

Tree planting specification

All trees shall be planted between the months of Nov and March. The trees shall be purchased from a reputable nursery as rootball specimens and final order to be agreed by Landscape Architect; The trees shall be planted on delivery. If this is not possible due to weather conditions (wet or frosty), the plants must be healed in. All Trees shall be positioned a minimum of 2.5m diameter from all underground services and 5m from all public lighting. Trees located adjacent to hard standing areas and roadways shall require root barrier positioned at the edge parallel to the infrastructure.

Maintenance Watering is essential during the first 2 growing seasons regardless of the weather conditions - 1000Lt / Tree/ Month.

Name	Spec	Size	height
Acer campestre	Clearstem: r/b	18-20cm	5m
Alnus glutinosa	Clearstem: r/b	12-24cm	4m
Amerlanchier lamarkii	Mutlistem: r/b	2.5-3m	2.5-3m
Betula Pubescenes	Mutlistem: r/b	2.5-3m	2.5-3m
Betula pendula	Clearstem: r/b	16-18cm	4.5m
Carpinus betulus	Clearstem: r/b	25-30cm	7m
Corylus avellana	Clearstem: r/b	18-20cm	5m
Fagus sylvatica	Fethered: r/b	25-30cm	7m
Malus sylvestris	Clearstem: r/b	14-16cm	3.5m
Metasequoia glyptostroides	Clearstem: r/b	14-16cm	3.5m
Pinus sylvestris	Clearstem: r/b	20-25cm	5m
Prunus avium	Clearstem: r/b	14-16cm	3.5m
Quercus petraea	Clearstem: r/b	25-30cm	7m
Quercus robur	Clearstem: r/b	12-14cm	7m
Sorbus acuparia	Clearstem: r/b	16-18cm	4m
Tilia 'Pallida'	Clearstem: r/b	20-25cm	5m

Methodology and Guidance Notes: The tree pit should have a diameter at least 100mm greater than that of the root system, with the depth not exceeding the rootball. Any glazed or smeared sides caused by digging shall be scarified with the use of a fork. The tree will be positioned in the centre of the planting pit at the correct depth, taking into account the root flare and finished level. Prior to backfilling the hessian twine/wire cage supporting the rootball shall be loosened or removed. Backfilling shall be carried out in layers of 150mm, ensuring the tree is held upright. At each stage the fill will be carefully firmed in to eliminate air pockets under and around the root system. The final layer of backfill will not be consolidated, but should be of a sufficient depth to allow for settlement and mulching. Formative pruning should be carried out if required, removing dead, damaged, crossing or diseased branches. Refer to Tree planting specification for tree aching system. All trees planting operation will be carried in accordance with BS8545:2014 Trees: from nursery to independence in the landscape -Recommendations.

Low/ Medium Level Pollinator Planting

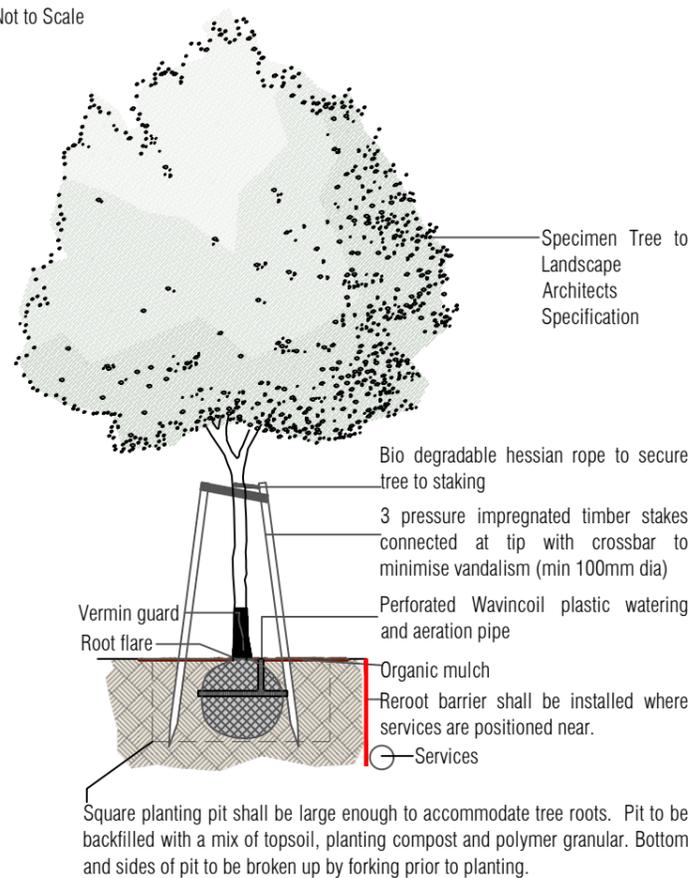
A mix of evergreen and deciduous shrubs and perennials shall will be planted in selected areas to compliment the development and provide continuous aesthetic value to the landscape throughout the year. All material has been selected due to its value as a pollinator. Plant density shall be determined to reduce the requirement of excessive weed control and cover areas rapidly.

