

Species  Amelanchier laevis 'Snowflakes'	Girth Multi-Stem	<b>Height</b> 3.0-3.5m	Specification  Multi Stem :3 Ste	ms :Clear Stem 150-175cm :3/5	5 brks :5x :RB	<b>Qty.</b> 1	
Betula utilis var. jacquemontii	Multi-Stem	4.5-5.5m		ms :Clear Stem 150-175cm :3/5		1	
Cercis canadensis	Multi-Stem	4.5-5.5m		ms :Clear Stem 150-175cm :3/5		1	
Heptacodium miconioides	Multi-Stem	3.0-3.5m	Multi Stem :3 Ste	ms :Clear Stem 150-175cm :3/5	5 brks :5x :RB	1	
Prunus serrula 'Tibetica'	16-18cmg	4.0-4.5m	Extra Heavy Stan	dard :3/5 brks :6x :RB		3	
NOTE: Rootball sizes to be confirmed by the selecte	d tree nurseries prior to tag	ging.				Total :7	
PROPOSED SPECIMENS							
Species	Condition	Height	Density	Specification		C	Qty.
Actaea simp' 'Atropurpurea Group'	5L	40-60cm	Counted	Full Pot		1	0
Anemone hybrida 'Honorine Jobert'	5L	40-60cm	Counted	Full Pot		1	0
Cotinus coggygria 'Young Lady'	25L	60-80cm	Counted	Bushy :4/6 brks :Co		1	
Euonymus alatus	25L	100-125cm	Counted	Bushy :4/6 brks :Co	ontainerised	1	
Euphorbia characias subsp. wulfenii Hamamelis intermedia 'Pallida'	5L	40-60cm	Counted	Containerised	antain aria a d	5	
าamamens intermedia Pailida Heuchera villosa 'Autumn Bride'	25L 5L	100-125cm 40-60cm	Counted Counted	Bushy :4/6 brks :Co Full Pot	ontainerised	2 5	
Kniphofia uvaria 'Nobilis'	5L	40-60cm	Counted	Full Pot		1	
_avandula intermedia 'Grosso'	5L	40-60cm	Counted	Containerised		3	
Perovskia 'Blue Spire'	5L	40-60cm	Counted	Full Pot		5	
Sedum 'Matrona'	5L	40-60cm	Counted	Full Pot		5	5
Sedum spectabile 'Herbstfreude'	5L	40-60cm	Counted	Full Pot		8	
Fiarella cordifolia	5L	40-60cm	Counted	Full Pot		5	
Veronica longifolia 'Charlotte'	5L	40-60cm	Counted	Full Pot		1.	5
/iburnum opulus /iburnum rhytidophyllum	25L 25L	100-125cm 100-125cm	Counted Counted	Bushy :4/6 brks :Co Bushy :4/6 brks :Co		1	
праттаттту каортупатт	202	100 1200111	Counted	Bushy 1-470 bind 100	Sindinonoca	т	Total :87
DODIET CHN DHI D MIV #4							
ROBUST SUN BULB MIX #1 Species	Bulb Size	Specification	Density	Percentage Contribution	Number		
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	95	_	
Allium nigrum	10/12	Grade 10/+	12/m²	20%	95		
Eremurus himalaicus	13/15	Grade 10/+	12/m²	20%	95		
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	95		
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	95 Total :475		
					10tal .4/5		
ROBUST SUN BULB MIX #2	Bulb Size	Specification	Density	Percentage Contribution	Number		
Species  Allium hollandicum 'Purple Sensation'	10/12	Specification Grade 10/+	Density 12/m²	Percentage Contribution 20%	Number 51	_	
Allium nigrum	10/12	Grade 10/+ Grade 10/+	12/III <sup>-</sup> 12/m²	20%	51 51		
Eremurus stenophyllus	10/12	Grade 10/+	12/m²	20%	51		
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	51		
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	51		
					Total :255		
ROBUST SUN MIX #1				_			
Species	Pot Size	Specification Full Pot	Density 9/m²	Percentage Contribution 5%	Number 14	_	
Calamagrostis x acutiflora 'Karl Foerster' Hebe albicans	3L 10L	Containerised	9/m² 9/m²	5% 5%	14 14		
Hebe 'Red Edge'	10L	Containerised	9/m²	5%	14		
Helenium 'Moerheim Beauty'	3L	Full Pot	9/m²	10%	27		
Phlomis russeliana	3L	Full Pot	9/m²	10%	27		
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	27		
Salvia nemorosa 'Caradonna'	3L	Full Pot	9/m²	10%	27		
Sesleria autumnalis	3L	Full Pot	9/m²	15%	40		
Stachys byzantina 'Silver Carpet' Stipa tenuissima	3L 3L	Full Pot Full Pot	9/m² 9/m²	10% 15%	27 40		
Verbena bonanensis	3L	Full Pot	9/m²	5%	14		
					Total :271		
ROBUST SUN MIX #2	D-4-01-	0	B "	D			
Species Calamagrostis brachytricha	Pot Size 3L	Specification Full Pot	Density 9/m²	Percentage Contribution 5%	Number 5	_	
Echinacea purpurea 'White Swan'	3L	Full Pot	9/111 <sup>-</sup> 9/m²	10%	10		
Hebe 'Red Edge'	10L	Containerised	9/m²	5%	5		
Hebe albicans	10L	Containerised	9/m²	5%	5		
Helenium 'Sahin'	3L	Full Pot	9/m²	10%	10		
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	10		
Salvia nemorosa 'Ostfiesland'	3L	Full Pot	9/m²	10%	10		
Sesleria autumnalis	3L	Full Pot	9/m²	15%	15 10		
Stachys byzantina 'Silver Carpet' Stina tenuissima	3L 3L	Full Pot Full Pot	9/m² 9/m²	10% 15%	10 15		
Stipa tenuissima √erbena bonanensis	3L 3L	Full Pot Full Pot	9/m² 9/m²	15% 5%	15 5		
<del></del>					Total :100		
ROBUST PARTIAL SHADE MIX #1							
Species	Pot Size	Density	Specification	Percentage Contribution	Number		
Bergenia 'Abendglocken'	3L	9/m²	Full Pot	15%	14		
Euphorbia amygdaloides robbiae Geranium 'Rozanne'	3L	9/m²	Full Pot Full Pot	10% 10%	10 10		
Geranium 'Rozanne' Hebe albicans	3L 10L	9/m² 9/m²	Full Pot Ball: Topiary	10% 5%	10 5		
Hebe 'Red Edge'	10L	9/m²	Ball: Topiary	5%	5		
_ibertia grandiflora	5L	9/m²	Full Pot	5%	5		
Miscanthus sinensis 'Kleine Fontane'	5L	9/m²	Full Pot	10%	10		
Perovskia atriplicifolia 'Little Spire'	3L	9/m²	Full Pot	10%	10		
Sedum spectabile 'Herbstfreude'	3L	9/m²	Full Pot	10%	10 10		
Sesleria autumnalis Stachys byzantina 'Silver Carpet'	3L 3L	9/m² 9/m²	Full Pot Full Pot	10% 10%	10 10		
, ,			<del></del>	-	Total :99		
ROBUST PARTIAL SHADE MIX #2							
Species	Pot Size	Density	Specification	Percentage Contribution	Number		
Bergenia cordifolia 'Purpurea'	3L	9/m²	Full Pot	10%	10		
Euphorbia amygdaloides robbiae	3L	9/m²	Full Pot	15%	14		
Geranium 'Rozanne'	3L	9/m²	Full Pot	10%	10		
Hebe albicans Hebe 'Red Edge'	10L 10L	9/m² 9/m²	Ball: Topiary	5% 5%	5 5		
ibertia grandiflora	10L 5L	9/m² 9/m²	Ball: Topiary Full Pot	5% 5%	5 5		
discanthus sinensis 'Klein Fontane'	5L 5L	9/m²	Full Pot	10%	10		
	3L	9/m²	Full Pot	10%	10		
	JL						
Perovskia atriplicifolia 'Little Spire' Sedum spectabile 'Stardust'	3L	9/m²	Full Pot	10%	10		
Perovskia atriplicifolia 'Little Spire' Sedum spectabile 'Stardust' Sesleria autumnalis	3L 3L	9/m²	Full Pot	10%	10		
Perovskia atriplicifolia 'Little Spire' Sedum spectabile 'Stardust'	3L						

**S1 Roof Terrace - Planting Schedule** 

10L & 5L Specimen Species are to be planted at random throughout the mix bed. The spacing between each specimen species should be consistent. This will create structure and rhythm in the planting beds. The 5L and 10L specimens should be set out first. 3L planting species are to be planted in groups of 3, 5 or 7 within the planting beds. Planting principles - larger species towards the back, smaller species towards the front.

Bulb species should be planted in conjunction with the planting mixes. The bulbs should be evenly distributed throughout the planting beds. Bulbs should not be planted underneath evergreen species where they will not be seen.

### **Nursery Stock and Selection**

Dormant trees sizes of 45-50cmg

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All delivered stock is to be inspected by the landscape architect prior to any planting being

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees.

The landscape contractor must follow the industry guidance method for handling trees. Below are recommended industry standards.

These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting weight on the root hooks.

Dormant trees sizes of 18-20cmg - 25-30cmg
These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when

hese can be lifted and unloaded using a 5 tonne sling in combination with a chain and root hooks ensuring the root hooks are hammered firmly into the rootball. Different lengths of chains can be used, however bare in mind that the longer the chain the more vertical the tree will be that will provide greater pressure on the bark. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading Dormant trees sizes of 50-60cmg

These can be lifted and unloaded using an 8 tonne sling in combination with a hoisting strap that will pull less pressure on the trunk. The tree will also hang more vertically that makes unloading the tree directly into the planting hole easier. Note: If the trees are to be laid flat until planted it is better to use chains for unloading. Using the correct chain length will ensure the tree is moved horizontally. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading. Dormant trees sizes 70cmg and above

It is recommended that the landscape contractor seek specialist advice when dealing with extremely large trees. Extra large trees can be lifted with a Newman frame. During the harvesting process the frame is fitted to the trees and goes with the tree to it's final location. Only when the tree has been planted is the frame removed.

The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be loosened with hand held tools.

Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil. All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterraneal cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting.

Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees >25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the posts with galvanised nails.

Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989' Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking.

Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain. All topsoil is to conform to BS 3882:2015 'Multipurpose' or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitax Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The

second application to be made 10-16 weeks after planting depending on soil type and weather conditions. Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed

with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NJUG specification and requirements are to be referred too.

## **Guidance for Tree Pit Sizes within Soft Landscape Areas**

Final tree pit size will vary dependent on size of rootball, tree stock and soil type. Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidelines Rootball Size Tree pit size (length, width, depth) Tree size

14-16 cmg 80x80x65cm 50x50cm 80x80x75cm 18-20 cmg 60x60cm 20-25 cmg 90x90x75cm 30-35 cmg 90x60cm 110x110x75cm

## Biodiverse Roof Specification

Briza media

Hordeum brachvantherum

The Bauder WB Native Wildflower Blanket shall be used on all the biodiverse roof locations across all of the rooftop terraces. The Bauder WB Native Wildflower Blanket is a British growth vegetation Blanket designed for use on green roofs. Containing a broad mix of UK native wildflower species. Suitable to be laid on Bauder (FLL Compliant) Biodiverse substrate Bauder WB Native Wildflower Blanket contains a broad mix of British Wildflowers grown in substrate on a coir carrier. The natural fibres of the coir carrier promote the rapid rooting of the blanket into the substrate. The product is installed over Bauder, FLL Compliant Biodiverse Substrate. The vegetation is a mix of hardy Wildflowers, annuals and herbs. The vegetation is cut back in the summer prior to delivery to reduce plant stress.

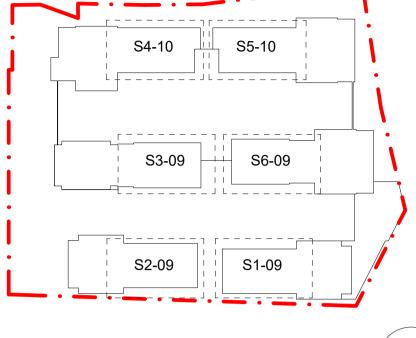
A list of the species which make up the Bauder WB Native Wildflower Blanket are detailed below:

Achillea millefolium Yarrow Agrimonia eupatoria Agrimony Columbine Aquilegia vulgaris Campanula glomerata Bellflower: Clustered Campanula rotundifolia Centaurea nigra Knapweed: Common Chicorium intybus Clinipodiem vulgare Daucus carota Carrot: Wild Dianthus deltoides Pink; Maiden Dipsacus fullonum Echium vulgare Viper's-bugloss Feoniculum vulgare Crane's-bill; Meadow Geranium pratense Bird's-foot-trefoil; Common Lythrum salicaria Purple: Loosestrife Mallow; Musk Malva moscahta Papaver rhoes Poppy; Field or Commor Pilosella aurantiaca Fox-and-cubs Plantago media Hoary plantain Primula veris Cowslip Primrose Primula vulgaris Rumex acetosa Sorrel; Common Salvia verbenaca Clary: Wild Scabious; Small Scabiosa columbaria Scorzoneroides autumnalis Hawkbit; Autumr Silene dioica Campion; Red Silene flos-cucculi Ragged-Robin Campion; White Silene uniflora Sucissa pratensis Devil's-bit scabious Tanacetum vulgare Thymus polytrichus Trifolium pratense Clover: Red Viola riviniana Common dog violet Viola tricolor Pansy; Wild or Heartsease Grass Species (<10%) Common Name Festuca ovina Sheepsfescue Slender Creeping Red Fescue Festuca rubra

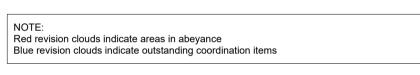
Quaking-grass

Barley: Meadow

REFER TO THE FOLLOWING DRAWINGS: S1 Roof Terrace Planting Plan - Trees & Hedging E746-FAB-S1-09-DR-LA-920-1301 S1 Roof Terrace Planting Plan - Specimen Shrubs & Bulb Mixes E746-FAB-S1-09-DR-LA-920-1302 S1 Roof Terrace Planting Plan - Ground Cover Matrix Mixes & Block Planting E746-FAB-S1-09-DR-LA-920-1303 S1 Roof Terrace Planting Plan - Specimen Herbaceous & Grasses E746-FAB-S1-09-DR-LA-920-1304 S1 Roof Terrace Planting Plan - Soft Landscape Planting Schedule E746-FAB-S1-09-DR-LA-920-1305 S5-10



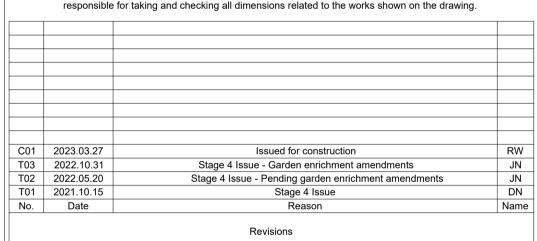
NORTH



Key Plan - Roof Terraces Planting

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D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-PO-ZZ-M3-A-001-0001.ifc
D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S1-ZZ-Wo-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S1-ZZ-Wo-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S2-ZZ-M3-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S3-ZZ-M3-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S4-ZZ-M3-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S5-ZZ-M3-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S6-ZZ-M3-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S6-ZZ-M3-A-001-0001.lfc D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-S6-ZZ-M3-A-001-0001.lfc D7430 St Albans Road
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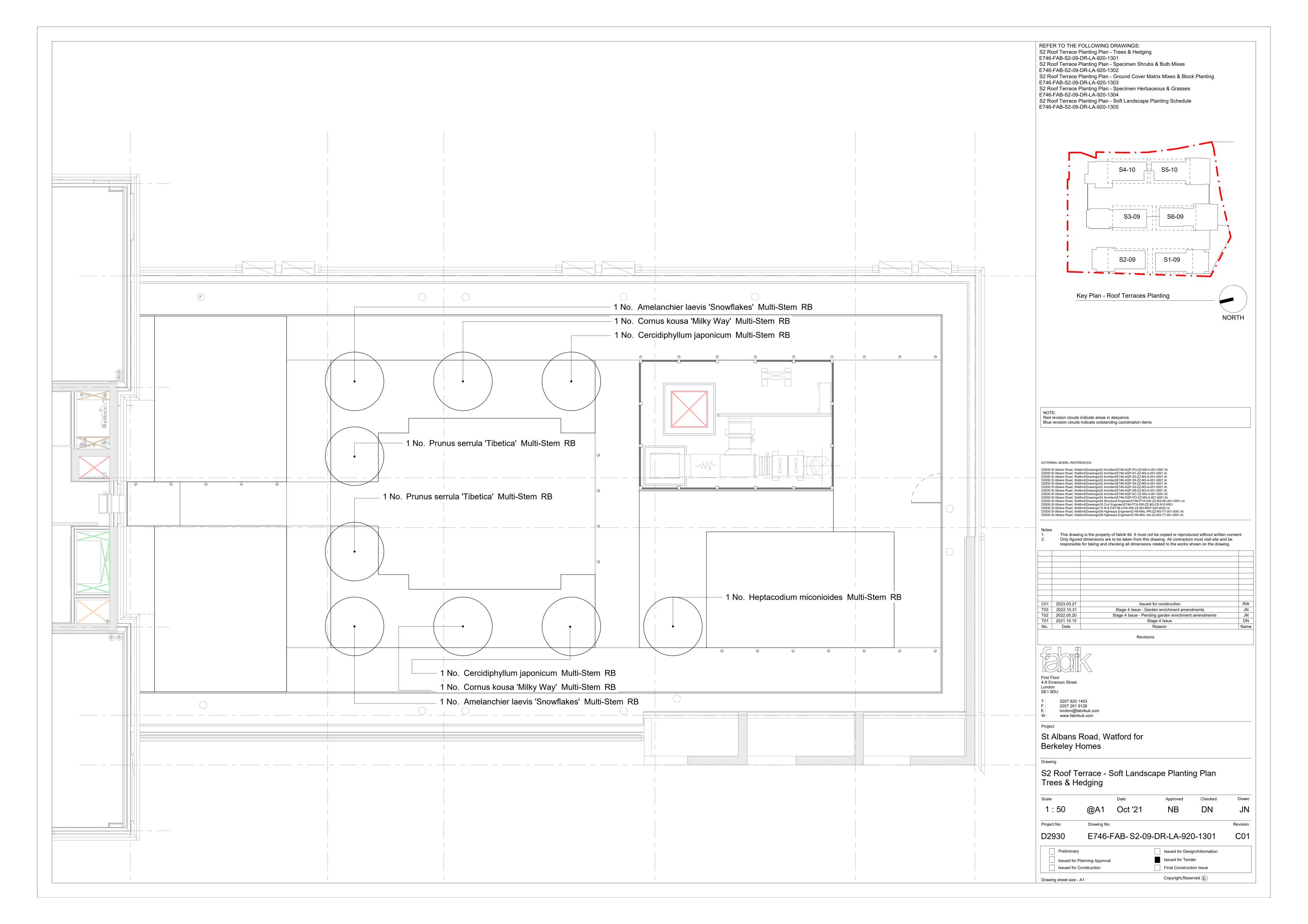
St Albans Road, Watford for Berkeley Homes

