

Plant Schedule					
Abbreviation	Species	Height	Girth	Specification	Pot Size/Number of Plants
ACE	Aster campestre	350-425cm	12-14cm	Heavy Standard 3x B	28
AG	Alnus glutinosa	350-425cm	12-14cm	Heavy Standard 3x B	18
BP	Betula pendula	350-425cm	12-14cm	Heavy Standard 3x B	22
B	Fagus sylvatica	350-425cm	12-14cm	Heavy Standard 3x B	18
PAM	Prunus 'Amanogawa'	350-425cm	12-14cm	Heavy Standard 3x B	5
PC	Pyrus calleryana 'Chanticleer'	350-350cm	12-14cm	Heavy Standard 3x B	22
PP	Prunus padus	350-425cm	12-14cm	Heavy Standard 3x B	18
QRO	Quercus robur	350-425cm	12-14cm	Heavy Standard 3x B	8
QAL	Quercus alba 'Luteocens'	350-425cm	12-14cm	Heavy Standard 3x B	14
SAR	Sorbus aria	350-425cm	12-14cm	Heavy Standard 3x B	1
SJR	Sorbus Joseph's Rock'	350-425cm	12-14cm	Heavy Standard 3x B	8
TC	Tilia cordata	350-425cm	12-14cm	Heavy Standard 3x B	16
					Total: 169

Abbreviation	Species	Pot Size	Height	Specification	Density	Percentage Contribution	Number
BP	Betula pendula	B	60-80cm	Transplant 1+1 11m	10%	10%	84
CRAB	Corylus avellana	B	60-80cm	Transplant 1+1 11m	10%	10%	120
CRAMON	Crataegus monogyna	B	60-80cm	Transplant 1+1 11m	10%	10%	84
CRASSY	Fagus sylvatica	B	60-80cm	Transplant 1+1 11m	10%	10%	84
ILEA	Ilex aquifolium	SL	60-80cm	Container 1m	10%	10%	84
PRUNUS	Prunus avium	B	60-80cm	Transplant 1+1 11m	5%	5%	43
PRUSP	Prunus spinosa	B	60-80cm	Transplant 1+1 11m	5%	5%	43
QRO	Quercus robur	B	60-80cm	Transplant 1+1 11m	10%	10%	84
ROSAR	Rosa canina	B	60-80cm	Transplant 1+1 11m	5%	5%	43
ROSAR	Rosa canina	B	60-80cm	Transplant 1+1 11m	5%	5%	43
ROSAR	Rosa canina	B	60-80cm	Transplant 1+1 11m	5%	5%	43
ROSAU	Rosa canina	B	60-80cm	Transplant 1+1 11m	10%	10%	84
VBSP	Viburnum opulus	B	60-80cm	Transplant 1+1 11m	5%	5%	43
							Total: 844

Abbreviation	Species	Specification	Height	Pot Size	Density	Mix Species Contribution	Number
EA	Ilex aquifolium	Container	60-80cm	1L	10%	10%	144
ROSAR	Rosa canina	Transplant 1+1	60-80cm	B	5m	10%	144
ROSAU	Rosa canina	Transplant 1+1	60-80cm	B	5m	10%	144
CRABV	Corylus avellana	Transplant 1+1	60-80cm	B	5m	10%	288
PRUSP	Prunus spinosa	Transplant 1+1	60-80cm	B	5m	20%	288
CRAMON	Crataegus monogyna	Transplant 1+1	60-80cm	B	5m	10%	432
						Total: 100%	Total: 1429

Abbreviation	Species	Specification	Density	Percentage Contribution	Number
CRABV	Corylus avellana	20m	20%	404	
CRABV	Corylus avellana	20m	10%	204	
CRABV	Corylus avellana	20m	10%	204	
NARTT	Narcissus Tete a Tete	20m	40%	808	
					Total: 2016

Abbreviation	Species	Specification	Height	Pot Size	Number of Plants
PHB	Phloxium 'Bla' Black	Double Crown	60-80cm	1L	5
PHJ	Phloxium 'Jester'	Double Crown	60-80cm	1L	5
PHS	Phloxium 'Sundowner'	Double Crown	60-80cm	1L	1
					Total: 26

