

Persimmon Homes

North Littlehampton:
Southern Lyminster Bypass

Landscape Proposals SLB1
1 of 2

Maintenance and Management

All landscape areas to be maintained in accordance with B.S. 7370 Part 3:1991 and Part 4:1993; including weed control, and adjustment to tree stakes and ties. Maintenance operations to successfully establish plants shall be carried out for the first 5 years after planting.

Maintenance operations for successful plant establishment shall include watering; weed control; fertiliser application; pest and disease control; pruning; and litter picking.

Any plants which, within a period of 5 years from the date of planting, die, are removed or become seriously damaged shall be replaced in the next planting season with others of similar size and species, to be agreed in writing by the Local Planning Authority. For all new landscape areas, the following maintenance programme shall be undertaken:

Inspections:	January - December. Replace dead plants when necessary
Watering:	January, and when necessary through periods of drought.
Pest and disease control:	January.
Litter removal:	January - December
Weed control:	February - May; July; and September.
Prune:	February - November.
Fork over planting beds:	March.
Cut grass and trim edges:	March - October.
Apply fertiliser:	April.
Lightly fork over planting beds:	September.
Rake / scarify grass	September.

Watering: Water to establish trees and there after during periods of drought. Water should be applied slowly to avoid soil erosion. Watering shrubs shall be carried out to maintain vigorous plant growth. Water shall soak into the ground; it is not sufficient to dampen the surface. Water must be applied slowly to avoid damage to plants.

Weed control: Hand weed to remove all weeds and their roots using a hoe, trowel or fork. Apply a herbicide to kill re-growth when required.

Fertiliser: Applications of fertiliser to be carried out early in the growing season. Ensure correct fertiliser application. Inspect once a month and after very heavy winds. Adjust ties if necessary to conform to stem growth or to prevent chafing.

Pruning: At the appropriate season for the species, pruning to be carried out to remove all damaged diseased or dead wood. Prune shrubs to ensure the plant is kept well balanced and in good shape.

Pest and disease control: To be carried out if necessary and in accordance with best practice.

Litter removal: Collect and remove all extraneous rubbish.

Fork over planting beds: Pick up trodden or compacted soil surfaces to aerate the soil without damaging the plants.

Mowing: Amenity grass areas shall be managed to a height of 40mm. Species rich grass areas to be mowed as advised by the supplier.

Raking/Scarifying: Relieve thatched conditions and remove dead grass in the autumn over all grassed areas.

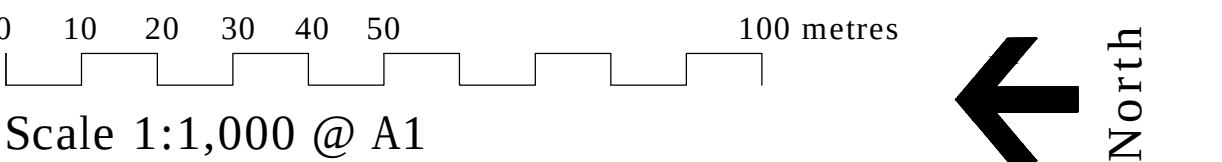
Spiking (Aeration): Aerate to increase water, nutrient and oxygen movement into the soil.

General: If grass surface is disturbed by over use, restore by firming or lifting with a fork

Water efficiency: Water efficiency has been considered in the selection of trees, native planting, and ornamental shrubs which has been informed by the site's water strategy to avoid unnecessary water use after the initial 5 year establishment period. Bark mulch will also be applied to new planting areas to suppress weeds and retain moisture within the soil.

Long term maintenance:

Long term maintenance and management objectives will continue after the first five years of plant establishment and will last for 10 years. Long term maintenance objectives will include selective pruning to improve health, tree form and longevity; periodic maintenance as necessary; selective thinning of trees; removing dead or damaged trees; and pest and disease control.



