SOFT LANDSCAPE

EXISTING

Existing Trees and vegetation to be Retained
To be protected in accordance with BS 5837:2012 *'Trees in relation to Design, Demolition and Construction'*
Note: Refer to arboricultural survey & report for details

Gore Copse
To be retained and protected in accordance BS 5837:2012 *'Trees in relation to Design, Demolition and Construction'*.
Managed in accordance with ecologist recommendations

Existing Trees/Vegetation to be Removed
Trees/vegetation in conflict with proposed development, based on current site layout. Note: Refer to arboricultural Ghost
Refer to arboricultural Ghost for details

Note: No dig construction to be carried out in any location where construction is within RPA of existing trees. Refer to Arboricultural's drawings & reports for further details

PROPOSED

Proposed Tree Planting
Size/Spec: Refer to plant schedule for details
Note: Final location of trees to be determined with services alignment. All trees are to be tagged by landscape architect prior to delivery

Proposed Specimen Shrub Planting
Product: Container grown stock
Size/Spec: Refer to plant schedule for details

Proposed Climber Planting
Product: Container grown stock
Size/Spec: refer to plant schedule for details

Proposed Shrub Planting
Product: Container grown plant stock
Size/Spec: Refer to plant schedule for details
Note: All batches of species are to be labelled prior to delivery

Proposed Native Shrub Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Note: Species planted in an even but natural distribution throughout the planting area

Proposed Native Woodland Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Note: Species planted in an even but natural distribution throughout the planting area

Proposed Hedge Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Note: All batches of species are to be labelled prior to delivery

Proposed low hedge Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Note: All batches of species are to be labelled prior to delivery

Proposed Native Hedge Planting
Product: Field grown plant stock
Size/Spec: Refer to plant schedule for details
Note: All batches of species are to be labelled prior to delivery

Grass Type 1: Amenity Grass
GT1 - RSI Medallion Turf
GT1a - A4 amenity grass mix
GT1b - A1B grass seed mix
Size/Spec: Refer to plant schedule for details

Grass Type 2: Rough Grass/Low Maintenance
GT2 - Mowed on a Grassland regime
GT2a - Higher intensity of mowing regime
Product: WFG8 'Hedgerows and Shaded Areas'
Size/Spec: Refer to plant schedule for details

Grass Type 3: Wet Grassland
GT3 - Mowed on a grassland regime
GT3a - Higher intensity of mowing regime
Product: WFG9 'Wetland and Pond Areas'
Size/Spec: Refer to plant schedule for details

Grass Type 4: Flowering Grassland
GT4 - Mowed on a Grassland regime
GT4a - Higher intensity of mowing regime
Product: WFG2 'Flowering Grassland'
Size/Spec: Refer to plant schedule for details

Grass Type 5: Flowering Grassland
GT5 - Mowed on a grassland regime
GT5a - Higher intensity of mowing regime
Note: to be managed to achieve an NVC type MG5
Cynosurus cristatus-Centaurea nigra grassland in accordance with ecologists recommendations.

Aquatic Planting
Product: Dry bulbs
Size/Spec: Refer to plant schedule for details

