



AIMS OF PLANTING SCHEME

The planting is designed to integrate the development into the wider landscape. It aims to replace those trees and hedgerows removed and to enhance the biodiversity of the site in line with the current national and local planning policy by planting a mixture of native and ornamental trees, shrubs & hedges.

The scheme has retained where possible the boundary planting but where this has not been possible new species rich hedges are proposed, creating a visually attractive border as well as a wildlife corridor and shelter for birds and mammals.

Hedgerows have not been planted in the gardens to maintain an open feel to the development.

It is proposed to plant 31 trees, native and cultivars, on the site, many of which provide food for birds and insects and are attractive to bees. These trees, in line with the National Planning Policy Framework, encourage biodiversity in and around the development.

Boundary hedge

Botanical name	Common Name	% mix	No of plants
Crataegus monogyna	Hawthorn	60	456
Prunus spinosa	Blackthorn	8	61
Corylus avellana	Hazel	8	61
Rose canina	Dog rose	3	23
Ilex aquifolium	Holly	5	38
Malus sylvestris	Crab apple	5	38
Viburnum opulus	Guelder Rose	5	38
Clematis vitalba	Native clematis	3	23
Lonicera periclymenum	Common honeysuckle	3	23
		100	761

152 lin m of native hedge
Planted in a staggered double line, at 5 per metre. Use blocks of plants in an irregular pattern.
2+1 bareroot whips 60-80cms

Clematis vitalba	.5L	Several shoots; 2 brks; Sept to April planting; British native origin
Ilex aquifolium	2L	Bushy; 2 brks
Lonicera periclymenum	20-40	150cc min. 1+0; Seedling; cell grown
Rosa canina	60-80	B 1+1; Transplant - seed raised; branched; 3 brks
Plant in November-March but not into frozen ground.		

Trees and hedging to be protected by 60cm high spiral plastic tree guards, made from 100% photodegradable PVC plastic waste, which expands with natural growth of plant.

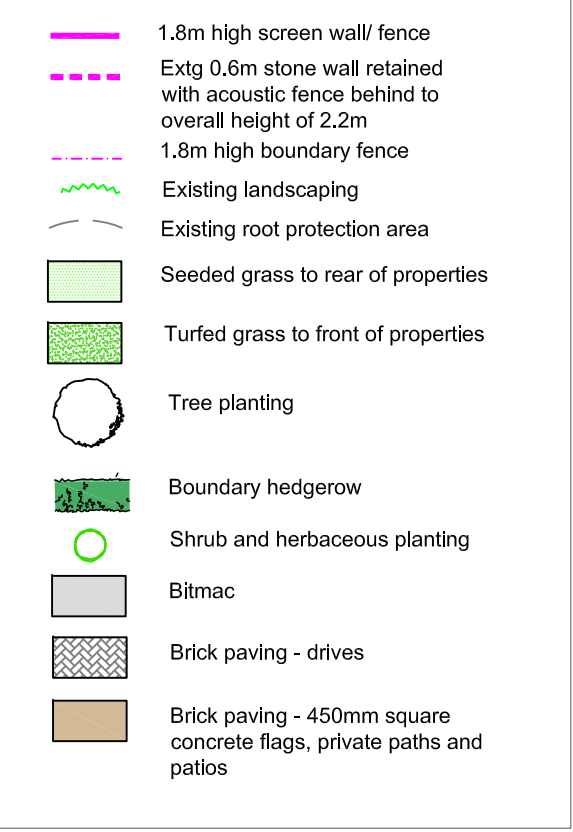
Grass

Amenity turf to the front of the properties: 734 m²

The typical seed mixture might contain:
30% Dwarf amenity ryegrass - Lolium parenne
20% Smoothstalked meadowgrass - Poa pratensis
30% Slender creeping red fescue - Festuca rubra litoralis
20% Chewings fescue - Festuca rubra commutata

Seed mix for domestic lawns to the rear of the properties
British Seed Houses A19
Sowing rate: 50g/m²