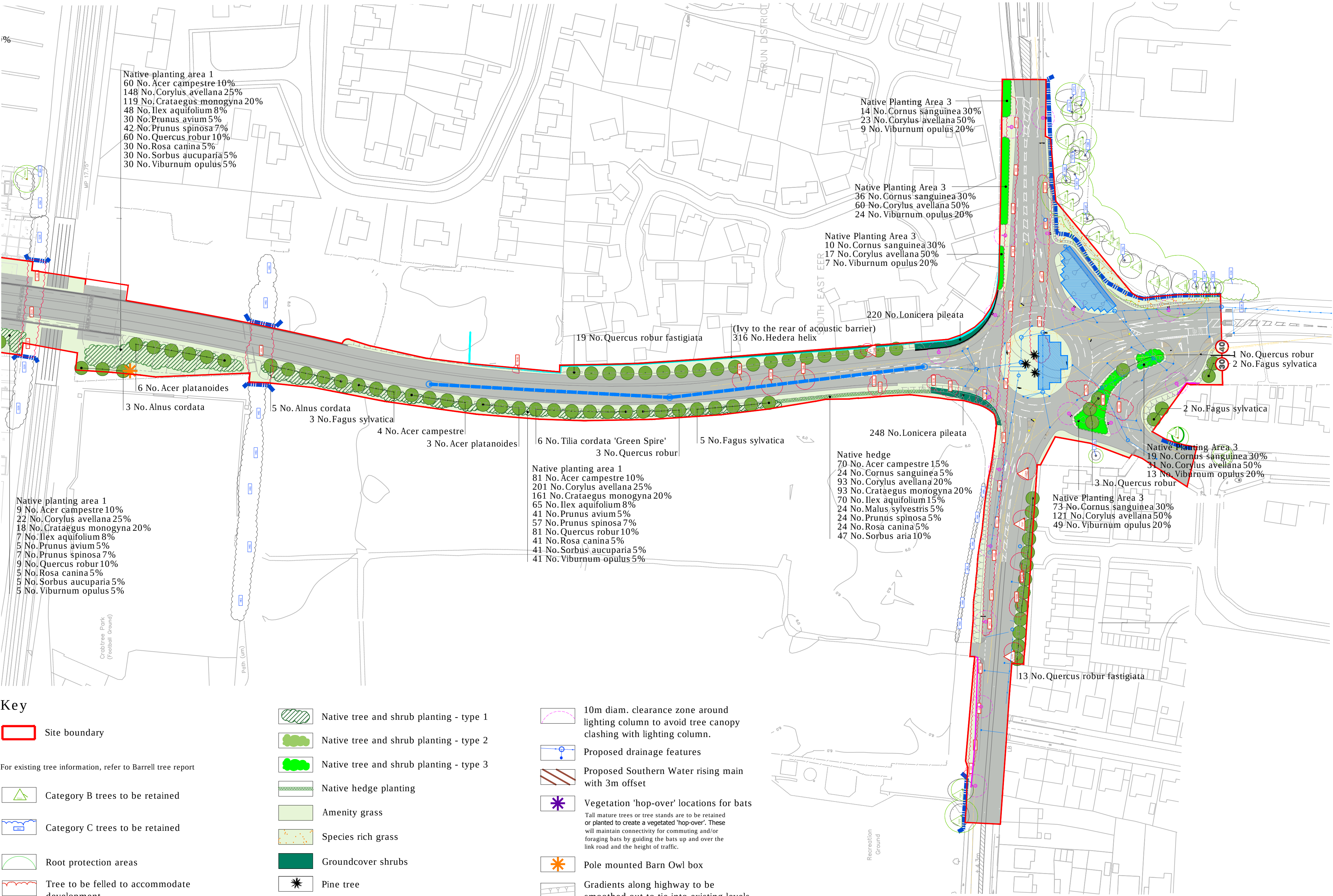
A088461 SLB1-SLB4[A].dwg 7 Dec 2017

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Key

- Site boundary
- For existing tree information, refer to Barrell tree report
- Category B trees to be retained
- Category C trees to be retained
- Root protection areas
- Tree to be felled to accommodate development
- Construction exclusion zone
Refer to Barrell Tree Consultancy for arboricultural assessment & method statement