Bulb Planting
Product: Dry bulbs
Size/Spec: Refer to plant schedule for details

Planting Schedule

PROPOSED TREES

Species	Symbol	Girth	Height	Specification	Qty.
Acer campestre	Ac	10-12cmg	3.0-3.5m	RB :Standard	11 -
Acer campestre	Ac	14-16cmg		Standard :Clear Stem 175-200 :RB	1 -
Acer campestre 'Elsrijk'	AcE	18-20cmg		Clear Stem min. 200 :Standard	1 -
Acer campestre (m. stem)	AcMS		2.5-3.0m	Multi-Stemmed :RB	11 -
Alnus glutinosa	Ag	18-20cmg		RB :Clear Stem 150-175 :Heavy Standard	5 -
Amelanchier lamarckii	Al	14-16cmg	3.0-3.5m	Clear Stem 175-200 :Light Standard :RB	8 -
Betula albosinensis	BETALB		2.5-3.0m	Multi-Stemmed	2 -
Betula nigra (m. stem)	Bn		2.5-3.0m	Multi-Stemmed :RB	2 -
Betula pendula	BEPE	8-10cmg		RB	16 -
Betula pendula	BEPE	16-18cmg		Clear Stem 150-175 :Standard	10 -
Betula utilis var. jacquemontii 'Grayswood Ghost'	BuGg		3.0-3.5m	RB :Multi-Stemmed	5 -
Betula utilis var. jacquemontii 'Grayswood Ghost'	BuGg	16-18cmg		Selected Standard :Clear Stem 175-200 :RB	4 -
Carpinus betulus 'Lucas'	CbL	20-25cmg	4.0-5.0m	RB :Clear Stem min. 200 :Heavy Standard	3 -
Corylus columa	Cc	18-20cmg	4.0 to 5.0m	RB	8 -
Crataegus monogyna	CM	14-16cmg		RB :Clear Stem 150-175 :Standard	14 -
Fagus sylvatica 'Purpurea'	FAGPURA	20-25cmg	4.0 to 5.0m	RB :Clear Stem 175-200 :Semi-Mature	6 -
Liquidambar styraciflua	LIQST	20-25cmg		RB :Clear Stem min. 200	1 -
Liquidambar styraciflua 'Lane Roberts'	LIQSTLR	20-25cmg		RB :Clear Stem min. 200	5 -
Liriodendron tulipifera	LIRTU	18-20cmg	4.0 to 5.0m	RB :Clear Stem 150-175 :Heavy Standard	3 -
Malus 'John Downie'	MaJD	14-16cmg	3.5-4.0m	RB :Clear Stem 150-175	2 -
Malus sylvestris	MALSY	16-18cmg	400-450cm	3x :Clear Stem min. 200 :Extra Heavy Standard	18 -
Prunus 'Sunset Boulevard'	PRUBOUA	18-20cmg	4.0 to 5.0m	RB	11 -
Prunus avium 'Plena'	Pa 'P'	18-20cmg	4.0 to 5.0m	RB :Clear Stem min. 200	4 -
Pyrus calleryana 'Chanticleer'	PcC	16-18cmg	4.0-5.0m	RB :Clear Stem min. 200 :Heavy Standard	12 -
Quercus robur	Q	25-30cmg	6.0-7.0m	Clear Stem min. 200 :Semi-Mature	33 -
Sorbus aucuparia	Sa	18-20cmg		Clear Stem min. 200 :Standard	17 -
Taxus baccata	Tb	25-30cmg		RB :Heavy Standard :Clear Stem 175-200	1 -
Tilia cordata	Tc	18-20cmg	5.0-6.0m	Clear Stem min. 200 :Heavy Standard :RB	18 -
Tilia cordata 'Rancho'	Tc R	16-18cmg	4.0 to 5.0m	RB :Standard	14 -
Tilia cordata 'Streetwise'	TcS	20-25cmg	4.0 to 5.0m	Clear Stem min. 200 :Heavy Standard :RB	1 -
					Total :247 -

PROPOSED SPECIMENS

Species	Height	Condition	Density	Qty.
Buxus sempervirens (ball)	30-40cm (D)	C20	Counted	3 -
Hydrangea quercifolia 'Snow Queen'	40-50cm	C5	Counted	39 -
Magnolia 'Iolanthe'		10-12L	Counted	1 -
Magnolia stellata	60-80cm	10-12L	Counted	4 -
Osmanthus burkwoodii	40-60cm	C5	Counted	5 -
Sarcococca confusa	40-60cm	C5	Counted	1 -
Thuja plicata 'Fastigiata'	500-600cm		Counted	5 -
Viburnum opulus 'Compactum'	40-60cm	C5	Counted	14 -
				Total :72 -