Abbreviation	Species	Height	Specification	Pot Size	Density	Number of Plants
BUCO	Bergenia cordifolia	20-30cm	3L	6m	212	
CE	Centotheca distillata repens	20-30cm	3L	6m	96	
CTIS	Chrysanthemum Sundowner B	30-40cm	3L	6m	123	
EEL	Eleocharis x eboracae 'Limegold'	40-60cm	3L	4m	101	
EJA	Eryngium yuccifolium 'Double Aurea'	30-40cm	3L	6m	277	
EUEG	Eryngium yuccifolium 'Emerald Galaxy'	20-30cm	3L	6m	181	
HAG	Hedera Autumn 'Glory'	30-40cm	3L	6m	94	
HEDH	Hedera helix	30-40cm	3L	6m	254	
HMP	Hedera pinnatifida 'Page'	30-40cm	3L	6m	130	
HSC	Hedera Green 'Gold'	30-40cm	3L	6m	86	
HMT	Hypericum x moserianum 'Tricolor'	30-40cm	3L	6m	131	
AV	Leucanthemum maximum 'Vero'	30-40cm	3L	6m	112	
LNB	Lonicera nitida 'Baggesen's Gold'	40-60cm	3L	4m	92	
MA	Matthiola incana 'Tiscabell'	30-40cm	3L	6m	92	
PE	Polemonium verticillatum 'Tiscabell'	30-40cm	3L	6m	92	
PFF	Pieris Forest Flame'	40-60cm	3L	4m	147	
PRQ	Primula veris 'Katherine Dykes'	30-40cm	3L	6m	26	
PRR	Primula x Fraseri 'Red Robin'	60-80cm	3L	4m	26	
SKJ	Sedum spectabile	30-40cm	3L	6m	116	
SS	Sedum 'Sundance'	30-40cm	3L	6m	14	
VD	Viburnum 'Sundance'	30-40cm	3L	6m	201	
					Total:	2518

Abbreviation	Species	Pot Size	Specification	Height	Density	Number of Plants
PL	Primula laevis	Single row	60-80cm	4m	317	
PS	Fagus sylvatica	B	Double staggered row	60-80cm	8m	1959
						Total: 4225

N12 ACID SOILS MEADOW MIXTURE - To be sown at a rate of 5g/m².

www.naturescape.co.uk/product/12-acid-soils-meadow-mixture/

Available from Naturescape. Tel: 0149860992 or similar approved.

WILDFLOWER SEED MIXES - To be sown at a rate of 4g/m².

EM2 - Standard General Purpose Meadow Mixture

wildseed.co.uk/products/mixes/standard-general-purpose-meadow-mixture

Available from Emorgate Seeds. Tel: 01552 829 028 or similar approved.

All wildflower areas to have 1m wide close mown grass edge adjacent roads and footpaths. Seeded with grass mix A22.

SUDS TURF

WTF-SUD-37 - Wildflower Turf

wildflower-turf.co.uk/products/wildflower-turf-suds-turf/

Available from Wildflower Turf Ltd. Tel: 01256 771 222 or similar approved.

AMENITY GRASS SEED MIX - To be sown at a rate of 50g/m².

A22 - Hawk Wearing Low Maintenance

germanseeds.com/22-low-maintenance

Available from German GB Ltd. Tel: 01522 868714 (or similar approved)

KEY	
	TREES RETAINED REFER TO AIA & TS REPORTS
	PROPOSED HEAVY STANDARD TREE PLANTING
	HEDGE PLANTING
	NATIVE HEDGE PLANTING
	NATIVE TREE & SHRUB PLANTING
	ORNAMENTAL SHRUB PLANTING
	TURF (CLOSE MOWN)
	BULBS
	A22 GRASS SEED (CLOSE MOWN)
	WILDFLOWER SEED MIX - EM2 GENERAL MEADOW MIXTURE
	WILDFLOWER SUDS TURF FROM WILDFLOWER TURF
	N12 ACID SOILS MEADOW MIXTURE
	SPECIMEN PLANTING
	DECORATIVE GRAVEL / SLATE OVER MEMBRANE