Total area = 1560m²



Shrubs						
Abbrev.	Botanical Name	Common Name	Height cm	Root Zone	Specification	Qty
BER JEW	Berberis x media 'Red Jewel'	Barberry 'Red Jewel'	40-60	15L	Bushy; 6 brks	19
CAR CAN	Caryopteris x clandonensis	Blue Spiraea	40-60	10L	Branched; 6 brks	37
CHO PEA	Choisya 'Adzec Pearl'	Mexican Orange Blossom 'Adzec Pearl'	30-40	5L	Bushy; 6 brks	16
CHO SUN	Choisya ternata 'Sundance'	Mexican Orange Blossom 'Sundance'	40-60	5L	Bushy; 5 brks	56
COT PUR	Cotinus coggygria 'Royal Purple'	Smoke Bush 'Royal Purple'	40-60	5-7.5L	Branched; 4 brks	8
HEB AMY	Hebe 'Amy'	Shrubby Veronica 'Amy'	30-40	5-7.5L	Bushy; 7 brks	15
HYD PAN	Hydrangea paniculata 'Bomshell'	Hydrangea 'Bomshell'	60-80	10L	Branched; 7 brks	10
MAG STE	Magnolia stellata	Star Magnolia	125-150	35-45L	Branched; 5 brks	1
PHI ETO	Philadelphus 'Belle Etoile'	Mock Orange 'Belle Etoile'	40-60	5-7.5L	Branched; 5 brks	4
PHL FRU	Phlomis frutcosa	Jerusalem Sage	40-60	10L	Branched; 5 brks	5
PHO TRI	Phormium cookianum 'Tricolor'	Mountain Flax 'Tricolor'	60-80	25L	Triple Crown	2
PHY DIA	Physocarpus opulifolius 'Diabolo'	Ninebark 'Diabolo'	60-80	15L	Bushy; 8 brks	1
PIE FLA	Pieris 'Forest Flame'	Pieris 'Forest Flame'	40-60	10L	Bushy; 7 brks	3
RHO YAK	Rhododendron yakushimanum	a Rhododendron	25-30	3-4L	Branched; 3 brks	9
ROS UPR	Rosmarinus officinalis 'Miss Jessopp's Upright'	Rosemary 'Miss Jessopp's Upright'	30-40	3L	Bushy; 4 brks	6
SAL TRI	Salvia officinalis 'Tricolor'	Sage 'Tricolor'		3L	Full pot	34
SAM LAC	Sambucus nigra Black Lace	Elder Black Lace	60-80	10L	Branched; 4 brks	3
SPI CAN	Spiraea japonica 'Candlelight'	Japanese Spiraea 'Candlelight'	30-40	5-7.5L	Bushy; 7 brks	9
Total						238

Herbaceous						
Abbrev.	Botanical Name	Common Name	Root Zone	Specification		Qty
ALC MOL	Alchemilla mollis	Lady's Mantle	B	Clump; 2L equivalent		68
ART CAS	Artemisia 'Powis Castle'	Mugwort 'Powis Castle'	5L	Bushy; 5 brks		10
BRU FRO	Brunnera macrophylla 'Jack Frost'	Siberian Bugloss 'Jack Frost'	5L	Full pot		27
EUP PUR	Euphorbia amygdaloides 'Purpurea'	Wood Spurge 'Purpurea'	5L	Full pot		48
GER PUR	Geranium clarkii 'Kashmir Purple'	Cranesbill 'Kashmir Purple'	3L	Full pot		10
GER WHI	Geranium clarkii 'Kashmir White'	Cranesbill 'Kashmir White'	3L	Full pot		39
GER REN	Geranium renardii	a Cranesbill	5L	Full pot		13
HEL ARG	Helleborus argutifolius	Corsican Hellebore	5-7.5L	Full pot		53
HEL FOE	Helleborus foetidus	Sinking Hellebore	5-7.5L	Full pot		55
HEL HYB	Helleborus hybridus 'Double Ellen Green'	Hellebore Double Ellen Green	5-7.5L	Full pot		10
HEU PIE	Heuchera 'Key Lime Pie'	Coral Flower 'Key Lime Pie'	2L	Full pot		96
HEU PUR	Heuchera micrantha 'Palace Purple'	Coral Flower 'Palace Purple'	2L	Full pot		72
HEU SPA	Heuchera 'Red Spangles'	Coral Flower 'Red Spangles'	3L	Full pot		13
HEU SCR	Heuchera 'Silver Scrolls'	Coral Flower 'Silver Scrolls'	3L	Full pot		44
LIB GRA	Libertia grandiflora	New Zealand Satin Flower	3L	Full Pot		10
PER FIR	Persicaria amplexicaulis 'Firetail'	Mountain Fleecce 'Firetail'	5-7.5L	Full pot		19
PUL DIA	Pulmonaria 'Diane Clare'	Lungwort	3L	Full pot		39
SAL MAI	Salvia x sylvestris 'Mainacht'	Sage 'Mainacht'	2L	Full pot		68
Total						694

