

#### General landscaping

Existing levels to be preserved around retained existing trees and vegetation. Existing trees and vegetation to be retained are to be protected in accordance with BS5637 during construction. All landscape works to be undertaken by competent persons, with appropriate training and equipment.

#### Services

The contractor must ascertain for themselves the exact location of underground services before commencing work.

#### Topsoil

Topsoil to be handled (i.e. excavated and/or imported, stored, spread, cultivated) in accordance with method agreed in writing by Landscape Architect prior to work commencing. Ameliorants to be as determined by analysis. If poor drainage is suspected in existing soil surfaces, these should be stored prior to planting, turling and seeding to a depth of 300mm to remove likelihood of compaction and damage to new planting and turf. Where topsoil is to be imported, soil medium parameters to be within the following:

|                                     |               |
|-------------------------------------|---------------|
| Soil texture                        | sand 20-75%   |
|                                     | silt 5-60%    |
|                                     | clay 5-30%    |
| Maximum stone size in any direction | 50mm          |
| pH                                  | 5.5 - 7.8     |
| Electrical conductivity             | 100-900 uS/cm |
| Organic matter                      | > 4%          |
| Nitrogen                            | > 0.2%        |
| Phosphorus                          | > 26 mg/l     |
| Potassium                           | > 240 mg/l    |
| Magnesium                           | > 50 mg/l     |

Imported topsoil to be a good quality loam to BS 3862 or manufactured topsoil. All topsoil areas shall be thoroughly cultivated by hand or suitable machinery to the full depth of the topsoil layer, incorporating ameliorants as specified and/or as indicated by analysis and in accordance with BS 3862. Hand cultivations shall be carried out to achieve the required finish on areas where machine cultivation is impossible i.e. adjacent to kerbs, manholes and footpath junctions etc. Surplus plant matter, rubbish and surface stones having any dimension greater than 25 mm shall be collected and removed from the site. Existing topsoil to be stripped and re-used if suitable as per specification. Topsoil to be stored in heaps, maximum of 4m in height, providing soil is reasonably dry and friable during stripping and handling - using a tracked excavator. To protect from wet weather once final height is achieved, an excavator should regrade the sides and top of stockpile to firm surface by tracking across it to form a smooth gradient.

#### Fertilizer/Compost

Approved (peat free) composts to PAS100 and fertilizers to be added during cultivation as required to full depth of growing medium.

#### Plant Handling

Plant handling at the nursery, and during transit up to delivery, shall be in accordance with 'Plant Handling', the booklet published by the Committee for Plant Supply and Establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the Horticulture Trades Association, 19 High Street, Theale, Reading, Berks RG7 5H) which refers to the receipt, unloading and temporary storage of plants. General plant stock to conform to BS 3936, advanced nursery stock to BS 5236, and planting to BS 4428. Plants shall be first class examples of their species or variety, free from all pests and diseases, with good form, root systems and materially undamaged (refer to relevant sections of BS 3936 Parts 1-4 'Specification of Nursery Stock'). All planting operations to be in general compliance with BS 4428: 1989 Code of Practice for general landscape operations (excluding hard surfaces). Carry out all planting while soil and weather conditions are suitable:

- Do not plant during periods of frost or strong winds. Plant only during the following periods:
- Deciduous and conifer trees: Late October to late March.
- Container grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering and weed control is provided.

• Bulbs: September/October.

Setting out of planting beds to be approved by Landscape Architect before work commences. Ensure that plant beds are neatly defined, and rise from adjacent paved areas. All ornamental planting areas to be mulched with 75mm (settled depth) bark mulch. Sample of mulch to be approved by Landscape Architect. Topsoil depth to be 300mm for planting and 150mm for grass.

#### Trees

Trees shown on plan to be planted with species as labelled or similar approved. All trees to be planted in pits 1m x 1m x 0.9m deep backfilled with 500mm depth 80% clean topsoil and 20% approved green compost to PAS100 and 100 gms granular fertilizer, over 400mm washed medium coarse grade sand bed to base of pit. Water-in heavily after planting and surface mulched 75mm depth. Unless noted above as requiring underground guying, all trees to be double staked and tied and multi stems diagonal single stake. Sample of staking for each species to be approved. Tree stakes to be shanked back. Any necessary tree works are to be carried out by an approved tree surgeon to BS 3998. Trees planted in grass lawn to be set in bare earth circles, 1m diameter around tree trunk, with turf trimmed neatly to form circle, and each mulched with approved bark mulch to 75mm depth after planting.