PROPOSED HEDGING

Species	Height	Condition	Density	Qty.
Buxus sempervirens	30-40cm	C5	0.25Ctr Double Staggered at 0.25m offset	1583 -
Cornus sanguinea	60-80cm	BR	0.5Ctr Triple Staggered at 0.5m offset	341 -
Corylus avellana	60-80cm	BR	0.5Ctr Triple Staggered at 0.5m offset	341 -
Crataegus monogyna	100-125cm	BR	0.5Ctr Triple Staggered at 0.5m offset	1354 -
Escallonia 'Donard Radiance'	60-80cm	C10	0.3Ctr Double Staggered at 0.5m offset	87 -
Fagus sylvatica	120-150cm	BR	0.5Ctr Double Staggered at 0.5m offset	1498 -
Ilex aquifolium	40-60cm	C3	0.5Ctr Triple Staggered at 0.5m offset	510 -
Prunus domestica			0.5Ctr Triple Staggered at 0.5m offset	341 -
Prunus spinosa	60-80cm	BR	0.5Ctr Triple Staggered at 0.5m offset	173 -
Rosa canina	60-80cm	BR	0.5Ctr Triple Staggered at 0.5m offset	173 -
Sambucus nigra	60-80cm	BR	0.5Ctr Triple Staggered at 0.5m offset	173 -
				Total :6574 -

PROPOSED SHRUBS

Species	Height	Condition	Density	Qty.
Abelia grandiflora 'Kaleidoscope'	30-40cm	C5	5/m²	27 -
Berberis aubergii 'Atropurpurea Nana'	30-40cm	C5	5/m²	84 -
Choisya 'Aztec Pearl'		C5	5/m²	140 -
Cistus aguilarii	40-60cm	C5	5/m²	289 -
Cornus alba 'Elegantissima'	60-80cm	C5	5/m²	49 -
Cornus alba 'Midwinter Fire'	60-80cm	C5	5/m²	72 -
Cornus sanguinea	20-30cm	C3	7/m²	15 -
Cornus sanguinea 'Midwinter Fire'	60-80cm	C10	3/m²	340 -
Cornus stolonifera 'Flaviramea'	60-80cm	C10	3/m²	406 -
Cotinus 'Grace'	60-80cm	C5	3/m²	14 -
Escallonia 'Donard Radiance'	60-80cm	C10	0.3Ctr	28 -
Escallonia 'Red Elf'	40-60cm	C5	5/m²	108 -
Euonymus fortunei 'Emerald Gaiety'	30-40cm	C5	5/m²	373 -
Garrya elliptica 'James Roof'		C3	5/m²	367 -
Hebe 'Green Globe'	30-40cm	C5	5/m²	402 -
Hebe 'Midsummer Beauty'	40-60cm	C5	5/m²	442 -
Hebe 'Red Edge'	30-40cm	C5	5/m²	67 -
Hebe 'White Gem'	30-40cm	C5	5/m²	454 -
Hydrangea quercifolia 'Snow Queen'	40-50cm	C5	5/m²	69 -
Lavandula angustifolia 'Vera'	30-40cm	C5	5/m²	791 -
Mahonia nitens 'Cabaret'	30-40cm	C5	5/m²	31 -
Osmanthus burkwoodii	40-60cm	C5	5/m²	35 -
Perovskia 'Blue Spire'	60-80cm	C5	5/m²	186 -
Philadelphus 'Manteau d'Hermine'	40-60cm	C10	3/m²	81 -
Prunus laurocerasus 'Otto Luyken'	40-60cm	C10	3/m²	28 -
Prunus lusitanica	200-250cm	30L	No.	20 -
Rosmarinus officinalis	30-40cm	C5	5/m²	270 -
Santolina rosmarinifolia 'Lemon Fizz'	30-40cm	C5	5/m²	89 -
Santolina chamaecyparissus	30-40cm	C5	5/m²	26 -
Sarcococca confusa	40-60cm	C5	5/m²	241 -
Sarcococca hookeriana var. humilis	40-60cm	C5	5/m²	508 -
Viburnum davidii	30-40cm	C5	5/m²	670 -
Viburnum t. 'French White'	40-60cm	C5	5/m²	399 -
				Total :7121 -