Proposed features

- Tree planting

- Native tree and shrub planting - type 1
- Native tree and shrub planting - type 2
- Native tree and shrub planting - type 3
- Native hedge planting
- Amenity grass
- Species rich grass
- Groundcover shrubs
- Pine tree
- Proposed acoustic fence - 3.5m high
Close board fence: Softwood boarding (25x100mm) infill, butt jointed in 2 layers with staggered joints. Hardwood coping. Gravel board to be buried 100mm below ground level. Treatment of fence: Alkaline Copper Quaternary (ACQ). Refer to the noise report for details.
- Proposed lighting column
- Proposed visibility splays
- 10m diam. clearance zone around lighting column to avoid tree canopy clashing with lighting column.
- Proposed drainage features
- Proposed Southern Water rising main with 3m offset
- Vegetation 'hop-over' locations for bats
Tall mature trees or tree stands are to be retained or planted to create a vegetated 'hop-over'. These will maintain connectivity for commuting and/or foraging bats by guiding the bats up and over the link road and the height of traffic.
- Pole mounted Barn Owl box
- Gradients along highway to be smoothed out to tie into existing levels

Proposed hard landscape

- Footway and highway: tarmac
- Blister tactile paving - buff colour.
- Tree grille

Outline specification

Ground Preparation:
Protection of existing woodland, trees and hedges against damage to be in accordance with the BS 5837:2012 - Trees in relation to design, demolition and construction - Recommendations.
Protective fence to be approved.

Tree specification and planting to be in accordance with BS 8545:2014 - Trees: from nursery to independence in the landscape.

Excavations to B.S. 8000 part 1:1989. Excavated material removed off-site; good quality subsoil/topsoil stored on-site for re-use.

Landscape planting areas to have a minimum depth of soil of 500mm and grass areas will have 300mm.

Loosen formation level with single tine ripper, driven 450mm deep at 1m centres, when ground conditions are dry.

Supply approved imported subsoil to B.S. 3601:2013 Specification for subsoil and requirements for use - Multipurpose subsoil to make up any deficiency in on-site subsoil. Spread and level to depth of:

- 200mm for planting areas
- 200mm for grass areas

Supply approved imported topsoil to B.S. 3882:2015 Specification for topsoil - Multipurpose topsoil to make up for any deficiency in on-site topsoil. Spread and level to depth of:

- 300mm for planting areas
- 100mm for grass areas

Cultivate all landscape areas to a loose and friable tilth suitable for grass seeding or planting. Collect and remove from site all stones, builders' rubble and other deleterious material over 50mm in any dimension.

Excavate planting pits to the following dimensions:
Semi-mature trees: 1200 x 1200 x 700mm depth
Feathered Trees: 500 x 500 x 500mm depth
Container grown shrubs: 300 x 300 x 300mm depth

Backfill free pits with 100/300mm depth subsoil and 400mm topsoil including Melcourt Topgrow peat free planting compost or similar approved at a rate of 0.125m³/pt.

Backfill shrub pits with topsoil including Melcourt Topgrow peat free planting compost or similar approved at a rate of 1.0m³/20m³.

Notch planting of transplant sized shrubs:

- Nothing: Make a vertical 'I', 'L', 'T' or 'H' notch. Care to be taken around roots of existing trees.

- Depth: To accommodate full depth of roots.
- Planting: plant shrub, close notch with root collar at ground level and firm the soil.
- Spacing of plants: 1 metre centres.

Plant arrangement:
Planting to be carried out on a random mix basis subject to the following conditions:

- Tree species: max. 5 no. plants & min. 3 no. plants per block
- Shrub species: max. 7 no. plants & min. 3 no. plants per block.

Plant protection:
Tree shelters: standard tree shelters to be provided to each transplant sized tree / shrub, such as Tubex Standard Treeshelter, or equivalent. Shelter height to be 0.6m, green colour with supporting cane.

Amenity Grass Areas:
Supply and spread pre-seeding N:P:K. fertiliser (10:15:10) at a rate of 30g/m²
Grass areas to be sown at a rate of 35g/m² with a suitable grass seed mix such as Germinal A19. Initial grass cutting and edge trimming down to 50mm

Species Rich Grass Areas:
Do not spread fertiliser onto the grass. Species rich grass areas to be sown at a rate of 4g/m² with a suitable seed mix such as EM1 Basic General Purpose Meadow mixture.