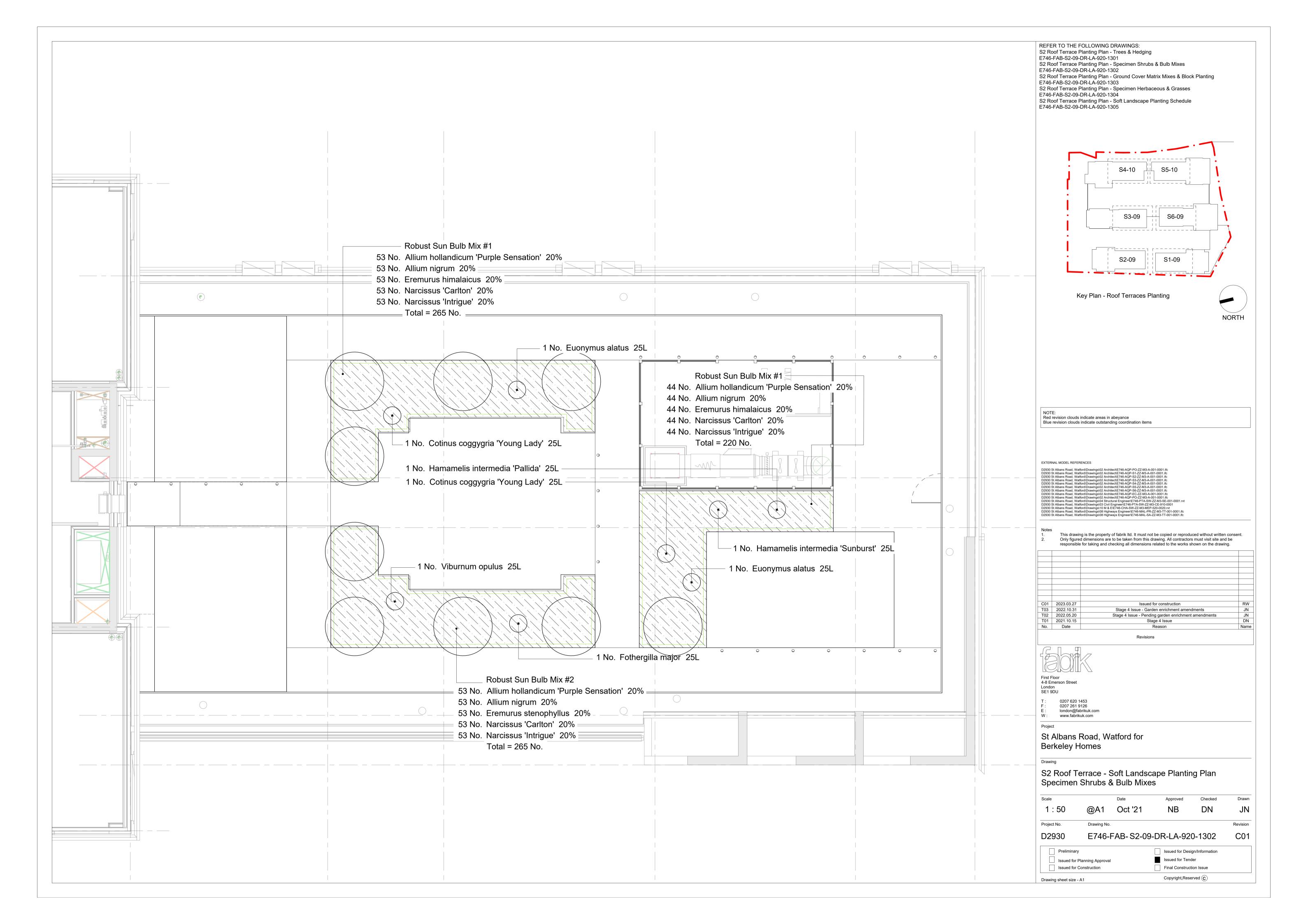
S1 Roof Terrace -

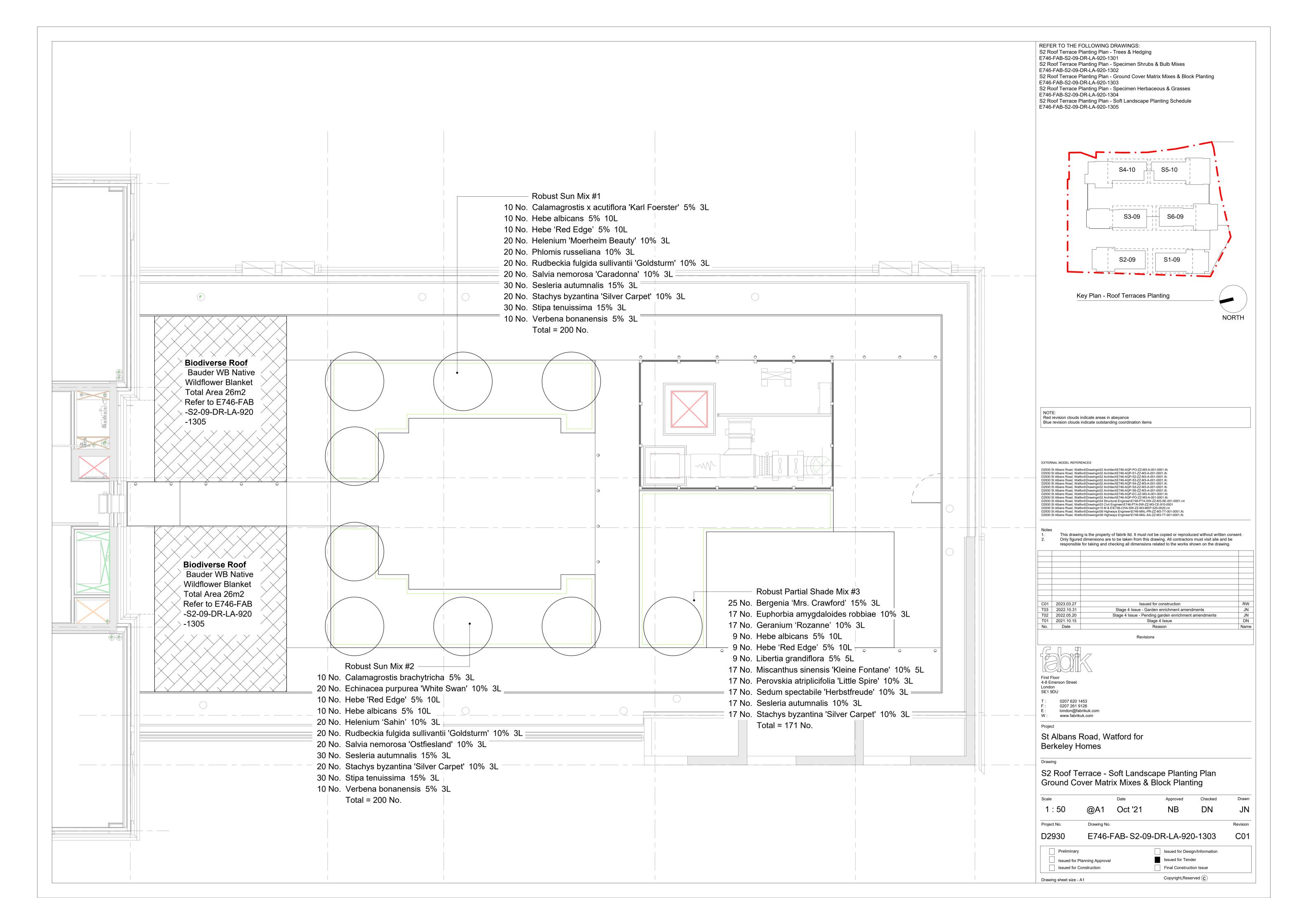
Soft Landscape Planting Schedule

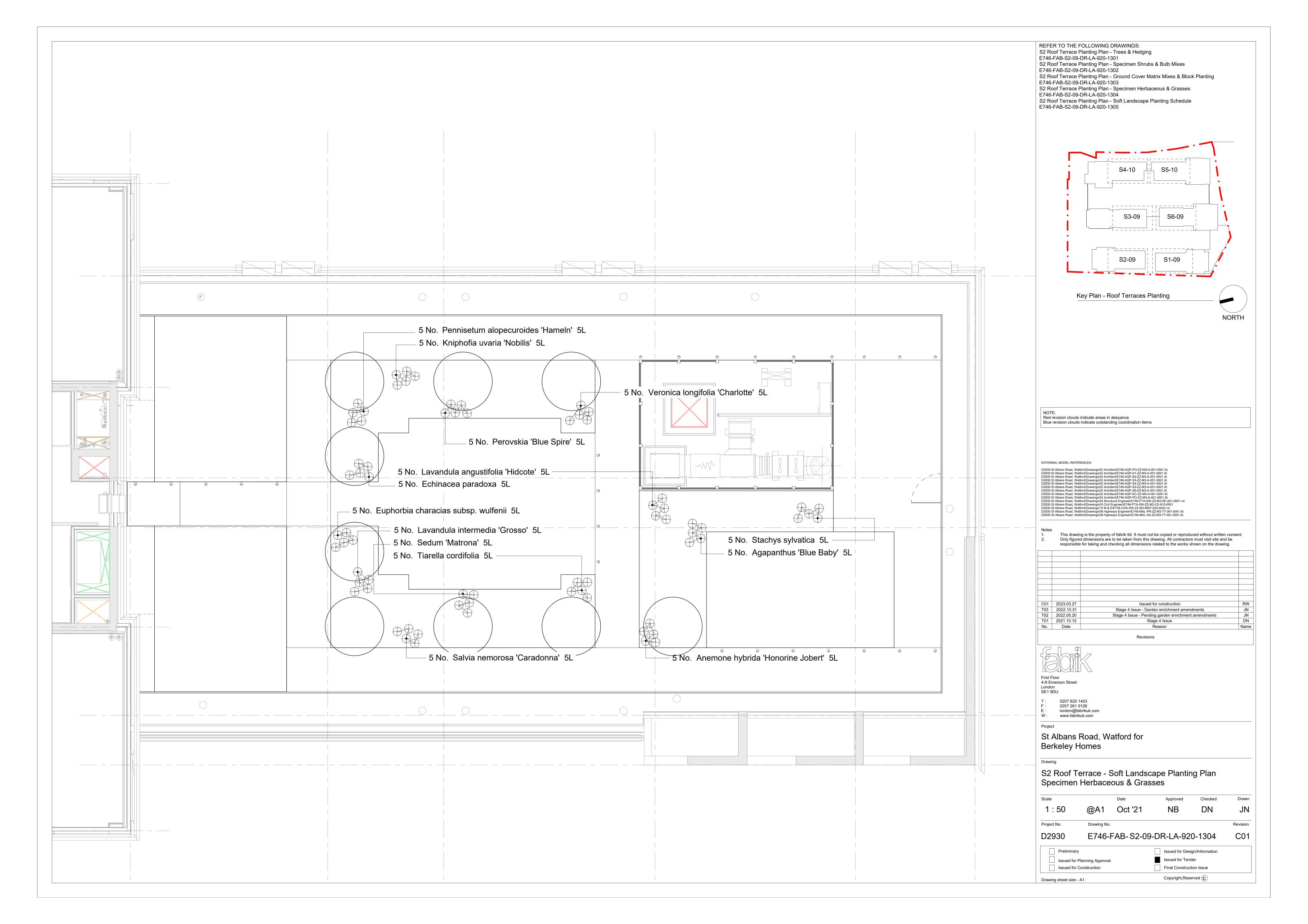
Drawn Scale Approved Checked Oct '21 NB DN Project No. D2930 E746-FAB-S1-09-DR-LA-920-1305

Preliminary	Issued for Design/Information
Issued for Planning Approval	Issued for Tender
Issued for Construction	Final Construction Issue
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# **S2 Roof Terrace - Planting Schedule**

Species	Girth	Height	Specification	- Ol Ot 450 455	.E. DD	Qt
Amelanchier laevis 'Snowflakes'	Multi-Stem	4.5-5.5m		s :Clear Stem 150-175cm :3/5 brks		2
Cercidiphyllum japonicum	Multi-Stem	4.5-5.5m		s:Clear Stem 150-175cm :3/5 brks		2
Cornus kousa 'Milky Way'	Multi-Stem	4.5-5.5m		s :Clear Stem 150-175cm :3/5 brks		2
eptacodium miconioides	Multi-Stem	3.0-3.5m		s :Clear Stem 150-175cm :3/5 brks		1
runus serrula 'Tibetica'	Multi-Stem	4.5-5.5m	Multi Stem :3 Stems	s :Clear Stem 150-175cm :3/5 brks	:5x :RB	2
OTE: Rootball sizes to be confirmed by the selecte	d tree nurseries prior to tag	ging.				То
ROPOSED SPECIMENS						
pecies	Condition	Height	Density	Specification		Qty.
gapanthus 'Blue Baby'	5L	40-60cm	Counted	Full Pot		5
nemone hybrida 'Honorine Jobert'	5L	40-60cm	Counted	Full Pot		5
otinus coggygria 'Young Lady'	25L	60-80cm	Counted	Bushy:4/6 brks:Containerised		2
chinacea paradoxa	5L	40-60cm	Counted	Full Pot		5
uonymus alatus	25L	100-125cm	Counted	Bushy:4/6 brks:Containerised		2
uphorbia characias subsp. wulfenii	5L	40-60cm	Counted	Containerised		5
othergilla major	25L	100-125cm	Counted	Bushy:4/6 brks:Containerised		1
amamelis intermedia 'Pallida'	25L	100-125cm	Counted	Bushy :4/6 brks :Containerised		1
amamelis intermedia 'Sunburst'	25L	100-125cm	Counted	Bushy :4/6 brks :Containerised		1
niphofia uvaria 'Nobilis'	5L	40-60cm	Counted	Full Pot		5
avandula angustifolia 'Hidcote'	5L	40-60cm	Counted	Containerised		5
avandula intermedia 'Grosso'	5L	40-60cm	Counted	Containerised		5
ennisetum alopecuroides 'Hameln'	5L	50-100cm	Counted	Full Pot		5
erovskia 'Blue Spire'	5L	40-60cm	Counted	Full Pot		5
alvia nemorosa 'Caradonna'		40-60cm	Counted	Full Pot		
	5L					5
edum 'Matrona'	5L	40-60cm	Counted	Full Pot		5
tachys sylvatica	5L	40-60cm	Counted	Full Pot		5
iarella cordifolia	5L	40-60cm	Counted	Full Pot		5
eronica longifolia 'Charlotte'	5L	40-60cm	Counted	Full Pot		5
iburnum opulus	25L	100-125cm	Counted	Bushy :4/6 brks :Containerised		1
						Tota
OBUST SUN BULB MIX #1						
pecies	Bulb Size	Specification	Density	Percentage Contribution	Number	
llium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	97	
llium nigrum	10/12	Grade 10/+	12/m²	20%	97	
remurus himalaicus	13/15	Grade 10/+	12/m²	20%	97	
arcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	97	
arcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	97	
					Total :485	
OBUST SUN BULB MIX #2						
pecies	Bulb Size	Specification	Density	Percentage Contribution	Number	
llium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	53	
llium nigrum	10/12	Grade 10/+	12/m²	20%	53	
remurus stenophyllus	10/12	Grade 10/+	12/m²	20%	53	
larcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	53	
arcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	53	
					Total :265	
OBUST SUN MIX #1						
pecies	Pot Size	Specification	Density	Percentage Contribution	Number	
alamagrostis x acutiflora 'Karl Foerster'		Full Pot	9/m²	5%	10	
ebe albicans	10L	Containerised	9/m²	5%	10	
ebe 'Red Edge'	10L	Containerised	9/m²	5%	10	
elenium 'Moerheim Beauty'	3L	Full Pot	9/m²	10%	20	
hlomis russeliana	3L	Full Pot	9/m²	10%	20	
udbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	20	
alvia nemorosa 'Caradonna'	3L	Full Pot	9/m²	10%	20	
esleria autumnalis	3L	Full Pot	9/m²	15%	30	
		Full Pot	9/m²	10%	20	
tachys byzantina 'Silver Carpet'	3L					
tipa tenuissima	3L	Full Pot	9/m²	15%	30	
erbena bonanensis	3L	Full Pot	9/m²	5%	10 Total :200	
					Total :200	
OBUST SUN MIX #2						
pecies	Pot Size	Specification	Density	Percentage Contribution	Number	
alamagrostis brachytricha	3L	Full Pot	9/m²	5%	10	
chinacea purpurea 'White Swan'	3L	Full Pot	9/m²	10%	20	
ebe 'Red Edge'	10L	Containerised	9/m²	5%	10	
ebe albicans	10L	Containerised	9/m²	5%	10	
elenium 'Sahin'	3L	Full Pot	9/m²	10%	20	
udbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	20	
alvia nemorosa 'Ostfiesland'	3L	Full Pot	9/m²	10%	20	
esleria autumnalis	3L	Full Pot	9/m²	15%	30	
tachys byzantina 'Silver Carpet'	3L	Full Pot	9/m²	10%	20	
tipa tenuissima	3L	Full Pot	9/m²	15%	30	
erbena bonanensis	3L	Full Pot	9/m²	5%	10 Total :200	
					Total :200	
OBUST PARTIAL SHADE MIX #3	D					
pecies	Pot Size	Specification	Density	Percentage Contribution	Number	
ergenia 'Mrs. Crawford'	3L	Full Pot	9/m²	15%	25	
uphorbia amygdaloides robbiae	3L	Full Pot	9/m²	10%	17	
eranium 'Rozanne'	3L	Full Pot	9/m²	10%	17	
ebe albicans	10L	Ball: Topiary	9/m²	5%	9	
ebe 'Red Edge'	10L	Ball: Topiary	9/m²	5%	9	
bertia grandiflora	5L	Full Pot	9/m²	5%	9	
iscanthus sinensis 'Kleine Fontane'	5L	Full Pot	9/m²	10%	17	
erovskia atriplicifolia 'Little Spire'	3L	Full Pot	9/m²	10%	17	
edum spectabile 'Herbstfreude'	3L	Full Pot	9/m²	10%	17	
•			<b>-</b> : -			
esleria autumnalis tachys byzantina 'Silver Carpet'	3L 3L	Full Pot Full Pot	9/m² 9/m²	10% 10%	17 17	

NOTES FOR MIX PLANTING:

10L & 5L Specimen Species are to be planted at random throughout the mix bed. The spacing between each specimen species should be consistent. This will create structure and rhythm in the planting beds. The 5L and 10L specimens should be set out first. 3L planting species are to be planted in groups of 3, 5 or 7 within the planting beds. Planting principles - larger species towards the back, smaller species towards the front.

Bulb species should be planted in conjunction with the planting mixes. The bulbs should be evenly distributed throughout the planting beds. Bulbs should not be planted underneath evergreen species where they will not be seen.

## GENERAL NOTES FOR SOFT LANDSCAPE

### **Nursery Stock and Selection**

Dormant trees sizes of 45-50cmg

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All delivered stock is to be inspected by the landscape architect prior to any planting being

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees.

The landscape contractor must follow the industry guidance method for handling trees. Below are recommended industry standards. These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting

weight on the root hooks. Dormant trees sizes of 18-20cmg - 25-30cmg These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when

These can be lifted and unloaded using a 5 tonne sling in combination with a chain and root hooks ensuring the root hooks are hammered firmly into the rootball. Different lengths of chains can be used, however bare in mind that the longer the chain the more vertical the tree will be that will provide greater pressure on the bark. Even when the tree is dormant it is recommended to wrap the stem in hessian for

Dormant trees sizes of 50-60cmg These can be lifted and unloaded using an 8 tonne sling in combination with a hoisting strap that will pull less pressure on the trunk. The tree will also hang more vertically that makes unloading the tree directly into the planting hole easier. Note: If the trees are to be laid flat until planted it is better to use chains for unloading. Using the correct chain length will ensure the tree is moved horizontally. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading.

Dormant trees sizes 70cmg and above It is recommended that the landscape contractor seek specialist advice when dealing with extremely large trees. Extra large trees can be lifted with a Newman frame. During the harvesting process the frame

is fitted to the trees and goes with the tree to it's final location. Only when the tree has been planted is the frame removed.

The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be loosened with hand held tools

Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil. All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterraneal cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and

manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting. Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the

specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees >25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the posts with galvanised nails. Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989' Recommendations for Transplanting Root-Balled Trees'. The type

of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking. Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain.

All topsoil is to conform to BS 3882:2015 'Multipurpose' or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitax Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The second application to be made 10-16 weeks after planting depending on soil type and weather conditions.

Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NJUG specification and requirements are to be referred too.

### Guidance for Tree Pit Sizes within Soft Landscape Areas Final tree pit size will vary dependent on size of rootball, tree stock and soil type.

Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidel Tree size	lines: Rootball Size	Tree pit size (length, width, dept
14-16 cmg	50x50cm	80x80x65cm
18-20 cmg	60x60cm	80x80x75cm
20-25 cmg	70x60cm	90x90x75cm
30-35 cmg	90x60cm	110x110x75cm

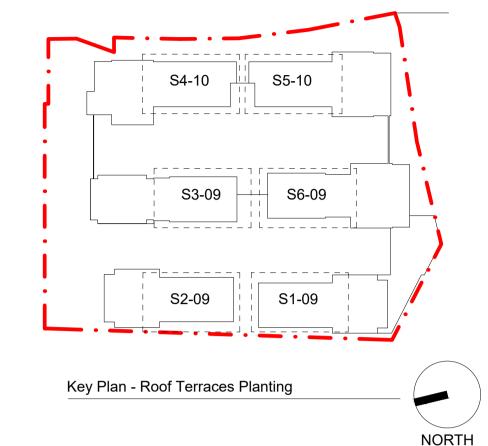
# **Biodiverse Roof Specification**

The Bauder WB Native Wildflower Blanket shall be used on all the biodiverse roof locations across all of the rooftop terraces. The Bauder WB Native Wildflower Blanket is a British growth vegetation Blanket designed for use on green roofs. Containing a broad mix of UK native wildflower species. Suitable to be laid on Bauder (FLL Compliant) Biodiverse substrate Bauder WB Native Wildflower Blanket contains a broad mix of British Wildflowers grown in substrate on a coir carrier. The natural fibres of the coir carrier promote the rapid rooting of the blanket into the substrate. The product is installed over Bauder, FLL Compliant Biodiverse Substrate. The vegetation is a mix of hardy Wildflowers, annuals and herbs. The vegetation is cut back in the summer prior to delivery to reduce plant stress.