PROPOSED HERBACEOUS

Species	Condition	Density	Qty.
Achillea 'Credo'	C3	7/m²	38 -
Anemone hybrida 'Honorine Jobert'	C3	Counted	27 -
Anemone hybrida 'Honorine Jobert'	C3	7/m²	16 -
Aquilegia vulgaris var. stellata 'White Barlow'	C3	Counted	45 -
Aster frikartii 'Monch'	C3	5/m²	223 -
Astilbe 'Snowdrift'	C3	7/m²	224 -
Astrantia 'Large White'	C3	Counted	136 -
Astrantia Claret	C3	Counted	132 -
Astrantia major 'Claret'	C3	Counted	26 -
Bergenia 'Bressingham White'	C3	7/m²	1039 -
Bergenia cordifolia	C3	7/m²	70 -
Crocosmia x c 'George Davison'	C3	7/m²	1732 -
Echinacea purpurea 'Magnus'	C3	Counted	45 -
Helleborus niger	C3	7/m²	411 -
Heuchera 'Green Marmalade'	C3	7/m²	997 -
Monarda 'Croftway Pink'	C3	5/m²	56 -
Pachysandra terminalis 'Green Carpet'	C3	7/m²	704 -
Persicaria amplexicaulis 'Firetail'	C3	Counted	54 -
Rudbeckia fulgida 'Goldsturm'	C3	Counted	36 -
Rudbeckia fulgida 'Goldsturm'	C3	7/m²	25 -
Salvia officinalis purpurescens	C3	7/m²	246 -
Sedum 'Autumn Joy'	C3	8/m²	113 -
Sedum 'Ruby Glow'	C3	7/m²	36 -
Stachys byzantina 'Silver Carpet'	C3	7/m²	146 -
Tiarella 'Spring Symphony'	C3	7/m²	540 -
Verbena bonariensis	C3	Counted	55 -
Verbena bonariensis	C3	7/m²	8 -
Vinca minor 'Alba'	C3	7/m²	55 -
Vinca minor 'Atropurpurea'	C3	7/m²	149 -
			Total :7384 -

S38 Planting Schedule

PROPOSED TREES

Species	Symbol	Girth	Height	Specification	Qty.
Acer campestre 'Elsrijk'	AcE	18-20cmg	4.0-5.0m	Clear Stem min. 200 :Heavy Standard :RB	4 -
Magnolia grandiflora 'Galissoniére'	MAGGRG	20-25cmg	5.5-6.0m	RB :Clear Stem min. 200	2 -
Pinus wallichiana	Pw	18-20cmg	4.5-5.0m	Extra Heavy Standard :Clear stem 200cm	2 -
Tilia cordata 'Greenspire'	TcG	20-25cmg	4.0-5.0m	Clear Stem min. 200 :Semi-Mature :RB	24 -
					Total :32 -

PROPOSED CLIMBERS

Species	Symbol	Height	Condition	Qty.
Clematis 'Barbara Jackman'	CLEBAJ		3L	1 -
Clematis 'Etoile Violette'	CLEETV		3L	1 -
Clematis 'Pink Fanatasy'	CLEPIF		3L	10 -
Clematis 'Star of India'	CLESTI		5L	1 -
Clematis 'The President'	CLETP		5L	1 -
Clematis armandii	Ca		5L	1 -
Clematis armandii 'Snowdrift'	CaS		10L	17 -
Clematis macropetala 'White Moth'	CLEMAWM		3L	1 -
Clematis montana 'Fragrant Spring'			3L	2 -
Hydrangea seemannii		100-150cm	20L	16 -
Lonicera japonica 'Hall's Prolific'	LiHaP	100-125cm	C15	2 -
Parthenocissus tricopidata 'Veitchii'	PARTRVE		10L	3 -
				Total :66 -

PROPOSED CONIFERS

Species	Height	Condition	Density	Qty.
Thuja plicata 'Fastigiata'	500-600cm		Counted	5 -
				Total :5 -

PROPOSED FERNS

Species	Specification	Condition	Density	Qty.
Dryopteris filix-mas		C3	7/m²	468 -
Dryopteris filix-mas		C3	Counted	15 -
Polystichum setiferum 'Plumosomultilobum Group'	Full Pot	C3	Counted	35 -
				Total :518 -