Planting Areas:
Plant specification to be in accordance with the HTA National Plant Specification: 03/02

Supply and plant, incorporating slow release fertiliser N:P:K - 4:19:10 ENMAG or similar approved at the following rates:
Semi-mature trees: 130g / tree pit
Feathered trees: Feathered Trees: 100g / tree pit
Container grown shrubs: 70g / m²

Provide and fix tree stakes and ties to the following dimensions:
Semi-mature trees: overall length 1500; height above ground: 750mm
Feathered Trees: overall length 1250mm; height above ground: 600mm

General Notes:
Substitutions, if made, should be similar in size, form and water demand.
Plant material shall be sourced from UK seed and UK grown plant material only.
Maintenance:
Refer to sheet SLB1

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Trees				
Number	Species	Height	Girth	Specification
10 No.	Acer campestre	450-500cm	20-25cm	Semi-Mature :3x/4x :RB
13 No.	Acer platanoides	500-550cm	20-25cm	Semi-Mature :3x/4x :RB
8 No.	Alnus cordata	500-550cm	20-25cm	Semi-Mature :3x/4x :RB
6 No.	Carpinus betulus 'Fastigiata'	500-550cm	20-25cm	Semi-Mature :3x/4x :RB
15 No.	Fagus sylvatica	450-500cm	20-25cm	Semi-Mature :3x :RB
9 No.	Quercus robur	450-500cm	20-25cm	Semi-Mature :3x/4x :RB
78 No.	Quercus robur fastigiata	400-450cm		Feathered/specimen :5x :RB
33 No.	Tilia cordata 'Green Spire'	500-550cm	20-25cm	Semi-Mature :3x/4x :RB

Semi-mature trees to be provided with 2.4m clear stem

Shrubs			
Number	Species	Specification	Density
468 No.	Lonicera pileata	Bushy :6 brks :C	0.6Ctr

Climbers			
Number	Species	Specification	Height
316 No.	Hedera helix	Several Shoots :3 brks :C	40-60cm

Conifers			
Number	Species	Specification	Density
4 No.	Pinus nigra	Leader & laterals :5x :RB	Counted
173 No.	Pinus mugo	Bushy :C	0.8Ctr

Native Hedge				
Number	Species	Specification	Height	Density
70 No.	Acer campestre	1+1 or 1/1 :Transplant - seed raised :B	60-80cm	0.3Ctr Double Staggered at 0.25m offset
24 No.	Cornus sanguinea	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	0.3Ctr Double Staggered at 0.25m offset
93 No.	Corylus avellana	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	0.3Ctr Double Staggered at 0.25m offset
93 No.	Crataegus monogyna	1+1 or 1/1 :Transplant - seed raised :B	40-60cm	0.3Ctr Double Staggered at 0.25m offset
70 No.	Ilex aquifolium	C: Leader and laterals	40-60cm	0.3Ctr Double Staggered at 0.25m offset
24 No.	Malus sylvestris	1+1 or 1/1 :Transplant - seed raised :B	40-60cm	0.3Ctr Double Staggered at 0.25m offset
24 No.	Prunus spinosa	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	0.3Ctr Double Staggered at 0.25m offset
24 No.	Rosa canina	1+1 or 1/1 :Branched : :3 brks :B	60-80cm	0.3Ctr Double Staggered at 0.25m offset
47 No.	Sorbus aria	1+1 or 1/1 :Transplant - seed raised :B	40-60cm	0.3Ctr Double Staggered at 0.25m offset
Total :469 No.				

Native planting mix 1				
Number	Species	Specification	Height	Density
175 No.	Acer campestre	1+1 or 1+1 :Transplant - seed raised :B	40-60cm	1Ctr
433 No.	Corylus avellana	1+1 or 1/1 :Branched :2 brks :B	40-60cm	1Ctr
348 No.	Crataegus monogyna	1+1 or 1/1 :Transplant - seed raised :B	40-60cm	1Ctr
140 No.	Ilex aquifolium	Leader and laterals :C	40-60cm	1Ctr
89 No.	Prunus avium	1+1 or 1+1 :Transplant - seed raised :B	40-60cm	1Ctr
124 No.	Prunus spinosa	1+1 or 1/1 :Branched :2 brks :B	60-80cm	1Ctr
175 No.	Quercus robur	1+1 or 1+1 :Transplant - seed raised :B	40-60cm	1Ctr
89 No.	Rosa canina	1+1 or 1/1 :Branched :3 brks :B	60-80cm	1Ctr
89 No.	Sorbus aucuparia	1+1 or 1/1 :Transplant - seed raised :B	60-80cm	1Ctr
89 No.	Viburnum opulus	1+1 or 1/1 :Branched :2 brks :B	40-60cm	1Ctr
Total :1751 No.				