#### Shrub Herbaceous & Ground Cover Planting

All plants to be planted in cultivated planting beds at densities shown in plant schedule, in pits of min. size 0.3m x 0.3m x 0.3m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% approved green compost to PAS100 and 20 gms granular fertilizer. All shrub beds to be in min. 300mm good quality, well prepared topsoil and to be mulched with 75mm depth approved bark mulch after planting.

#### Climbers

All climbers to be planted in pit of min. size 0.4m x 0.4m x 0.4m deep so as to accommodate full root spread, backfilled with 80% clean topsoil and 20% approved green compost to PAS100 and 20 gms granular fertilizer. Cut semicircular bed against fence of 0.5m radius and mulch with 75mm depth approved bark mulch after planting. All plants to be planted with trellis/cane supports in situ and trained to adjacent wall or fence with steel wires provided where climbers in 3 horizontal rows.

#### Grass/Turf

Turfing and seeding shall be carried out only during appropriate seasons and while soil and weather conditions are suitable for the relevant operations. Only machinery and tools suitable for the site conditions and the work to be carried out shall be used. Hand tools shall be used around trees, plants and in confined spaces where it is impractical to use machinery. The soil shall be weed free prior to turfing and seeding. Contact herbicide as specified should be applied to all areas of weed growth 4-6 weeks before grassing and repeated if necessary to maintain a weed free bed. Where deep rooted weeds are present (dock, thistles etc.) approved Glyphosate-based herbicide should be applied as a spot treatment. Turf shall be laid on prepared, levelled soil (minimum 150mm depth) in the areas indicated on the drawings in accordance with BS 4428: 1989. All grass areas to be approved landscape quality turf for external areas and lawn turf for internal garden areas, or equivalent seed.

#### Maintenance

Establishment maintenance for all planting for 5 years from Practical Completion (first year to be carried out by installing contractor) to include weed control, watering and replacement of failures to original specification in the planting season following failure. All plant material to receive annual pruning and hedges and groundcover to be trained and edged with minimum 2 trims per year. All plant material to receive annual pruning and groundcover to be trained and edged with minimum 2 trims per year. Mowing is to be carried out using approved machinery to maintain the vegetation length within the limits of 30 mm and 50 mm during April to August inclusive and between 50 mm and 70 mm during the rest of the year.



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#### LEGEND

|  |                                                 |
|--|-------------------------------------------------|
|  | Existing trees to be retained                   |
|  | Existing trees to be removed                    |
|  | Planting bed                                    |
|  | Amenity grass                                   |
|  | Pyrus calleryana 'Chariticeer'<br>18-20cm girth |
|  | Betula utilis jacquemontii<br>18-20cm girth     |
|  | Clematis 'Etoile de Hollande'                   |
|  | Rosa 'Teasing Georgia'                          |



| Stock | Quantity | Item | Size | Height (cm) | Notes | Density/m2 |
|-------|----------|------|------|-------------|-------|------------|
|-------|----------|------|------|-------------|-------|------------|

|       |   |                                |             |      |                                           |         |
|-------|---|--------------------------------|-------------|------|-------------------------------------------|---------|
| Trees | 3 | Betula utilis jacquemontii     | 18-20 Girth | 450+ | 3x standard (extra-heavy) clear stem 200+ | Counted |
|       | 6 | Pyrus calleryana 'Chariticeer' | 18-20 Girth | 450+ | 3x standard (extra-heavy) clear stem 200+ | Counted |
|       | 9 |                                |             |      |                                           |         |

