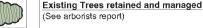


### Existing River / Water Body







**Existing Hedgerows** Manage to maturity, thinning where required and supplementing with the Native trees and hedgerow mix as listed below (density indicative to reflect site requirements)



### Native Hedge planting\* (710m²)

Trees - feathered trees 2.1 - 2.5m ht min 3m. ctrs	Shrubs - 60-90cm ht., in random groups of 5-15 no at 2-4m/sq.m
Alnus incana - 20% Betula pubescens - 20% Fagus syvatica - 5% Fraxinus excelsior (if permitted) - 20% Malus sylvestris* - 10% Quercus petrea - 20% Sorbus aria* - 5%	Comus sanguinea* - 10% Corylus avellana - 20% Crataegus europaeus* - 20% Ilex aquifolium - 10% Ligustrum vulgare* - 10% Prunus spinosa* - 10% Rosa canina* - 10% Vibumum opulus* - 10%

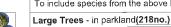




Planted in same species groups or lines on individual streets

Large Trees in public realm Acer campestre 'Streetwise' 16-18 cm gth, 4-6m ht Acer campestre 'Elsrijk' 16-18cm gth, 4-6m ht Corylus colurna 14-16cm gth, 5-6m ht Quercus robur 'Fastigiata' 16-18cm gth, 4-6m ht Tilia cordata 'Greenspire'\* 16-18cm, 5-6m ht

Small - Medium Trees in front gardens Betula pendula 14-16cm, 3-4m ht Malus sylvestris\* 14-16cm, 3-4m ht Pyrus 'Chanticleer'\* 14-16cm, 3-4m ht Sorbus aria 'Lutescens' 14-16cm. 3-4m ht Sorbus aucuparia\* 12-14cm, 2.5-3.5m ht



Proposed Parkland, Open Spaces and Feature Trees To include species from the above list and selected species from the following:

Aesculus hippocastanum\* 14-10cm, 4.25-6m ht Alnus glutinosa 14-16cm, 3-4m ht Castanea sativa\* 14-16cm, 4.25-6m ht Fagus sylvatica 14-16cm, 4.25-6m ht Pinus sylvestris 120-150cm. RB Populus tremula 14-16cm, 4.25-6m ht Quercus petrea 14-16cm, 4.25-6m ht

Ulmus 'Lobel' 16-18cm, 5-6m ht

Specimens Carpinus betulus 20-25cm, 6m ht Cedrus atlantica 'Glauca' 20-25cm ht, 6m ht Pinus radiata 1.9m-2m ht, RB Quercus pallustis 20-25cm, 6m ht



Small - Medium Trees - open spaces and public realm(152 no.)

Betula pubescens 14-16cm, 3-4m ht Prunus padus\* 14-16cm, 3-4m ht Pyrus 'Chanticleer'\* 14-16cm, 3-4m ht Sorbus aria 'Lutescens'\* 14-16cm, 3-4m ht Sorbus aucuparia\* 12-14cm, 2.5-3.5m ht

Underplanted with selected bulbs - Narcissus and Hyacinthoides non - scripta



Proposed	Small	to	Medium	Trees	to	Gardens	201	no.	)

Trees	Tall Shrubs		
Arbutus unedo* 12-14cm, 2.5-3.5m ht Betula pendula 12-14cm, 2.5-3.5m ht Malus floribunda 12-14cm, 2.5-3.5m ht Prunus 'Kanzan 12-14cm, 2.5-3.5m ht Prunus padus 'Fastigiata'* 2-14cm, 2.5-3.5m ht Pyrus 'Chanticlear 14-16cm, 3-4m ht Sorbus aucuparia 12-14cm, 2.5-3.5m ht	Acer palmatum 150-175cm ht Amelanchier Canadensis* 150-175cm ht Lavatera olbia* 50-175cm ht Ptelea trifoliata* 50-175cm ht Syringa vulgaris* 150-175cm ht		





Betula pubescens



Orchard Trees(26 no.) 10-12cm, 2.5m ht. Indicative species list below

Malus 'Summer Red\*, Prunus domestica 'Victoria\*, \*Pyrus communis 'Conference''



# Mixed Native Woodland planting(10535m²)

Natural regeneration from adjacent woodland and feathered trees from Irish seed banks planted at minimum 3m centres in groups of 5-11

Trees - fthd trees 2.1 - 2.5m ht min 3m. ctrs	Shrubs - 60-90cm ht., in random groups of 5-15 no at 2-4m/sq.m
Betula pendula	Cornus sanguinea*
Fagus syvatica	Ligustrum vulgare*
Fraxinus excelsior (if permitted)	Prunus spinosa*
Prunus avium*	Rosa canina*
Quercus petrea	Viburnum opulus*
Ulmus glabra	,



