soil is not oversaturated with water. If the water is puddling on top of the pit area, use a fork to create holes around the perimeter of the rootball to ensure sufficient drainage. Delay watering prescriptions by one week if soil is oversaturated with water. Excess water that does not drain away can be removed with a bucket

DRY WEATHER Before watering, fork the soil to increase permeation of water. Whilst forking the soil, take care not to damage the rootball. Deliver 1.5 times the prescribed amount of water. After sufficient water, cover the tree pit area with 50mm of bark mulch.

TREE WATERING PRESCRIPTION

Stem Girth (cm)	Height (m)	Light / sandy soil Litres / 2 weeks	Average / loam soil Litres / 2 weeks	Heavy / clay soil Litres / 2 weeks
*whips	up to 1.5m	8	5	5
8 - 10 cm	2.5 - 3.0	8	5	5
10 - 12cm	3.0 - 3.5	8	5	5
12 - 14cm	3.5 - 4.0	8	5	5
14 - 16cm	4.0 - 4.5	8	5	5
16 - 18cm	4.0 - 4.5	8	5	5
18 - 20cm	4.5 - 5.0	8	5	5

TREE SCHEDULE

ID	Botanical Name	Specification / Notes
G2	Cypress	Permission to fell to be obtained
NT01	Quercus robur 'Fastigiata Koster'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT02	Amelanchier arborea 'Robin Hill'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT03	Quercus robur 'Fastigiata Koster'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT04	Fagus sylvatica 'Dawyck Gold'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT05	Quercus robur 'Fastigiata Koster'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT06	Fagus sylvatica 'Dawyck Gold'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT07	Quercus robur 'Fastigiata Koster'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT08	Sorbus aucuparia 'Cardinal Royal'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT09	Sorbus aucuparia 'Streetwise'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT10	Sorbus aucuparia 'Cardinal Royal'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT11	Amelanchier arborea 'Robin Hill'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT12	Amelanchier arborea 'Robin Hill'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT13	Amelanchier arborea 'Robin Hill'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT14	Sorbus aucuparia 'Cardinal Royal'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT15	Sorbus aucuparia 'Streetwise'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT16	Sorbus aucuparia 'Cardinal Royal'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT17	Sorbus aucuparia 'Streetwise'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT18	Sorbus aucuparia 'Cardinal Royal'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT19	Sorbus aucuparia 'Streetwise'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT20	Sorbus aucuparia 'Cardinal Royal'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
NT21	Sorbus aucuparia 'Streetwise'	Heavy Standard (girth=12-14cm, spread=2m, height=3.5-4m)
T1	Willow	Permission to fell to be obtained
T3	Willow	Permission to fell to be obtained

TREE NOTES

All trees to be clear stem
175-200cm; 5 breaks (RB / CG)

PLANT SCHEDULE

Category	Latin Name	Size	Quantity
Perennials	Bergenia 'Bressingham White'	2-3L	121
Perennials	Bergenia cordifolia	2-3L	180
Perennials	Carex oshimensis 'Evergold'	2-3L	222
Perennials	Geranium 'Brookside'	2-3L	35
Perennials	Geranium clarkei 'Kashmir White'	2-3L	56
Perennials	Liriope muscari	2-3L	184
Perennials	Liriope muscari 'Monroe White'	2-3L	113
Shrubs	Choisya ternata	10-12L	31
Shrubs	Euonymus fortunei 'Emerald Gaiety'	10-12L	93
Shrubs	Hebe 'Mrs Winder'	10-12L	8
Shrubs	Hebe rakaiensis	10-12L	106
Shrubs	Ligustrum vulgare	10-12L	177
Shrubs	Pittosporum tobira 'Nanum'	10-12L	100
Shrubs	Prunus laurocerasus 'Otto Luyken'	1.2m-1.5m hedge	202
Shrubs	Prunus laurocerasus 'Rotundifolia'	1.2m-1.5m hedge	370
Shrubs	Sarcococca hookeriana var. humilis	10-12L	184
Shrubs	Skimmia x confusa 'Kew Green'	10-12L	40
Shrubs	Viburnum davidii	10-12L	93

TREE SYMBOL KEY

New Tree (NT)
Remove Tree (T/G)

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