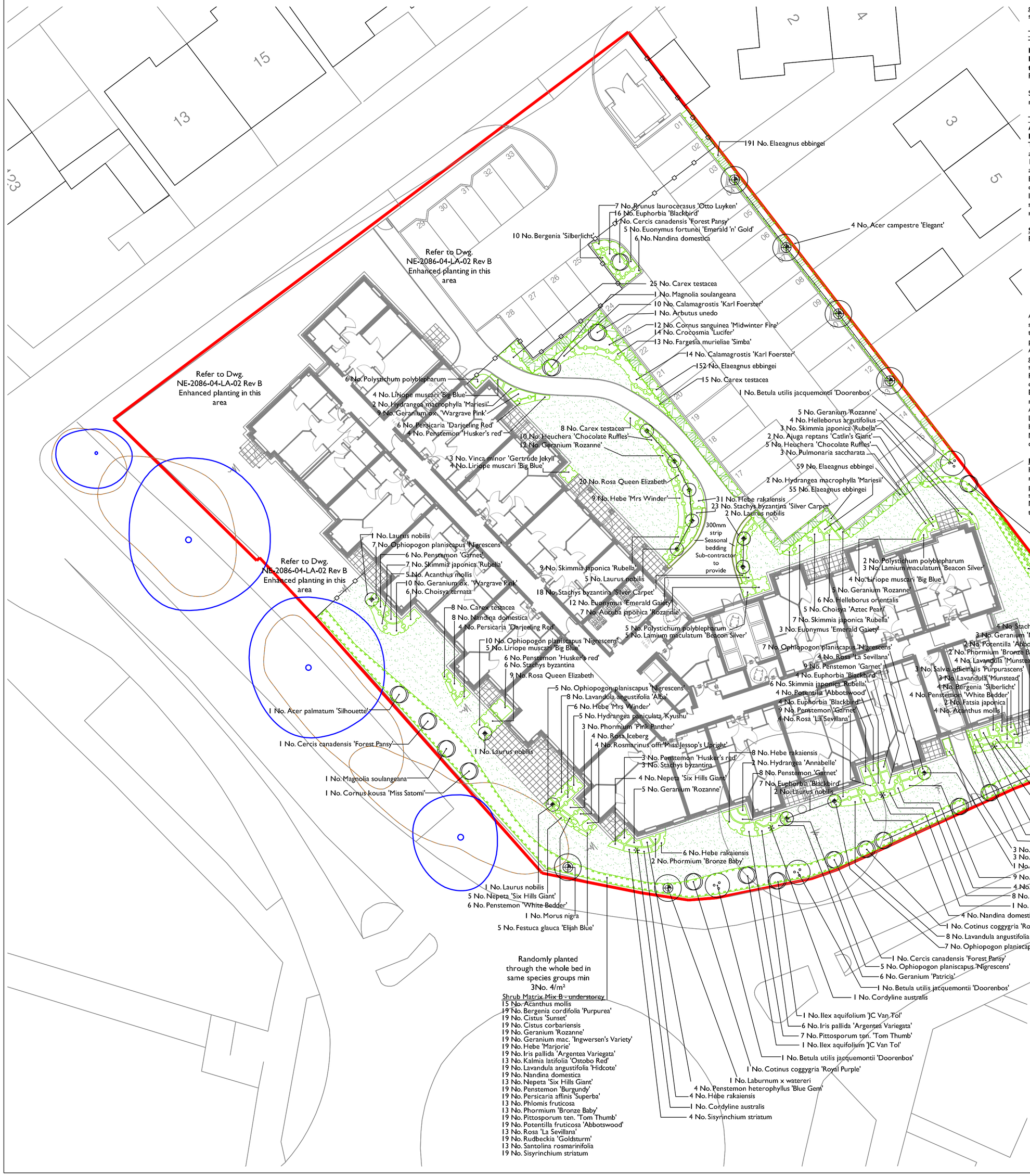


Refer to Dwg. NE-2086-04-LA-02 Rev B Enhanced planting in this area

Refer to Dwg. NE-2086-04-LA-02 Rev B Enhanced planting in this area

Refer to Dwg. NE-2086-04-LA-02 Rev B Enhanced planting in this area

Randomly planted through bed in same species groups min 3No. 4/m²

Shrub Matrix Mix A - Understorey
6 No. Acanthus mollis
7 No. Bergenia cordifolia 'Purpurea'
7 No. Cistus 'Sunset'
7 No. Cistus corbariensis
7 No. Geranium ox. 'Wargrave Pink'
7 No. Geranium mac. 'Ingwersen's Variety'
7 No. Hebe 'Marjorie'
7 No. Iris pallida 'Argentea Variegata'
5 No. Kalmia latifolia 'Ostobo Red'
7 No. Lavandula angustifolia 'Hidcote'
7 No. Nandina domestica
5 No. Nepeta 'Six Hills Giant'
7 No. Penstemon 'Burgundy'
7 No. Persicaria affinis 'Superba'
5 No. Phlomis fruticosa
5 No. Phormium 'Bronze Baby'
7 No. Pittosporum ten. 'Tom Thumb'
7 No. Potentilla fruticosa 'Abbotswood'
7 No. Rosa 'La Sevillana'
7 No. Rudbeckia 'Goldsturm'
5 No. Santolina rosmarinifolia
7 No. Sisyrinchium striatum

Randomly planted in singles and same species groups max 3No. 1.5/m²

Shrub Matrix Mix A - upper
3 No. Berberis thunbergii 'Atropurpurea'
3 No. Buddleia globosa
4 No. Calamagrostis acutiflora 'Karl Foerster'
3 No. Callistemon citrinus
2 No. Chaenomeles superba 'Crimson & Gold'
3 No. Cornus alba 'Kesselringii'
3 No. Cotinus 'Grace'
3 No. Elaeagnus ebbingei
3 No. Escallonia 'Apple Blossom'
4 No. Kniphofia caulescens
