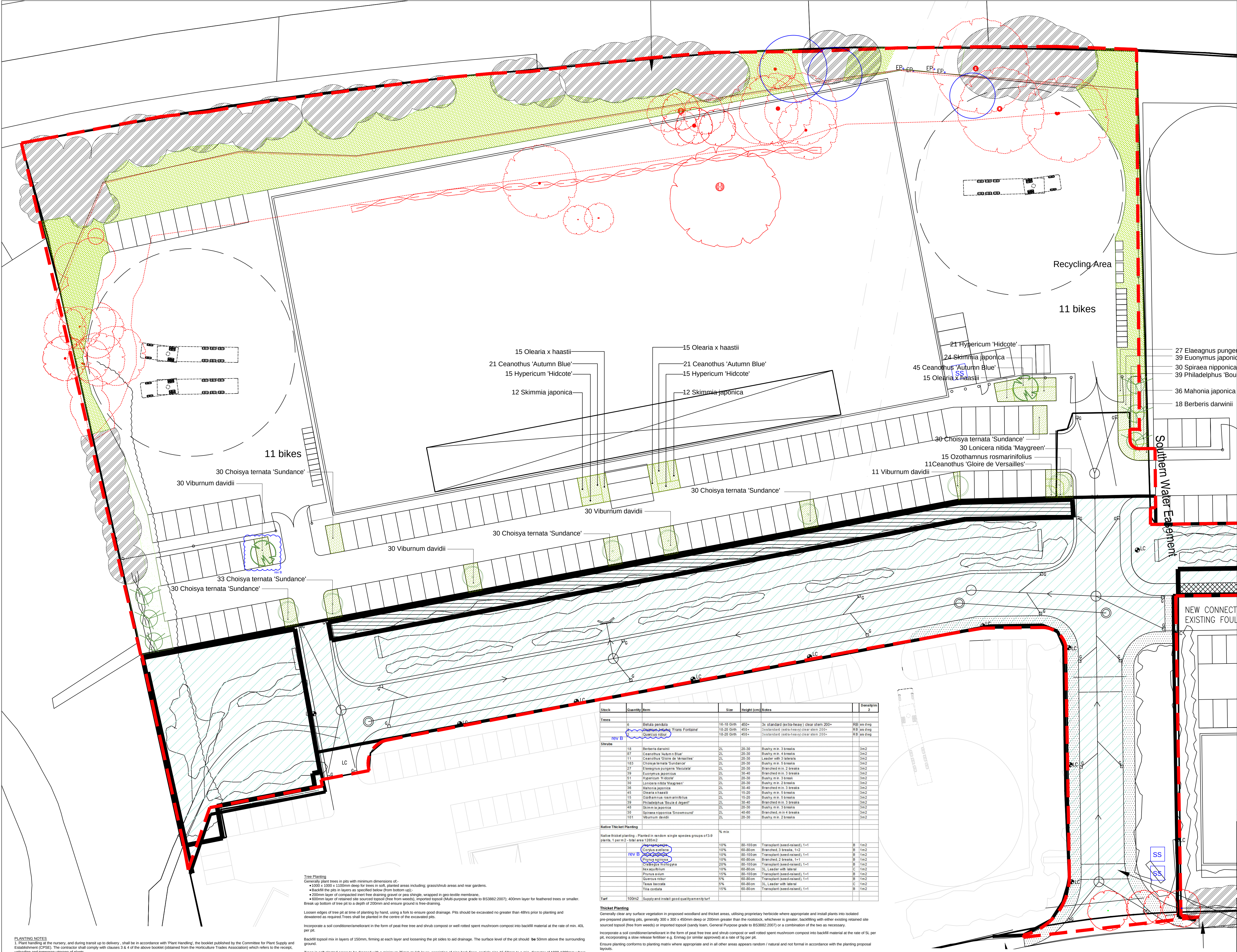




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**LEGEND**

- Carpinus betulus 'Frans Fontaine' 18-20cm
- Betula pubescens 16-18cm
- Quercus robur 18-20cm
- Existing trees and vegetation to be retained
- Existing tree to be removed - refer to arboricultural report
- New shrub planting areas
- Amenity grass area
- Existing hedge to be removed
- Existing hedge to be retained
- Planting plan to stream by others
- Red line boundary

**THICKET PLANTING:**  
Total area for thicket planting 1265m<sup>2</sup>  
Small size stock planting for habitat creation and screening to boundary.  
Planted in random single species groups of 3-9 plants, 1per m<sup>2</sup>.