<u>Shrub planting 3 plants / Sqm</u>	<u>Medium Herbaceous;4 Plants/Sqm</u>
Caryopteris x clandonensis	Acanthus spinosus
Hydrangea paniculata	Anemone 'Monte Rose'
perovskia persica	Calamagrostos 'Overdam'
Weigela florida	Echinacea 'Robinsterm'
Mahonia 'Apollo'	Hamerocallis 'Longfield Pride'
Sarcococca confusa	Nepeta 'Bramdean'
Viburnum davidii	Morinia longfolia
Hebe Var.	Persicaria 'Red Dragon'
Rosmarius officinalis	Perovskia 'Blue Spire'
	Salvia 'Ostfriesland'
	Rodgersia 'Chocolate Wings'

<u>Large Herbaceous 3 plants / Sqm</u>	<u>Small Herbaceous;5 Plants/Sqm</u>
Eupatorium maculatum	Aquilegia 'Kilmurry Mix'
Molinia 'Moorhexe'	Brunnera 'Looking Grass'
Lythrum 'Lady Sackville'	Astrantia 'Ruby Wedding'
Lythrum 'Swirl'	Epimedium 'Frohnleiten'
Persicaria 'Fat Domino'	Geranium 'Rozanne'
Sanguisorbia 'Robert'	Potentilla 'Monarch Velvet'
Sanguisorbia obtusa	Stipa arundinacea
Veronicastrum 'Fascination'	
Thalictrum 'Elin'	

Detail 1: Standard Rootball Tree Planting Specification

Not to Scale



Woodland Plantation Specification - 2 plants per square meter

Indigenous planting shall be positioned as a backdrop along the East and South boundary fringe of the development. Species will include hazel, whitethorn, holly and wild apple. This will provide flowering species and berries to provide year-round interest and improve ecological value of the site. The planting will provide a valuable food source and habitat for birds and invertebrates. Species to be planted in random groups to create a 'natural' effect. Planting shall be carried out first winter post construction. The planting shall be spaced at two plant / meter square. This will require coppicing suitable vegetation on a five-year rotation. The plants shall be planted as whip materials. All plants shall be protected from vermin at planting with rabbit guards that shall be removed after a five-year period.

Quantities; The number of plants required shall be quantified post construction

<u>Specimen varieties</u>	<u>specification</u>	<u>% mix</u>	<u>Size</u>
Corylus avellana	(Hazel) b/r (1+1)	15%	60-90cm
Sorbus acuparia	(Rowan) b/r (2+0)	10%	90-120cm
Crateagus monogyna	(Whitethorn) b/r (1+1)	5%	60-90cm
Salix spp.	(Willow) b/r (1+1)	5%	60-90cm
Sambucus nigra	(Elder sp.) b/r (0+1)	5%	60-90cm
Malus sylvestris	(Wild Apple) b/r (1+1)	5%	90-120cm
Euonymus europaeus	(Peg Bush) b/r (1+1)	15%	60-90cm
Ilex aquifolium	(Holly) container	15%	2ltr
Rosa canina	(Dog Rose) b/r (1+1)	5%	30-40cm
Viburnum opulus	(Guelder Rose) b/r (1+1)	10%	60-90cm
Hyacinthoides	(Bluebells) container	1.25%	3ltr
Anemone nemorosa	(Wood anemone)container	1.25%	3ltr
Primula vulgaris	(Primrose) container	1.25%	3ltr
Viola riviniana	(Dog Violet) container	1.25%	3ltr
Dryopteris affinis	(Male Fern) container	1.25%	3ltr
Polystichum setiferum	(Shield Fern) container	1.25%	3ltr
Digitalis purpurea	(Fox Glove) container	1.25%	3ltr
Allium ursinum	(Ramsons) container	1.25%	3ltr

Grass Seed Mixes

Native Origin Irish Wildflower Seed Mixture: Range:

Product Name: Wild Flora for Dry Loam and Verges (improved soils)

Product Code: MM03

Description: MM03 will produce a bright colourful romantic meadow, as early as two years after planting and the initial flush of colour will develop into an easy to maintain colour filled meadow, provided that is, that you maintain it.

MM03 has a dominance of blue, lilac and pink flowers intermingled yellow and orange flowers, all set off with white daisies and rose tinted Wild Carrot. This mixture is great for attracting butterflies. MM03 is well suited to any type of free draining silt, brown earth or loam soil. This mixture will grow well on well drained but moisture retentive soils even if the soil dries out in high summer.