|        |     |                                               |    |       |                                  |       |
|--------|-----|-----------------------------------------------|----|-------|----------------------------------|-------|
| Shrubs | 26  | Aucuba japonica 'Crotonifolia'                | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 9   | Ceanothus 'Blue Mound'                        | 2L | 20-30 | Bushy min. 4 break               | C 3m2 |
|        | 7   | Ceanothus 'Glorie de Versailles'              | 2L | 20-30 | Leader with 3 break              | C 3m2 |
|        | 5   | Ceanothus 'Impressus'                         | 2L | 20-30 | Bushy min. 4 break               | C 3m2 |
|        | 9   | Chionodoxa japonica                           | 2L | 20-30 | Bushy min. 2 break               | C 3m2 |
|        | 8   | Choisya 'Aztec Pearl'                         | 2L | 20-30 | Bushy min. 5 break               | C 3m2 |
|        | 12  | Choisya 'Ternata'                             | 2L | 20-30 | Bushy min. 5 break               | C 3m2 |
|        | 12  | Cistus 'pulchellus' 'Sunset'                  | 2L | 15-20 | Bushy min. 4 break               | C 3m2 |
|        | 13  | Cistus 'Silver Pink'                          | 2L | 20-30 |                                  | C 3m2 |
|        | 5   | Cotinus 'Sagittalis' 'Royal Purple'           | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 7   | Deutzia 'magnifica' 'Staphyleoides'           | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 9   | Deutzia 'rosa'                                | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 24  | Elaeagnus 'ebbinge'                           | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 7   | Escallonia 'Apple Blossom'                    | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 11  | Escallonia 'Donard Seeding'                   | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 14  | Eucynthus fortunei 'Silver Queen'             | 2L | 20-30 | Bushy min. 5 break               | C 3m2 |
|        | 9   | Hebe 'E. A. Bowles'                           | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 3   | Hebe 'Francisca' 'Blue Gem'                   | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 13  | Hydrangea arborescens 'Grandiflora'           | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 23  | Hydrangea 'Snoqualmie' 'Snowflake'            | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 11  | Hypericum calycinum                           | 2L | 20-30 | Bushy min. 5 break               | C 3m2 |
|        | 9   | Hypericum 'J.C. Van Tol'                      | 2L | 40-60 | Leader with lateral              | C 3m2 |
|        | 25  | Lavandula angustifolia 'Hidote'               | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 21  | Lavandula 'Grappenhall'                       | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 16  | Mahonia aquifolium 'Apollo'                   | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 32  | Osmorhiza burkwoodii                          | 2L | 30-40 | Bushy min. 3 break               | C 3m2 |
|        | 11  | Osmorhiza heterophyllus 'Aureomarginatus'     | 2L | 20-30 | Branched min. 3 break            | C 3m2 |
|        | 7   | Philadelphus coronarius 'Aureus'              | 2L | 20-30 | Branched min. 3 break            | C 3m2 |
|        | 14  | Philadelphus 'Lemonie'                        | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 9   | Photostylum tenuifolium 'Silver Queen'        | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 14  | Pyracantha coccinea                           | 2L | 20-30 | Leader with lateral min. 3 break | C 3m2 |
|        | 7   | Pyracantha 'Orange Glow'                      | 2L | 40-60 | Leader with 3 break              | C 3m2 |
|        | 16  | Romarinus officinalis 'Miss Jessop's Upright' | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 10  | Sarcococca confusa                            | 2L | 20-30 | Bushy min. 4 break               | C 3m2 |
|        | 16  | Samolus confusus 'Kew Green'                  | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 13  | Skimmia japonica 'Fruco-albo'                 | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 7   | Viburnum x bodnantense 'Dawn'                 | 2L | 20-30 | Branched min. 2 break            | C 3m2 |
|        | 7   | Viburnum davidii                              | 2L | 20-30 | Bushy min. 2 break               | C 3m2 |
|        | 39  | Viburnum tinus 'Eve Price'                    | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 18  | Viburnum plicatum                             | 2L | 20-30 | Bushy min. 3 break               | C 3m2 |
|        | 5   | Weigela 'Bristol Ruby'                        | 2L | 30-40 | Bushy min. 3 break               | C 3m2 |
|        | 5   | Weigela florida 'Variegata'                   | 2L | 30-40 | Branched min. 3 break            | C 3m2 |
|        | 532 |                                               |    |       |                                  |       |

|              |     |                                      |    |  |  |       |
|--------------|-----|--------------------------------------|----|--|--|-------|
| Ground Cover | 7   | Cotoneaster dammeri                  | 1L |  |  | C 3m2 |
|              | 22  | Eucynthus fortunei 'Emerald Gaiety'  | 1L |  |  | C 3m2 |
|              | 9   | Eucynthus fortunei 'Emerald n' Gold' | 1L |  |  | C 3m2 |
|              | 9   | Hebe rakensis                        | 1L |  |  | C 3m2 |
|              | 9   | Hedera helix 'Buttercup'             | 1L |  |  | C 3m2 |
|              | 16  | Hedera helix 'Gold Child'            | 1L |  |  | C 3m2 |
|              | 11  | Hedera helix 'Green Ripple'          | 1L |  |  | C 3m2 |
|              | 18  | Hedera helix 'Manda's Crested'       | 1L |  |  | C 3m2 |
|              | 9   | Loncera pileata                      | 1L |  |  | C 3m2 |
|              | 29  | Pachyandra terminalis                | 1L |  |  | C 3m2 |
|              | 20  | Vincetoxicum 'Gertrude Jekyll'       | 1L |  |  | C 5m2 |
|              | 188 |                                      |    |  |  |       |