4 No. Miscanthus sinensis 'Gracillimus'
3 No. Philadelphus 'Virginal'
3 No. Phormium 'Sundowner'
3 No. Photinia fraseri 'Red Robin'
3 No. Physocarpus opulifolius 'Diablo'
3 No. Pittosporum tenuifolium
3 No. Syringa vulgaris 'Mme Lemoine'
3 No. Viburnum plicatum 'Mariesii'

Randomly planted through the whole bed in same species groups min 3No. 4/m²

Shrub Matrix Mix B - understorey
15 No. Acanthus mollis
19 No. Bergenia cordifolia 'Purpurea'
19 No. Cistus 'Sunset'
19 No. Cistus corbariensis
19 No. Geranium 'Rozanne'
19 No. Geranium mac. 'Ingwersen's Variety'
19 No. Hebe 'Marjorie'
19 No. Iris pallida 'Argentea Variegata'
13 No. Kalmia latifolia 'Ostobo Red'
19 No. Lavandula angustifolia 'Hidcote'
19 No. Nandina domestica
13 No. Nepeta 'Six Hills Giant'
19 No. Penstemon 'Burgundy'
19 No. Persicaria affinis 'Superba'
13 No. Phlomis fruticosa
13 No. Phormium 'Bronze Baby'
19 No. Pittosporum ten. 'Tom Thumb'
19 No. Potentilla fruticosa 'Abbotswood'
13 No. Rosa 'La Sevillana'
19 No. Rudbeckia 'Goldsturm'
13 No. Santolina rosmarinifolia
19 No. Sisyrinchium striatum

Sales Entrance Planting

2No. 1.5m spiral cypress trees in 49cm Versailles hardwood timber planters www.primrose.co.uk or similar approved with sufficient numbers of single colour seasonal bedding plants to fill the space around the stem of each tree. Bedding to be replaced 3No. times through the year. Boxes supplied with sufficient compost and 'swellgell' to plant trees and bedding.

