NOTES:

A. CIVIL + ELECTRICAL ENGINEERING LAYOUTS HAVE BEEN INCLUDED ON THIS DRAWING TO ILLUSTRATE THE IMPACTS OF SERVICES ON LANDSCAPE PROPOSALS

B. ARBORICULTURAL IMPACT ASSESSMENT DRAWING HAS BEEN INCLUDED ON THIS DRAWING TO ILLUSTRATE RETAINED TREES AND VEGETATION AND RELEVANT RPAS

PLANTING SCHEDULE - refer to Planting Details drawings

Qty.	Species	Height (cm)	Pot Size	Density	(cg) / (br) / (rb)	Quality Specification
	Trees: Level L-01					
1	*Pinus sylvestris* (Scot's Pine, evergreen native)	4x trlwb/30-35cmg/5.00-6.00m ht.			RB	Clear-stemmed to min. 2.00m height as per schedule, triple long-staked. Provide 1.00m depth root barrier 'RefRoot 1000' by GreenBlue Urban within 2.00m of walls, services and/or paving. Provide irrigation/ventilation pipe to encircle rootball, with 'TreeGator' slow release watering bag. Appropriate Plant Passports for all trees, trees to be hardened off in Ireland for min. 2 years before planting. Guy underground with Arborguy.
9	*Amelanchier canadensis* (Serviceberry)	multi-stem/3 x trlwb/2.50-3.00m ht			RB	multi-stemmed, double short-staked with planting accessories.
6	*Magnolia 'Kobus'* (Magnolia)	multi-stem/3 x trlwb/2.00-2.50m ht			RB	Plant with root-restricting
6	*Betula nigra 'Heritage'* (River Birch)	multi-stem/3 x trlwb/2.00-2.50m ht			RB	membrane within 2.00m distance
6	*Hamamelis intermedia 'Jelena'* (Witch Hazel)	multi-stem/3 x trlwb/2.00-2.50m ht			RB	Of services, paving, foundations
28						
	Trees: Level L00 + L01					
12	*Liquidambar styraciflua* 'Worplesdon' (Sweetgum)	4x trlwb /20-25cmg/4.00-5.00m ht.			RB	Clear-stemmed to min. 2.00m height as per schedule, triple long-staked. Provide 1.00m depth root barrier 'RefRoot 1000' by GreenBlue Urban within 2.00m of walls, services and/or paving. Provide irrigation/ventilation pipe to encircle rootball, with 'TreeGator' slow release watering bag. Appropriate Plant Passports for all trees, trees to be hardened off in Ireland for min. 2 years before planting. Guy underground with Arborguy. system
1	*Salix alba 'Babylonica'* (Willow)	4x trlwb /30-35cmg/5.00-6.00m ht.			RB	multi-trunk trees, underground guyed with Arborguy system laid on egg-crate drainage layer and a wire/mat tree anchoring system suitable for podium roofs, appropriate to the height of the tree. Provide with appropriate planting accessories.
7	*Pinus sylvestris* (Scot's Pine)	4x trlwb/30-35cmg/5.00-6.00m ht.			RB	
9	*Betula nigra 'Heritage'* (River Birch)	3xtrlwb/multi-stemmed/3.00-4.00m ht			RB	
21	*Amelanchier canadensis* (Serviceberry)	multi-stem/3 x trlwb/2.50-3.00m ht			RB	
21	*Arbutus unedo* (Strawberry Tree, evergreen native)	multi-stem/3 x trlwb/2.00-2.50m ht			RB	
21	*Prunus serrulata 'Tirackiyri'* (Birch Bark Cherry)	multi-stem/3 x trlwb/2.50-3.00m ht			RB	
21	*Hamamelis intermedia 'Jelena'* (Witch Hazel)	multi-stem/3 x trlwb/2.00-2.50m ht			RB	
112						
	Trees: Level L03 + L04					
6	*Pinus parviflora 'Glauca'* (Japanese Pine)	3xtrlwb/multi-stemmed/2.50-3.00m ht			RB	multi-trunk trees, underground guyed with Arborguy system laid on egg-crate drainage layer and a wire/mat tree anchoring system suitable for podium roofs, appropriate to the height of the tree. Provide with appropriate planting accessories.
23	*Amelanchier canadensis* (Serviceberry)	multi-stem/3 x trlwb/2.50-3.00m ht			RB	
23	*Arbutus unedo* (Strawberry Tree, evergreen native)	multi-stem/3 x trlwb/2.00-2.50m ht			RB	
23	*Prunus serrulata 'Tirackiyri'* (Birch Bark Cherry)	multi-stem/3 x trlwb/2.50-3.00m ht			RB	
23	*Hamamelis intermedia 'Jelena'* (Witch Hazel)	multi-stem/3 x trlwb/2.00-2.50m ht			RB	
98						
238	***Total tree planting numbers***					