|            |     |                                              |    |  |  |       |
|------------|-----|----------------------------------------------|----|--|--|-------|
| Herbaceous | 5   | Acanthus spinosus                            | 2L |  |  | C 3m2 |
|            | 12  | Achillea 'Terracotta'                        | 2L |  |  | C 3m2 |
|            | 10  | Agapanthus 'Headbourne Hybrids'              | 2L |  |  | C 3m2 |
|            | 23  | Alochemilla mollis                           | 2L |  |  | C 3m2 |
|            | 5   | Anemone x hybrida 'Honorine Jobert'          | 2L |  |  | C 3m2 |
|            | 10  | Athyrium filix-femina                        | 2L |  |  | C 3m2 |
|            | 7   | Bergenia 'Silberlicht'                       | 2L |  |  | C 3m2 |
|            | 15  | Caryopteris x clandonensis 'Arthur Simmonds' | 2L |  |  | C 3m2 |
|            | 20  | Epimedium versicolor 'Sulphureum'            | 2L |  |  | C 3m2 |
|            | 7   | Euphorbia amygdaloides 'Purpurea'            | 2L |  |  | C 3m2 |
|            | 17  | Euphorbia characias wulfenii                 | 2L |  |  | C 3m2 |
|            | 16  | Geranium 'Johnson's Blue'                    | 2L |  |  | C 3m2 |
|            | 24  | Geranium macrorrhizum 'Album'                | 2L |  |  | C 3m2 |
|            | 14  | Geranium renardii                            | 2L |  |  | C 3m2 |
|            | 7   | Helenium 'Moerheim Beauty'                   | 2L |  |  | C 3m2 |
|            | 7   | Helleborus orientalis                        | 2L |  |  | C 3m2 |
|            | 5   | Hemerocallis 'Corky'                         | 2L |  |  | C 3m2 |
|            | 8   | Heuchera x scabra 'Palace Purple'            | 2L |  |  | C 3m2 |
|            | 10  | Lilium 'Muscari'                             | 2L |  |  | C 3m2 |
|            | 10  | Nepeta x faassenii 'Six Hills Giant'         | 2L |  |  | C 3m2 |
|            | 7   | Penstemon 'Sour Grapes'                      | 2L |  |  | C 3m2 |
|            | 7   | Perovskia atriplicifolia 'Blue Spire'        | 2L |  |  | C 3m2 |
|            | 12  | Polygonatum x hybridum                       | 2L |  |  | C 3m2 |
|            | 16  | Polystichum setiferum                        | 2L |  |  | C 3m2 |
|            | 23  | Salvia officinalis 'Purpurascens'            | 2L |  |  | C 3m2 |
|            | 5   | Salvia leucantha                             | 2L |  |  | C 3m2 |
|            | 11  | Taraxacum officinale                         | 2L |  |  | C 3m2 |
|            | 310 |                                              |    |  |  |       |

|          |   |                               |    |       |                                        |           |
|----------|---|-------------------------------|----|-------|----------------------------------------|-----------|
| Climbers | 2 | Clematis 'Etoile de Hollande' | 2L | 80-80 | Several shoots, 2 break, cane supports | C Counted |
|          | 2 | Rosa 'Teasing Georgia'        | 2L | 60-80 | Several shoots, 2 break                | C Counted |
|          | 4 |                               |    |       |                                        |           |

|      |       |                                              |  |  |  |  |
|------|-------|----------------------------------------------|--|--|--|--|
| Turf | 329m2 | Supply and install good quality amenity turf |  |  |  |  |
|------|-------|----------------------------------------------|--|--|--|--|



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|         |                             |        |            |
|---------|-----------------------------|--------|------------|
| PROJECT | WATERLOOVILLE               |        |            |
| TITLE   | PLANTING PLAN               |        |            |
| CLIENT  | CHURCHILL RETIREMENT LIVING |        |            |
| SCALE   | 1:200@A1                    | DATE   | 02/07/2015 |
| JOB NO  | 144                         | DWG NO | 144_PP_300 |
| STATUS  | PLANNING                    | REV    | A          |