PROPOSED GRASSES

Species	Specification	Condition	Density	Qty.
Calamagrostis acutiflora 'Karl Foerster'		C3	5/m²	122 -
Carex elata 'Aurea'		C3	7/m²	20 -
Carex testacea	Full Pot	C3	7/m²	819 -
Deschampsia cespitosa	Full Pot	C3	7/m²	506 -
Hakonechloa macra 'Aureola'	Full Pot	C3	9/m²	303 -
Lutula nivea	Full Pot	C3	9/m²	1283 -
Miscanthus sinensis 'Ferner Osten'	Full Pot	C3	3/m²	119 -
Miscanthus sinensis 'Gracillimus'	Full Pot	C3	3/m²	12 -
Molinia caerulea 'Edith Dudzus'	Full Pot	C3	5/m²	576 -
Ophiopogon planiscapus		C3	7/m²	625 -
Stipa tenuissima 'Pony Tails'		C3	7/m²	662 -
				Total :5047 -

PROPOSED MARGINAL MIX

Species	Height	Condition	Density	Mix Species Contribution	Qty.
Carex nigra		1L	0.5Ctr	10%	95 -
Carex riparia		1L	0.5Ctr	10%	95 -
Iris pseudacorus		1L	0.5Ctr	30%	274 -
Lychnis flos-cuculi		1L	0.5Ctr	15%	139 -
Lythrum salicaria		1L	0.5Ctr	15%	139 -
Mentha aquatica		1L	0.5Ctr	15%	139 -
Salix alba		3L	0.5Ctr	5%	49 -
				Total :100%	**Total :930 -**

PROPOSED WOODLAND MIX

Species	Height	Condition	Density	Mix Species Contribution	Qty.
Alnus glutinosa	175-200cm		1.5/m²	34%	828 -
Betula pubescens	175-200cm		1.5/m²	18%	439 -
Carpinus betulus	175-200cm		1.5/m²	7%	171 -
Corylus avellana	60-80cm		1.5/m²	14%	341 -
Crataegus monogyna	175-200cm		1.5/m²	5%	122 -
Frangula alnus	175-200cm		1.5/m²	6%	147 -
Prunus spinosa	80-100cm		1.5/m²	8%	195 -
Quercus robur	175-200cm		1.5/m²	8%	195 -
				Total :100%	**Total :2438 -**

PROPOSED NATIVE SHRUB MIX

Species	Height	Condition	Density	Mix Species Contribution	Qty.
Acer campestre	100-125cm		3/m²	10%	284 -
Cornus sanguinea	40-60cm	BR	3/m²	25%	701 -
Corylus avellana	40-60cm	BR	3/m²	30%	841 -
Crataegus monogyna	60-80cm	BR	3/m²	20%	562 -
Ligustrum vulgare	60-80cm	BR	3/m²	5%	147 -
Malus sylvestris	150-175cm		3/m²	5%	147 -
Rubus fruticosus	40-60cm	BR	3/m²	5%	147 -
				Total :100%	**Total :2829 -**

PROPOSED BULB MIX

Species	Height	Condition	Density	Mix Species Contribution	Qty.
Anemone nemorosa			20/m²	5%	13 -
Anemone nemorosa			7/m²	5%	49 -
Crocus mix			20/m²	20%	50 -
Crocus mix			7/m²	20%	188 -
Galanthus nivalis			20/m²	25%	62 -
Galanthus nivalis			7/m²	25%	235 -
Hyacinthoides non scripta			20/m²	20%	50 -
Hyacinthoides non scripta			7/m²	20%	188 -
Narcissus 'February Gold'			20/m²	15%	38 -
Narcissus 'February Gold'			7/m²	15%	141 -
Narcissus 'Tete a Tete'			20/m²	15%	38 -
Narcissus 'Tete a Tete'			7/m²	15%	141 -
				Total :200%	**Total :1193 -**