Planting specification

*Prior to supply and spreading of topsoil, all subsoil areas are to be ripped (subject to site specific geology) to alleviate compaction and improve aeration in accordance with BS 3882:2015 British standard for Topsoil, Annex A Recommendations for stripping, handling and preparing topsoil.

Topsoil

The topsoil is to comply with the British Standard BS 3882:2015 definition for Multipurpose grade topsoil, and is to be accompanied with a test certificate and horticultural analysis summary for approval by the landscape architect prior to delivery to site.
Provide a minimum of one week's notice.

Shrub areas are to receive topsoil minimum 450mm depth after compaction. Grass areas to receive minimum 150mm depth after compaction.

Trees

All plant material is to be inspected by the landscape architect prior to delivery to site. Provide a minimum of one week's notice.
Trees shall be set in pits 1200mm dia x 900mm depth, backfilled with a mixture of approved topsoil and tree and shrub planting compost at the rate of one part compost to two parts topsoil and 70 - 140g/m² Osmocote, Sierrablen Flora 15-9-9 + 3% MgO granular controlled release, or similar approved.
Each tree shall be planted to the original depth and secured by two stakes 1.4m in length and a timber cross bar with soft rubber block and belting. After planting all trees shall be watered in and a mulch layer of Ornamental Bark Mulch 5-35mm with minimal dust and fines and less than 5% wood content spread over the tree pit to 50mm depth. Allow one clear spiral guard and one 2.5m x 35mm Root rain Metro watering pipe per tree. - Supplier Greentech Tel: 01423 332100 or similar approved.

Shrub planting

PLANTS - GENERAL
- Condition: Materially undamaged, sturdy, healthy and vigorous.
- Appearance: Of good shape and without elongated shoots.
- Hardiness: Grown in a suitable environment and hardened off.
- Health: Free from pests, diseases, discoloration, weeds and physiological disorders.
- Budded or grafted plants: Bottom worked.
- Root system and condition: To requirements of National Plant Specification and balanced with branch system.

All shrubs shall be set out to the positions shown on the drawing and to the densities given. All stock shall comply with the specification provided on the drawing. Plants unobtainable or known to be likely to be unobtainable at time of ordering: Submit alternatives, stating: Price; difference from specified plants/ trees. Obtain approval before making any substitution.
All shrub beds shall be topped up with good quality topsoil to ensure 450mm planting depth the base ground being thoroughly broken up before placement. Tree and shrub planting compost shall be spread to a minimum depth of 50mm and in addition evenly spread, 70 -140g/m² Osmocote, Sierrablen Flora 15-9-9 + 3% MgO granular controlled release, or similar approved, thoroughly working in during cultivation.
Excavate shrub planting pits 150 mm wider than roots when fully spread. Backfill with excavated material.
After planting thoroughly water immediately without damaging or displacing plants or soil.
Lightly firm soil around plants and fork and/ or rake soil, to a fine tilth with gentle cambers and no hollows. Avoid damaging plants. Mulch planting all beds to a depth of 75mm with ornamental Bark Mulch 5-35mm with minimal dust and fines and less than 5% wood content. The mulch should be free of pests, disease, fungus and weeds.

Hedges

Hedge trenches are to be 450mmx450mmx450mm the base of which shall be broken up prior to returning the backfill mixture. This shall comprise two parts topsoil to one part tree and shrub planting compost. Stock shall be planted at the distances given in the schedules in single rows. All stock shall be planted to the root collar and well firmed in place. After planting, a 50mm layer of Melcourt ornamental bark or equal approved shall be spread over the trench. All stock shall be thoroughly watered in.

Turfing

All areas to be turfed shall be topsoiled to a minimum depth of 150mm over ground free of compaction by cultivation. The soil shall be fine graded to even running falls and cross raked to form a fine tilth. Before turfing an approved pre-turfing fertiliser shall be applied in accordance with the manufacturer's instructions. All edges to shrub beds will be cleanly cut with an edging iron, arisings removed from site.