A list of the species which make up the Bauder WB Native Wildflower Blanket are detailed below:

```
Achillea millefolium
 Agrimonia eupatoria
                                     Agrimony
                                     Daisy
Bellflower; Clustered
 Bellis perennis
 Campanula glomerata
 Campanula rotundifolia
 Centaurea cyanus
                                      Cornflower
Centaurea nigra
                                      Knapweed; Common
Chicorium intybus
 Clinipodiem vulgare
Daucus carota
                                     Carrot: Wild
Dianthus deltoides
                                      Pink; Maiden
 Dipsacus fullonum
 Echium vulgare
                                     Viper's-bugloss
 Feoniculum vulgare
                                      Crane's-bill; Meadow
 Geranium pratense
 Lotus corniculatus
                                      Bird's-foot-trefoil; Common
 Lvthrum salicaria
                                      Purple: Loosestrife
 Malva moscahta
                                      Mallow; Musk
                                      Marjoram; Wild
 Papaver rhoes
                                      Poppy; Field or Common
Pilosella aurantiaca
                                     Fox-and-cubs
                                      Hoary plantain
 Plantago media
 Primula veris
                                      Cowslip
Primula vulgaris
                                      Primrose
 Ranunculus acris
                                      Buttercup; Meadow
Rumex acetosa
                                      Sorrel; Common
Salvia verbenaca
                                      Clary: Wild
                                      Scabious; Small
 Scabiosa columbaria
                                      Hawkbit; Autumn
Silene dioica
                                      Campion: Red
                                      Ragged-Robin
Silene flos-cucculi
 Sucissa pratensis
                                      Devil's-bit scabious
 Tanacetum vulgare
                                       Thyme; Wild
 Thymus polytrichus
 Trifolium pratense
                                      Clover; Red
Viola riviniana
                                      Common dog violet
Viola tricolor
                                      Pansy; Wild or Heartsease
Grass Species (<10%)
                                     Common Name
 Festuca ovina
                                      Sheepsfescue
 Festuca rubra
                                      Slender Creeping Red Fescue
Briza media
                                      Quaking-grass
                                     Barley; Meadow
Hordeum brachyantherum
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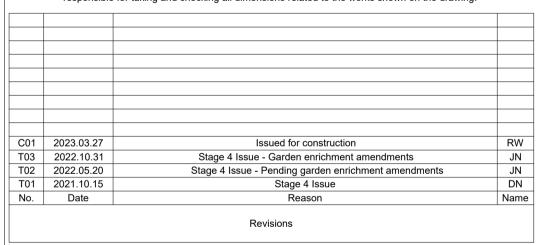
REFER TO THE FOLLOWING DRAWINGS: S2 Roof Terrace Planting Plan - Trees & Hedging E746-FAB-S2-09-DR-LA-920-1301 S2 Roof Terrace Planting Plan - Specimen Shrubs & Bulb Mixes E746-FAB-S2-09-DR-LA-920-1302 S2 Roof Terrace Planting Plan - Ground Cover Matrix Mixes & Block Planting E746-FAB-S2-09-DR-LA-920-1303 S2 Roof Terrace Planting Plan - Specimen Herbaceous & Grasses E746-FAB-S2-09-DR-LA-920-1304 S2 Roof Terrace Planting Plan - Soft Landscape Planting Schedule E746-FAB-S2-09-DR-LA-920-1305

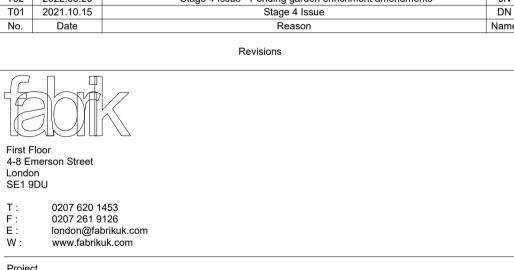




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D2930 St Albans Road, Watford\Drawings\08 Highways Engineer\E746-MAL-SA-ZZ-M3-TT-001-0001.ifc
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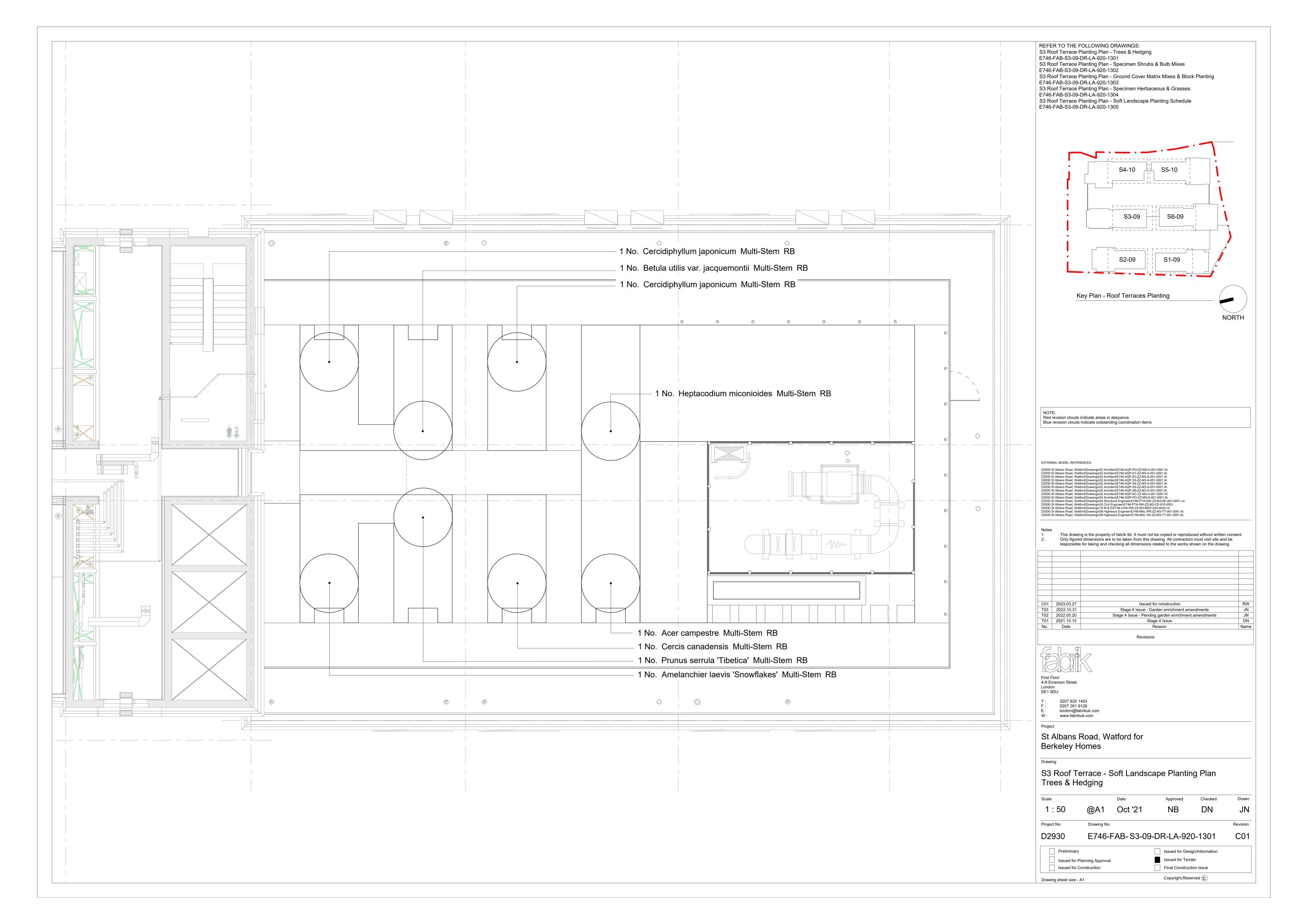


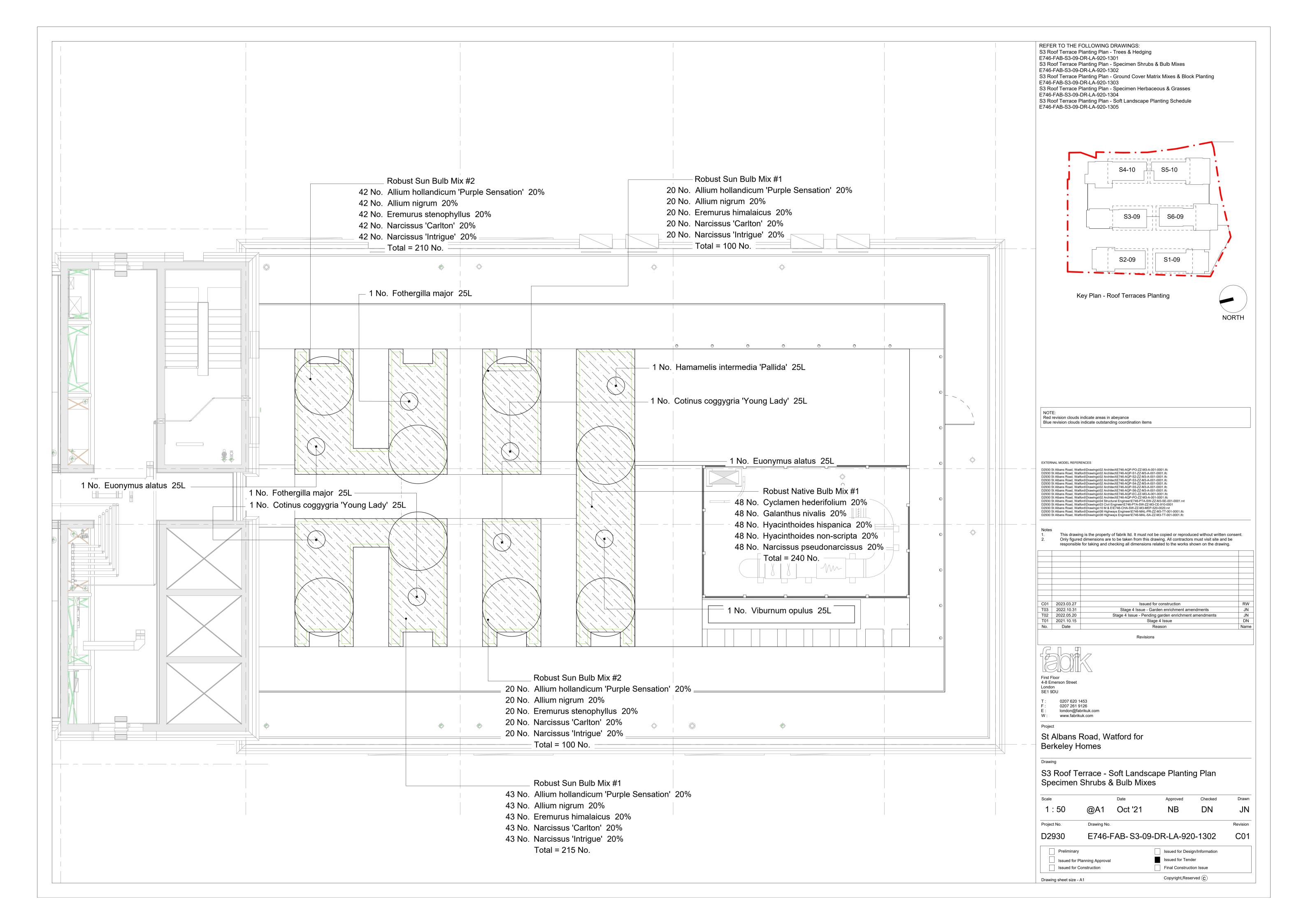
# St Albans Road, Watford for Berkeley Homes

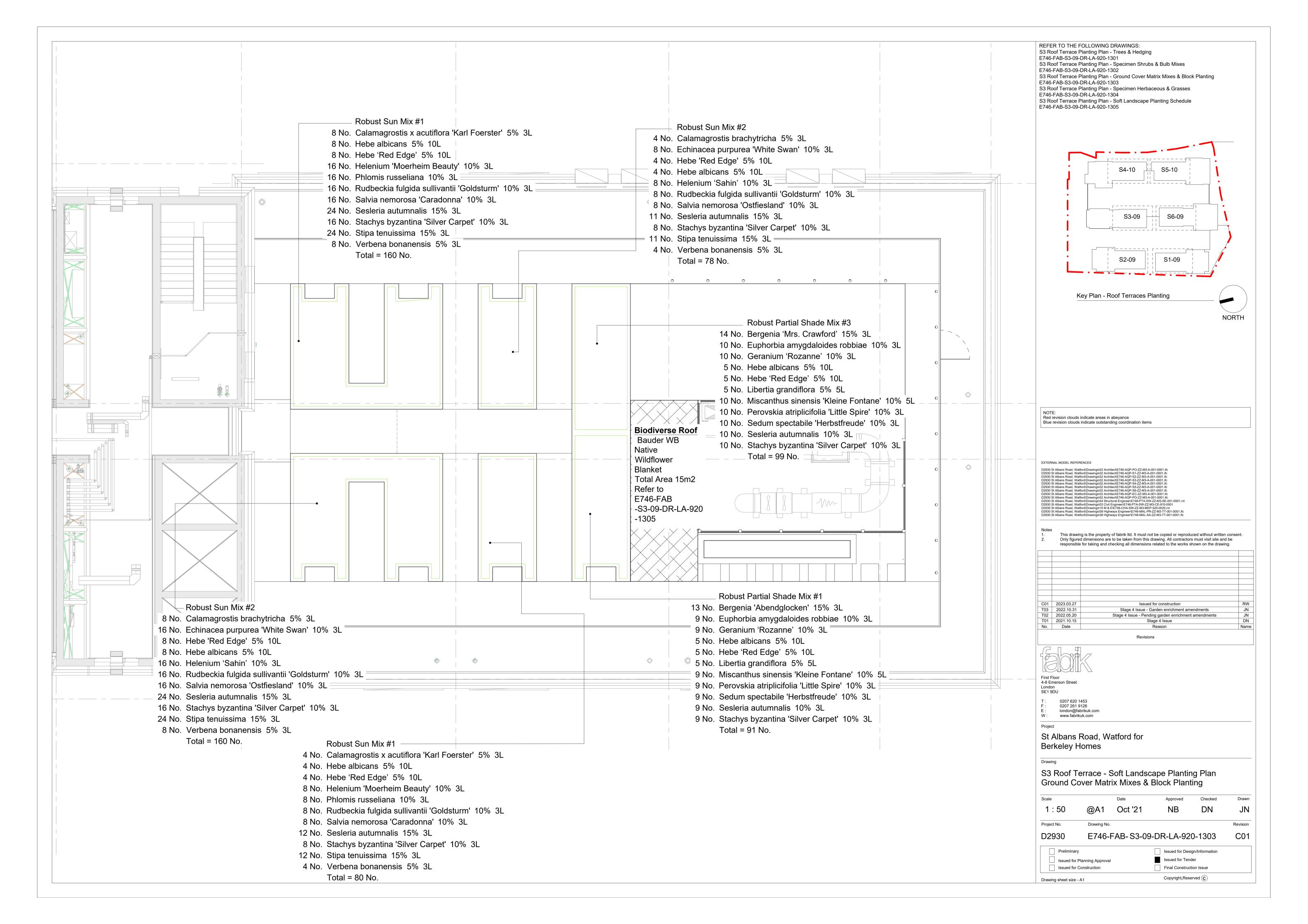
S2 Roof Terrace -Soft Landscape Planting Schedule

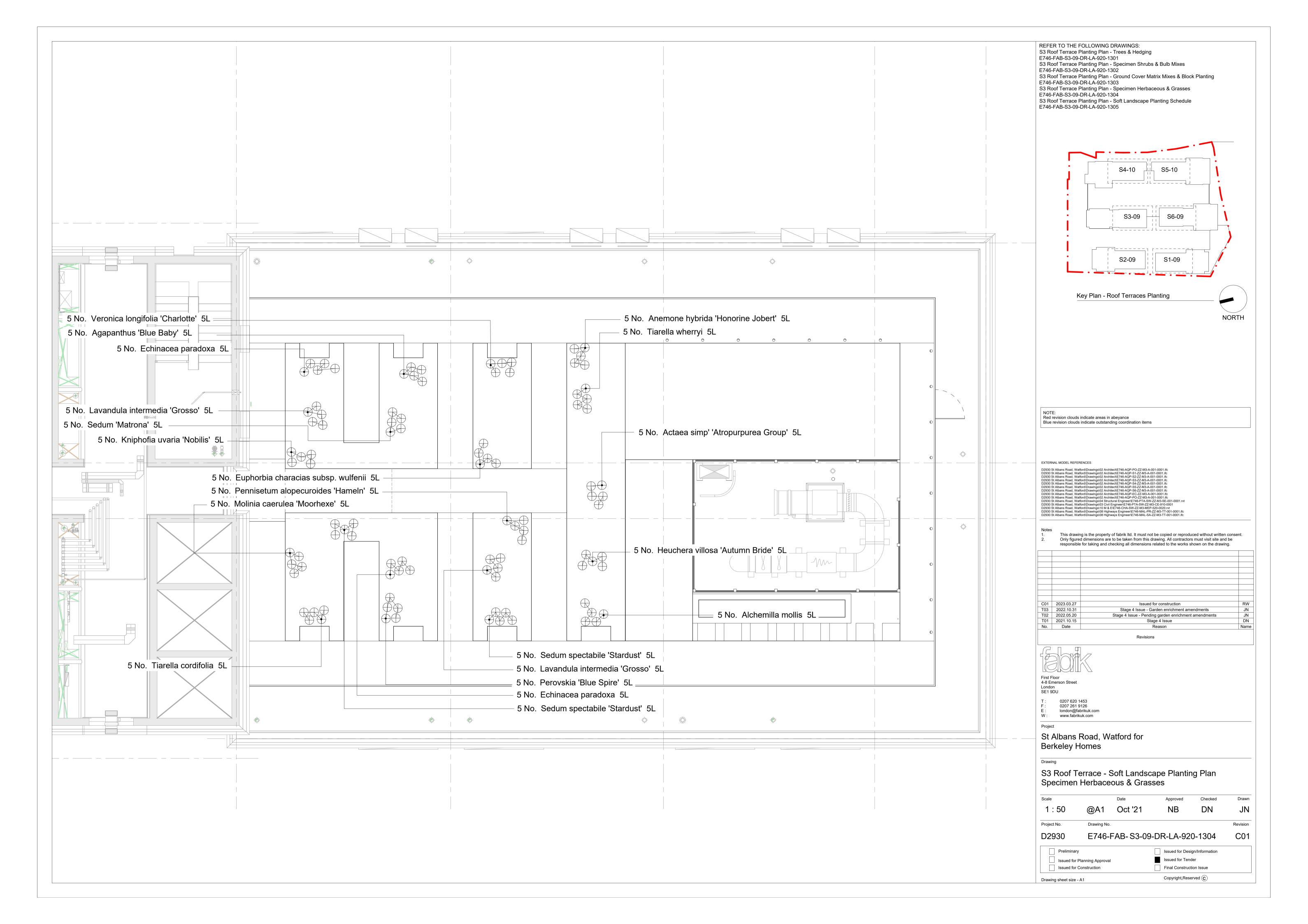
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Project No.	Drawing No				Revision
D2930	E746-	FAB- S2-09-	DR-LA-92	0-1305	C01

Preliminary	Issued for Design/Information
Issued for Planning Approval	Issued for Tender
Issued for Construction	Final Construction Issue
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S3 Roof Terrace - Plantin	g Schedule					
PROPOSED TREES	•					
Species	Girth	Height	Specification			Qty.
Acer campestre	Multi-Stem	4.5-5.5m	Multi Stem :3 Stems	:Clear Stem 150-175cm :3/5 brks	:5x :RB	1
Amelanchier laevis 'Snowflakes'	Multi-Stem	4.5-5.5m	Multi Stem :3 Stems	:Clear Stem 150-175cm :3/5 brks	:5x :RB	1
Betula utilis var. jacquemontii	Multi-Stem	3.0-3.5m		:Clear Stem 150-175cm :3/5 brks		1
Cercidiphyllum japonicum	Multi-Stem	4.5-5.5m		:Clear Stem 150-175cm :3/5 brks		2
Cercis canadensis	Multi-Stem	4.5-5.5m		:Clear Stem 150-175cm :3/5 brks		1
Heptacodium miconioides Prunus serrula 'Tibetica'	Multi-Stem Multi-Stem	4.5-5.5m 3.0-3.5m		:Clear Stem 150-175cm :3/5 brks :Clear Stem 150-175cm :3/5 brks		1
			Multi Stem :3 Stems	:Clear Stem 150-175cm :3/5 brks	5 :5X :RB	Total :8
NOTE: Rootball sizes to be confirmed by the selected	ed tree nurseries prior to tag	gging.				
PROPOSED SPECIMENS						
Species	Condition	Height	Density	Specification		Qty.
Actaea simp' 'Atropurpurea Group'	5L	40-60cm	Counted	Full Pot		5
Agapanthus 'Blue Baby' Alchemilla mollis	5L 5L	40-60cm 40-60cm	Counted Counted	Full Pot Full Pot		5 5
Anemone hybrida 'Honorine Jobert'	5L 5L	40-60cm	Counted	Full Pot		5
Cotinus coggygria 'Young Lady'	25L	60-80cm	Counted	Bushy :4/6 brks :Containerised		2
Echinacea paradoxa	5L	40-60cm	Counted	Full Pot		10
Euonymus alatus	25L	100-125cm	Counted	Bushy:4/6 brks:Containerised		2
Euphorbia characias subsp. wulfenii	5L	40-60cm	Counted	Containerised		5
Fothergilla major	25L	100-125cm	Counted	Bushy :4/6 brks :Containerised		2
Hamamelis intermedia 'Pallida'	25L	100-125cm	Counted	Bushy :4/6 brks :Containerised		1
Heuchera villosa 'Autumn Bride' Kniphofia uvaria 'Nobilis'	5L 5L	40-60cm 40-60cm	Counted Counted	Full Pot Full Pot		5 5
Lavandula intermedia 'Grosso'	5L	40-60cm	Counted	Containerised		10
Molinia caerulea 'Moorhexe'	5L	50-100cm	Counted	Full Pot		5
Pennisetum alopecuroides 'Hameln'	5L	50-100cm	Counted	Full Pot		5
Perovskia 'Blue Spire'	5L	40-60cm	Counted	Full Pot		5
Sedum 'Matrona'	5L	40-60cm	Counted	Full Pot		5
Sedum spectabile 'Stardust'	5L	40-60cm	Counted	Full Pot		10
Tiarella cordifolia	5L	40-60cm	Counted	Full Pot		5
Tiarella wherryi Veronica longifolia 'Charlotte'	5L 5L	40-60cm 40-60cm	Counted Counted	Full Pot Full Pot		5
Veronica longilolla Charlotte Viburnum opulus	5L 25L	100-125cm	Counted			5 1
vibariani opulus	ZUL	100-120011	Counted	Bushy :4/6 brks :Containerised		Total :108
ROBUST NATIVE BULB MIX #1						
Species	Bulb Size	Specification	Density	Percentage Contribution	Number	
Cyclamen hederifolium	13/15 10/12	Grade 10/+	12/m²	20%	48	
Galanthus nivalis Hyacinthoides hispanica	5/7	Grade 10/+ Grade 10/+	12/m² 12/m²	20% 20%	48 48	
Hyacinthoides non-scripta	5/7	Grade 10/+	12/m²	20%	48	
Narcissus pseudonarcissus	10/12	Grade 10/+	12/m²	20%	48	
•					Total :240	
ROBUST SUN BULB MIX #1	5 " 6"		<b>-</b>			
Species	Bulb Size	Specification	Density	Percentage Contribution	Number	
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	63	
Allium nigrum Eremurus himalaicus	10/12 13/15	Grade 10/+ Grade 10/+	12/m² 12/m²	20% 20%	63 63	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	63	
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	63	
					Total :315	
ROBUST SUN BULB MIX #2	Dully O'-	0	D Mr.	D	Manualian	
Species Allium hollandicum 'Purple Sensation'	Bulb Size 10/12	Specification Grade 10/+	Density 12/m²	Percentage Contribution 20%	Number 62	
Allium nigrum	10/12	Grade 10/+ Grade 10/+	12/m²	20%	62	
Eremurus stenophyllus	10/12	Grade 10/+	12/m²	20%	62	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	62	
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	62	
					Total :310	
DODLICT CLIN MIV #4						
ROBUST SUN MIX #1 Species	Pot Size	Specification	Density	Percentage Contribution	Number	
Calamagrostis x acutiflora 'Karl Foerster		Full Pot	9/m²	5%	Number 12	
Hebe albicans	10L	Containerised	9/m²	5%	12	
Hebe 'Red Edge'	10L	Containerised	9/m²	5%	12	
Helenium 'Moerheim Beauty'	3L	Full Pot	9/m²	10%	24	
Phlomis russeliana	3L	Full Pot	9/m²	10%	24	
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	24	
Salvia nemorosa 'Caradonna' Sesleria autumnalis	3L 31	Full Pot Full Pot	9/m² 9/m²	10% 15%	24 36	
Sesieria autumnalis Stachys byzantina 'Silver Carpet'	3L 3L	Full Pot Full Pot	9/m² 9/m²	15% 10%	36 24	
Stipa tenuissima	3L	Full Pot	9/m²	15%	36	
Verbena bonanensis	3L	Full Pot	9/m²	5%	12	
					Total :240	
DODUCT CHA MIV #0						
ROBUST SUN MIX #2 Species	Pot Size	Specification	Density	Percentage Contribution	Number	
Calamagrostis brachytricha	3L	Full Pot	9/m²	5%	12	
Echinacea purpurea 'White Swan'	3L	Full Pot	9/m²	10%	24	
Hebe 'Red Edge'	10L	Containerised	9/m²	5%	12	
Hebe albicans	10L	Containerised	9/m²	5%	12	
Helenium 'Sahin'	3L	Full Pot	9/m²	10%	24	
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	24	
Salvia nemorosa 'Ostfiesland'	3L	Full Pot	9/m²	10%	24	
Sesleria autumnalis Stachys byzantina 'Silver Carpet'	3L 3L	Full Pot Full Pot	9/m² 9/m²	15% 10%	35 24	
Stipa tenuissima	3L 3L	Full Pot	9/m²	15%	24 35	
Verbena bonanensis	3L	Full Pot	9/m²	5%	12	
					Total :238	

Species	Pot Size	Specification	Density	Percentage Contribution	Number
Bergenia 'Abendglocken'	3L	Full Pot	9/m²	15%	13
Euphorbia amygdaloides robbiae	3L	Full Pot	9/m²	10%	9
Geranium 'Rozanne'	3L	Full Pot	9/m²	10%	9
Hebe albicans	10L	Ball: Topiary	9/m²	5%	5
Hebe 'Red Edge'	10L	Ball: Topiary	9/m²	5%	5
Libertia grandiflora	5L	Full Pot	9/m²	5%	5
Miscanthus sinensis 'Kleine Fontane'	5L	Full Pot	9/m²	10%	9
Perovskia atriplicifolia 'Little Spire'	3L	Full Pot	9/m²	10%	9
Sedum spectabile 'Herbstfreude'	3L	Full Pot	9/m²	10%	9
Sesleria autumnalis	3L	Full Pot	9/m²	10%	9
Stachys byzantina 'Silver Carpet'	3L	Full Pot	9/m²	10%	9
					Total :91
PORUST DARTIAL SHADE MIY #3					7 5 13.1 10
ROBUST PARTIAL SHADE MIX #3 Species	Pot Size	Specification	Density	Percentage Contribution	
	Pot Size	Specification Full Pot	Density 9/m²	Percentage Contribution	
Species		<u> </u>			Number
Species Bergenia 'Mrs. Crawford'	3L	Full Pot	9/m²	15%	Number 14
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae	3L 3L	Full Pot Full Pot	9/m² 9/m²	15% 10%	Number 14 10
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae Geranium 'Rozanne'	3L 3L 3L	Full Pot Full Pot Full Pot	9/m² 9/m² 9/m²	15% 10% 10%	Number 14 10 10
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae Geranium 'Rozanne' Hebe albicans	3L 3L 3L 10L	Full Pot Full Pot Full Pot Ball: Topiary	9/m² 9/m² 9/m² 9/m²	15% 10% 10% 5%	Number 14 10 10 5
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae Geranium 'Rozanne' Hebe albicans Hebe 'Red Edge'	3L 3L 3L 10L 10L	Full Pot Full Pot Full Pot Ball: Topiary Ball: Topiary	9/m² 9/m² 9/m² 9/m² 9/m²	15% 10% 10% 5% 5%	Number 14 10 10 5 5
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae Geranium 'Rozanne' Hebe albicans Hebe 'Red Edge' Libertia grandiflora	3L 3L 3L 10L 10L 5L	Full Pot Full Pot Full Pot Ball: Topiary Ball: Topiary Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	15% 10% 10% 5% 5% 5%	Number 14 10 10 5 5 5
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae Geranium 'Rozanne' Hebe albicans Hebe 'Red Edge' Libertia grandiflora Miscanthus sinensis 'Kleine Fontane'	3L 3L 3L 10L 10L 5L 5L	Full Pot Full Pot Full Pot Ball: Topiary Ball: Topiary Full Pot Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	15% 10% 10% 5% 5% 5% 10%	Number 14 10 10 5 5 5
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae Geranium 'Rozanne' Hebe albicans Hebe 'Red Edge' Libertia grandiflora Miscanthus sinensis 'Kleine Fontane' Perovskia atriplicifolia 'Little Spire'	3L 3L 3L 10L 10L 5L 5L 3L	Full Pot Full Pot Full Pot Ball: Topiary Ball: Topiary Full Pot Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	15% 10% 10% 5% 5% 5% 10%	Number 14 10 10 5 5 5 10
Species Bergenia 'Mrs. Crawford' Euphorbia amygdaloides robbiae Geranium 'Rozanne' Hebe albicans Hebe 'Red Edge' Libertia grandiflora Miscanthus sinensis 'Kleine Fontane' Perovskia atriplicifolia 'Little Spire' Sedum spectabile 'Herbstfreude'	3L 3L 3L 10L 10L 5L 5L 3L 3L	Full Pot Full Pot Full Pot Ball: Topiary Ball: Topiary Full Pot Full Pot Full Pot Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	15% 10% 10% 5% 5% 5% 10% 10%	Number  14 10 10 5 5 10 10 10

# NOTES FOR MIX PLANTING:

10L & 5L Specimen Species are to be planted at random throughout the mix bed. The spacing between each specimen species should be consistent. This will create structure and rhythm in the planting beds. The 5L and 10L specimens should be set out first. 3L planting species are to be planted in groups of 3, 5 or 7 within the planting beds. Planting principles - larger species towards the back, smaller species towards the front.