Trees

Abbrev.	Botanical Name	Common Name	Girth/ Dia. cm	Height cm	Root Zone	Specification	Qty
BET PEN	Betula pendula	Common Silver Birch	20-25	500-550	RB	3x; Semi-mature; clear stem min. 200cm	6
BET JAC	Betula utilis jacquemontii	White-barked Himalayan Birch	20-25	500-550	RB	3x; Semi-mature; clear stem min. 200cm	5
CRA MON	Crataegus monogyna	Common Hawthorn	16-18	400-450	RB	3x; EHS; clear stem min. 200cm	1
CRA STR	Crataegus monogyna 'Stricta'	Hawthorn 'Stricta'	20-25	min 450	RB	3x; Semi-mature; clear stem min. 200cm	1
MAL TSC	Malus tschonoskii	Pillar Apple	20-25	500-550	RB	3x; Semi-mature; clear stem min. 200cm	5
PRU PLE	Prunus avium 'Plena'	Double Gean	20-25	500-550	RB	3x; Semi-mature; clear stem min. 200cm	1
PRU ROS	Prunus x subhirtella 'Autumnalis Rosea'	Autumn Cherry 'Rosea'	20-25	min 450	RB	3x; Semi-mature; clear stem min. 200cm	2
PYR CHA	Pyrus calleryana 'Chanticleer'	Flowering Pear 'Chanticleer'	20-25	500-550	RB	3x; Semi-mature; clear stem min. 200cm	5
SOR ARI	Sorbus aria	Whitebeam	20-25	min 450	RB	3x; Semi-mature; clear stem min. 200cm	4
SOR ROC	Sorbus 'Joseph Rock'	Rowan 'Joseph Rock'	20-25	500-550	RB	3x; Semi-mature; clear stem min. 200cm	1
Total							31

Grasses

Abbrev.	Botanical Name	Common Name	Root Zone	Specification	Qty
STI TEN	Stipa tenuissima	Mexican Feather Grass	5-7.5L	Full pot	39

Bulbs

Abbrev.	Botanical Name	Common Name	Specification	Qty
ALL GIA	Allium giganteum	an Ornamental Onion	Grade 18/20	34

RB, root balled trees have been selected with the assumption that they will be planted from the end of November to March. If this is not the case, then container grown trees may need to be selected.

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CLIENT:
Macbryde Homes Limited
PROJECT:
Former Gateacre Garden Centre,
Acrefield Road, Woolton
DRAWING TITLE:
Landscape Proposals

SCALE: 1:250 @A1
DATE: 29/09/2015
DRAWN BY: AS
CHKD BY: AM
DRAWING No: P.481.14.04(1)
REV:

GROUND PREPARATION

Subsoil shall meet the following specification:
Texture 5-50% clay
PH 6-7.5
Stones <20%
To be free from toxic substances, weed seeds, plastic, metals etc.

Subsoil shall be spread to a minimum of 250mm below new grass and shrub areas. Tree pits to be constructed as described in section 'Plant and Planting Specification'.

Subsoil to be spread by hand or using a back-acting track vehicle to cause minimum compaction and loss of soil structure. No soil handling shall be undertaken when the soil is wetter than the plastic limit.