Maintenance

Carry out the operations in the following clauses for **a period of 12 months** from the date of practical completion.
Plants/ trees/ shrubs that have failed to thrive (unless due to theft or malicious damage) within the 12 month period from the date of practical completion will be replaced with equivalent plants/ trees/ shrubs to match the original.
Remove soil and arisings from hard surfaces and grassed areas. Generally leave the works in a clean tidy condition at Completion and after any maintenance operations.
Maintain weed free area around each tree and shrub. Keep planting beds clear of weeds: by hoeing. Fork over beds as necessary to keep soil loose, with gentle cambers and no hollows. Take care not to reduce depth or effect of mulch.
Gently firm loosened soil around trees/ shrubs. Straighten leaning trees/ shrubs. Tighten and straighten stakes if required.
Prune to promote healthy growth and natural shape removing: Dead, dying, diseased wood and suckers. Remove arisings.
Trim and shape each specimen appropriately to species, location, season, and stage of growth, leaving a well balanced natural appearance.
All shrub beds shall be thoroughly watered as necessary for the continued thriving of all planting. In times of water shortage obtain instructions before proceeding.
Re-mulch at the end of the 12 maintenance period to a depth of 75mm ensuring that the soil is thoroughly moistened prior to re-mulching.
All planting shall be maintained in good order throughout the initial establishment period.
Twice a month between May and September and a total of three visits between October and April.
Grass areas are to be cut and the cuttings collected up and carted off.
Grass areas with bulbs are to be left uncut for at least six weeks after final flowering.
Grass with wildflower seeded areas are to be cut to a height of 50mm every two months or when the sward reaches 150mm. All arisings are be removed. Spot treat persistent weeds with glyphosate.

In future years wildflower areas are to be cut twice a year. First cut to a height of 75mm in March/April and the second cut after flowering to a height of 75mm in August/October. All the cuttings are to be removed.

Plant Schedules

Trees

Number	Species	Girth	Height	Pot Size	Specification
4 No.	Acer campestre 'Elegant'	14-16cm	4.0-4.5m	75-80L	C :Extra Heavy Standard
1 No.	Acer palmatum 'Osakazuki'		125-150cm	18L	C
1 No.	Acer palmatum 'Silhouette'		125-150cm	18L	C
2 No.	Amelanchier lamarkii		150-175cm	35L	C
1 No.	Arbutus unedo		175-200cm	45L	C
4 No.	Betula utilis jacquemontii 'Doorenbos'		300-350cm	80L	Multi-Stemmed :C
3 No.	Cercis canadensis 'Forest Pansy'		150-175cm	12L	C
6 No.	Ilex aquifolium 'JC Van Tol'		150-175cm	45L	C
1 No.	Laburnum x watereri	14-16cm	4.0-4.5m	80L	Extra Heavy Standard :C
13 No.	Laurus nobilis			35L	Standard :50cm head :C
3 No.	Magnolia soulangeana		125-150cm	45L	C
2 No.	Morus nigra	14-16cm	4.0-5.0m	80L	Extra Heavy Standard :C

Total :41 No.

Hedges

Number of Plants	Species	Pot Size	Height	Specification	Density
457 No.	Elaeagnus ebbingei	3L	Selected to 80cm	C	5/m

Total :457 No.