SB

135.3m

135.6m

PROPOSED STAIR LOCATION - 15 STEPS

INFORMAL PATH

SCALE - 1:200

N

0m 5m 10m 15m 20m 25m

SPECIFICATION

GROUND PREPARATION - GENERAL

Preparing for topsoiling

Grading and cultivation shall be in accordance with BS 4348:1989 section 4. Subsoil that is to receive topsoil shall, whether obviously overcompacted or not, be thoroughly broken up by hand, by heavy rollers, by subsoiler or frost equipment with adequate passes to thoroughly break up the surface to a depth of 150mm, cleared of all large stones, bricks, potential weeds, live roots (excluding living tree roots), coarse vegetation and any other extraneous matter.

Subsoil panning

Subsoil shall only be graded after loosening above, and this shall be undertaken by the use of a tractor or blade grader on large areas and by a small mechanical grader or hand on small areas. Grading shall not be time to be followed by heavy machinery. No panning for any other purpose after subsoiling and/or topsoiling has taken place.

Mowing up level

When subsoil is reported to low lying areas to raise formation levels, it shall be lightly consolidated and left to settle for a minimum of 14 days before topsoil is applied. Topsoil shall be free from metal, concrete or organic material with any one dimension greater than 100mm. All imported fill material shall be approved by the Landscape Architect prior to spreading on site.

Supply of topsoil

Topsoil to be supplied shall be approved by the Landscape Architect and details of the source of supply shall be provided in order that inspection may be made before delivery commences. Topsoil that conforms to BS 3081:2013. Recommendations and classification for topsoil, clause 4.3. The soil shall be free of weeds, roots or potential weeds, pests, diseases, silt, tree roots, sticks, subsoil and foreign matter and shall be capable of being broken down to the 10mm.

Temporary topsoil heaps

The depositing of temporary heaps of topsoil shall be so arranged that possible damage to existing grass, plants, establishment, paving etc, is avoided. Unless otherwise agreed by the Landscape Architect, temporary spoil heaps shall be on protected ground. Such protection shall take the form of geotextiles, plastic sheet, boards or erode covering. If damage does occur, it shall be made good at the contractor's own expense. Areas evaluated to receive topsoil but have not had the base loosened shall not be used as temporary off loading areas. If the bottom of the excavation has been loosened off, loading on these areas is permissible.

Spreading topsoil

Prior to topsoil replacement the formation level shall be cleared of all stones, rubbish, debris and any other extraneous matter greater than 75mm. It shall be spread or tuff to be covered by topsoil 100mm thick and areas to be planted shall be covered by topsoil 300mm thick. Topsoil shall be spread in an evenly consolidated mat and shall be free of stones. No topsoil shall be spread on areas where any one dimension greater than 50mm throughout its depth. Unless otherwise stated the finished level shall be 10mm above subsoil but be at least 100mm above the subsoil grade has been inspected by a Landscape Architect.

Planting

Planting areas shall be reworked to a depth of 225mm in the original ground, or where the ground is compacted, ripper and reworked. Pick off stones, bricks, timber and all other extraneous matter which have any dimension greater than 50mm and remove up to 10. Do not cut surface across any drain where the stone is flush with the ground surface.

Soil layers

Where directed comments, fertilisers or other additives shall be incorporated into the soil. Spent mushroom compost or similar shall be spread to the specified thickness and incorporated, by raking, into the top 150mm. Fertilisers, organic or inorganic, shall be sown into the top 25mm.

Rejection of plants

All plant material must comply with the minimum requirements in BS 3081:1992. Specification for trees and shrubs and BS 3084:2007 Specification for Sawn trees and BS 3042:2014 Trees from Nurture to Independence in the Landscape. Any plant material, which is the property of the Landscape Architect, does not meet the requirements of the relevant standard, or is unsuitable or defective in any way, will be rejected. The relevant specified sizes in the plant schedule will be strictly enforced. The contractor shall reject all plants rejected at the tree cut.