Native Planting mix 2				
Number	Species	Specification	Height	Density
764 No.	Acer campestre	1+1 or 1/1 :Transplant - seed raised :B	60-80cm	1Ctr
307 No.	Cornus sanguinea	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	1Ctr
916 No.	Corylus avellana	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	1Ctr
307 No.	Malus sylvestris	1+1 or 1/1 :Transplant - seed raised :B	40-60cm	1Ctr
307 No.	Salix caprea	0/1 :Branched :2 brks :B		1Ctr
215 No.	Sambucus nigra	1+1 or 1/1 :Branched :3 brks :B	60-80cm	1Ctr
245 No.	Sorbus aria	1+1 or 1/1 :Transplant - seed raised :B	40-60cm	1Ctr
Total :3061 No.				

Native Planting mix 3				
Number	Species	Specification	Height	Density
152 No.	Cornus sanguinea	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	1Ctr
252 No.	Corylus avellana	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	1Ctr
102 No.	Viburnum opulus	1+1 or 1/1 :Branched : :2 brks :B	40-60cm	1Ctr
Total :506 No.				

0 10 20 30 40 50 100 metres

Scale 1:1,000 @ A1

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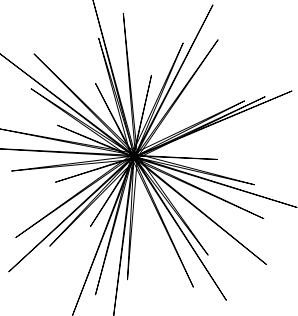
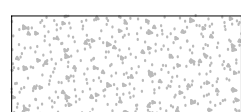


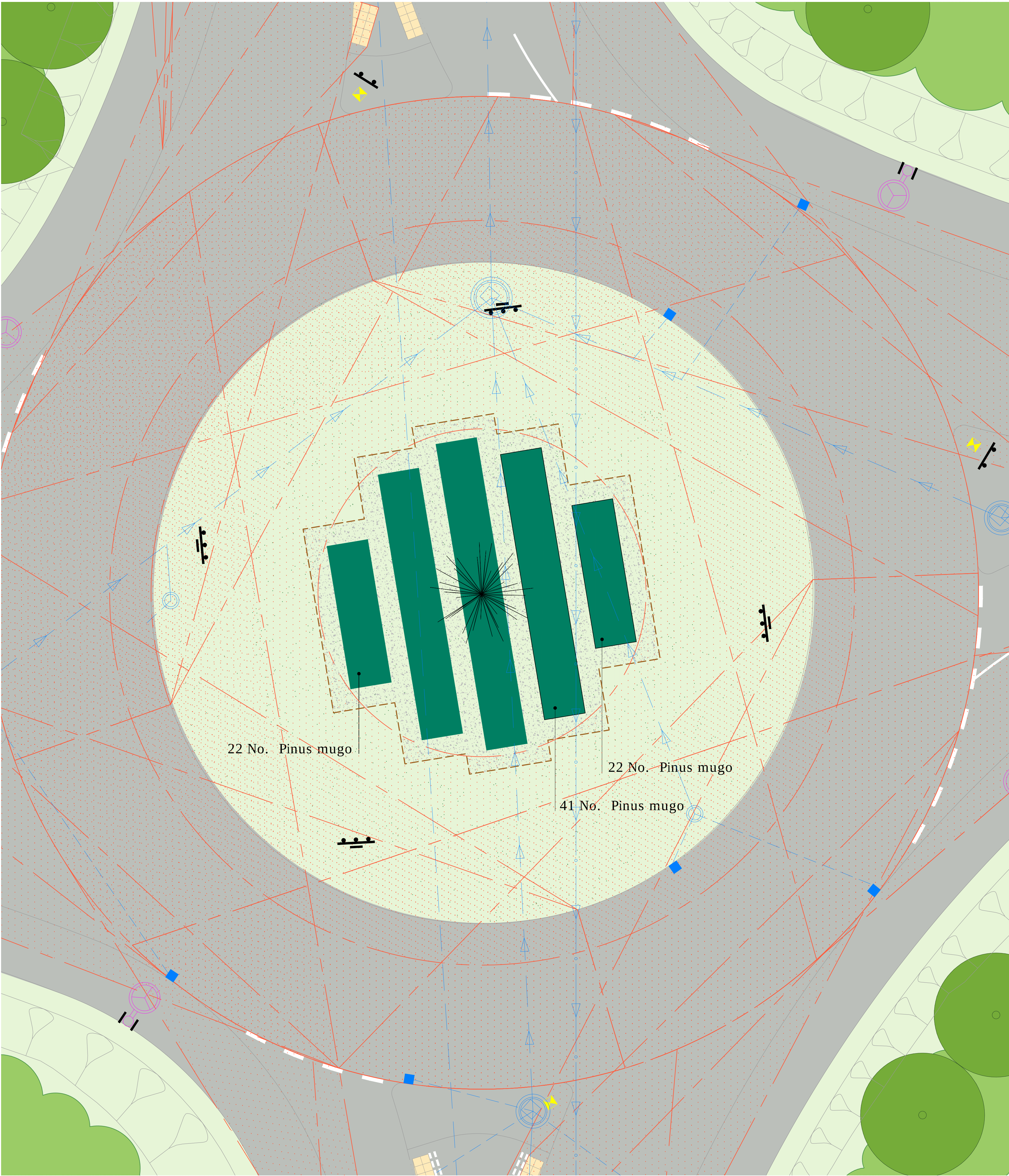
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North Littlehampton:
Southern Lyminster Bypass