|                  |               |     |
|------------------|---------------|-----|
| Acer campestre   | BR 80-100 1+1 | 10% |
| Corylus avellana | BR 60-80 1+2  | 10% |
| Alnus glutinosa  | BR 80-100 1+1 | 10% |
| Prunus spinosa   | BR 60-80 1+1  | 10% |
| Cornus monogyna  | BR 80-100 1+1 | 20% |
| C. 60-80         |               | 10% |
| Potamogeton      | BR 80-100 1+1 | 15% |
| Taxus baccata    | BR 80-100 1+1 | 5%  |
| Tilia cordata    | BR 80-100 1+1 | 5%  |
| Quercus robur    | BR 80-100 1+1 | 15% |

**NOTE**

Tree removals and exact locations and number of trees to be removed to be in accordance with Barrel Tree Consultancy, Arboricultural Impact Appraisal and Method Statement, dated 25 July 2013. Ref: 13262-AIA-P6.

|     |                                                                     |          |     |
|-----|---------------------------------------------------------------------|----------|-----|
| B   | (B) (B) (B) THICKET SPECIES CHANGE - ADDITIONAL QUERCUS ROBUR 18-20 | REV      |     |
| REV | (B) (B) (B) THICKET PLANTING - GENERAL AREAS                        | REV      |     |
| REV | DATE                                                                | COMMENTS | REV |

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**PROJECT:** SITE 4 HARTS FARM LANE

**TITLE:** PLANTING PLAN

**CLIENT:** DURNGATE

**SCALE:** 1:300@A1

**DATE:** 13/12/2013

**JOB NO:** 1111

**DWG NO:** 1111-PP-300

**STATUS:** Planning

**REV:** B

**PLANTING NOTES**

1. 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) which refers to the receipt, unloading and temporary storage of plants.

2. Plants shall be first class examples of their species or variety, free from all pests and diseases with good fibrous root systems and materially underground. (Refer to relevant sections of BS3389 Parts 1-4 'Specification of Nursery Stock')

3. All planting is to be in general compliance with BS4428: 1989 Code of Practice for general landscape operations (excluding hard surfaces):

4. The landscape contractor must ascertain for himself the exact location of any underground services and maintenance points

5. All work to be carried out when soil and weather conditions are suitable. Planting to be carried out between November and March, avoiding planting in very cold or wet weather, periods of frost or strong winds.

6. Vegetation on proposed planting areas to be sprayed off with glyphosate systemic herbicide at least two weeks prior to planting operations

7. Imported topsoil to be General Purpose grade to BS3882:2007 - Specification for Topsoil. Topsoil to planting & hedging areas to be 450mm deep. Topsoil to grass seeded/urfed areas to be a minimum 150mm depth after light firming.

8. All plant stock and trees to be watered as necessary to ensure the establishment and continued thriving of planted matter.

**Tree Planting**

Generally plant trees in pits with minimum dimensions of:-

- 1000 x 1000 x 1000mm deep for trees in soft, planted areas including grass/shrub areas and rear gardens.
- Backfill the pits in layers as specified below (from bottom up):
- 200mm layer of compacted inert free draining gravel or pea shingle, wrapped in geo-textile membrane.
- 400mm layer of related site sourced topsoil (free from weeds), imported topsoil (Multi-purpose grade to BS3882:2007), 400mm layer for feathered trees or smaller.

Break up bottom of tree pit to a depth of 200mm and ensure ground is free-draining.

Loosen edges of tree pit at time of planting by hand, using a fork to ensure good drainage. Pits should be excavated no greater than 48hrs prior to planting and dewatered as required. Trees shall be planted in the centre of the excavated pits.

Incorporate a soil conditioner/ameliorant in the form of peat-free tree and shrub compost or well rotted spent mushroom compost into backfill material at the rate of min. 40L per pit.

Backfill topsoil mix in layers of 150mm, firming at each layer and loosening the pit sides to aid drainage. The surface level of the pit should be 50mm above the surrounding ground.

Trees in soft planted areas to be dressed with a minimum 75mm mulch layer, consisting of pine bark fines, particle size 15-50mm to a min. diameter of 1000-1200mm where appropriate.

Semi-mature trees shall be secured by use of a proprietary underground guying system, incorporating guy mats to protect the upper surface of the rootball and secured to the base of the tree pit. Guying supports to be sized in line with the size of the tree as recommended by the manufacturers.

Extra-heavy and heavy standard trees shall be staked and supported with a low, double stake consisting of 2No. 75mm diameter x min. 2000mm length, rounded timber posts driven into the ground, 600mm above ground level and fixed to the tree by a proprietary rubber tree tie / horizontal cross support.

Standard trees shall be staked and supported with a low, single stake consisting of 1No. 75mm diameter x min. 2000mm length, rounded timber post driven into the ground at 45 degree angle to approx. 450mm above ground level and fixed to the tree by a proprietary rubber tree tie.