Planting

All plant material shall generally be planted between November and March in open cool weather. Planting shall not take place in frosty, snowy or waterlogged conditions. Plants approved, pot or container grown plants may be planted outside the specified season, but adequate watering shall be supplied. Tender or damaged roots and branches shall be clearly pruned prior to planting.

Planting of wildlife plants and shrubs

The values of the material to be planted is variable and the contractor shall allow for planting in the property of the Landscape Architect. The values of the material to be planted in the tree planting, section 8. Woodland planting and section 9. Planting of shrubs, herbaceous and ground cover, shall be in accordance with BS 3081:1992 and BS 3084:2007.

Roots shall not be bent, broken or forced into inadequate pits or niches. Plants shall be planted in the specified centres. On steep slopes this shall be in the horizontal measure. Transplants shall be planted with spiral ground and shall be protected from rabbits and to the plant security.

Plants forming a hedge shall be set out by one third immediately upon completion of planting. All pots and root wrappings shall be carefully removed prior to planting. All pots and wrappings being used immediately be picked up and removed ready for removal to site.

The planting within the landscape areas

Trees shall conform to BS 3081:1992 and be planted in tree pits of the following sizes:

Established trees - 900 x 900 x 400
Saplings/standards - 1000 x 1000 x 400
Heavy standards/Extra heavy standards - 1200 x 1200 x 400
Established subsoil or stone shall be carried off site by the bottom 250mm of the pit shall be dug and broken up. The bottom of the pit shall be backfilled with subsoil (also or imported) to comply with BS 8601:2013. The top 300mm of the pit shall be backfilled with imported topsoil as specified unless directed otherwise.

Compost for planting pits

Consent shall be a proprietary product, bark based incorporating fertilisers and improving additives. The type of compost shall be approved before its delivery on site, and the details of its product shall be supplied. Compost planting compost is required. Where directed, the compost shall be available and mixed with topsoil backfill at the following rates:

Established trees - 40 litres
Heavy standards/Extra heavy standards - 80 litres

Stakes for trees

Stakes shall be painted round endwood, pointed, minimum diameter 75mm. The stakes shall be driven into the base of the tree pit prior to placing the tree and backfilling. Stakes shall in general have a clear height above the finished ground level as follows unless directed otherwise:

Established trees - 750mm (1 stake)
Selected standards - 1000mm (2 stakes)
Heavy standards/Extra heavy standards - 1200mm (2 stakes)

The stake shall be long enough to drive until they hold the tree firmly without rocking.

Tree Size

Trees to be planted trees, shall be approved under rail-on-top with customer specified such as Tons, or other equal and approved. Stakes shall be laid around planting stake and shall hold the tree securely into the stake. Trees shall not be over light on the tree stems. Trees available from the following sources: (where specified) - minimum: Kier, TNC7 9591
Established trees - 04 (one tree)
Selected standards - Type L1 (one tree per stake)
Heavy standards/Extra heavy standards - Type L3 (one tree per stake)

Planting of trees

The tree shall be laid upright and at the same depth as grown in the nursery, the roots shall be spread out downwards and the soil covered by compact hand raking. Backfilling shall be done to ensure close contact between roots and by firming by hand. The soil shall be left level and dry, any subsoil, sticks or stones over 50mm removed, collected and carried off site.

Mulching

A 20mm compacted layer of medium grade pulverised bark, with a particle size of not more than 10mm and containing no more than 10% bark, shall be spread to form a continuous mat over the whole of the tree bed, or the outer edge of planted trees, within 50mm of the tree trunk to a depth of 100mm. The material shall be spread around the tree trunk. The tree shall be mulched in the form of a 200mm diameter circle around the base of the tree. Where the tree is planted in a pit, the mulch shall be spread to the edge of the pit. The tree shall be mulched at the diameters stated above, secured with fixing pegs. The tree pit surface shall be as low as possible.