Shrubs

Number	Species	Pot Size	Height	Specification
7 No.	Aucuba japonica 'Rozannie'	3L	30-40cm	C
3 No.	Berberis thunbergii 'Atropurpurea'	3L	40-60cm	C
3 No.	Buddleia globosa	3L	40-60cm	C
3 No.	Callistemon citrinus	3L	40-60cm	C
2 No.	Chaenomeles superba 'Crimson & Gold'	3L	40-60cm	C
5 No.	Choisya 'Aztec Pearl'	3L	30-40cm	C
6 No.	Choisya ternata	3L	30-40cm	C
26 No.	Cistus 'Sunset'	2L	20-30cm	C
26 No.	Cistus corbariensis	2L	20-30cm	C
4 No.	Cordyline australis	10L	60-80cm	C
3 No.	Cornus alba 'Kesselringii'	3L	40-60cm	C
1 No.	Cornus kousa 'China Girl'	45L	150-175cm	C
2 No.	Cornus kousa 'Miss Satomi'	45L	150-175cm	C
12 No.	Cornus sanguinea 'Midwinter Fire'	3L	40-60cm	C
3 No.	Cotinus 'Grace'	3L	30-40cm	C
2 No.	Cotinus coggygria 'Royal Purple'	35L	100-125cm	C
3 No.	Elaeagnus ebbingei	3L	40-60cm	C
3 No.	Escallonia 'Apple Blossom'	3L	40-60cm	C
15 No.	Euonymus 'Emerald Gaiety'	3L	20-30cm	C
5 No.	Euonymus fortunei 'Emerald 'n' Gold'	3L	20-30cm	C
2 No.	Fatsia japonica	10L	60-80cm	C
26 No.	Hebe 'Marjorie'	2L	20-30cm	C
21 No.	Hebe 'Mrs Winder'	3L	20-30cm	C
49 No.	Hebe rakaiensis	3L	20-30cm	C
2 No.	Hydrangea 'Annabelle'	3L	40-60cm	C
4 No.	Hydrangea macrophylla 'Mariesii'	10L	40-60cm	C
5 No.	Hydrangea paniculata 'Kyushu'	5L	30-40cm	C
18 No.	Kalmia latifolia 'Ostobo Red'	3L	20-30cm	C
7 No.	Lavandula 'Munstead'	3L	20-30cm	C
25 No.	Lavandula angustifolia 'Alba'	3L	20-30cm	C
26 No.	Lavandula angustifolia 'Hidcote'	2L	15-20cm	C
22 No.	Nandina domestica	3L	40-60cm	C
26 No.	Nandina domestica	2L	20-30cm	C
3 No.	Philadelphus 'Virginal'	3L	60-80cm	C
18 No.	Phlomis fruticosa	2L		C
22 No.	Phormium 'Bronze Baby'	3L	40-60cm	C
5 No.	Phormium 'Pink Panther'	10L	60-80cm	C
3 No.	Phormium 'Sundowner'	3L	40-60cm	C
3 No.	Photinia fraseri 'Red Robin'	3L	30-40cm	C
3 No.	Physocarpus opulifolius 'Diablo'	2L	20-30cm	C
7 No.	Pittosporum ten. 'Tom Thumb'	2L	20-30cm	C
26 No.	Pittosporum ten. 'Tom Thumb'	2L	20-30cm	C
3 No.	Pittosporum tenuifolium	3L	40-60cm	C
6 No.	Potentilla 'Abbotswood'	3L	20-30cm	C
26 No.	Potentilla fruticosa 'Abbotswood'	3L	20-30cm	C
7 No.	Prunus laurocerasus 'Otto Luyken'	3L	30-40cm	C
8 No.	Rosa 'La Sevillana'	3L	40-60cm	C
18 No.	Rosa 'La Sevillana'	2L	40-60cm	C
4 No.	Rosa Iceberg	2L	40-60cm	C
29 No.	Rosa Queen Elizabeth	3L	40-60cm	C
4 No.	Rosmarinus offi.'Miss Jessop's Upright'	3L	40-60cm	C
3 No.	Salvia officinalis 'Purpurascens'	2L	30-40cm	C
18 No.	Santolina rosmarinifolia	2L	20-30cm	C
32 No.	Skimmia japonica 'Rubella'	3L	20-30cm	C
3 No.	Syringa vulgaris 'Mme Lemoine'	3L	30-40cm	C
3 No.	Viburnum plicatum 'Mariesii'	3L	30-40cm	C
3 No.	Vinca minor 'Gertrude Jekyll'	2L	15-20cm	C

Total :624 No.