NOTES FOR BULB PLANTING: Bulb species should be planted in conjunction with the planting mixes. The bulbs should be evenly distributed throughout the planting beds. Bulbs should not be planted underneath evergreen species where they will not be seen.

## GENERAL NOTES FOR SOFT LANDSCAPE

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All delivered stock is to be inspected by the landscape architect prior to any planting being

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

Tree Handling
It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees.

The landscape contractor must follow the industry guidance method for handling trees. Below are recommended industry standards.

Dormant trees sizes of 12-16cmg
These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting weight on the root hooks.

Dormant trees sizes of 18-20cmg - 25-30cmg These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when

# unloading. Dormant trees sizes of 45-50cmg

These can be lifted and unloaded using a 5 tonne sling in combination with a chain and root hooks ensuring the root hooks are hammered firmly into the rootball. Different lengths of chains can be used, however bare in mind that the longer the chain the more vertical the tree will be that will provide greater pressure on the bark. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading. Dormant trees sizes of 50-60cmg

These can be lifted and unloaded using an 8 tonne sling in combination with a hoisting strap that will pull less pressure on the trunk. The tree will also hang more vertically that makes unloading the tree directly into the planting hole easier. Note: If the trees are to be laid flat until planted it is better to use chains for unloading. Using the correct chain length will ensure the tree is moved horizontally. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading.

It is recommended that the landscape contractor seek specialist advice when dealing with extremely large trees. Extra large trees can be lifted with a Newman frame. During the harvesting process the frame is fitted to the trees and goes with the tree to it's final location. Only when the tree has been planted is the frame removed.

Tree Planting
The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be

Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape archit prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when

planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil. All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will oxidize and also disappear in the soil eventually.

manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting. Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees

Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterraneal cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and

Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989' Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking.

Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain. All topsoil is to conform to BS 3882:2015 'Multipurpose' or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitax Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The second application to be made 10-16 weeks after planting depending on soil type and weather conditions.

Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NJUG specification and requirements are to be referred too.

### Guidance for Tree Pit Sizes within Soft Landscape Areas Final tree pit size will vary dependent on size of rootball, tree stock and soil type. Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

>25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the posts with galvanised nails.

Tree pit size guidelines:		
Tree size	Rootball Size	Tree pit size (length, width, de
14-16 cmg	50x50cm	80x80x65cm
18-20 cmg	60x60cm	80x80x75cm
20-25 cmg	70x60cm	90x90x75cm
30-35 cmg	90x60cm	110x110x75cm

# **Biodiverse Roof Specification**

The Bauder WB Native Wildflower Blanket shall be used on all the biodiverse roof locations across all of the rooftop terraces. The Bauder WB Native Wildflower Blanket is a British growth vegetation Blanket designed for use on green roofs. Containing a broad mix of UK native wildflower species. Suitable to be laid on Bauder (FLL Compliant) Biodiverse substrate.Bauder WB Native Wildflower Blanket contains a broad mix of British Wildflowers grown in substrate on a coir carrier. The natural fibres of the coir carrier promote the rapid rooting of the blanket into the substrate. The product is installed over Bauder, FLL Compliant Biodiverse Substrate. The vegetation is a mix of hardy Wildflowers, annuals and herbs. The vegetation is cut back in the summer prior to delivery to reduce plant stress.

Common Name

Quaking-grass Barley; Meadow

Slender Creeping Red Fescue

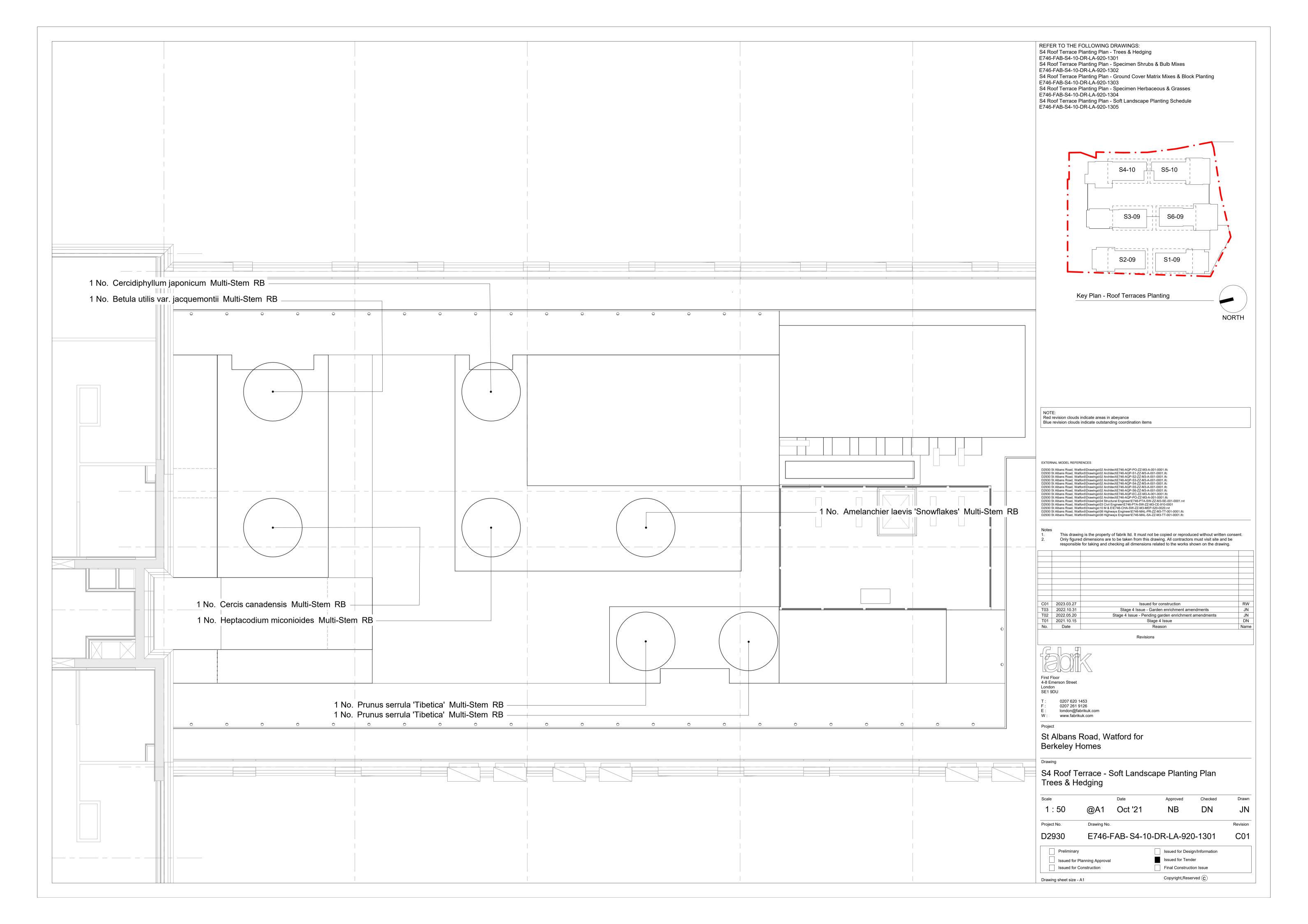
# A list of the species which make up the Bauder WB Native Wildflower Blanket are detailed below:

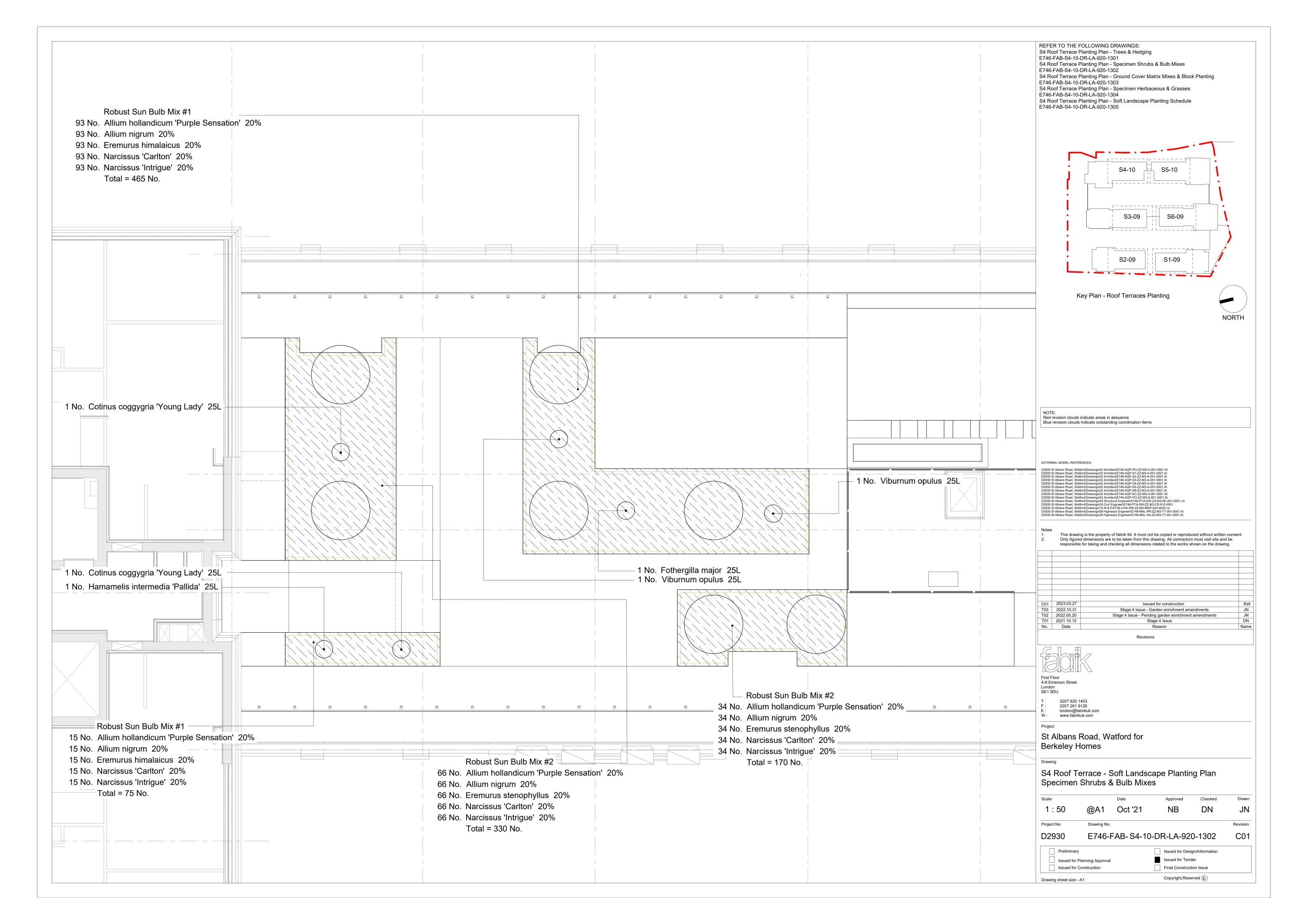
Species Achillea millefolium Agrimonia eupatoria Aquileja vulgaris Bellis perennis	Common Name Yarrow Agrimony Columbine Daisy	Grass Species (<10%) Festuca ovina Festuca rubra Briza media Hordeum brachyantherum
Campanula glomerata Campanula rotundifolia Centaurea cyanus Centaurea nigra Chicorium intybus Clinipodiem vulgare Daucus carota Dianthus deltoides	Bellflower; Clustered Harebell Cornflower Knapweed; Common Chicory Basii; Wild Carrot; Wild Pink; Maiden	
Dipsacus fullonum Echium vulgare Feoniculum vulgare Geranium pratense Lotus corniculatus Lythrum salicaria Malva moscahta Origanum vulgare Papaver rhoes	Teasel Viper's-bugloss Fennel Crane's-bill; Meadow Bird's-foot-trefoil; Common Purple; Loosestrife Mallow; Musk Marjoram; Wild Poppy; Field or Common	
Pilosella aurantiaca Plantago media Primula veris Primula vulgaris Ranunculus acris Rumex acetosa Salvia verbenaca	Fox-and-cubs Hoary plantain Cowslip Primrose Buttercup; Meadow Sorrel; Common Clary; Wild	
Scabiosa columbaria Scorzoneroides autumnalis Silene dioica Silene flos-cucculi Silene uniflora Sucissa pratensis Tanacetum vulgare Thymus polytrichus Trifolium pratense Viola riviniana Viola tricolor	Scabious; Small Hawkbit; Autumn Campion; Red Ragged-Robin Campion; White Devil's-bit scabious Tansy Thyme; Wild Clover; Red Common dog violet Pansy; Wild or Heartsease	

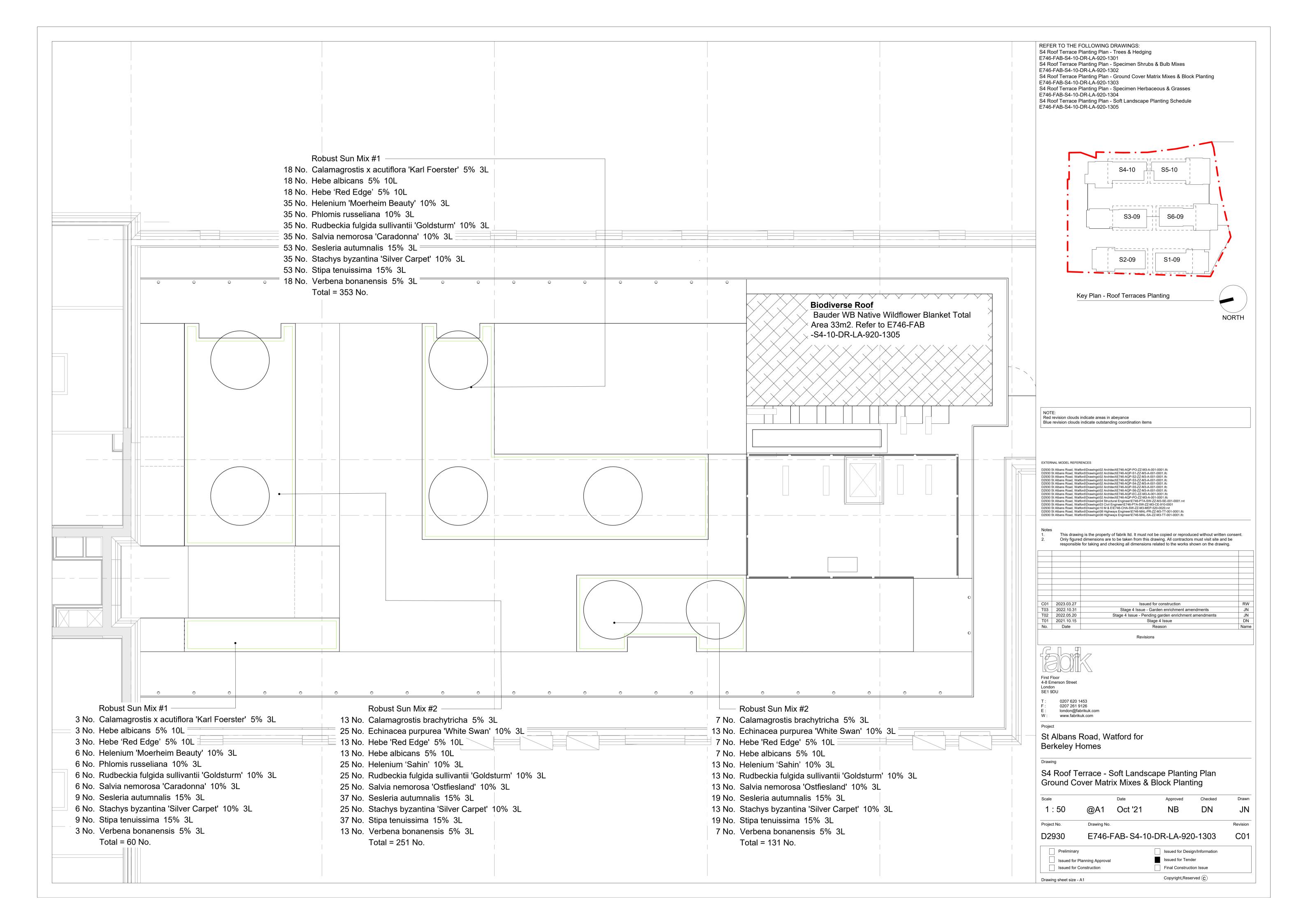
REFER TO THE FOLLOWING DRAWINGS: S3 Roof Terrace Planting Plan - Trees & Hedging E746-FAB-S3-09-DR-LA-920-1301 S3 Roof Terrace Planting Plan - Specimen Shrubs & Bulb Mixes E746-FAB-S3-09-DR-LA-920-1302 S3 Roof Terrace Planting Plan - Ground Cover Matrix Mixes & Block Planting E746-FAB-S3-09-DR-LA-920-1303 S3 Roof Terrace Planting Plan - Specimen Herbaceous & Grasses E746-FAB-S3-09-DR-LA-920-1304 S3 Roof Terrace Planting Plan - Soft Landscape Planting Schedule E746-FAB-S3-09-DR-LA-920-1305 S5-10 r - - - - - - - - - - - - - - - - - -S6-09 S3-09 =<u>----</u>, , -----<del>-,</del> Key Plan - Roof Terraces Planting NORTH Red revision clouds indicate areas in abeyance Blue revision clouds indicate outstanding coordination items D2930 St Albans Road, Watford\Drawings\02 Architect\E746-AQP-PO-ZZ-M3-A-001-0001.ifc D2930 St Albans Road, Watford\Drawings\D2 Architect\E746-AQP-S1-ZZ-M3-A-001-0001.ifc
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D2930 St Albans Road, Watford\Drawings\D2 Architect\E746-AQP-S2-ZZ-M3-A-001-0001.ifc
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D2930 St Albans Road, Watford\Drawings\D2 Architect\E746-AQP-S3-ZZ-M3-A-001-0001.ifc
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D2930 St Albans Road, Watford\Drawings\03 Civil Engineer\E746-PTA-SW-ZZ-M3-CE-910-0001
D2930 St Albans Road, Watford\Drawings\03 Civil Engineer\E746-PTA-SW-ZZ-M3-CE-910-0001
D2930 St Albans Road, Watford\Drawings\03 Mathematics Engineer\E746-MAL-PR-2Z-M3-TT-001-0001.ifc
D2930 St Albans Road, Watford\Drawings\08 Highways Engineer\E746-MAL-SA-ZZ-M3-TT-001-0001.ifc This drawing is the property of fabrik ltd. It must not be copied or reproduced without written consent. Only figured dimensions are to be taken from this drawing. All contractors must visit site and be responsible for taking and checking all dimensions related to the works shown on the drawing. C01 2023.03.27 ssued for construction T03 2022.10.31 Stage 4 Issue - Garden enrichment amendments T02 2022.05.20 Stage 4 Issue - Pending garden enrichment amendments T01 2021.10.15 Stage 4 Issue Revisions First Floor 4-8 Emerson Street SE1 9DU 0207 620 1453 0207 261 9126 london@fabrikuk.com www.fabrikuk.com St Albans Road, Watford for Berkeley Homes S3 Roof Terrace -Soft Landscape Planting Schedule Drawn Approved Checked @A1 Oct '21 NB DN E746-FAB-S3-09-DR-LA-920-1305 D2930 Preliminary Issued for Design/Information Issued for Tender Issued for Planning Approval Issued for Construction Final Construction Issue

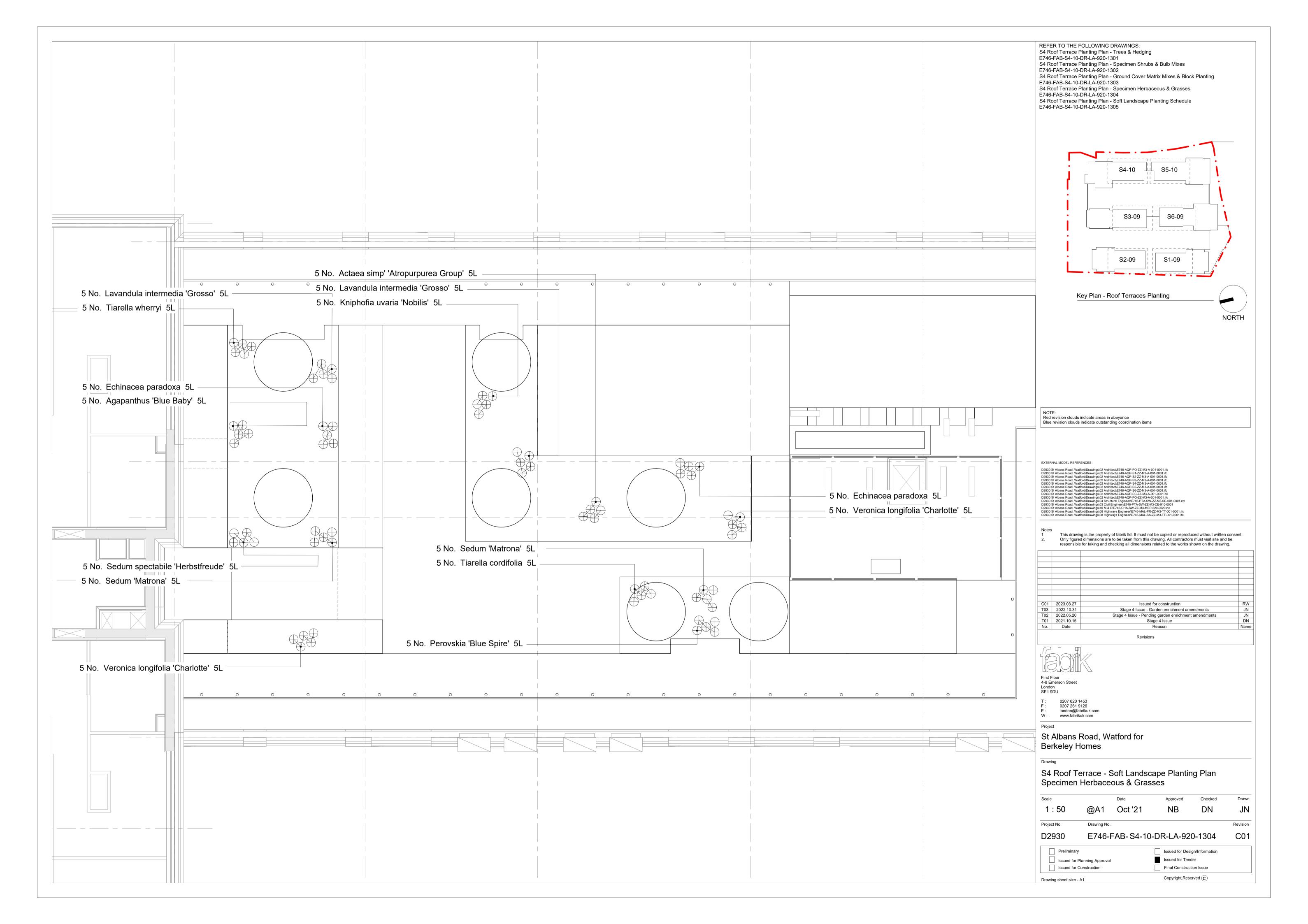
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# **S4 Roof Terrace - Planting Schedule**

PROPOSED TREES						
Species	Girth	Height	Specification			Qty.
Amelanchier laevis 'Snowflakes'	Multi-Stem	3.0-3.5m	•	s :Clear Stem 150-175cm :3/5 b	orks :5x :RB	1
Betula utilis var. jacquemontii	Multi-Stem	4.5-5.5m	Multi Stem :3 Stem	s :Clear Stem 150-175cm :3/5 b	orks :5x :RB	1
Cercidiphyllum japonicum	Multi-Stem	3.0-3.5m	Multi Stem :3 Stem	s :Clear Stem 150-175cm :3/5 b	orks :5x :RB	1
Cercis canadensis	Multi-Stem	4.5-5.5m		s :Clear Stem 150-175cm :3/5 b		1
Heptacodium miconioides	Multi-Stem	3.0-3.5m		s :Clear Stem 150-175cm :3/5 b		1
Prunus serrula 'Tibetica'	Multi-Stem	4.5-5.5m		s :Clear Stem 150-175cm :3/5 b		2
NOTE: Rootball sizes to be confirmed by the selecte			Maia Stem to Stem	5 . Glodi Glom 100 17 Gom 1070 B		Total :7
PROPOSED SPECIMENS						
Species	Condition	Height	Density	Specification		Qty.
Actaea simp' 'Atropurpurea Group'	5L	40-60cm	Counted	Full Pot		5
Agapanthus 'Blue Baby'	5L	40-60cm	Counted	Full Pot		5
Cotinus coggygria 'Young Lady'	25L	60-80cm	Counted	Bushy :4/6 brks :Con	tainerised	2
Echinacea paradoxa	5L	40-60cm	Counted	Full Pot		10
- Fothergilla major	25L	100-125cm	Counted	Bushy :4/6 brks :Con	tainerised	1
Hamamelis intermedia 'Pallida'	25L	100-125cm	Counted	Bushy :4/6 brks :Con		1
Kniphofia uvaria 'Nobilis'	5L	40-60cm	Counted	Full Pot		5
∟avandula intermedia 'Grosso'	5L	40-60cm	Counted	Containerised		10
Perovskia 'Blue Spire'	5L	40-60cm	Counted	Full Pot		5
Sedum 'Matrona'	5L	40-60cm	Counted	Full Pot		10
Sedum spectabile 'Herbstfreude'	5L	40-60cm	Counted	Full Pot		5
Tiarella cordifolia	5L	40-60cm	Counted	Full Pot		5
Tiarella cordinolla Tiarella wherryi	5L	40-60cm	Counted	Full Pot		5
Veronica longifolia 'Charlotte'	5L	40-60cm	Counted	Full Pot		10
Viburnum opulus	25L	100-125cm	Counted	Bushy :4/6 brks :Con	tainerised	2
νισαιτιατή οραίαδ	ZUL	100-1256111	Counted	Dustry .4/0 DIRS .CON	tallio1136U	∠ Total :81
ROBUST SUN BULB MIX #1						
Species	Bulb Size	Specification	Density	Percentage Contribution	Number	
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	108	
Allium nigrum	10/12	Grade 10/+	12/m²	20%	108	
Eremurus himalaicus	13/15	Grade 10/+	12/m²	20%	108	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	108	
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	108	
guv	- <del></del>			<del></del>	Total :540	
ROBUST SUN BULB MIX #2						
Species	Bulb Size	Specification	Density	Percentage Contribution	Number	
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	100	_
Allium nigrum	10/12	Grade 10/+	12/m²	20%	100	
Eremurus stenophyllus	10/12	Grade 10/+	12/m²	20%	100	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	100	
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	100 Total :500	
					Total :500	
ROBUST SUN MIX #1	Pot Size	Specification	Density	Percentage Contribution	Number	
Species Calamagrostis x acutiflora 'Karl Foerster'		Specification Full Pot	Density 9/m²	Percentage Contribution 5%	Number 21	
Jalamagrostis x acutillora. Kan Foerster Hebe albicans		Containerised	9/m²	5% 5%	21	
	10L					
Hebe 'Red Edge'	10L	Containerised	9/m²	5% 10%	21	
Helenium 'Moerheim Beauty'	3L	Full Pot	9/m²	10%	41	
Phlomis russeliana	3L	Full Pot	9/m²	10%	41	
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	41	
Salvia nemorosa 'Caradonna'	3L	Full Pot	9/m²	10%	41	
Sesleria autumnalis	3L	Full Pot	9/m²	15%	62	
Stachys byzantina 'Silver Carpet'	3L	Full Pot	9/m²	10%	41	
Stipa tenuissima	3L	Full Pot	9/m²	15%	62	