Landscape Proposals: SLB3
Northern roundabout

Key

-  Groundcover: dwarf mountain pine. Refer to drawing SLB 2 for plant schedule
-  Pine tree Refer to drawing SLB 2 for plant schedule
-  Gravel area
-  Timber edging board



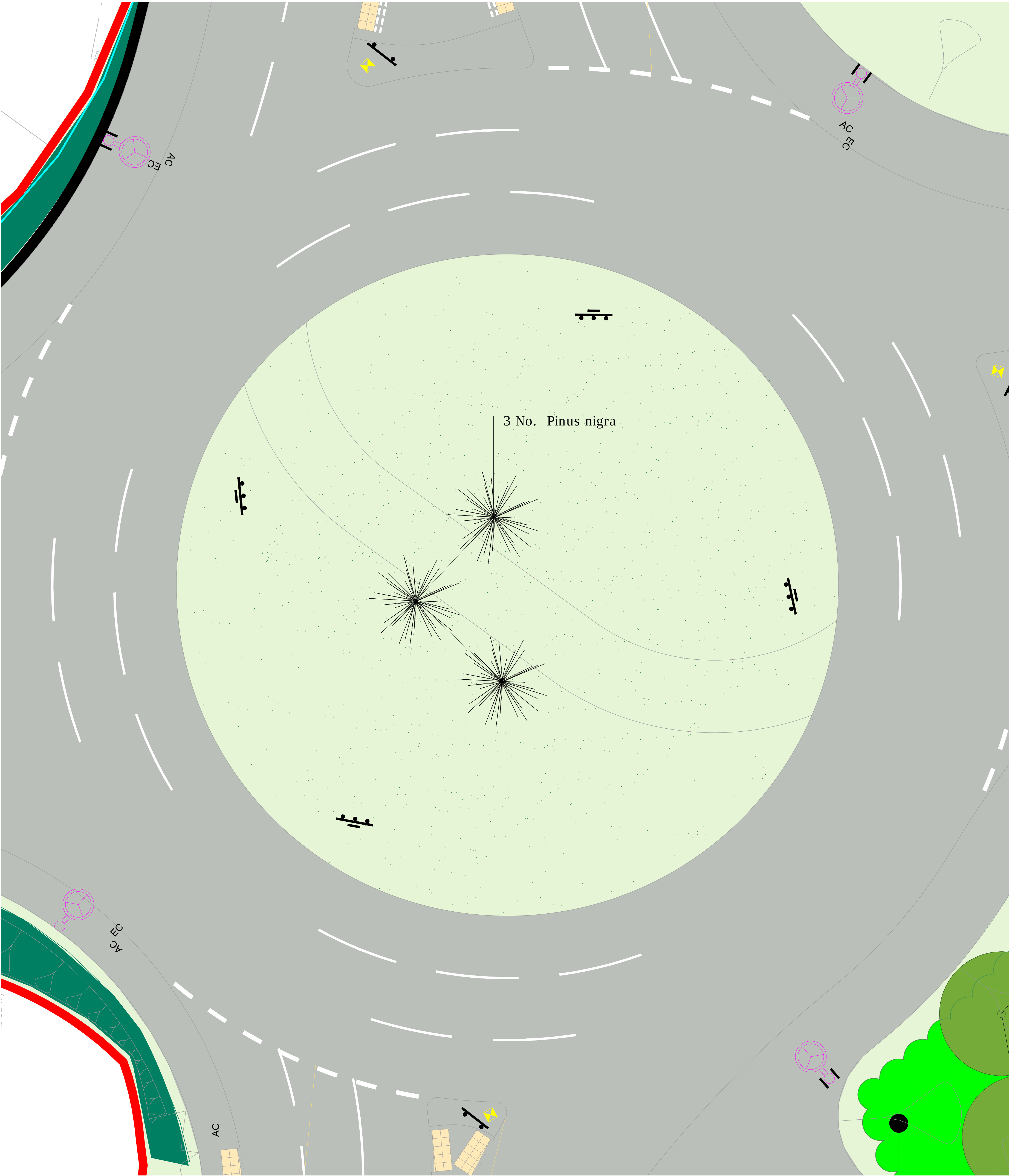
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North Littlehampton:
Southern Lyminster Bypass

Landscape SLB3.1
Proposals: Northern
Roundabout (showing drainage
and visibility splays)

Key