Ulitius ylabia				
Proposed Mixed Native Woodland Planting(10718m²)				
Trees - fthd trees 2.1 - 2.5m ht min 3m. ctrs	Shrubs - 60-90cm ht., in random groups of 5-15 no at 2-4m/sq.m			
Alnus incana - 20% Betula pendula - 20% Fagus syvatica - 10% Fraxinus excelsior (if permitted) - 20% Quercus petrea - 20% Sorbus aria* - 10%	Comus sanguinea* - 10% Crataegus europaeus* - 20% Ilex aquifolium - 10% Ligustrum vulgare* - 10% Prunus spinosa* 20% Rosa canina* - 20% Vibumum opulus* - 10%			

# PLANTING NOTES

GENERAL CLEARANCE BEFORE PLANTING AND SPREADING TOPSOIL

1. All rubble, stone over 150 mm, general rubbish and builders' debris to be cleared from the proposed planting areas to the depth of the cultivated medium depending if trees, shrubs or grass (see spec for depths) and removed from site to an approved tip prior to

2 The planting area shall be treated with an approved herbicide 2 weeks before spreading topsoil

- 1. Following herbicide treatment (duration depending on herbicide type) the entire area shall be leveled to a medium grade prior to
- 2. Topsoil to be cultivated so free of grass, pemicious weeds and weed seed, stones larger than 50 mm and other debris. Similarly the top 50 mm of subsoil for grass areas should be free of grass, pemicious weeds and weed seed, stones larger than 30 mm and other
- 3. Topsoil to be spread in 150 mm layers and gently firmed . Subsoil to be spread in 300 mm layers and gently firmed.

### PLANT MATERIAL

- All plant material shall be pest and disease free .

  Topsoil shall be supplied in accordance with BS3882.
- All plants to be planted at the same depth as previously grown
- 4. Sufficient soil must be removed to allow all roots to fully spread. Care must be taken with root systems with dry, damaged roots being carefully pruned prior to planting

# PLANTING

## General

Times of year for planting:

- Deciduous trees and shrubs : November to March.
- Deciduous trees and sinuips: November to March.

  Conifers and evergreens: November to March.

  Container grown plants: At any time if ground and weather conditions are favorable.
- Watering and weed control : Provide as necessary

Refer to Plant Schedule for species, sizes and planting densities

 $\frac{Whips}{\text{1. All whips to be pit planted}} \ \ \text{as per detail}$ 

- 2. Soil ameliorants can be premixed with the soil applied or mixed in during planting.
- 3. Soil ameliorants to consist of an approved compost at 10L per m2; and 50g/m2 of 10.10.10 NPK slow release fertilizer.

1. Soil ameliorants to consist of an approved compost, at 20L for each feathered tree and 12-14cm gth tree, 35L for each 14-18cm gth tree and 50L for each 20-25 cm gth tree and 150g/tree of 10.10.10 NPK slow release fertilizer.

2. For further details, see drawing no. tree planting details.

1. Soil ameliorants can be premixed with the soil applied or mixed in during planting, but must be through full width of trench. 2. Soil ameliorants to consist of an approved compost at 10L per m2; and 50g/m2 of 10.10.10 NPK slow release fertilize

Ornamental Shrub Planting Indicative species list

Low to medium height ornamental shrubs/plants. pot size and planted 3/m2 unless

specified Choisya temata 'Sundance'\* 45-60cm 3L pot

Calamagrostis 'Karl Foerster' 45-60cm 3L pot Cytisus scoparius\* 45-60cm 3L pot Helleborus niger\* 2L pot at 5/m² Hebe 'Mrs Winder'\* 45-60cm 3L pot

Lavendula angustifolia\* 45-60cm 3L pot Lonicera pileata 45-60cm 3L pot Pachysandra terminalis 2L pot at 5/m² Philadelphus coronaries\* 45-60cm 3L pot Viburnum tinus\* 45-60cm 3L pot

Ornamental Grasses - planted in drifts, 45-60cm at 2/m2. Underplanted with Allium 'Purple Sensation' bulbs in key areas

Stipa gigantea, Molinia caerulea, Stipa tenuissima, Calamagrostis x acutiflora, 'Karl Foerster', Carex sp (greens, golds, whites), Pennisetum alopecuroides

### Perennial Planting

2l min pot size and planted at 5/m2 unless specified. Underplanted with Allium 'Purple Sensation' bulbs in key areas at 5m/2

Achillea sp. (deep reds/whites)\* Aquilegia species (purples, whites)\* Anemone x hybrid 3l pot planted at 4/m2\* Lavandula angustifolia 'Blue Cushion' Echinacea purpurea\*