Verbena bonanensis	3L	Full Pot	9/m²	5%	21 Total :413	
					701011710	
ROBUST SUN MIX #2 Species	Pot Size	Specification	Density	Percentage Contribution	Number	
Calamagrostis brachytricha	3L	Full Pot	9/m²	5%	20	
Echinacea purpurea 'White Swan'	3L	Full Pot	9/m²	10%	38	
Hebe 'Red Edge'	10L	Containerised	9/m²	5%	20	
Hebe Red Edge Hebe albicans	10L 10L	Containerised	9/m²	5% 5%	20	
Helenium 'Sahin'	3L	Full Pot	9/m²	10%	38	
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	38	
Salvia nemorosa 'Ostfiesland'	3L	Full Pot	9/m <sup>2</sup>	10%	38	
Salvia nemorosa Ostilesiand Sesleria autumnalis	3L	Full Pot	9/m <sup>2</sup>	15%	56	
Sesiena autumnalis Stachys byzantina 'Silver Carpet'	3L	Full Pot	9/m²	10%	38	
	3L	Full Pot Full Pot	9/m <sup>2</sup>	15%	38 56	
Stipa tenuissima Verbena bonanensis		Full Pot				
Verbena bonanensis	3L	ruii rul	9/m²	5%	20 Total :382	

NOTES FOR MIX PLANTING:

10L & 5L Specimen Species are to be planted at random throughout the mix bed. The spacing between each specimen species should be consistent. This will create structure and rhythm in the planting beds.

Total:382

The 5L and 10L specimens should be set out first. 3L planting species are to be planted in groups of 3, 5 or 7 within the planting beds.

Planting principles - larger species towards the back, smaller species towards the front.

NOTES FOR BULB PLANTING:

Bulb species should be planted in conjunction with the planting mixes. The bulbs should be evenly distributed throughout the planting beds. Bulbs should not be planted underneath evergreen species where they will not be seen.

## GENERAL NOTES FOR SOFT LANDSCAPE

### **Nursery Stock and Selection**

Dormant trees sizes of 45-50cmg

loosened with hand held tools

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All delivered stock is to be inspected by the landscape architect prior to any planting being

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees. The landscape contractor must follow the industry guidance method for handling trees. Below are recommended industry standards.

These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting

weight on the root hooks. Dormant trees sizes of 18-20cmg - 25-30cmg These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when

These can be lifted and unloaded using a 5 tonne sling in combination with a chain and root hooks ensuring the root hooks are hammered firmly into the rootball. Different lengths of chains can be used, however bare in mind that the longer the chain the more vertical the tree will be that will provide greater pressure on the bark. Even when the tree is dormant it is recommended to wrap the stem in hessian for

Dormant trees sizes of 50-60cmg These can be lifted and unloaded using an 8 tonne sling in combination with a hoisting strap that will pull less pressure on the trunk. The tree will also hang more vertically that makes unloading the tree directly into the planting hole easier. Note: If the trees are to be laid flat until planted it is better to use chains for unloading. Using the correct chain length will ensure the tree is moved horizontally. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading.

Dormant trees sizes 70cmg and above It is recommended that the landscape contractor seek specialist advice when dealing with extremely large trees. Extra large trees can be lifted with a Newman frame. During the harvesting process the frame

is fitted to the trees and goes with the tree to it's final location. Only when the tree has been planted is the frame removed.

The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be

Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil. All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterraneal cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and

manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting. Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees

>25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the posts with galvanised nails. Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989' Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root

ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking. Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain. All topsoil is to conform to BS 3882:2015 'Multipurpose' or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitax Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The

second application to be made 10-16 weeks after planting depending on soil type and weather conditions. Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NJUG specification and requirements are to be referred too.

### Guidance for Tree Pit Sizes within Soft Landscape Areas Final tree pit size will vary dependent on size of rootball, tree stock and soil type.

Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidelines: Rootball Size Tree pit size (length, width, depth) Tree size 14-16 cmg 50x50cm 80x80x65cm 18-20 cmg 80x80x75cm 20-25 cmg 30-35 cmg 90x60cm 110x110x75cm

# Biodiverse Roof Specification

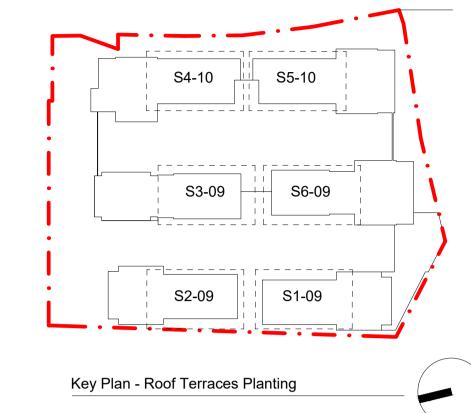
The Bauder WB Native Wildflower Blanket shall be used on all the biodiverse roof locations across all of the rooftop terraces. The Bauder WB Native Wildflower Blanket is a British growth vegetation Blanket designed for use on green roofs. Containing a broad mix of UK native wildflower species. Suitable to be laid on Bauder (FLL Compliant) Biodiverse substrate Bauder WB Native Wildflower Blanket contains a broad mix of British Wildflowers grown in substrate on a coir carrier. The natural fibres of the coir carrier promote the rapid rooting of the blanket into the substrate. The product is installed over Bauder, FLL Compliant Biodiverse Substrate. The vegetation is a mix of hardy Wildflowers, annuals and herbs. The vegetation is cut back in the summer prior to delivery to reduce plant stress.

A list of the species which make up the Bauder WB Native Wildflower Blanket are detailed below:

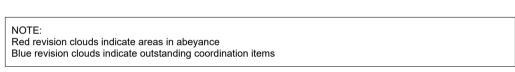
Achillea millefolium Agrimonia eupatoria Agrimony Daisy Bellflower; Clustered Bellis perennis Campanula glomerata Campanula rotundifolia Centaurea cyanus Cornflower Centaurea nigra Knapweed; Common Chicorium intybus Clinipodiem vulgare Daucus carota Carrot: Wild Dianthus deltoides Pink; Maiden Dipsacus fullonum Echium vulgare Viper's-bugloss Feoniculum vulgare Crane's-bill; Meadow Geranium pratense Lotus corniculatus Bird's-foot-trefoil; Common Lvthrum salicaria Purple: Loosestrife Malva moscahta Mallow; Musk Marjoram; Wild Papaver rhoes Poppy; Field or Common Pilosella aurantiaca Fox-and-cubs Hoary plantain Plantago media Primula veris Cowslip Primula vulgaris Primrose Ranunculus acris Buttercup; Meadow Rumex acetosa Sorrel; Common Salvia verbenaca Clary: Wild Scabious; Small Scabiosa columbaria Hawkbit; Autumn Silene dioica Campion: Red Ragged-Robin Silene flos-cucculi Sucissa pratensis Devil's-bit scabious Tanacetum vulgare Thyme; Wild Thymus polytrichus Trifolium pratense Clover; Red Viola riviniana Common dog violet Viola tricolor Pansy; Wild or Heartsease Grass Species (<10%) Common Name Festuca ovina Sheepsfescue Festuca rubra Slender Creeping Red Fescue Briza media Quaking-grass Barley; Meadow Hordeum brachyantherum

REFER TO THE FOLLOWING DRAWINGS: S4 Roof Terrace Planting Plan - Trees & Hedging E746-FAB-S4-10-DR-LA-920-1301 S4 Roof Terrace Planting Plan - Specimen Shrubs & Bulb Mixes E746-FAB-S4-10-DR-LA-920-1302 S4 Roof Terrace Planting Plan - Ground Cover Matrix Mixes & Block Planting E746-FAB-S4-10-DR-LA-920-1303 S4 Roof Terrace Planting Plan - Specimen Herbaceous & Grasses E746-FAB-S4-10-DR-LA-920-1304 S4 Roof Terrace Planting Plan - Soft Landscape Planting Schedule

E746-FAB-S4-10-DR-LA-920-1305

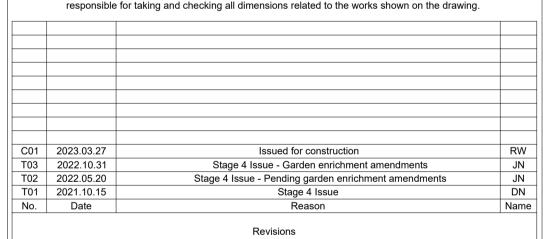


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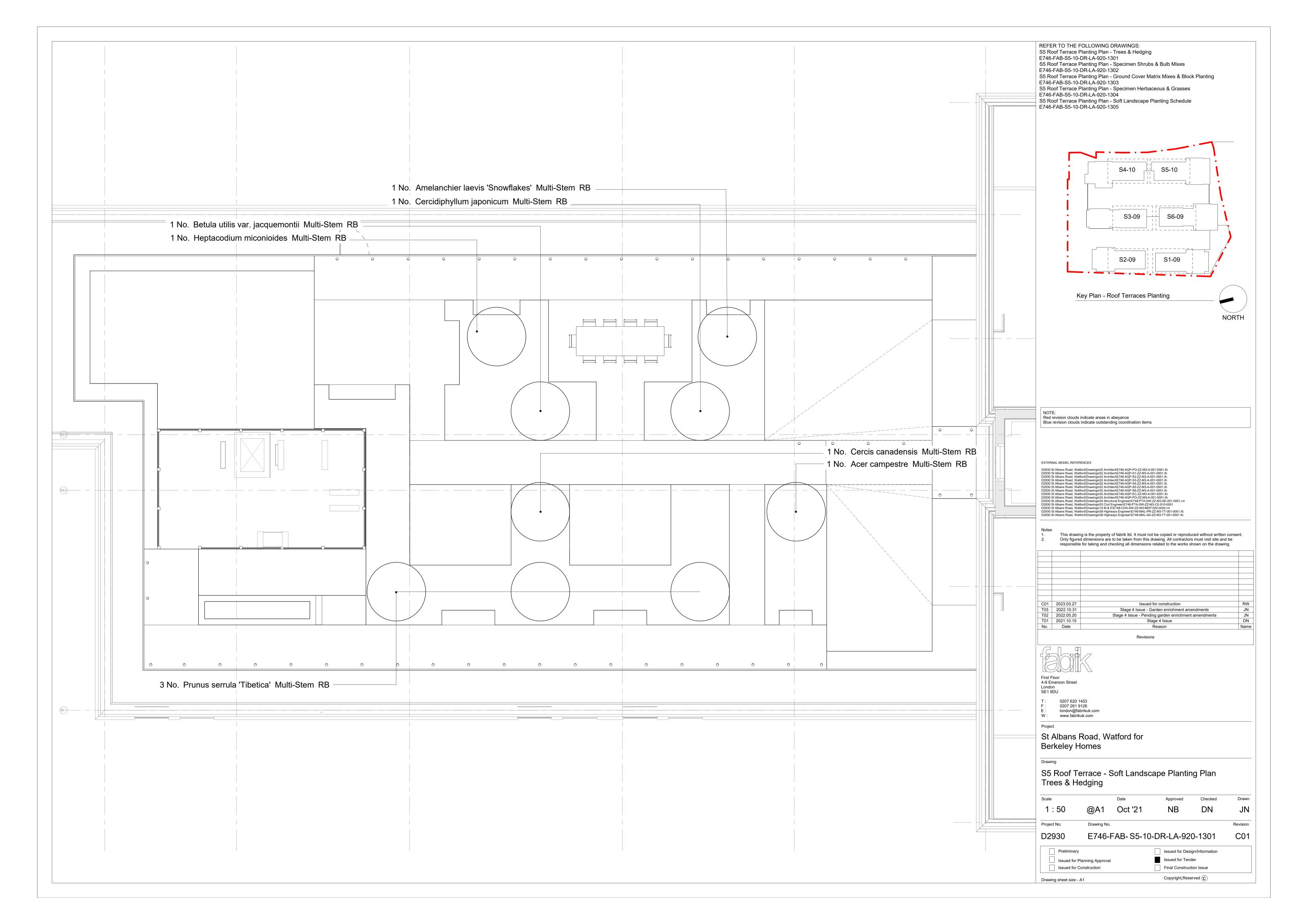
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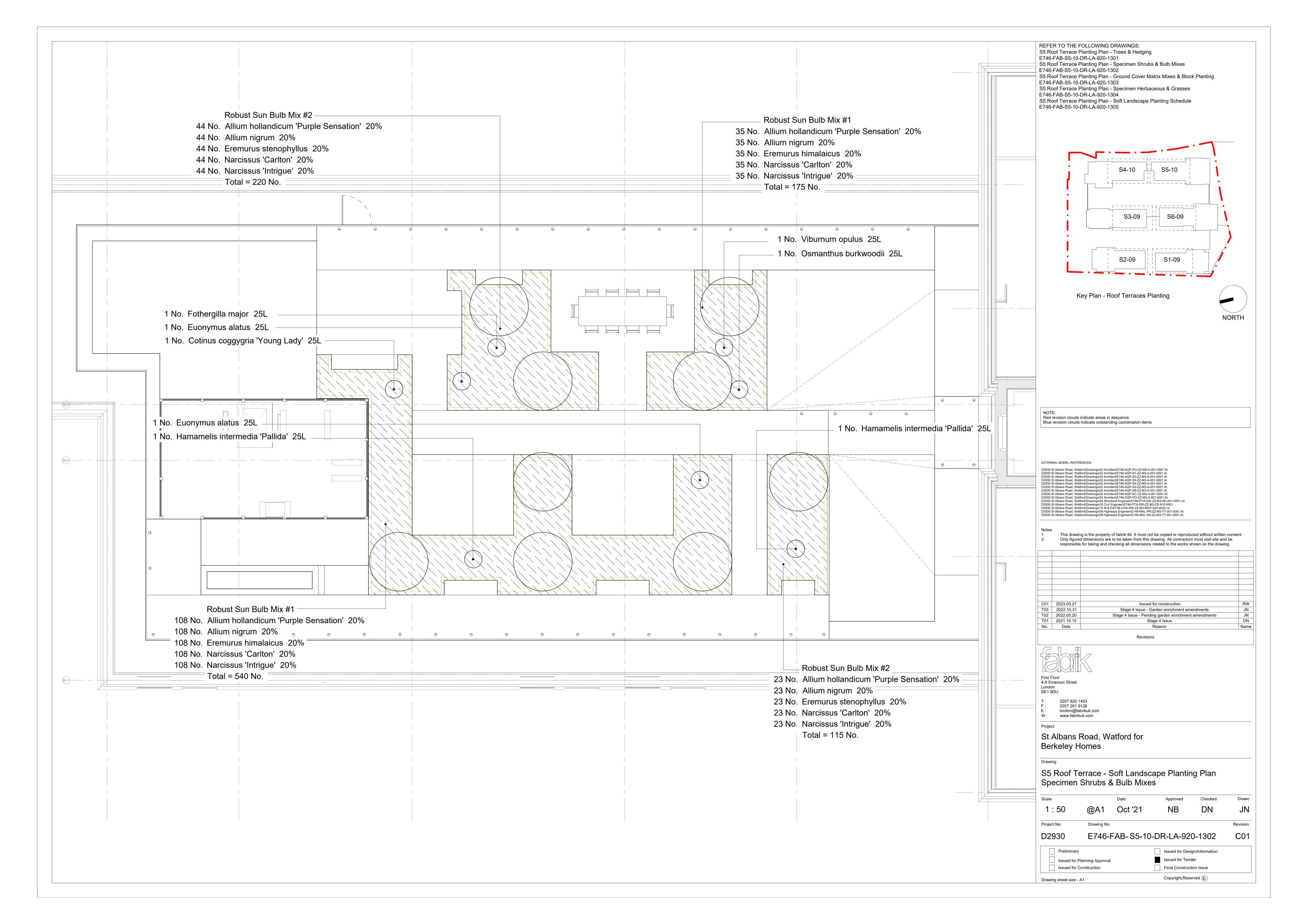
0207 261 9126 london@fabrikuk.com www.fabrikuk.com

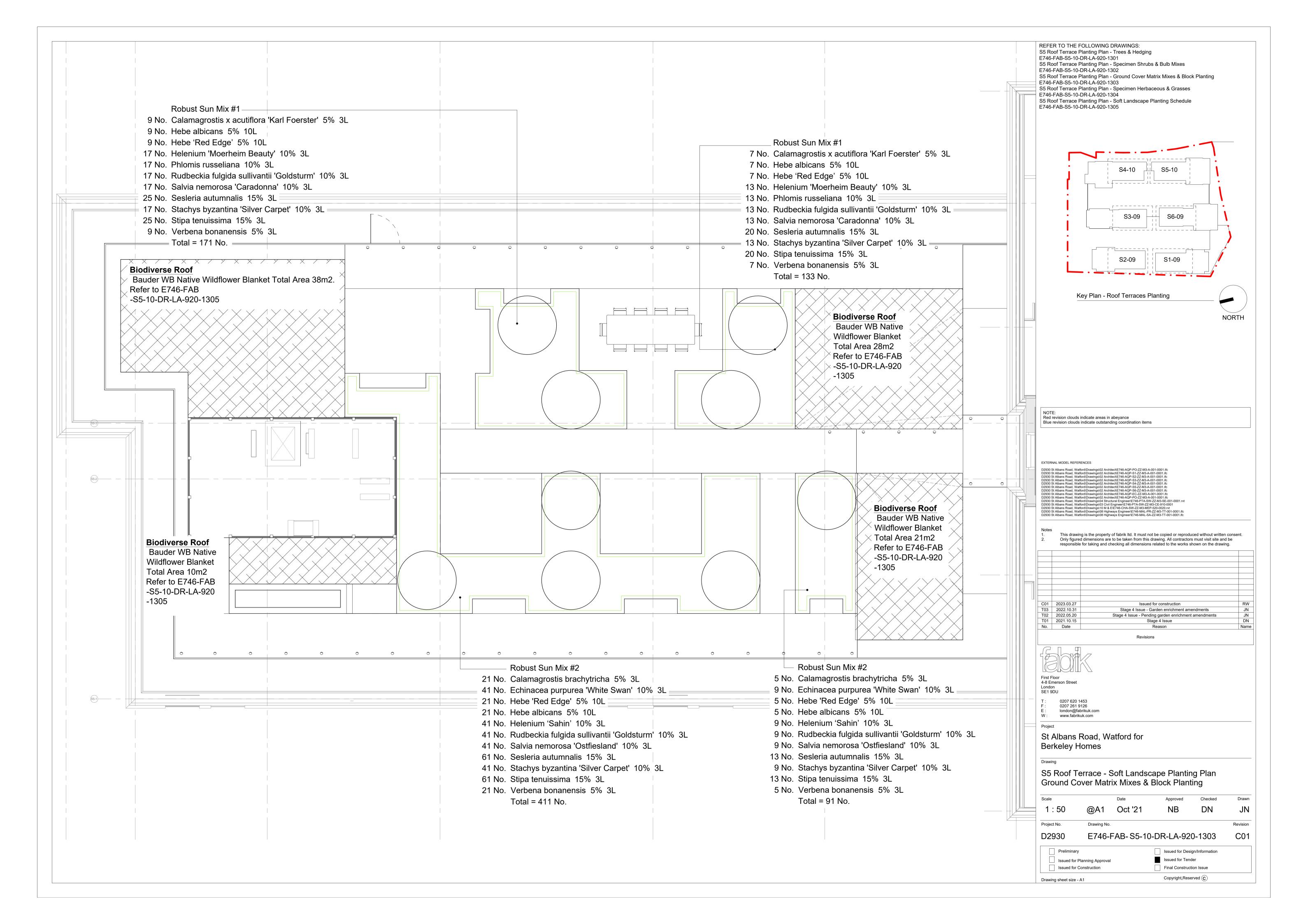
S4 Roof Terrace -Soft Landscape Planting Schedule

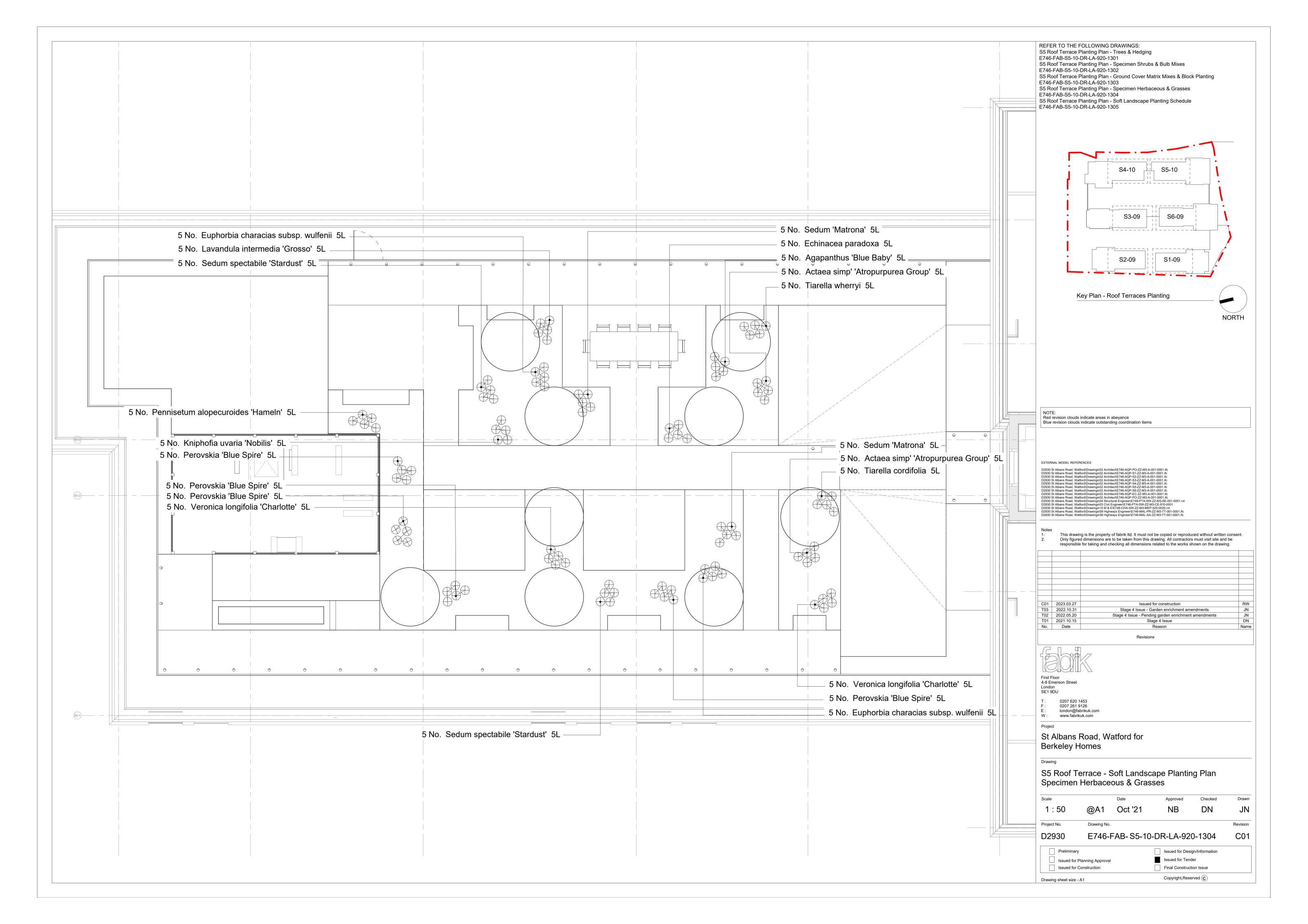
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# S5 Roof Terrace - Planting Schedule

Species	Girth	Height	Specification			Qty.
Acer campestre	Multi-Stem	4.0-5.0m		s :Clear Stem 150-175cm :3/5 b		1
Amelanchier laevis 'Snowflakes'	Multi-Stem	4.5-5.5m		s :Clear Stem 150-175cm :3/5 b		1
Betula utilis var. jacquemontii	Multi-Stem	3.0-3.5m	Multi Stem :3 Stems	s :Clear Stem 150-175cm :3/5 b	rks :5x :RB	1
Cercidiphyllum japonicum	Multi-Stem	3.0-3.5m	Multi Stem :3 Stems	s :Clear Stem 150-175cm :3/5 b	rks :5x :RB	1
Cercis canadensis	Multi-Stem	3.0-3.5m	Multi Stem :3 Stems	s :Clear Stem 150-175cm :3/5 b	rks :5x :RB	1
Heptacodium miconioides	Multi-Stem	4.5-5.5m	Multi Stem :3 Stems	s :Clear Stem 150-175cm :3/5 b	rks :5x :RB	1
Prunus serrula 'Tibetica'	Multi-Stem	4.0-5.0m	Multi Stem :3 Stems	s :Clear Stem 150-175cm :3/5 b	rks :5x :RB	3
NOTE: Rootball sizes to be confirmed by the selecte	d tree nurseries prior to tag	ging.				Total :9
PROPOSED SPECIMENS						
Species	Condition	Height	Density	Specification		Qty.
Actaea simp' 'Atropurpurea Group'	5L	40-60cm	Counted	Full Pot		10
Agapanthus 'Blue Baby'	5L	40-60cm	Counted	Full Pot		5
Cotinus coggygria 'Young Lady'	25L	60-80cm	Counted	Bushy :4/6 brks :Con	ainerised	1
Echinacea paradoxa	5L	40-60cm	Counted	Full Pot		5
Euonymus alatus	25L	100-125cm	Counted	Bushy :4/6 brks :Conf	ainerised	2
Euphorbia characias subsp. wulfenii	5L	40-60cm	Counted	Containerised	amonod	10
Fothergilla major	25L	100-125cm	Counted	Bushy :4/6 brks :Con	ainerised	10
Hamamelis intermedia 'Pallida'	25L	100-125cm	Counted	Bushy :4/6 brks :Conf		2
		40-60cm		Full Pot	anienseu	5
Kniphofia uvaria 'Nobilis'	5L		Counted		rainerised	5 E
_avandula intermedia 'Grosso'	5L	40-60cm	Counted	Bushy :3/5 brks :Conf		5
Osmanthus burkwoodii	25L	100-125cm	Counted	Bushy :4/6 brks :Conf	amensed	T -
Pennisetum alopecuroides 'Hameln'	5L	50-100cm	Counted	Full Pot		5
Perovskia 'Blue Spire'	5L	40-60cm	Counted	Full Pot		20
Sedum 'Matrona'	5L	40-60cm	Counted	Full Pot		10
Sedum spectabile 'Stardust'	5L	40-60cm	Counted	Full Pot		10
Tiarella cordifolia	5L	40-60cm	Counted	Full Pot		5
Tiarella wherryi	5L	40-60cm	Counted	Full Pot		5
Veronica longifolia 'Charlotte'	5L	40-60cm	Counted	Full Pot		10
Viburnum opulus	25L	100-125cm	Counted	Bushy :4/6 brks :Conf	ainerised	1
						Total :113
ROBUST SUN BULB MIX #1						
Species	Bulb Size	Specification	Density	Percentage Contribution	Number	
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	143	
Allium nigrum	10/12	Grade 10/+	12/m²	20%	143	
Eremurus himalaicus	13/15	Grade 10/+	12/m²	20%	143	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	143	
Narcissus Caritori Narcissus 'Intrigue'	10/12	Grade 10/+ Grade 10/+	12/m²	20%	143	
varoissus ilitilyut	10/12	Grade 10/T	14/111	ZU /0	143 Total :715	
					10tal ./ 10	
ROBUST SUN BULB MIX #2						
Species IP I I I I I I I I I I I I I I I I I I	Bulb Size	Specification	Density	Percentage Contribution	Number	
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	67	
Allium nigrum	10/12	Grade 10/+	12/m²	20%	67	
Eremurus stenophyllus	10/12	Grade 10/+	12/m²	20%	67	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	67	
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	67	
					Total :335	
ROBUST SUN MIX #1						
Species				D		
<u> </u>	Pot Size	Specification	Density	Percentage Contribution	Number	
_	3L	Full Pot	9/m²	5%	16	_
_	3L 10L	_ '	9/m² 9/m²	5% 5%	16 16	_
Hebe albicans	3L	Full Pot	9/m²	5%	16	_