Qty	Perennial Plants and Shrubs:					
	Plug or seed planting to 40% of permeable paving (in voids between concrete ribs)		**122 m² area**			
70	*Eschscholzia californica* (Californian Poppy)	10-20cm	p9			
70	*Chamaemelum nobile 'Treneague'* (Chamomile)	10-20cm	p9			
70	*Mentha requenii* (Corsican Mint)	10-20cm	p9			
70	*Thymus serpyllum* (Creeping Thyme)	10-20cm	p9			
70	*Soleirolii soleirolii* (Mother of Thousands)	10-20cm	p9			
70	*Dianthus carthusianorum* (German Pink)	10-20cm	p9			
70	*Allium schoenoprasum* (Chives)	10-20cm	p9			

	Species Name	Height (cm)	Pot Size	Density	(cg) / (br)	Quality Specification
P1	**Ornamental Grass, Ferns + Perennial Mix**		**353 m² area**			
Random species within flowing groups separated in colour and height groups. Plant min. half into the filter media layer, half into the non-organic mulch topping 75mm depth. Refer to planting details and typical construction sections of planter beds.						
133	*Luzula sylvatica* (Wood Rush)	20-30cm	1L	9 per m²	CG	good bushy plant
133	*Luzula nivea* (Wood Rush)	20-30cm	1L	9 per m²	CG	good bushy plant
103	*Achillea filipendulina 'Cloth of Gold'* (Yarrow)	30-40cm	1L	7 per m²	CG	good bushy plant
103	*Agastache 'Black Adder'* (Giant Hyssop)	30-40cm	1L	7 per m²	CG	good bushy plant
206	*Iris sibirica 'Tropic Night', 'Persimmon'* and *'White Swan'* (Siberian Iris)	30-40cm	p9	7 per m²	CG	min. 5 spears
103	*Filipendula purpurea 'Elegans'* (Meadowsweet)	40-60cm	1L	7 per m²	CG	good bushy plant
206	*Kniphofia rooperi, 'Atlanta', 'Alcazar'* and *'Tawny King'* and *'Green Jade' (Red-Hot Poker varieties)*	40-60cm	p9	7 per m²	CG	min. 5 spears
206	*Asplenium scolopendrium* (Hart's Tongue Fern)	40-60cm	1L	7 per m²	CG	good bushy plant
103	*Pteticaria ematoxicaulis 'Frietall'* (Mountain Fleece)	40-60cm	1L	7 per m²	CG	good bushy plant
206	*Polystichum setiferum* (Shield Fern)	40-60cm	1L	7 per m²	CG	good bushy plant
103	*Iris germanica* (Iris)	60-80cm	p9	7 per m²	CG	good bushy plant
103	*Foeniculum vulgare 'Purpureum'* (Fennel)	60-80cm	1L	7 per m²	CG	good bushy plant
206	*Liatris spicata 'Blazing Star'* (Gayfeather)	40-60cm	1L	7 per m²	CG	good bushy plant
206	*Astilbe chinensis var 'Purpurlanze'* (False Goat's Beard)	40-60cm	1L	7 per m²	CG	good bushy plant
103	*Alchemilla mollis* (Lady's Mantle)	40-60cm	1L	7 per m²	CG	good bushy plant
103	*Crocosmia 'Lucifer'* (Tiger Lily)					
206	*Hemerocallis 'Stella de Oro'* and *'Whichford'* (Day Lily)	40-60cm	1L	7 per m²	CG	good bushy plant
133	*Sesleria autumnalis* (Autumn Moor Grass)	30-40cm	1L	9 per m²	CG	good bushy plant
133	*Stipa gigantea* (Giant Feather Grass)	60-80cm	2L	9 per m²	CG	good bushy plant
P2	**Ornamental Grass, Ferns + Perennial Mix**		**202 m² area**			
101	*Lysimachia atropurpurea 'Beaujolais'* (Creeping Jenny)	1pt	p9	7 per m²	CG	strong leader, good bushy plant
101	*Molinia caerulea subsp 'Transparent'*	40-60cm	1L	7 per m²	CG	good bushy plant
101	*Asplenium scolopendrium* (Hart's Tongue Fern)	20-30cm	1L	7 per m²	CG	good bushy plant
101	*Blechnum spicant* (Deer Fern)	30-40cm	1L	7 per m²	CG	good bushy plant
101	*Libertia grandiflora* (New Zealand Iris)	40-60cm	1L	7 per m²	CG	good bushy plant
101	*Ligularia 'The Rocket'* (Leopard Plant)	40-60cm	1L	7 per m²	CG	good bushy plant