TURFING

Soil preparation and cultivation for all areas to be turfed shall be to a depth of at least 100mm, all weeds, stones and refuse larger than 50mm shall be removed to Contractor's to, and shall be brought to a fine 10th. Allow for hand cultivation where machine work is not possible.

Turf

Turf shall be extra-quality meadow turf and shall comply to BS 3089:1998 A1:2013 and shall be delivered to site in accordance with BS 3089:1998 section 4. Turfing shall be done by supply a sample of the turf to be proposed to use for approval of the Landscape Architect and shall ensure that all turfs are laid to the approved standard. The Contractor shall inform the Landscape Architect of the location of the supply, so that turf can be inspected prior to laying.

Season

Turf shall be laid when weather and soil conditions are suitable and, where possible, preference should be given to autumn and early winter operations. No turf shall be laid in exceptionally dry or frosty weather or in other unsuitable weather conditions.

Delivery and stacking

For large areas, turf shall be delivered at appropriate intervals throughout the work so as to avoid tracking for long periods.

Laying

No turf shall be laid until the soil preparation has been satisfactorily completed by being brought to even 10th and finished. Turf from the 10th shall be allowed to settle for 10 days before being laid down side by side. Adequate timber planks shall be used to support operatives and barrow, and provide access. The turfs shall be laid in consecutive rows with broken joints (rather than end joints) closely butted and to be correct levels. The turf shall be laid off planks working over lower planks laid. Where necessary, the turfs shall be tightly and evenly firmed with wooden beaters, the bottom of the beaters being frequently scraped clean of accumulated soil or moss. A drawing of these after topsoil shall be applied and well finished. Any requirements in finished levels given in variation to turf thickness or uneven consolidation of soil shall be adjusted by using and/or packing the soil into the turf. A note shall not be used. The finished levels of the turf shall conform to the levels indicated, allowing for final settlement. Turf edges and heights shall be laid with whole turfs. Where necessary, turfs or halves shall be used in the face of the structure, giving complete soil cover.

Laying around trees

Turf shall not be laid to within 300mm of any tree trunk.

Watering

The Contractor shall be responsible for the replacement of any soorced turf. All necessary watering shall be carried out with sprinklers or oscillating sprays so as not to wash soil of plants. If drainage occurs and the plants open, free topsoil shall be brought in and well watered.

Planting of Bulbs

Bulbs shall not be allowed to dry out and shall be free of pests, diseases and fungus. Bulbs shall be planted immediately upon delivery to site. If stored, this shall be for the minimum period in a dark, well-ventilated, protected area at 10-12 degrees Celsius. Certified bulbs shall be provided upon inspection. Bulbs are to be planted, according to species and the season shown on the planting schedule. The turfs shall be laid in consecutive rows with broken joints (rather than end joints) closely butted and to be correct levels. The turf shall be laid off planks working over lower planks laid. Where necessary, the turfs shall be tightly and evenly firmed with wooden beaters, the bottom of the beaters being frequently scraped clean of accumulated soil or moss. A drawing of these after topsoil shall be applied and well finished. Any requirements in finished levels given in variation to turf thickness or uneven consolidation of soil shall be adjusted by using and/or packing the soil into the turf. A note shall not be used. The finished levels of the turf shall conform to the levels indicated, allowing for final settlement. Turf edges and heights shall be laid with whole turfs. Where necessary, turfs or halves shall be used in the face of the structure, giving complete soil cover.

PROTECTION TO EXISTING TREES

The requirements in BS 3081:2013. Trees in Relation to Design, Demolition & Maintenance must be complied with at all times.

All maintenance to be carried out up to 10m from the existing surface/footpath from the date of planting and turfs to ensure successful establishment. All dead, diseased, damaged plants must be removed during this time unless the Local Planning Authority, in writing, any variation to this.

Weeding

All weeds to be kept weed free by hand weeding. Beds to be forked over as necessary to keep soil loose to approved comment with no holes.

Pruning

The Contractor shall ensure that sufficient water is applied to maintain healthy growth.

Litter

Site to be kept free of litter.