Bamboos

Number	Species	Pot Size	Height	Specification	Density
13 No.	Fargesia murielae 'Simba'	3L	40-60cm	C	4/m²

Total :13 No.

Herbaceous

Number	Species	Pot Size	Specification
30 No.	Acanthus mollis	2L	Full Pot
2 No.	Ajuga reptans 'Catlin's Giant'	2L	Full Pot
14 No.	Bergenia 'Silberlicht'	3L	Full Pot
26 No.	Bergenia cordifolia 'Purpurea'	2L	Full Pot
24 No.	Calamagrostis 'Karl Foerster'	2L	Full Pot
4 No.	Calamagrostis acutiflora 'Karl Foerster'	2L	Full Pot
61 No.	Carex testacea	2L	Full Pot
14 No.	Crocosmia 'Lucifer'	2L	Full Pot
31 No.	Euphorbia 'Blackbird'	2L	Full Pot
5 No.	Festuca glauca 'Elijah Blue'	2L	Full Pot
14 No.	Geranium 'Miss Heidi'	2L	Full Pot
6 No.	Geranium 'Patricia'	2L	Full Pot
53 No.	Geranium 'Rozanne'	2L	Full Pot
26 No.	Geranium mac. 'Ingwersen's Variety'	2L	Full Pot
19 No.	Geranium ox. 'Wargrave Pink'	2L	Full Pot
4 No.	Helleborus argutifolius	2L	Full Pot
6 No.	Helleborus orientalis	2L	Full Pot
15 No.	Heuchera 'Chocolate Ruffles'	2L	Full Pot
32 No.	Iris pallida 'Argentea Variegata'	2L	Full Pot
4 No.	Kniphofia caulescens	2L	Full Pot
8 No.	Lamium maculatum 'Beacon Silver'	2L	Full Pot
17 No.	Liriope muscari 'Big Blue'	2L	Full Pot
4 No.	Miscanthus sinensis 'Gracillimus'	2L	Full Pot
27 No.	Nepeta 'Six Hills Giant'	2L	Full Pot
41 No.	Ophiopogon planiscapus 'Nigrescens'	2L	Full Pot
26 No.	Penstemon 'Burgundy'	2L	Full Pot
32 No.	Penstemon 'Garnet'	2L	Full Pot
16 No.	Penstemon 'Husker's red'	2L	Full Pot
10 No.	Penstemon 'White Bedder'	2L	Full Pot
4 No.	Penstemon heterophyllus 'Blue Gem'	2L	Full Pot
10 No.	Persicaria 'Darjeeling Red'	2L	Full Pot
26 No.	Persicaria affinis 'Superba'	2L	Full Pot
4 No.	Phlomis russeliana	2L	Full Pot
3 No.	Pulmonaria saccharata	2L	Full Pot
26 No.	Rudbeckia 'Goldsturm'	2L	Full Pot
8 No.	Sedum 'Ruby Glow'	2L	Full Pot
30 No.	Sisyrinchium striatum	2L	Full Pot
16 No.	Stachys byzantina	2L	Full Pot
41 No.	Stachys byzantina 'Silver Carpet'	3L	Full Pot

Total :739 No.

Ferns

Number	Species	Pot Size	Specification	Density
13 No.	Polystichum polyblepharum	2L	Full Pot	5/m²

Total :13 No.

Key

- Existing trees with root protection areas
- Grass - turf
- Proposed hedge
- Proposed shrub mix
- Proposed ornamental shrub planting
- Proposed tree standard
- Proposed tree extra heavy standard 14-16cm girth
- Proposed tree multi stemmed
- Large specimen shrub

NORTH

SMEEDEN FOREMAN

Project: McCarthy & Stone, South Shields — SF 2521
Title: Landscape Proposals
Scale 1:200 @A1 Drawn by TM
Date June 2016 Checked IB
Drawing No. NE-2086-05-LA-01 Rev

Landscape Architects - Urban Designers
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