101	*Astilbe chinensis var 'Purpurlanze'* (False Goat's Beard)	40-60cm	1L	7 per m²	CG	good bushy plant
101	*Anemone 'Wild Swan'*	20-30cm	p9	7 per m²	CG	good bushy plant
101	*Rodgersia pinnata 'Superba'* (Fingerleaf)	40-60cm	1L	7 per m²	CG	good bushy plant
101	*Rudbeckia fulgida deamii* (Coneflower)	40-60cm	1L	7 per m²	CG	min. 3 spears
101	*Asarum europaeum* (Wild Ginger)	40-60cm	p9	7 per m²	CG	good bushy plant
101	*Geranium endressii* (Cranesbill)	30-40cm	1L	7 per m²	CG	good bushy plant
101	*Liriope muscari 'Big Blue'* (Lilyturf)	30-40cm	1L	7 per m²	CG	good bushy plant
51	*Verbena bonariensis*	30-40cm	IL	3 per m²	CG	min. 3 spears
51	*Digitalis grandiflora* (Foxglove)	30-40cm	1L	3 per m²	CG	good bushy plant
P3	**Ornamental Grass + Perennial Mix**		**80 m² area**			
80	*Calamagrostis x acutiflora 'Karl Foerster'* (Feather Reed Grass)	40-60cm	2L CG	4	per m²	good bushy plant
80	*Melic ciliata 'Reine Saal'* (Silky-Spike Melic)	20-30cm	2L CG	4	per m²	good bushy plant
15	*Achillea filipendulina 'Terracotta'* (Yarrow)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Agapanthus Iliiaceae 'Donau'* (African Lily)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Eremurus x isabellinus 'Cleopatra'* (Foxtail Lily)	30-40cm	2L CG	3	per m²	strong leader, good bushy plant
8	*Verbena bonariensis* (Verbena)	40-60cm	2L CG	1	per m²	strong leader, good bushy plant
15	*Helenium autumnale 'Sahin's Early Flowerer'* (Sneezeweed)	40-60cm	2L CG	3	per m²	good bushy plant
15	*Hemerocallis 'Stella de Oro'* (Day Lily)	40-60cm	2L CG	3	per m²	strong leader, good bushy plant
15	*Kniphofia 'Alcazar'* (Red Hot Poker)	30-40cm	2L CG	3	per m²	strong leader, good bushy plant
15	*Kniphofia 'Atlanta'* (Red Hot Poker)	30-40cm	2L CG	3	per m²	strong leader, good bushy plant
15	*Kniphofia caulescens* (Red Hot Poker)	30-40cm	2L CG	3	per m²	strong leader, good bushy plant
15	*Kniphofia 'Tawney King'*	30-40cm	2L CG	3	per m²	strong leader, good bushy plant
161	*Sesleria autumnalis* (Autumn moor grass)	20-30cm	2L CG	4	per m²	strong leader, good bushy plant
15	*Achillea millefolium 'Red Velvet'* (Yarrow)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Agastache foeniculum 'Alabaster'* (Anise Hyssop)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Crocosmia 'Lucifer'* (Tiger Lily)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Hemerocallis 'Autumn Red'* (Day Lily)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Monarda didyma* (Scarlet Bee Balm, Bergamot)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Papaver orientale 'Leuchtfeuer'* (Poppy)	30-40cm	2L CG	3	per m²	good bushy plant
15	*Sedum x telephium 'Autumn Joy'* (Stonecrop)	30-40cm	2L CG	3	per m²	good bushy plant
P4	**Perennial Mix**		**29 m² area**			
29	*Libertia grandiflora* (New Zealand Iris)	30-40cm	2L CG	4	per m²	good bushy plant
29	*Kniphofia 'Tawney King'*	30-40cm	2L CG	3	per m²	strong leader, good bushy plant
29	*Lamprocapnos spectabilis 'Alba'* (White Bleeding Heart)	20-30cm	2L CG	3	per m²	good bushy plant
29	*Lychnis coronaria 'Alba'* (White Rose Campion)	20-30cm	2L CG	3	per m²	good bushy plant
P5	**Perennial Mix - Podium planting**		**12 m² area**			
48	*Melic ciliata 'Reine Saal'* (Silky-Spike Melic)	20-30cm	2L CG	4	per m²	good bushy plant
48	*Euphorbia epithymoides* (Cushion Spurge)	20-30cm	2L CG	3	per m²	good bushy plant