- Groundcover: dwarf mountain pine.
Refer to drawing SLB 2 for plant
schedule
- Pine tree
Refer to drawing SLB 2 for plant
schedule
- Gravel area
- Timber edging board
- Drainage features
- Visibility splays

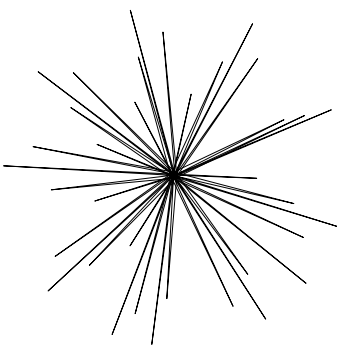


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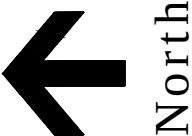
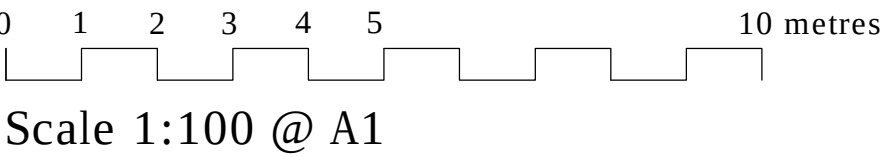
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Landscape Proposals: SLB4
Southern roundabout