Knautia macedonica Agastache 'Black Adder'\* Sedum 'Brilliant'' Verbena bonariensis\*

Ornamental Hedge Planting

Planted in staggered rows of single species 60-90cm at 3/lin.m

Fagus sylvatica, Prunus lusitanica\*, Taxus baccata, Lonicera nitida, Griselinia littoralis

Swale Planting

Low-Medium height shrubs/plants. Max height 60-150mm. 2L min. pot size and planted at 5/m²

For the base and inlet on moisture-retentive soils Plants tolerate temporarily wet soil as well as dry Actaea racemose 15% Ajuga reptans 1L pot size at 7/m2 - 10%\* Astilbe vars 10%\* Butomus umbellatus 10% Caltha palustris 10%\* Lychnis flos-cuculi 15%\* Lythrum salicaria 10%\* Campanula glomerata 1L pot size at 7/m2 10% Iris pseudocorus 15% Deschampsia cespitosa 10% Lvthrum salicaria 15% Eupatorium cannabinum 10% Typha angustifolia 10% Filipendula vulgaris 15% Iris pseudacorus 10%\* Sparganium erectum 10%

Iris sibirica 10%\*

### Meadow Planting

Native Irish biodiversity seed mix for sun and partial shade. Recommended product: Sandro's Irish Wildflower Conservation Grade Seed Mixture Sowing 1.5 grams per metre.

Sample species include;

Annual Mayweed, Birdsfoot Trefoil, Bladder Campion, Bluebell, Burdock, Cat's Ear, Common Sorrel, Corn Marigold, Corn Poppy, Corncockle, Cornflower, Cowslip, Devil's-bit Scabious, Eyebright, Flag Iris, Foxglove, Kidney Vetch, Common Centaury, Lesser Knapweed, Musk Mallow, Marjoram, , Purple Loosestrife, Ragged Robin, Red Bartsia, Red Campion, Red Clover, Rough Hawksbit, Shepherd's Purse, Smooth Hawksbit, St. Johnswort, Vetch Common, White Campion, Wild Angelica, Wild Valerian, Yellow Agrimony, Yellow Rattle.

<sup>\*</sup> Species selected for their pollinating qualities.



1. Private grass 2. Amenity grass

Landform

Reinforced Grass



Road Surface - Black tarmacadam



- Rolled top tarmac Shared Surface Rolled top tarmad



Concrete Areas



Feature Paving - Patterned concrete to key spaces with stone highlights & concrete setts



- Brushed concrete - Concrete paviour



Shared Cycle & Pedestrian lane

Rolled Dust/Self - Binding Gravel Path



Bridges and Boardwalks Recycled black plastic

- Ballylusk 10mm or simila



Selected PCC Pavers/Slabs



- To private treshold areas







Parking Bays

- PCC pavers 120x160x80mm Natural, silver or charcoal finish to comploment street facades and

reinforce character areas Alternate colours for details and highlights. - N.B Permeable paving to private areas





Railing 1.2m high vertical bar railing

Seating Type 1 - 2m wide timber bench

Type 2 - Concrete bench 1. Bins 111 2. Bike stands

Type 1 Type 2 Type 1 Type 2

1. Bollards 2. Lights in ground

Light columns

Free Standing Walls Retaining Walls / Elements

Concrete Play Forms

**Pumping Station** To eng. specification

Substation

 $\times$ 

To eng. specification Play Surface/Safety Surface

surface to ISEN 116/177 Formal Play Equipment Supplier: KOMPAN or similar

Coloured rubber wetpour play

**3€** (♣) (♣)

Fitness Trail Equipment Supplier: KOMPAN or similar

Informal Natural Play - Logs, sensory planting, boulders,

**Tennis Tables** 

LEGEND TO BE READ WITH THE LANDSCAPE MASTERPLAN DRAWING 18306-2-101. ADDITIONAL DETAIL IS PROVIDED IN THE ACCOMPANYING LANDSCAPE STRATEGY & DESIGN REPORT 18306-2-D04.

REV DATE AMENDMENT

**CUNNANE STRATTON REYNOLDS** 

**LAND PLANNING & DESIGN** 

DUBLIN OFFICE 3 MOLESWORTH PLACE DUBLIN 2 TEL 01 661 0419 FAX 01 661 0431 EMAIL info@csrlandplan.ie



PROJECT: RESIDENTIAL DEVELOPMENT ON RATHMULLAN ROAD DROGHEDA, CO.MEATH

SEPT 2019 DATE: SCALE: DRAWN: ΕO CHECKED: EO

MATERIALS SPECIFICATION

DRAWING NO:

18306-2-102