48	*Sisyrinchium striatum* (Pale Yellow Eyed Grass)	30-40cm	2L CG	3	per m²	strong leader, good bushy plant
48	*Salvia nemorosa 'Caradonna'*	20-30cm	2L CG	3	per m²	good bushy plant
P6	**Perennial Mix - Podium planting**		**36 m² area**			
108	*Liriope muscari 'Big Blue'* (Grape Hyacinth)	20-30cm	2L CG	3	per m²	good bushy plant
108	*Ajuga reptans 'Black Scallop'* (Bugle)	20-30cm	2L CG	3	per m²	good bushy plant
P7	**Green Roofs Plug plant Perennial Mix - biodiverse extensive type plug plants**		**264 m² area**	20-30cm	4cm plugs	
59	*Achillea millefolium*					
59	*Allium schoenoprasum*					
59	*Allium sphaerocephalon*					
59	*Allium moly*					
59	*Alyssum saxatile*					
59	*Dianthus alpinus*					
59	*Dianthus carthusian*					
59	*Geranium macrorrhizum*					
59	*Geranium sanguineum*					
59	*Iris pumila*					
59	*Lychnis alpina*					
59	*Linum perenne*					
59	*Muscari*					
59	*Nepeta fassenii*					
59	*Origanum vulgaris*					
59	*Prunella vulgaris*					
59	*Sanguisorba minor*					
59	*Scabiosa canescens*					
59	*Thymus serpyllum*					
H1	**L-00 Hornbeam Container-grown Hedgerow**					
175	*Carpinus betulus* (Hornbeam) - Hornbeam plants to create an 'instant hedge' effect, and to be maintained as clipped 'formal' hedges	100-120cm	2L	4	CG	good bushy plant
H2	**L-00 Wildlife Fruiting Transplant Hedgerow**		**118 m² area**			**69 linear metres**
29	*Malus sylvestris* (Crab Apple)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
235	*Crataegus monogyna* (Hawthorn)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
29	*Prunus avium* (Wild Cherry)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
29	*Viburnum lantana* (Wayfarer Tree)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
29	*Syringa vulgaris* (Lilac)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
29	*Corylus avellana* (Hazel)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
29	*Sambucus nigra* (Elder)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
29	*Acer campestre* (Field Maple)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
29	*Prunus spinosa* (Blackthorn)	40-60cm transplants		4 per m²	BR	transplant 1+1: branched: 2 breaks
35	*Lonicera periclymenum* (Honeysuckle)	60-80cm		planted at 0.5m	BR	transplant 1+1: branched: 2 breaks
35	*Rosa rubiginosa* (Eglantine Rose, Sweetbriar)	60-80cm		planted at 0.5m	BR	transplant 1+1: branched: 2 breaks
35	*Rosa canina* (Dog Rose)	60-80cm		planted at 0.5m	BR	transplant 1+1: branched: 2 breaks
35	*Rubus fruticosus* (Blackberry/Bramble)	60-80cm		planted at 0.5m	BR	transplant 1+1: branched: 2 breaks
	L-00 Self-clinging and twining climbing plants along NW wall in creche play area		**25 linear metres**			
8	*Rosa 'Madame Isaac Pereire'* (Bourbon Climbing Rose)	40-60cm	1L	1 per 0.5m	CG	strong leader with 3 breaks
8	*Lonicera japonica 'Halliana'* (Honeysuckle)	40-60cm	1L	1 per 0.5m	CG	strong leader with 3 breaks
8	Rosa 'Madam Alfred Carriére (Climbing Rose)	40-60cm	1L	1 per 0.5m	CG	strong leader with 3 breaks
8	*Trachelospermum jasminoides* (Star Jasmine)	40-60cm	1L	1 per 0.5m	CG	strong leader with 3 breaks
8	*Hydrangea petiolaris* (Climbing Hydrangea)	40-60cm	1L	1 per 0.5m	CG	strong leader with 3 breaks
8	*Parthenocissus tricuspidata 'Veitchii'* (Boston Ivy)	40-60cm	1L	1 per 0.5m	CG	strong leader with 3 breaks