Key



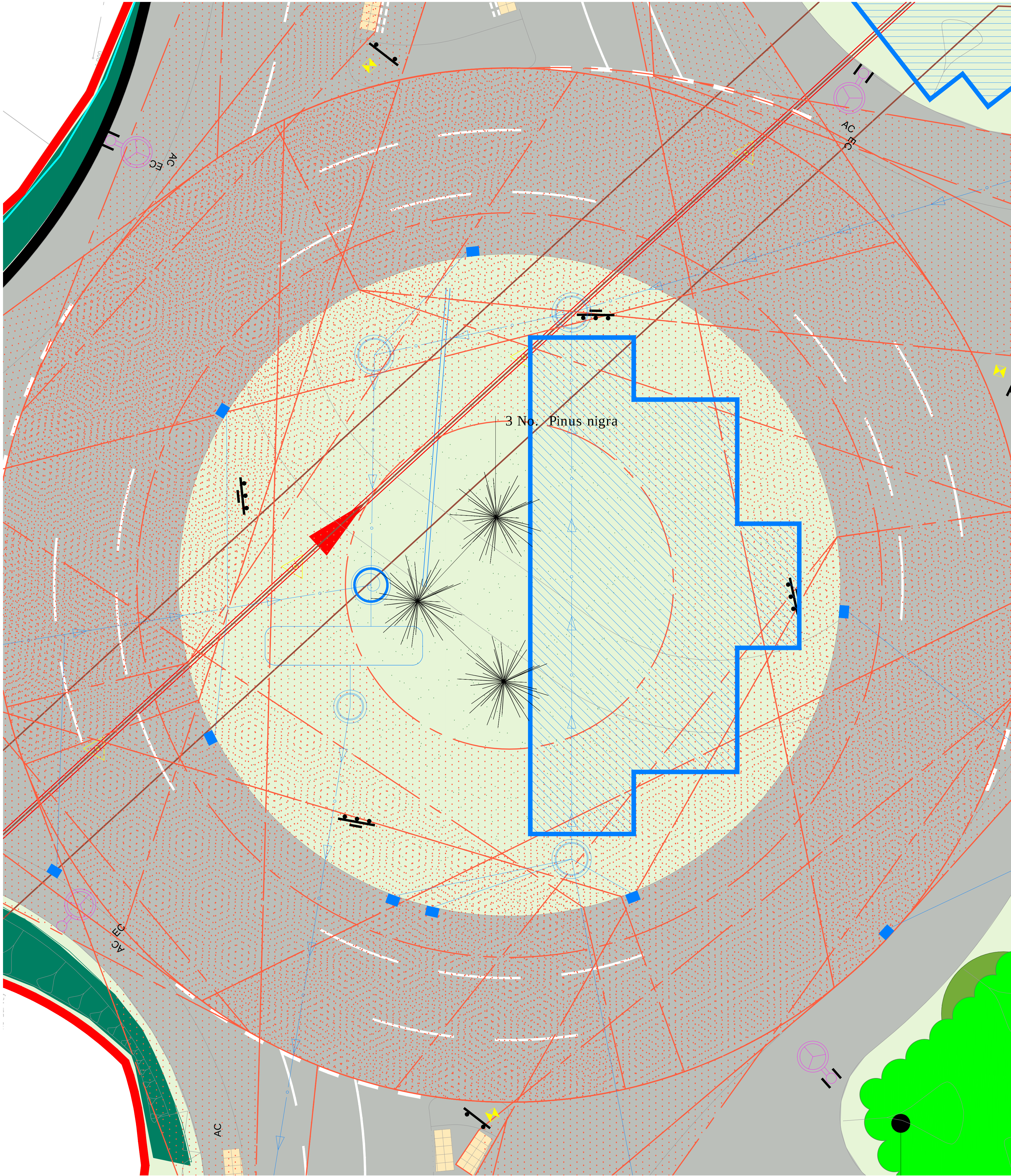
Pine tree
Refer to drawing SLB 2 for plant
schedule



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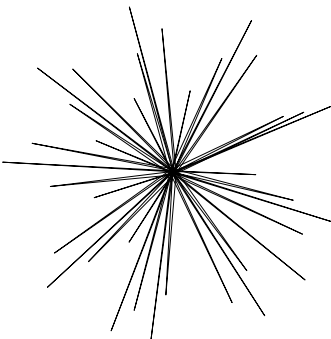
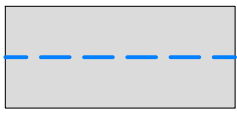
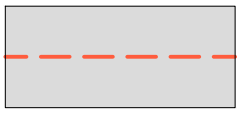


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North Littlehampton:
Southern Lyminster Bypass

Landscape SLB4.1
Proposals: Southern
Roundabout (showing drainage
and visibility splays)

Key

-  Pine tree
Refer to drawing SLB 2 for plant
schedule
-  Drainage features
-  Visibility splays