Hebe albicans Hebe 'Red Edge'	3L 10L	Full Pot Containerised	9/m² 9/m²	5% 5%	16 16	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty'	3L 10L 10L	Full Pot Containerised Containerised	9/m² 9/m² 9/m²	5% 5% 5%	16 16 16	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana	3L 10L 10L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m²	5% 5% 5% 10%	16 16 16 30	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm'	3L 10L 10L 3L 3L 3L	Full Pot Containerised Containerised Full Pot Full Pot	9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup>	5% 5% 5% 10% 10%	16 16 16 30 30 30	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna'	3L 10L 10L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot Full Pot Full Pot Full Pot Full Pot	9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup>	5% 5% 5% 10% 10% 10%	16 16 16 30 30 30 30	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis	3L 10L 10L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup> 9/m <sup>2</sup>	5% 5% 5% 10% 10% 10% 10%	16 16 16 30 30 30 30 30	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet'	3L 10L 10L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 5% 10% 10% 10% 15%	16 16 16 30 30 30 30 45 30	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet'	3L 10L 10L 3L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 5% 10% 10% 10% 10% 15%	16 16 16 30 30 30 30 45 30	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet'	3L 10L 10L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 5% 10% 10% 10% 15%	16 16 16 30 30 30 30 45 30	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet' Stipa tenuissima Verbena bonanensis	3L 10L 10L 3L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 5% 10% 10% 10% 10% 15%	16 16 16 30 30 30 30 45 30 45	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet' Stipa tenuissima Verbena bonanensis	3L 10L 10L 3L 3L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 10% 10% 10% 10% 10% 15% 5%	16 16 16 30 30 30 30 45 30 45 16 Total :304	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet' Stipa tenuissima Verbena bonanensis  ROBUST SUN MIX #2 Species	3L 10L 10L 3L 3L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 10% 10% 10% 10% 15% 5% Percentage Contribution	16 16 16 30 30 30 30 45 30 45 16 Total :304	
Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet' Stipa tenuissima Verbena bonanensis  ROBUST SUN MIX #2 Species Calamagrostis brachytricha	3L 10L 10L 3L 3L 3L 3L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 10% 10% 10% 10% 15% 5%  Percentage Contribution 5%	16 16 16 30 30 30 30 45 30 45 16 Total :304	
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Calamagrostis x acutiflora 'Karl Foerster' Hebe albicans Hebe 'Red Edge' Helenium 'Moerheim Beauty' Phlomis russeliana Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Caradonna' Sesleria autumnalis Stachys byzantina 'Silver Carpet' Stipa tenuissima Verbena bonanensis  ROBUST SUN MIX #2 Species Calamagrostis brachytricha Echinacea purpurea 'White Swan' Hebe 'Red Edge' Hebe albicans Helenium 'Sahin' Rudbeckia fulgida sullivantii 'Goldsturm' Salvia nemorosa 'Ostfiesland' Sesleria autumnalis Stachys byzantina 'Silver Carpet' Stipa tenuissima Verbena bonanensis	3L 10L 10L 3L 3L 3L 3L 3L 3L 3L 3L 3L 3L 3L 3L 3L	Full Pot Containerised Containerised Full Pot Containerised Containerised Full Pot Full Pot Full Pot Full Pot Full Pot Containerised Full Pot	9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m² 9/m²	5% 5% 10% 10% 10% 10% 15% 5%  Percentage Contribution 5% 10% 5% 5% 10% 10% 10% 10% 10% 10%	16 16 16 30 30 30 30 45 30 45 16 Total :304   Number 26 50 26 26 50 50 50 74 50	

# NOTES FOR MIX PLANTING:

10L & 5L Specimen Species are to be planted at random throughout the mix bed. The spacing between each specimen species should be consistent.

This will create structure and rhythm in the planting beds. The 5L and 10L specimens should be set out first. 3L planting species are to be planted in groups of 3, 5 or 7 within the planting beds. Planting principles - larger species towards the back, smaller species towards the front.

NOTES FOR BULB PLANTING:

Bulb species should be planted in conjunction with the planting mixes. The bulbs should be evenly distributed throughout the planting beds. Bulbs should not be planted underneath evergreen species where they will not be seen.

## GENERAL NOTES FOR SOFT LANDSCAPE

### **Nursery Stock and Selection**

loosened with hand held tools

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All delivered stock is to be inspected by the landscape architect prior to any planting being

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees. The landscape contractor must follow the industry guidance method for handling trees. Below are recommended industry standards.

These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting

weight on the root hooks. Dormant trees sizes of 18-20cmg - 25-30cmg These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when

Dormant trees sizes of 45-50cmg These can be lifted and unloaded using a 5 tonne sling in combination with a chain and root hooks ensuring the root hooks are hammered firmly into the rootball. Different lengths of chains can be used, however bare in mind that the longer the chain the more vertical the tree will be that will provide greater pressure on the bark. Even when the tree is dormant it is recommended to wrap the stem in hessian for

These can be lifted and unloaded using an 8 tonne sling in combination with a hoisting strap that will pull less pressure on the trunk. The tree will also hang more vertically that makes unloading the tree directly into the planting hole easier. Note: If the trees are to be laid flat until planted it is better to use chains for unloading. Using the correct chain length will ensure the tree is moved horizontally. Even when

the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading. Dormant trees sizes 70cmg and above

It is recommended that the landscape contractor seek specialist advice when dealing with extremely large trees. Extra large trees can be lifted with a Newman frame. During the harvesting process the frame is fitted to the trees and goes with the tree to it's final location. Only when the tree has been planted is the frame removed.

The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be

Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil. All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterraneal cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and

manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting. Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees

>25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the posts with galvanised nails. Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989' Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root

ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking. Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain. All topsoil is to conform to BS 3882:2015 'Multipurpose' or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitax Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The

second application to be made 10-16 weeks after planting depending on soil type and weather conditions. Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NJUG specification and requirements are to be referred too.

### Guidance for Tree Pit Sizes within Soft Landscape Areas Final tree pit size will vary dependent on size of rootball, tree stock and soil type.

Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidelines: Rootball Size Tree pit size (length, width, depth) Tree size 14-16 cmg 50x50cm 80x80x65cm 18-20 cmg 80x80x75cm 20-25 cmg 30-35 cmg 90x60cm 110x110x75cm

# Biodiverse Roof Specification

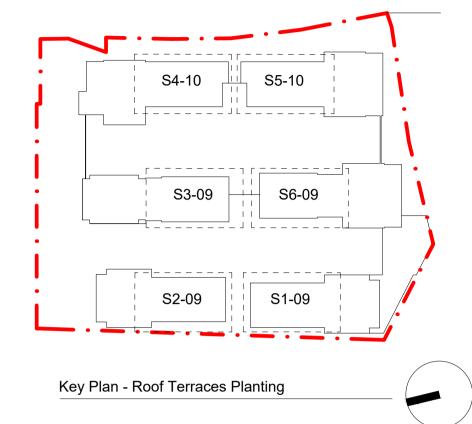
The Bauder WB Native Wildflower Blanket shall be used on all the biodiverse roof locations across all of the rooftop terraces. The Bauder WB Native Wildflower Blanket is a British growth vegetation Blanket designed for use on green roofs. Containing a broad mix of UK native wildflower species. Suitable to be laid on Bauder (FLL Compliant) Biodiverse substrate Bauder WB Native Wildflower Blanket contains a broad mix of British Wildflowers grown in substrate on a coir carrier. The natural fibres of the coir carrier promote the rapid rooting of the blanket into the substrate. The product is installed over Bauder, FLL Compliant Biodiverse Substrate. The vegetation is a mix of hardy Wildflowers, annuals and herbs. The vegetation is cut back in the summer prior to delivery to reduce plant stress.

A list of the species which make up the Bauder WB Native Wildflower Blanket are detailed below:

Achillea millefolium Agrimonia eupatoria Agrimony Daisy Bellflower; Clustered Bellis perennis Campanula glomerata Campanula rotundifolia Centaurea cyanus Cornflower Centaurea nigra Knapweed; Common Chicorium intybus Clinipodiem vulgare Daucus carota Carrot: Wild Dianthus deltoides Pink; Maiden Dipsacus fullonum Echium vulgare Viper's-bugloss Feoniculum vulgare Crane's-bill; Meadow Geranium pratense Lotus corniculatus Bird's-foot-trefoil; Common Lvthrum salicaria Purple: Loosestrife Malva moscahta Mallow; Musk Marjoram; Wild Papaver rhoes Poppy; Field or Common Pilosella aurantiaca Fox-and-cubs Hoary plantain Plantago media Primula veris Cowslip Primula vulgaris Primrose Buttercup; Meadow Ranunculus acris Rumex acetosa Sorrel; Common Salvia verbenaca Clary: Wild Scabious; Small Scabiosa columbaria Hawkbit; Autumn Silene dioica Campion: Red Silene flos-cucculi Ragged-Robin Sucissa pratensis Devil's-bit scabious Tanacetum vulgare Thyme; Wild Thymus polytrichus Trifolium pratense Clover; Red Viola riviniana Common dog violet Viola tricolor Pansy; Wild or Heartsease Grass Species (<10%) Common Name Festuca ovina Sheepsfescue Festuca rubra Slender Creeping Red Fescue Briza media Quaking-grass Hordeum brachyantherum Barley; Meadow

REFER TO THE FOLLOWING DRAWINGS: S5 Roof Terrace Planting Plan - Trees & Hedging E746-FAB-S5-10-DR-LA-920-1301 S5 Roof Terrace Planting Plan - Specimen Shrubs & Bulb Mixes E746-FAB-S5-10-DR-LA-920-1302 S5 Roof Terrace Planting Plan - Ground Cover Matrix Mixes & Block Planting E746-FAB-S5-10-DR-LA-920-1303 S5 Roof Terrace Planting Plan - Specimen Herbaceous & Grasses E746-FAB-S5-10-DR-LA-920-1304 S5 Roof Terrace Planting Plan - Soft Landscape Planting Schedule

E746-FAB-S5-10-DR-LA-920-1305

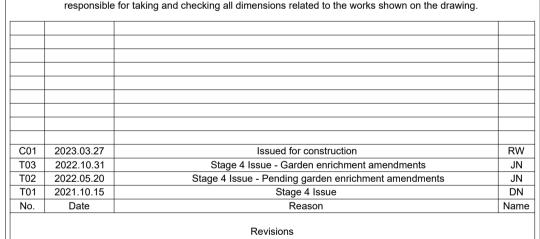


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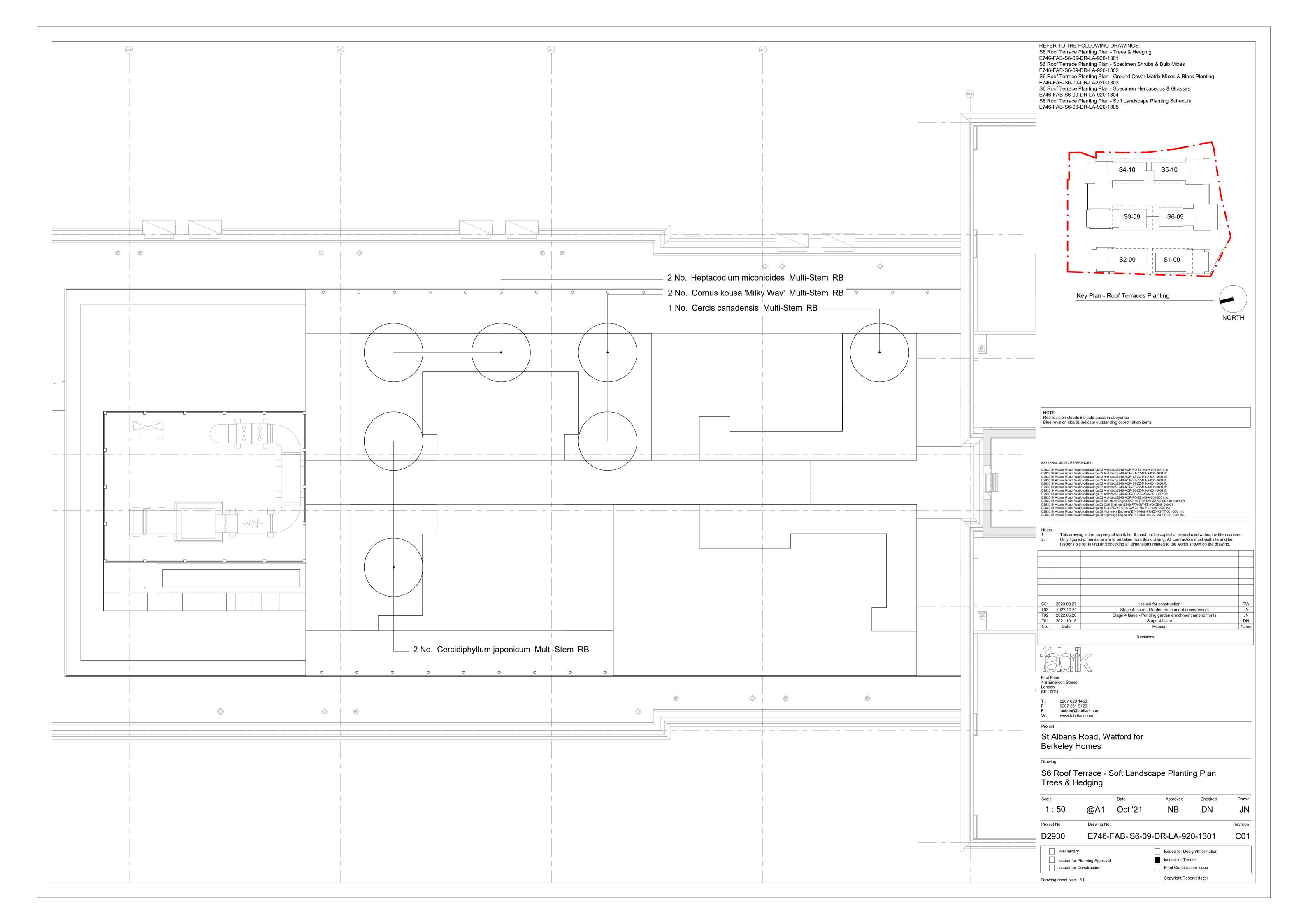
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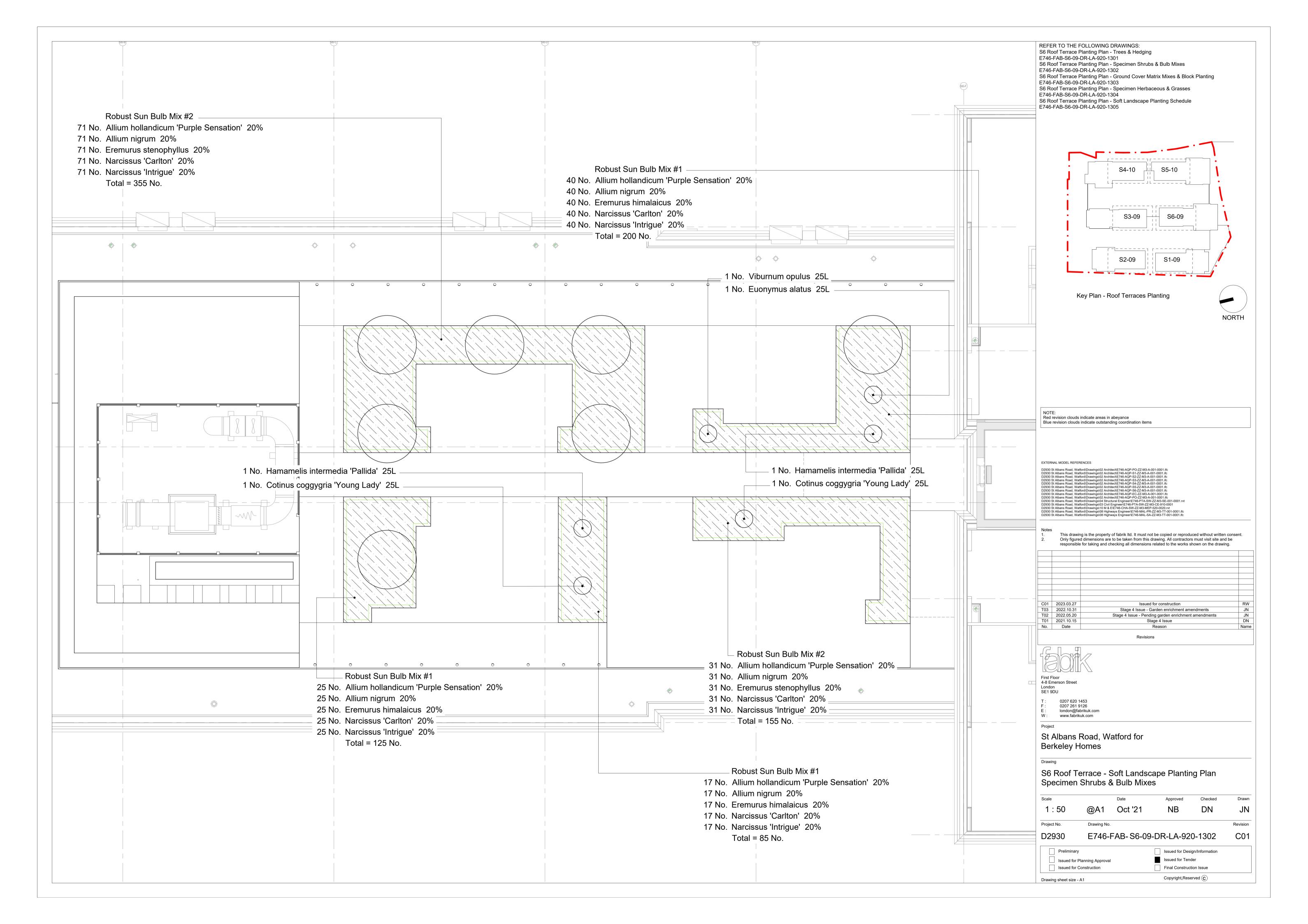
S5 Roof Terrace -

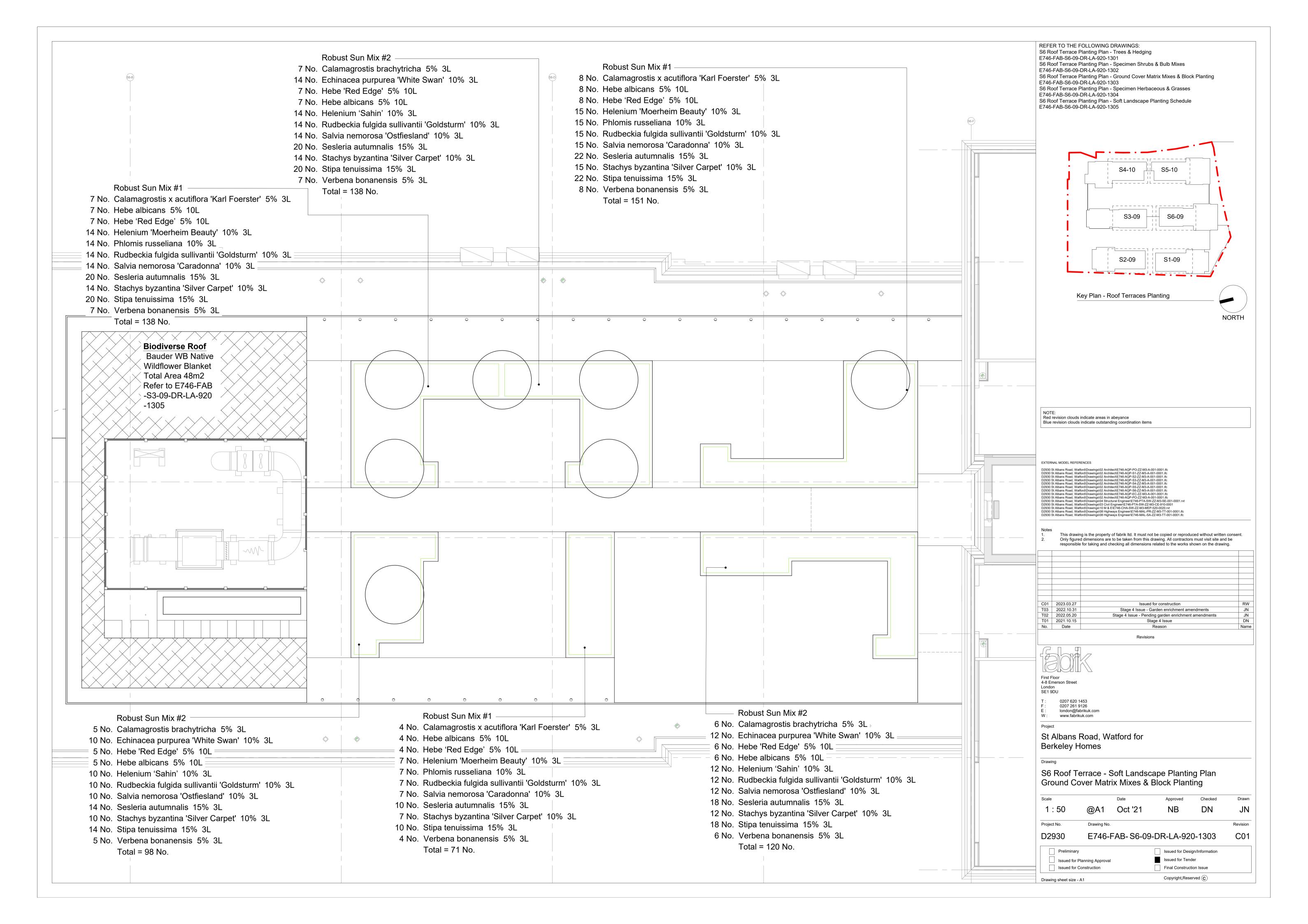
# Soft Landscape Planting Schedule

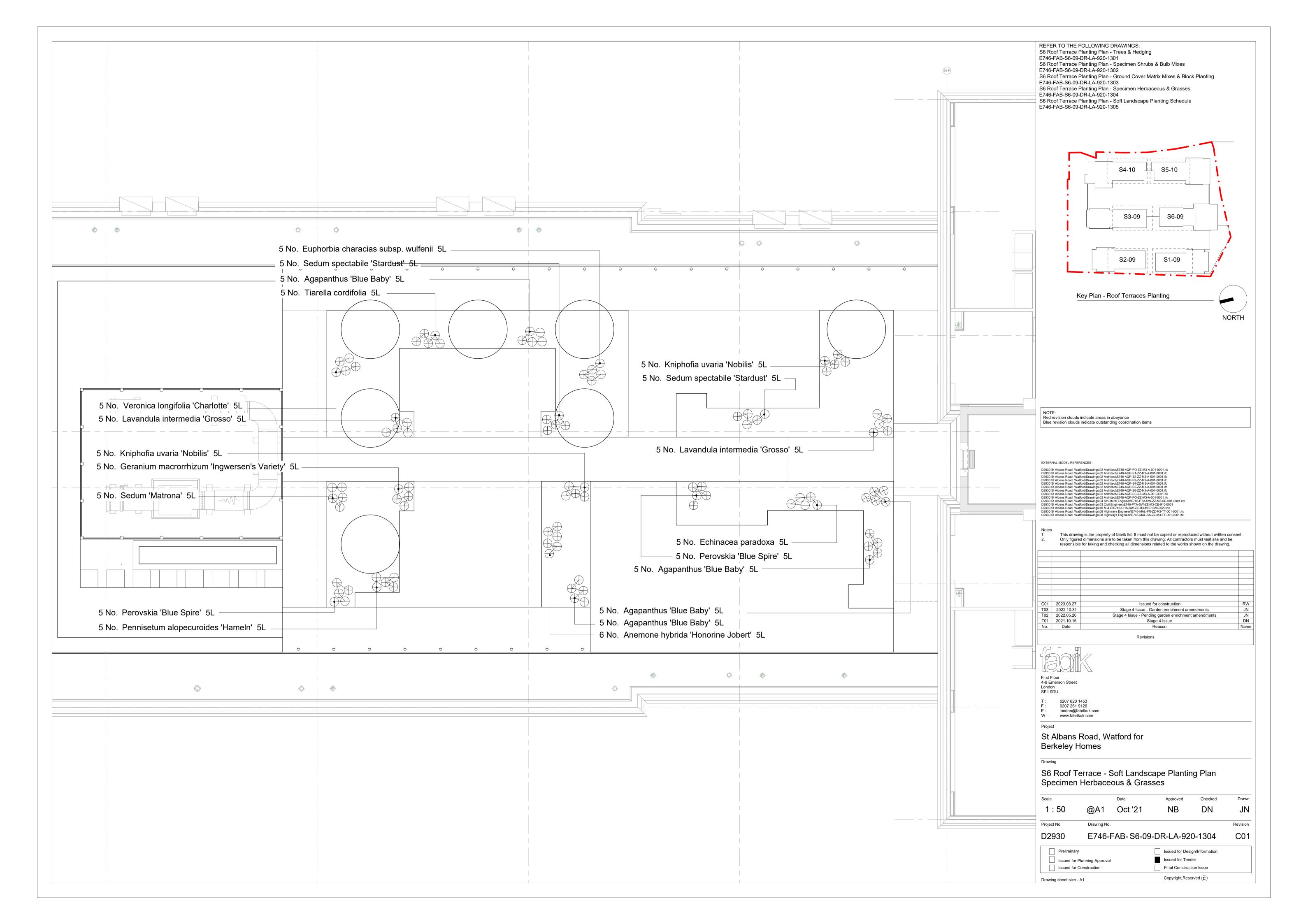
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Preliminary Issued for Design/Information Issued for Tender Issued for Planning Approval Final Construction Issue Issued for Construction Copyright<sub>c</sub>Reserved (C) Drawing sheet size - A1









<b>S6 Roof Terrace - Plantin</b>	g Schedule					
PROPOSED TREES						
Species	Girth	Height	Specification			Qty.
Cercidiphyllum japonicum	Multi-Stem	3.0-3.5m	Multi Stem :3 Stem	Multi Stem :3 Stems :Clear Stem 150-175cm :3/5 brks :5x :RB		
Cercis canadensis	Multi-Stem	3.0-3.5m	Multi Stem :3 Stems :Clear Stem 150-175cm :3/5 brks :5x :RB			2 1
Cornus kousa 'Milky Way'	Multi-Stem	4.5-5.5m		Multi Stem :3 Stems :Clear Stem 150-175cm :3/5 brks :5x :RB		
Heptacodium miconioides	Multi-Stem	4.5-5.5m		is :Clear Stem 150-175cm :3/5 b		2 2
·			Wala Stom to Stom	5.010di 0.011 100 170011 .070 5	ANO JOX IND	Total :7
NOTE: Rootball sizes to be confirmed by the selecte	ed tree nurseries prior to tag	iging.				
PROPOSED SPECIMENS Species	Condition	Height	Density	Specification		Qty.
Agapanthus 'Blue Baby'	5L	40-60cm	Counted	Full Pot		20
Anemone hybrida 'Honorine Jobert'	5L	40-60cm	Counted	Full Pot		6
Cotinus coggygria 'Young Lady'	25L	60-80cm	Counted	Bushy :4/6 brks :Con	tainerised	2
Echinacea paradoxa	5L	40-60cm	Counted	Full Pot		5
Euonymus alatus	25L	100-125cm	Counted	Bushy :4/6 brks :Con	tainerised	1
Euphorbia characias subsp. wulfenii	5L	40-60cm	Counted	Containerised	tan ioniood	5
Geranium macrorrhizum 'Ingwersen's Va		40-60cm	Counted	Full Pot		5
Hamamelis intermedia 'Pallida'	25L	100-125cm	Counted		tainarisad	2
		40-60cm		Bushy :4/6 brks :Con Full Pot	lainenseu	10
(niphofia uvaria 'Nobilis'	5L		Counted			
avandula intermedia 'Grosso'	5L	40-60cm	Counted	Containerised		10
Pennisetum alopecuroides 'Hameln'	5L	50-100cm	Counted	Full Pot		5
Perovskia 'Blue Spire'	5L	40-60cm	Counted	Full Pot		10
Sedum 'Matrona'	5L	40-60cm	Counted	Full Pot		5
Sedum spectabile 'Stardust'	5L	40-60cm	Counted	Full Pot		10
Γiarella cordifolia	5L	40-60cm	Counted	Full Pot		5
/eronica longifolia 'Charlotte'	5L	40-60cm	Counted	Full Pot		5
/iburnum opulus	25L	100-125cm	Counted	Bushy :4/6 brks :Con	tainerised	1
						Total :107
ROBUST SUN BULB MIX #1						
Species	Bulb Size	Specification	Density	Percentage Contribution	Number	
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	82	
Allium nigrum	10/12	Grade 10/+	12/m²	20%	82	
Eremurus himalaicus	13/15	Grade 10/+	12/m²	20%	82	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	82	
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	82	
· ·					Total :410	
ROBUST SUN BULB MIX #2						
Species	Bulb Size	Specification	Density	Percentage Contribution	Number	
Allium hollandicum 'Purple Sensation'	10/12	Grade 10/+	12/m²	20%	102	
Allium nigrum	10/12	Grade 10/+	12/m²	20%	102	