NB Naturalised bulb drifts at all levels **87** **62** **m² area**

Scatter the bulbs across the planting area and plant each where it lands, using a sturdy trowel or bulb planting to dig to the recommended depth for the plant. Cover with soil and gently firm around to fill any pockets of air. If planting a large group lift turf and plant underneath. Bulbs to be planted in single species groups of approx 7, 9, 11 etc.

124	*Allium ursinum* (Ramsons)	Grade 5/6	bulb	10
124	*Anemone nemorosa* (Wood Anemone)	Grade 5/6	bulb	10
124	*Cyclamen coum* (Eastern Cyclamen)	Grade 5/6	bulb	10
124	*Galanthus nivalis* (Snowdrop, native)	Grade 5/6	bulb	10
124	*Hyacinthoides non-scripta* (Bluebell, native)	Grade 5/6	bulb	10
124	*Leucojum aestivum* (Summer Snowflake)	Grade 5/6	bulb	10
124	*Viola riviniana* (Dog Violet, native)	Grade 5/6	bulb	10
62	*Allium 'Mont Blanc'*	Grade 5/6	bulb	10
62	*Allium 'Purple Sensation'*	Grade 5/6	bulb	10
62	*Crocus tommasinianus 'Barr's Purple'* (Woodland	Grade 5/6	bulb	10
62	*Crocus tommasinianus 'Ruby Giant'* (Woodland C	Grade 5/6	bulb	10
62	*Eremerus x isabellina 'Cleopatra'* (Foxtail Lily)	Grade 5/6	bulb	10
62	*Iris reticulata 'Harmony'* (Miniature Iris)	Grade 5/6	bulb	10
62	*Liriope muscari* (Grape Hyacinth)	Grade 5/6	bulb	10
62	*Narcissus cyclamineus 'Tete-a-Tete'*	Grade 5/6	bulb	10
62	*Narcissus 'Pipit'*	Grade 5/6	bulb	10
62	*Nerine bowdenii* (Jersey lily)	Grade 5/6	bulb	10