PROPOSED NATIVE BUFFER MIX

Species	Height	Condition	Density	Mix Species Contribution	Qty.
Betula pendula	1.0-1.5m		3/m²	5%	160 -
Cornus sanguinea	45-60cm		3/m²	8%	256 -
Corylus avellana	45-60cm		3/m²	15%	480 -
Crataegus monogyna	60-90cm		3/m²	13%	416 -
Euonymus europaeus	100-125cm		3/m²	10%	320 -
Ilex aquifolium	30-45cm	3L	3/m²	10%	320 -
Ligustrum vulgare	80-100cm	3L	3/m²	10%	320 -
Rosa canina	45-60cm		3/m²	12%	384 -
Sambucus nigra	45-60cm		3/m²	12%	384 -
Taxus baccata	1.0-1.25m		3/m²	5%	160 -
				Total :100%	**Total :3200 -**

Refer to D2593-FAB-00-00-DR-L-0321 for S38 Schedule
Refer to D2593-F AB-01a-XX-DR-L-0391 for Phase 1a Schedule

Phase 1A Plant Schedule

PROPOSED TREES

Species	Girth	Height	Specification	Qty.
Carpinus betulus 'Frans Fontaine'	20-25cmg	4.0-5.0m	RB :Clear Stem min. 200 :Heavy Standard	2 -
Corylus columa	18-20cmg		Clear Stem min. 200 :Standard	3 -
Malus 'John Downie'	14-16cmg	3.5-4.0m	RB :Clear Stem 150-175	1 -
Prunus 'Sunset Boulevard'	18-20cmg	4.0 to 5.0m		1 -
Tilia cordata 'Streetwise'	20-25cmg	4.0 to 5.0m	Clear Stem min. 200 :Heavy Standard :RB	5 -
				Total :12 -

PROPOSED SPECIMENS

Species	Height	Condition	Density	Qty.
Anemone hybrida 'Honorine Jobert'		C3	Counted	35 -
Astrantia 'Large White'		C3	Counted	18 -
Astrantia Claret		C3	Counted	9 -
Persicaria amplexicaulis 'Firetail'		C3	Counted	8 -
Rudbeckia fulgida 'Goldsturm'		C3	Counted	28 -
Verbena bonariensis		C3	Counted	7 -
				Total :105 -

PROPOSED SHRUBS

Species	Height	Condition	Density	Qty.	Area
Berberis thunbergii 'Atropurpurea Nana'	30-40cm	C5	5/m²	17 -	3.3795m²
Cistus aguilarii	40-60cm	C5	5/m²	29 -	5.4855m²
Cornus sanguinea 'Midwinter Fire'	60-80cm	C10	3/m²	16 -	4.7567m²
Cornus stolonifera 'Flaviramea'	60-80cm	C10	3/m²	63 -	19.97m²
Euonymus fortunei 'Emerald Gaiety'	30-40cm	C5	5/m²	30 -	5.8184m²
Garrya elliptica 'James Roof'		C3	5/m²	14 -	2.7063m²
Hebe 'Green Globe'	30-40cm	C5	5/m²	43 -	8.2245m²
Hebe 'Midsummer Beauty'	40-60cm	C5	5/m²	67 -	12.9637m²
Hebe 'White Gem'	30-40cm	C5	5/m²	54 -	10.2306m²
Hydrangea quercifolia 'Snow Queen'	40-50cm	C5	5/m²	31 -	6.1226m²
Lavandula angustifolia 'Vera'	30-40cm	C5	5/m²	37 -	7.0663m²
Perovskia 'Blue Spire'	60-80cm	C5	5/m²	101 -	19.8182m²
Philadelphus 'Manteau d'Hermine'	40-60cm	C10	3/m²	14 -	4.3332m²
Prunus laurocerasus	40-60cm	As Supplied	3/m²	22 -	7.0825m²
Rosmarinus officinalis	30-40cm	C5	5/m²	23 -	4.4605m²
Santolina rosmarinifolia 'Lemon Fizz'	30-40cm	C5	5/m²	16 -	3.0596m²
Sarococca confusa	40-60cm	C5	5/m²	22 -	4.1861m²
Viburnum davidii	30-40cm	C5	5/m²	41 -	7.7787m²
				Total :640 -	Total :137.4449m²

PROPOSED HEDGING

Species	Height	Condition	Density	Qty.
Fagus sylvatica	120-150cm	BR	0.5Ctr Double Staggered at 0.5m offset	808 -
				Total :808 -