Trees shall be installed with proprietary flexible perforated irrigation/piercing pipe with integral cap. Pipe to be installed encircling equally around rootball to the full depth of planting pit, with the final cap section installed just above ground level and nailed securely in place to the adjacent timber stake.

All trees in grass areas to be protected by min. 225mm high x 12-15mm diam, proprietary plastic scrimmer/vee guards. Where trees have a basal trunk diameter greater than 12mm e.g. semi-mature, then two or more guards should be joined together using jointing tape and then secured in place.

| Stock                                                                                                                                 | Quantity          | Item                                         | Size        | Height (cm) | Notes                                     | Density/m <sup>2</sup> |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------|-------------|-------------|-------------------------------------------|------------------------|
| <b>Trees</b>                                                                                                                          |                   |                                              |             |             |                                           |                        |
| 16                                                                                                                                    | 16                | Betula pubescens                             | 16-18 dirth | 450+        | 3x standard (extra-hedge) clear stem 200+ | RB as dng              |
| 17                                                                                                                                    | 17                | Quercus robur                                | 16-20 dirth | 450+        | 3x standard (extra-heavy) clear stem 200+ | RB as dng              |
| 18                                                                                                                                    | 18                | Quercus robur                                | 16-20 dirth | 450+        | 3x standard (extra-heavy) clear stem 200+ | RB as dng              |
| <b>Shrubs</b>                                                                                                                         |                   |                                              |             |             |                                           |                        |
| 19                                                                                                                                    | 19                | Berberis darwinii                            | 2L          | 20-30       | Bushy m.m. 3 breaks                       | 3m2                    |
| 20                                                                                                                                    | 20                | Ceanothus 'Autumn Blue'                      | 2L          | 20-30       | Bushy m.m. 4 breaks                       | 3m2                    |
| 21                                                                                                                                    | 21                | Ceanothus 'Gloire de Versailles'             | 2L          | 20-30       | Leader with 3 breaks                      | 3m2                    |
| 22                                                                                                                                    | 22                | Choisya ternata 'Sundance'                   | 2L          | 20-30       | Bushy m.m. 5 breaks                       | 3m2                    |
| 23                                                                                                                                    | 23                | Eleagnus pungens 'Maculata'                  | 2L          | 20-30       | Branched m.m. 2 breaks                    | 3m2                    |
| 24                                                                                                                                    | 24                | Euonymus japonicus                           | 2L          | 20-30       | Branched m.m. 3 breaks                    | 3m2                    |
| 25                                                                                                                                    | 25                | Hypericum 'Hidcote'                          | 2L          | 20-30       | Bushy m.m. 3 breaks                       | 3m2                    |
| 26                                                                                                                                    | 26                | Lonicera nitida 'Maygreen'                   | 2L          | 20-30       | Bushy m.m. 3 breaks                       | 3m2                    |
| 27                                                                                                                                    | 27                | Mahonia japonica                             | 2L          | 20-30       | Branched m.m. 3 breaks                    | 3m2                    |
| 28                                                                                                                                    | 28                | Olearia x haastii                            | 2L          | 15-20       | Bushy m.m. 5 breaks                       | 3m2                    |
| 29                                                                                                                                    | 29                | Ozothamnus rosmarinifolius                   | 2L          | 15-20       | Bushy m.m. 3 breaks                       | 3m2                    |
| 30                                                                                                                                    | 30                | Philadelphus 'Shirley Arbutus'               | 2L          | 20-30       | Branched m.m. 3 breaks                    | 3m2                    |
| 31                                                                                                                                    | 31                | Skimmia japonica                             | 2L          | 20-30       | Bushy m.m. 3 breaks                       | 3m2                    |
| 32                                                                                                                                    | 32                | Spiraea nipponica                            | 2L          | 20-30       | Branched m.m. 3 breaks                    | 3m2                    |
| 33                                                                                                                                    | 33                | Viburnum davidii                             | 2L          | 20-30       | Bushy m.m. 2 breaks                       | 3m2                    |
| <b>Native Thicket Planting</b>                                                                                                        |                   |                                              |             |             |                                           |                        |
| Native Thicket Planting - Planted in random single species groups of 3-9 plants, 1 per m <sup>2</sup> - total area 1265m <sup>2</sup> |                   |                                              | % mix       |             |                                           |                        |
| 34                                                                                                                                    | 34                | Corylus avellana                             | 10%         | 60-80cm     | Transplant (seed-raised), 1+1             | 8 1m2                  |
| 35                                                                                                                                    | 35                | Alnus glutinosa                              | 10%         | 60-80cm     | Branched 3 breaks, 1+2                    | 8 1m2                  |
| 36                                                                                                                                    | 36                | Prunus spinosa                               | 10%         | 60-80cm     | Transplant (seed-raised), 1+1             | 8 1m2                  |
| 37                                                                                                                                    | 37                | Cornus monogyna                              | 10%         | 60-80cm     | Branched 2 breaks, 1+1                    | 8 1m2                  |
| 38                                                                                                                                    | 38                | Quercus robur                                | 20%         | 60-100cm    | Transplant (seed-raised), 1+1             | 8 1m2                  |
| 39                                                                                                                                    | 39                | Potamogeton                                  | 10%         | 60-80cm     | 3x Leader with lateral                    | 8 1m2                  |
| 40                                                                                                                                    | 40                | Quercus robur                                | 15%         | 60-100cm    | Transplant (seed-raised), 1+1             | 8 1m2                  |
| 41                                                                                                                                    | 41                | Taxus baccata                                | 5%          | 60-80cm     | Transplant (seed-raised), 1+1             | 8 1m2                  |
| 42                                                                                                                                    | 42                | Tilia cordata                                | 5%          | 60-80cm     | 3x Leader with lateral                    | 8 1m2                  |
| 43                                                                                                                                    | 43                | Tilia cordata                                | 15%         | 60-80cm     | Transplant (seed-raised), 1+1             | 8 1m2                  |
| <b>Turf</b>                                                                                                                           |                   |                                              |             |             |                                           |                        |
| 44                                                                                                                                    | 100m <sup>2</sup> | Supply and install good quality amenity turf |             |             |                                           |                        |