Notes

Timescale for Implementation of Soft Landscape Works

Any subsoil and/or topsoil stripping and storage shall be done prior to commencement of construction of roads, buildings, services, etc. No works in relation to grading and topsoiling shall be carried out in conditions where materials are wet. Any stockpiling of soil shall not exceed 1.5m in height to avoid compaction.

Exact dates for completion of works will be finalised after the award of the construction programme. The construction of hardworks shall be carried out in tandem with the main construction programme whereby care is taken to avoid unnecessary machinery traffic on completed areas.

All excavation, back-filling and top-soiling works to be completed when appropriate during the works programme. Topsoiling shall be carried out in areas where the underground service works and hardworks are complete so that no undue disturbance to topsoiled areas is ensured.

Planting is best done between October and April (the planting season), and all soft landscape works should be completed during the next planting season after the completion of the works (if the construction works finish outside the planting season).

Landscape work shall take place in the appropriate season and only when the conditions are suitable, i.e. it is dull, moist and mild, without undue risk of frost or drying winds. There shall be no cultivation or planting when the soil is frozen or waterlogged.

Bare-root and root-balled trees, transplants and shrubs are only available in autumn and winter. Planting of bare-root and root-balled stock shall take place in the following planting season from the completion of topsoil works; namely November - March.

Container-grown stock and grass seeding shall be carried out in the appropriate weather conditions following completion of topsoil works. Container-grown plants can be planted at any time of the year, but are easier to care for if planted in autumn or winter, as they need less watering than ones planted in spring or summer.

Apply fertiliser a season after planting if the soil is poor or if a boost to growth is required.

Inspect tree ties in spring and autumn and adjust tree ties to prevent constriction of the stem. After two growing seasons the tree should make sufficient root growth to anchor the tree and the stake can be removed.

If exceptional weather conditions occur after planting, e.g. heavy frosts, measures shall be taken as approved by the Landscape Architect.

The Landscape Contractor shall execute his works in conformity with a programme to be agreed with the Landscape Architect and shall include in his estimate for working within an agreed time limit. The Landscape Contractor shall allow for keeping individual areas adequately maintained until the whole has been completed.

Maintenance Period Operations

18 months Defects Liability Clause and Maintenance Period to soft landscape works, to commence upon Practical Completion of the building contract. Maintenance/Defects Liability to include hand-weeding of planter beds and grass lawns; grass-cutting to lawns; pruning of planting and trees as required; and maintenance of a weed-free 75mm depth medium-grade bark mulch to all planter beds. All dead, dying or diseased planting to be replaced as required within the 18 months Maintenance/Defects Liability Period. Minimum 20 maintenance visits required during the 18 months period, min. 2 per month during the growing season.

Abbreviations:

xtr.	number of transplants in	wrb.	wire root-balled
			girth of tree in centimeters measured 1m above
m.	metre	cmg.	ground
ht.	height	2ltr cg.	plants supplied in 2 litre volume containers
s.	spread	cvs.	cultivated varieties
br	bare-root transplant	subsp.	subspecies
cg	container-grown		

PLANTING PLAN
SCALE 1:200@A1

'SOFT' LANDSCAPE MATERIALS - OUTLINE SPECIFICATION KEY

Refer to Planting Details, Planting Schedule and Planting Maintenance programme. 24-month long landscape maintenance and LA-certified Defects Liability Period required post-Practical Completion. The planting stock should be sourced from a reputable supplier and be of Irish origin/provenance.