Eremurus stenophyllus	10/12	Grade 10/+	12/m²	20%	102	
Narcissus 'Carlton'	10/12	Grade 10/+	12/m²	20%	102	
Narcissus 'Intrigue'	10/12	Grade 10/+	12/m²	20%	102	
<b>3</b>					Total :510	
OODLIST SLIN MIV #4						
ROBUST SUN MIX #1 Species	Pot Size	Specification	Density	Percentage Contribution	Number	
Calamagrostis x acutiflora 'Karl Foerster'		Full Pot	9/m²	5%	19	
Hebe albicans	10L	Containerised	9/m²	5%	19	
lebe 'Red Edge'	10L	Containerised	9/m²	5%	19	
Helenium 'Moerheim Beauty'	3L	Full Pot	9/m²	10%	36	
Phlomis russeliana	3L	Full Pot	9/m²	10%	36	
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	36	
Salvia nemorosa 'Caradonna'	3L	Full Pot	9/m²	10%	36	
Sesleria autumnalis	3L	Full Pot	9/m²	15%	52	
Stachys byzantina 'Silver Carpet'	3L	Full Pot	9/m²	10%	36	
Stipa tenuissima	3L	Full Pot	9/m²	15%	52	
/erbena bonanensis	3L	Full Pot	9/III <sup>-</sup> 9/m²	5%	19	
הפוחבוום חחוומוובווטוט	JL	ruii rut	3/111	J 70	Total :360	
ODUCT OUR THE "C						
ROBUST SUN MIX #2 Species	Pot Size	Specification	Density	Percentage Contribution	Number	
Calamagrostis brachytricha	3L	Full Pot	9/m²	5%	18	
Echinacea purpurea 'White Swan'	3L	Full Pot	9/m²	10%	36	
Hebe 'Red Edge'	10L	Containerised	9/m²	5%	18	
Hebe albicans	10L	Containerised	9/m²	5%	18	
Helenium 'Sahin'	3L	Full Pot	9/m²	10%	36	
Rudbeckia fulgida sullivantii 'Goldsturm'	3L	Full Pot	9/m²	10%	36	
Salvia nemorosa 'Ostfiesland'	3L	Full Pot	9/111 9/m²	10%	36 36	

NOTES FOR MIX PLANTING:

Salvia nemorosa 'Ostfiesland'

Stachys byzantina 'Silver Carpet'

Sesleria autumnalis

Verbena bonanensis

Stipa tenuissima

10L & 5L Specimen Species are to be planted at random throughout the mix bed. The spacing between each specimen species should be consistent. This will create structure and rhythm

10%

15%

10%

15%

5%

52

36

52

18

Total:356

in the planting beds. The 5L and 10L specimens should be set out first. 3L planting species are to be planted in groups of 3, 5 or 7 within the planting beds.

Full Pot

Full Pot

Full Pot

Full Pot

Full Pot

Planting principles - larger species towards the back, smaller species towards the front.

NOTES FOR BULB PLANTING:

Bulb species should be planted in conjunction with the planting mixes. The bulbs should be evenly distributed throughout the planting beds. Bulbs should not be planted underneath evergreen species where they will not be seen.

9/m<sup>2</sup>

9/m²

9/m<sup>2</sup>

9/m²

9/m²

## GENERAL NOTES FOR SOFT LANDSCAPE

### **Nursery Stock and Selection**

All trees and planting are to be selected and tagged by the landscape architect prior to any stock being delivered to site. All planting should comply with the requirements specified in BS 3936:1992 'Nursery Stock' (Part One). All nursery stock and trees are to be free of pest and diseases prior to being delivered to site. All delivered stock is to be inspected by the landscape architect prior to any planting being

The Landscape architect reserves the right to reject trees and nursery stock that do not meet specifications as set out in the requirements and guidelines in BS 3936:1992 or in accordance with the landscape architects drawings. If a particular defect or substandard element can be corrected easily, appropriate remedies shall be applied and agreed with the landscape architect. If destructive inspection of a root ball is to be carried out, agreement should be in place prior as to the time and place of inspection. Inspection of shrub roots in containers or rootball can be carried out on site if required.

It is recommended that companies that do not have experience with handling large trees or the required equipment to do so seek advice from the landscape architect or tree supplier. Furthermore, specialist hauliers are to be used who will have the correct lifting equipment to deal with unloading large trees. The landscape contractor must follow the industry guidance method for handling trees. Below are recommended industry standards.

These can be lifted and unloaded using a root hook and hoist. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading maintaining the lifting

weight on the root hooks. Dormant trees sizes of 18-20cmg - 25-30cmg These can be lifted and unloaded using a 3 tonne sling in combination with a chain and root hooks. Even when the tree is dormant it is recommended to wrap the stem in hessian for additional protection when

Dormant trees sizes of 45-50cmg These can be lifted and unloaded using a 5 tonne sling in combination with a chain and root hooks ensuring the root hooks are hammered firmly into the rootball. Different lengths of chains can be used, however bare in mind that the longer the chain the more vertical the tree will be that will provide greater pressure on the bark. Even when the tree is dormant it is recommended to wrap the stem in hessian for

These can be lifted and unloaded using an 8 tonne sling in combination with a hoisting strap that will pull less pressure on the trunk. The tree will also hang more vertically that makes unloading the tree directly into the planting hole easier. Note: If the trees are to be laid flat until planted it is better to use chains for unloading. Using the correct chain length will ensure the tree is moved horizontally. Even when

the tree is dormant it is recommended to wrap the stem in hessian for additional protection when unloading. Dormant trees sizes 70cmg and above

It is recommended that the landscape contractor seek specialist advice when dealing with extremely large trees. Extra large trees can be lifted with a Newman frame. During the harvesting process the frame is fitted to the trees and goes with the tree to it's final location. Only when the tree has been planted is the frame removed.

The tree supplier is to be approved by landscape architect prior to any ordering of stock. All trees are to be planted in the first available planting season after construction as root balled stock unless otherwise specified and agreed with the client. All tree pits are to be excavated 24 hours prior to delivery to reduce the time the rootball is out of the ground. All tree pits are to be excavated under favourable weather conditions to avoid deterioration of the soil structure and glazing. All excavations are to be carried out using a toothed bucket ensuring tree pit walls are not glazed, the walls of the tree pit can also be

loosened with hand held tools. Tree pit dimensions are subject to soil conditions, soil report provided by agronomist and rootball size. Tree pits can never be excavated too wide in an unrestricted space (open ground), however they can be All trees are to be planted at the correct height which is the same depth as the tree was growing on the nursery. The root collar must remain visible. Tree pit sizes are to be agreed with landscape architect prior to excavations. All tree pits are to be inspected by the landscape architect prior to planting. All tree pits are to have suitable irrigation pipe and end cap and aeration tubes if required (aeration tubes tend to be required for trees planted in a hard landscape environment). They are only required for the first two years after which they are superfluous. All irrigation pipes are to be placed as high as possible not at the base of the rootball. The tree would also benefit from an earth reservoir around the rootball on the surface to aid watering. The reservoir is best backfilled with bark mulch to avoid soil glazing on the

Note: Trees may sink after planting due to soil settlement. With sandy soils generally there will be a settlement of 10% and clay soils 20%, this will need to be considered by the landscape contractor when planting and therefore the tree may need to be planted slightly higher to accommodate soil settlement.

Note: Never excavate deeper than the highest water table to ensure organic matter does not come in contact with groundwater resulting in anaerobic digestion within the soil. All hessian and wire supports around the rootball are to remain in place when planting (in some case it may be required to loosen the hessian and wire). The hessian will quickly decompose. The wire will oxidize and also disappear in the soil eventually. Trees planted within hard landscape areas are to have tree grilles and guards where specified. Subterraneal cellular product is to be used to ensure the tree has a minimum of 9m3 growing area. Type and

manufacture is to be agreed with the client and landscape architect prior to installation. The landscape architect is to inspect all tree pits prior to planting. Trees are to be supported either by high anchoring, low anchoring or underground anchoring systems. The type of anchoring system is to be agreed with the landscape architect and detailed within the specification of works. For trees that are <10-12cmg use 1no untreated softwood stake at min 10cm diameter driven into the ground at least 1m depth (30cm of which must be in undisturbed ground), the stake is to be placed on the side of the prevailing wind. Trees >10-12cmg use 2no untreated softwood stakes at min 10cm diameter driven into the ground at least 1m depth with horizontal bracing bar. Trees

>25-30cmg use 3no stakes in a triangle around the tree (1.4m above ground level) with horizontal bracing bars, tree bands are to be secured to the posts with galvanised nails. Underground anchoring systems are to be used for large compact rootballs or trees within hard landscape with tree grilles to BS 4043: 1989' Recommendations for Transplanting Root-Balled Trees'. The type of anchoring system is to be agreed with the landscape architect. Biodegradable anchoring straps are to be used to ensure the straps do not grow into the trunk. Note: There are benefits to using low level anchoring as field trials have demonstrated that the tree becomes independent in the ground quicker as a result of the wind rocking the tree that encourages root

ground. However, this method is not recommended in exposed conditions or coastal locations due to a greater risk of the trunk breaking. Ties and stakes are to be checked and adjusted every six months or after periods of strong wind and rain. All topsoil is to conform to BS 3882:2015 'Multipurpose' or similar approved by an agronomist. The tree pit shall be backfilled with previously prepared topsoil excavated from the pit and additional topsoil as required. All backfilled material is to include an organic slow release fertilizer to ensure there is no adverse affect on soil organisms (Vitax Q4HN) or similar approved at a ratio of 10 -7.5 -10.2 + TE. The

second application to be made 10-16 weeks after planting depending on soil type and weather conditions. Tree pit root barrier are to be installed to all trees within 3m of any underground service routes or within 2.0m of kerb lines & hard surfaces & building foundations. Type of root barrier material is to be agreed with the landscape architect. The landscape contractor is to confirm locations of all services prior to implementation of trees. Prior to installation NJUG specification and requirements are to be referred too.

### Guidance for Tree Pit Sizes within Soft Landscape Areas Final tree pit size will vary dependent on size of rootball, tree stock and soil type.

Below are general guidance sizes only. The landscape contractor is to speak to the grower to obtain exact sizes prior to delivery. Landscape Architect to inspect tree pits prior to planting.

Tree pit size guidelines:		
Tree size	Rootball Size	Tree pit size (length, width, dep
14-16 cmg	50x50cm	80x80x65cm
18-20 cmg	60x60cm	80x80x75cm
20-25 cmg	70x60cm	90x90x75cm
30-35 cmg	90x60cm	110x110x75cm

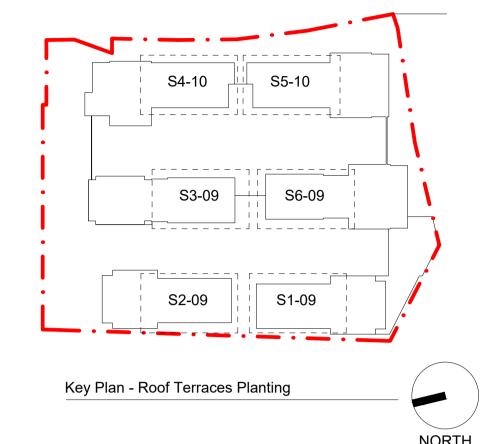
# Biodiverse Roof Specification

The Bauder WB Native Wildflower Blanket shall be used on all the biodiverse roof locations across all of the rooftop terraces. The Bauder WB Native Wildflower Blanket is a British growth vegetation Blanket designed for use on green roofs. Containing a broad mix of UK native wildflower species. Suitable to be laid on Bauder (FLL Compliant) Biodiverse substrate Bauder WB Native Wildflower Blanket contains a broad mix of British Wildflowers grown in substrate on a coir carrier. The natural fibres of the coir carrier promote the rapid rooting of the blanket into the substrate. The product is installed over Bauder, FLL Compliant Biodiverse Substrate. The vegetation is a mix of hardy Wildflowers, annuals and herbs. The vegetation is cut back in the summer prior to delivery to reduce plant stress.

A list of the species which make up the Bauder WB Native Wildflower Blanket are detailed below:

```
Achillea millefolium
Agrimonia eupatoria
                                     Agrimony
                                     Daisy
Bellflower; Clustered
Bellis perennis
Campanula glomerata
Campanula rotundifolia
 Centaurea cyanus
                                      Cornflower
Centaurea nigra
                                      Knapweed; Common
Chicorium intybus
                                      Chicory
 Clinipodiem vulgare
Daucus carota
                                      Carrot: Wild
Dianthus deltoides
                                      Pink; Maiden
Dipsacus fullonum
Echium vulgare
                                      Viper's-bugloss
Feoniculum vulgare
                                      Crane's-bill; Meadow
Geranium pratense
 Lotus corniculatus
                                      Bird's-foot-trefoil; Common
 Lvthrum salicaria
                                      Purple: Loosestrife
Malva moscahta
                                      Mallow; Musk
 Origanum vulgare
                                      Marjoram; Wild
Papaver rhoes
                                      Poppy; Field or Common
Pilosella aurantiaca
                                      Fox-and-cubs
                                      Hoary plantain
 Plantago media
Primula veris
                                      Cowslip
Primula vulgaris
                                      Primrose
                                      Buttercup; Meadow
 Ranunculus acris
Rumex acetosa
                                      Sorrel; Common
Salvia verbenaca
                                      Clary: Wild
                                      Scabious; Small
 Scabiosa columbaria
                                      Hawkbit; Autumn
Silene dioica
                                      Campion: Red
Silene flos-cucculi
                                      Ragged-Robin
Sucissa pratensis
                                      Devil's-bit scabious
 Tanacetum vulgare
                                      Thyme; Wild
 Thymus polytrichus
 Trifolium pratense
                                      Clover; Red
Viola riviniana
                                      Common dog violet
Viola tricolor
                                      Pansy; Wild or Heartsease
Grass Species (<10%)
                                      Common Name
 Festuca ovina
                                      Sheepsfescue
 Festuca rubra
                                      Slender Creeping Red Fescue
Briza media
                                      Quaking-grass
                                     Barley; Meadow
Hordeum brachyantherum
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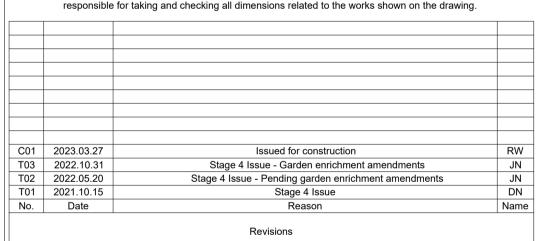
REFER TO THE FOLLOWING DRAWINGS: S6 Roof Terrace Planting Plan - Trees & Hedging E746-FAB-S6-09-DR-LA-920-1301 S6 Roof Terrace Planting Plan - Specimen Shrubs & Bulb Mixes E746-FAB-S6-09-DR-LA-920-1302 S6 Roof Terrace Planting Plan - Ground Cover Matrix Mixes & Block Planting E746-FAB-S6-09-DR-LA-920-1303 S6 Roof Terrace Planting Plan - Specimen Herbaceous & Grasses E746-FAB-S6-09-DR-LA-920-1304 S6 Roof Terrace Planting Plan - Soft Landscape Planting Schedule E746-FAB-S6-09-DR-LA-920-1305

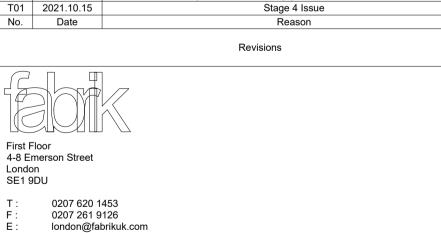




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# St Albans Road, Watford for Berkeley Homes

S6 Roof Terrace -

www.fabrikuk.com

Soft Landscape Planting Schedule

Scale		Date	Approved	Checked	Dra
1:50	@A1	Oct '21	NB	DN	J
Project No.	Drawing No				Revis
D2930	E746-	FAB- S6-09-	DR-LA-92	0-1305	CO

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