**Thicket Planting**

Generally clear any surface vegetation in proposed woodland and thicket areas, utilising proprietary herbicide where appropriate and install plants into isolated pre-prepared planting pits, generally 300 x 300 x 450mm deep or 200mm greater than the rootstock, whichever is greater, backfilling with either existing retained site sourced topsoil (free from weeds) or imported topsoil (multi-purpose grade to BS3882:2007) or a combination of the two as necessary.

Incorporate a soil conditioner/ameliorant in the form of peat-free tree and shrub compost or well rotted spent mushroom compost into backfill material at the rate of 5L per pit, incorporating a slow release fertiliser e.g. Etnagard (or similar approved) at a rate of 5g per pit.

Ensure planting conforms to planting matrix where appropriate and in all other areas appears random / natural and not formal in accordance with the planting proposal layout.

**Plant Protection**

All thicket areas to be fully enclosed by min. 900mm high rabbit proof fencing, supplied as min. 1.9 Gauge (1.2mm) galvanised mesh with max. 31mm openings, nailed with galvanised 20mm staples to 50-75mm diameter treated timber stakes at 1.5m centres, incorporating 3No. horizontal galvanised straining wires. Mesh fence to be heeled into ground 150mm below ground level. Straining posts at 1000mm diam. Timber should be installed every 50m or at every turn of direction 90 degrees or greater.

All small / feathered trees to be protected by min. 1200mm high x 80-110mm diam, proprietary plastic mesh tree guard/shelter and secured in place with min. 25mm square treated softwood timber stake and fixed with plastic cable ties. NB: Should not be taller than the tree guard/shelter should be increased in height to 1.8m.

Coniferous trees must only be protected by open mesh tree guards.

All bushy thicket shrubs to be protected by min. 600mm high x 170-200mm diam, proprietary plastic mesh shrub shelters / guards and secured in place with treated softwood timber stakes and plastic cable ties.

All single stem thicket transplants to be protected by min. 450mm high x 50mm proprietary plastic spiral guards secured with min. 12-14 dia. x 900mm long bamboo cane.

All trees and thicket plants to be installed with a min. 500mm square, woven polypropylene mulch mat securely pegged in place.

**Shrub Planting**

Plant shrubs and groundcover into pre-prepared planting beds consisting of topsoil to a depth of no less than 450mm, overlying clean subsoil, mixed with soil conditioner as specified below.

Topsoil to be either: existing retained site sourced topsoil (free from weeds) or imported topsoil (multi-purpose grade to BS3882:2007) or a combination of the two as necessary.

Subsoil to be fully broken-up by main contractor to ensure adequate decompaction and alleviate free-drainage.

Incorporate a soil conditioner/ameliorant in the form of peat-free general-purpose shrub compost or well rotted spent mushroom compost across planting bed in a 50mm layer at the rate of 300g per m<sup>2</sup>, and incorporate to a depth of 225mm.

Dig planting holes for shrubs to be a depth of 200mm and a width of 150mm greater than the source pit size, ensuring that pit walls are loosened to ensure good drainage.

Ensure planting appears random / natural and not formal in accordance with the planting proposal layouts as supplied by the Landscape Architect.

All shrub areas to be dressed with a minimum 50mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm.

The contractor shall take the necessary precautions to ensure all shrub areas are protected throughout the establishment period by temporary fencing.