PROPOSED HERBACEOUS

Species	Spread	Condition	Density	Qty.	Area
Achillea 'Credo'		C3	7/m²	19 -	2.6164m²
Anemone hybrida 'Honorine Jobert'		C3	Counted	35 -	
Aster frikartii 'Monch'		C3	5/m²	36 -	7.0691m²
Astrantia 'Large White'		C3	Counted	18 -	
Astrantia Claret		C3	Counted	9 -	
Bergenia 'Bressingham White'		C3	7/m²	39 -	5.3439m²
Crocosmia x c 'George Davison'		C3	7/m²	139 -	19.2642m²
Heuchera 'Green Marmalade'		C3	7/m²	12 -	1.5871m²
Pachysandra terminalis 'Green Carpet'		C3	7/m²	49 -	6.7949m²
Persicaria amplexicaulis 'Firetail'		C3	Counted	8 -	
Rudbeckia fulgida 'Goldsturm'		C3	Counted	28 -	
Tiarella 'Spring Symphony'		C3	7/m²	35 -	4.7826m²
Verbena bonariensis		C3	Counted	7 -	
Vinca minor 'Atropurpurea'		C3	7/m²	99 -	14.0541m²
				Total :533 -	Total :61.5124m²

PROPOSED CLIMBERS

Species	Height	Condition	Qty.
Clematis 'Pink Fanatasy'		3L	3 -
Clematis armandii 'Snowdrift'		10L	3 -
Hydrangea seemannii	100-150cm	20L	2 -
			Total :8 -

PROPOSED GRASSES

Species	Specification	Condition	Density	Qty.	Area
Carex testacea	Full Pot	C3	7/m²	91 -	12.5877m²
Hakonechloa macra 'Aureola'	Full Pot	C3	9/m²	51 -	5.4881m²
Lutula nivea	Full Pot	C3	9/m²	50 -	5.4827m²
Molinia caerulea 'Edith Dudzus'	Full Pot	C3	5/m²	60 -	11.1752m²
Ophiopogon planiscapus		C3	7/m²	21 -	2.817m²
				Total :273 -	Total :37.55

NATIVE SCRUB

Species	Specification	Density	Percentage	Qty.	Area
Betula pendula	Feather :BR	3/m²	5%	5 -	1.6205m²
Cornus sanguinea	tpt	3/m²	8%	8 -	2.5928m²
Corylus avellana	tpt	3/m²	15%	15 -	4.861m²
Crataegus monogyna	tpt	3/m²	13%	13 -	4.2132m²
Euonymus europaeus	Feather	3/m²	10%	10 -	3.2406m²
Ilex aquifolium	C	3/m²	10%	10 -	3.2406m²
Ligustrum vulgare	Branched	3/m²	10%	10 -	3.2406m²
Rosa canina	tpt	3/m²	12%	12 -	3.8891m²
Sambucus nigra	tpt	3/m²	12%	12 -	3.8891m²
Taxus baccata	RB	3/m²	5%	5 -	1.6205m²
			Total :100%	Total :100 -	Total :32.40

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 carried out.
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 size 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 size 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.

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 scarified using a notched 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 too deep.
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 surface.

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 adequate soil structure 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. Subterranean 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 3no untreated softwood stakes 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 tying 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 (refer to details) 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 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 Q4PRN) 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. All trees to be planted in accordance with BS 8545:2014 *'Trees: from nursery to independence in the landscape.'*

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:

Tree size	Rootball Size	Tree pit size (length, width, depth)
8-10 cmg	40x40cm	70x70x65cm
10-12 cmg	40x40cm	70x70x65cm
12-14 cmg	50x50cm	80x80x65cm
14-16 cmg	50x50cm	80x80x65cm
16-18 cmg	50x50cm	80x80x65cm
18-20 cmg	60x60cm	80x80x75cm
20-25 cmg	70x60cm	90x90x75cm
25-30 cmg	80x60cm	100x100x75cm
30-35 cmg	90x60cm	110x110x75cm
35-40 cmg