H1 - NEW HORNBEAM CG CLIPPED HEDGEROW
Carpinus betulus (Hornbeam)1.00-1.20m ht. potted plants, bushy to base in double staggered row, with 2 planted per 500mm length. Provide 75mm depth, 1200mm width, medium-grade bark mulch topping to reduce future weed growth at base. Cut hedge to 1.00m ht after planting to ensure an even height along the hedgerow. Min. 1.20m ht sweet chestnut pale, post and wire fence to protect hedge

H2 - NEW NATIVE MIXED SPP TRANSPLANT HEDGEROW
Wildlife Fruiting Hedge (species such as Hawthorn, Hazel, Elder, Bird Cherry, Blackthorn, Crab Apple, Wayfarer Tree, Holly), whips planted in groups of varieties that repeat themselves along the hedge, to mature as a 'natural' hedgerow. Plant in staggered rows, 4 hedging transplants per m², 1 no. climbing plant per 0.5m length (e.g. Honeysuckle, Ivy, Dog Rose). Provide 75mm depth, 1.20m width, medium-grade bark mulch topping to reduce future weed growth at base.

DRIFTS OF BULB PLANTING
plug-planted with top size 5/6 bulbs *Crocus* vars., *Galanthus nivalis, Allium ursinum, Anemone nemorosa, Hyacinthoides non-scripta* etc., variety and species depending on soil type and landscape conditions

PERENNIAL PLANTING TYPES: P1 P2 P3
Moisture-tolerant perennial pollinator-friendly container-grown plants to planter beds with a diverse mix 70:30 ratio of ornamental grasses, bulbs, corms, ferns, ground-cover plants, sedums to flowering perennials of both native cultivars and exotic species to ensure a **pollinator-friendly** planting mix in line with the 'National Pollinator Plan'. These plants should establish quickly requiring minimised maintenance.

TREE PLANTING GENERALLY
All tree pits to be approved by Landscape Architect prior to planting.All trees to have a 2.00m ht clear stem unless otherwise specified as multi-stemmed or feathered trees, to ensure clear visibility for pedestrians. Trees guyed underground, triple-staked or double-staked as per planting schedule & supplied with planting accessories as per Planting Details as per BS5837:2012 + LA's Planting Details. Root barriers to be provided to all trees within 2.00m of underground services, foundations or walls. Trees planted in excavated tree pits, desired pit area approx 4.00m², 1.00m depth. No services routes to be planned through tree pits. Appropriate Plant Passports required for trees for bio-security measures, trees to be hardened off in Ireland for 2x growing seasons

SEMI-MATURE TREES
Ps *Pinus sylvestris*, 4xtr/wrb/ 30-35cmg/ 6.0-6.50m ht.
SaB *Salix alba* 'Babylonica' 4xtr/wrb/ 30-35cmg/ 6.0-6.50m ht

SEMI-MATURE TREES
La *Liquidambar styraciflua* 'Fastigiata', 3xtr/ wrb/20-25cmg/5.0-5.5m ht.

EXTRA HEAVY STANDARD TREES
BpF *Betula pendula* 'Fastigiata', 3xtr/wrb/18-20cmg/4.5-5.0m ht.

MULTI-STEMMED TREES, LARGE SHRUBS
Ac *Amelanchier canadensis*, 2xtr/wrb/2.5-3.0m ht.
Bn *Betula nigra* 'Heritage', 2xtr/wrb/2.5-3.0m ht.
Hi *Hamamelis intermedia* 'Jelena', 2xtr/wrb/2.0-2.5m ht.
MK *Magnolia* 'Kobus', 2xtr/wrb/2.0-2.5m ht.