MM03 grows into a medium height flora which requires a specific cutting regime. The species are arranged to compete with medium height grasses.

Mixture Specifications:

Origin: Native Irish Origin, Wildflower Seed Mixture.

Moisture Level: Not for very dry soil, suits normal, moist, but not flooded wet.

pH range: Best between 5.5 - 7

Aspect: Sunny

Life Cycle: Annual / Biennial / Perennial.

Height Range: <30cm - >100cm, Some species will stand tall in the meadow.

Flowering Period: Mid April to June. July To September

Fertility Range: All, the less fertile the soil, the less cutting will be required.

Wintergreen: Moderate

Total number of seeds per gram: 1280

Species List:

Birdsfoot Trefoil, Black Medick, Burnet Saxifrage, Corn Marigold, Corn Poppy, Corncockle, Cornflower, Cowslip, Field Cranesbill, Field Scabious, Kidney Vetch, Lady's Bedstraw, Lesser Knapweed, Marjoram, Scented Mayweed, Mullein, Ox-eye Daisy, Red Campion, Red Clover, Ribwort Plantain, Rough Hawksbit, Selfheal, Sorrel, St. Johnswort, White Campion, Wild Carrot, Yarrow, Yellow Rattle.

Sowing Specification:

Soil Preparation: Normal, create firm, fine tilt on seed bed, if clay, ensure a fine tilt or press the seed into clean soil.

Optimum Sowing Time: Spring, early autumn, when the soil is warm.

Seed Sowing Rates:

Normal sowing rate 'without added grass seed':1.5 grams per metre.

Product Name: MM09 Wild Flora for Dry Limy Soil (alkaline, pH >7)

Product Code: MM09

Description: Meadow Mixture - MM09 - Dry Alkaline/Limey Soil attracts butterflies & is one of our most beautiful collections of flowers. In high summer its a field of blue and purple, orange and yellow. This mixture is a favourite amongst our customers as MM09 forms blocks of tall single species colour capable of surviving drought.

Mixture Specifications:

Origin: Native Irish Origin, Wildflower Seed Mixture.

Moisture Level: For very dry soil, suits normal, but not moist or flooded wet.

pH range: Best between 6.5 - 7.9

Aspect: Sunny

Life Cycle: Annual / Biennial / Perennial.

Height Range: 30cm - 120cm

Flowering Period: May to August.

Fertility Range: The less fertile the soil, the less cutting will be required.

Wintergreen: Moderate

Total number of seeds per gram: 1452

Species List - :

Field Scabious, Kidney Vetch, Quaking-Grass, St Johnswort. Musk Mallow, Red Campion, White Campion, Wild Carrot, Yarrow, Yellow Agrimony, Yellow Rattle, Salad Burnet, Birdsfoot Trefoil, Black Meddick, Centaury, Corn Marigold, Corn Poppy, Corn Cockle, Cornflower, Cowslip, Lady's Bedstraw, Lesser Knapweed, Marjoram, Mullein, Ox-eye Daisy, Red Bartsia, Red Clover, Ribwort Plantain, Selfheal,

Sowing Specification:

Soil Preparation: Normal, create firm, fine tilt on seed bed, if clay, ensure a fine tilt or press the seed into clean soil.

Optimum Sowing Time: Spring, early autumn, when the soil is warm.

Seed Sowing Rates:

Normal sowing rate 'without added grass seed':1.5 grams per metre. High sowing rate 'without added grass seed': Add 3 grams per metre.

Landscape Notes:

All Landscape Works shall be undertaken by ALCI approved landscape contractor in accordance with landscape specifications. Topsoil to BS 3882:1994, general grade, free from sharp edged stone.

Backfilling Materials: A previously prepared thorough mixture of:

- 70% by volume topsoil excavated for the pit.
- 25% by volume approved well-rotted organic material.
- 5% by volume coarse-grained washed river sand.
- 600g/m2/ bone meal of medium fine texture, containing not so less than 20% soluble potassium and 3-5% nitrogen.

<p>JANE Mc CORKELL Landscape Architect</p> <p>13 Churchfield Grove, Churchfield, Ashbourne, Co. Meath. Ph: 087 6839520 Email: jane@janemccorkell.com</p>	<p>Registered Landscape Architect</p>	<p>Title: Soft landscape specification</p>	<p>Dwg ref: PP252-06</p>
		<p>Client: OSH Ventures Ltd.</p>	<p>Scale: NOT TO SCALE Size: A3</p>
		<p>Project: Old Schoolhouse Site (former Clonsilla School, Protected Structure RPS No. 700), Porterstown Road, Kellystown, Clonsilla, Dublin 15.</p>	<p>Date: FEB 2021</p>
		<p>Checked by: JMC</p>	<p>Drawn by: SH</p>
		<p>Rev:</p>	

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