STREET FURNITURE - CYCLE SHELTERS (8 SPACES EACH)
'8x Bike Shelter' (with 4 no. cycle stands to provide 8 no. cycle parking spaces in each shelter) by Green Roof Cycle Shelters or EQA, 3.70x2.25x2.00x2.078m LxHxWxD with green roof substrate, planting, external wildlife panels for solitary bees and invertebrates, and bird nesting boxes.

INTENSIVE GROWING MEDIUM (FOR PODIUM ROOF SITUATIONS)
Specified planting on 75mm depth medium-grade bark mulch topping to planter bed. Enrich 'intensive' growing medium + Bauder 'egg-crate' build-up to planters: 450mm depth FLL Intensive Substrate lightweight growing medium, ca. 1250kg/m³ on FLL 1mm polypropylene filter fleece, ca. 105g/m² on FLL 50mm expanded polystyrene drainage board, ca. 0.65kg/m³ on FLL 4mm polyester & polypropylene fibre mix protection mat, ca1.1kg/m² on FLL 2 layers 0.2mm polyethylene foil separation layer, ca. 190g/m².

BIODIVERSE EXTENSIVE GROWING MEDIUM (FOR PODIUM ROOF SITUATIONS)
Specified planting on 75mm depth medium-grade bark mulch topping to planter bed. Enrich 'semi-intensive' growing medium + Bauder 'egg-crate' build-up to planters: 200mm depth FLL Semi-Intensive Substrate lightweight growing medium, ca. 1250kg/m³ on FLL 1mm polypropylene filter fleece, ca. 105g/m² on FLL 40mm expanded polystyrene drainage board, ca. 0.65kg/m³ on FLL 4mm polyester & polypropylene fibre mix protection mat, ca1.1kg/m² on FLL 2 layers 0.2mm polyethylene foil separation layer, ca. 190g/m².

BIO-DIVERSE ROOF FEATURES
include a variety of features such as hollow log piles, different substrate types such as low (350mm ht.) mounds of sand and rubble, piles of cleaned bricks 350mm ht., piles of local cobbles in mound max 350mm ht., different vegetation layers and spaces for shelter such as Schwegler nesting boxes

TREES (SUITABLE FOR PODIUM ROOF)
Pinus parviflora 'Glauca' 4xtr/wrb/2.5-3.0m ht
Trees to be secured using an 'underground guying' system and secured in place with 3 no. 'dead-man' kerbs and an RF2 'Plati-Mat' by Platipus Tree Anchoring Systems for multi-stemmed trees 2.5-4.5m height, designed for installation on podium roofs, with rootball irrigation and ventilation.

BIO-DIVERSE EXTENSIVE/INTENSIVE ROOF PLANTING
CG p9, 1L, 2L 3-9/m² density
Perennial pollinator-friendly container-grown plants to planter beds with a diverse mix of ornamental grasses, bulbs, corms, ferns, ground-cover plants, sedums and flowering perennials of both native cultivars and exotic species to ensure a **pollinator-friendly** planting mix in line with the 'National Pollinator Plan'. These plants should establish quickly requiring minimised maintenance.
Planters to be gently mounded to achieve sufficient planting depth for trees. All planters to have raised edges of corten steel to provide sufficient growing medium.

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Where dimensions are not given, drawings must not be scaled and the matter must be referred to the Landscape Architect. Similarly if the drawings contain conflicting details or dimensions.
If the drawing includes conflicting details/dimensions the matter must be referred to the Landscape Architect.
All dimensions must be checked on site prior to construction or fabrication.
The Landscape Architect must be informed, by the Contractor, of any discrepancies before work proceeds.
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STUDIO AULA
ARCHITECTURE / URBANISM / LANDSCAPE ARCHITECTURE
a: 86, Ilbegorr Lane, Ballinbridge, D04 P9N7.
t: + 353 86 362 0489
e: joanne@studioaula.com
www.studioaula.com

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