Topsoil

Imported topsoil shall be General Purpose Grade as described in Table 2, Topsoil Characteristics of BS 3882: 1994 Specification for Topsoil. Soil shall be stored in heaps not exceeding 1.5 m high. Heaps shall be graded to shed water and avoid ponding, maintained in a weed-free condition and protected from contamination or trespass by heavy machinery.

Topsoil shall be lightly consolidated in layers not exceeding 150mm using track laying machinery. Works shall not be undertaken in periods of wet weather.

Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
400mm beneath new shrub areas.

Finished levels, after settlement, shall be as follows:
25mm above adjacent paving from new grassed areas.
75mm below adjacent paving and grass for mulched planting beds.
150mm below damp proof courses.

Ground Conditioning

40 litres of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

PLANT AND PLANTING SPECIFICATION

All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Specifications and Code of Practice:

BS3936: 1992 Part 1 Nursery Stock, Specification for Trees and Shrubs
BS3936: 1981 Part 10 Nursery Stock, Ground Cover Plants
BS4428: 1989 Recommendations for general landscaping operations
BS4043: 1989 Recommendations for transplanting root-balled trees
The Code of Practice for Plant Handling 1985 (Horticultural Trades Association)

Plant Stock

Plant stock to be supplied in accordance with the size and description specified on the plant schedule and position indicated on the drawing number.

Plant stock shall be of local provenance as far as possible and be healthy, vigorous, free from pests and diseases and hardened off for the proposed situation of planting and lifted at a time in accordance with good nursery practice. Stock shall have a well formed fibrous root system and be free from perennial weeds. The form of trees shall be in accordance with BS3936: Part 1:1992, Section 7, Form of Trees.

Container grown plants should be moist when received and watered before and on completion of planting.

All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planting in accordance with the procedures and methods illustrated in the publication, 'Plant Handling (Horticultural: Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root Balled Trees.

Bare-root trees and transplants should be kept with their roots enclosed in polythene bags as supplied and protected from sun and wind until immediately before planting. However, if it appears that the roots are dry, they should be immersed in water for up to 24 hours prior to planting.

Care should be taken when handling root-balled trees and lifting with hooks is recommended. Do not disturb or break up the root-ball during handling or planting.

Hedging plant stock should be well branched and fully furnished to the base.

All bare root stock shall be planting between November and April. If planting is to be carried out at any other time of the year, containerised stock shall be used. Plants shall be delivered to site in quantities that can be planted the same day. No plant roots shall be allowed to dry out.

Plant stock shall be watered in the same day with 5 litres per plant.

MULCH

All shrub beds shall be spread with a medium grade bark mulch to a settled depth of 75mm. Mulch to be free from fines, weeds, disease and contaminants.

WATERING

Plant stock to receive the following quantities of water:
Semi-mature trees: 75 litres each month between April and September
Shrub and transplants: 5 litres/plant on three occasions throughout the growing season.
Watering to be undertaken during the first 24 months.

TURF

Soil type: the soil in which the turf was grown should match as closely as possible the soil on which it will be laid.
Turf size: turf shall be supplied in either small rolls or big rolls. Small rolls will be 600mm wide and 1.65m long – total area 1m2. Big rolls can be supplied in a variety of sizes, to be agreed in advance.
General health of turf: the sward must be green and must not be visibly affected by any pest or disease.
Cutting height: the height of the sward when harvested should not exceed 35mm.
Thickness of thatch or fibre: the thickness of uncompressed thatch should be between 5 and 15mm.
Thickness of soil: the soil layer beneath the thatch should be between 5 and 15mm deep.

Preparation

At least 100mm topsoil is required for healthy growth of grass. Where there is no subsoil, at least 300m2 of topsoil is required. Supply and spread pre-turfing fertiliser over area to be turfed. Lightly cultivate, harrow and rake topsoil into a fine tilth suitable for final grading.
Remove all extraneous material including all debris and perennial weeds, and all surface stones in excess of 35mm. Rake to a true, even, consolidated surface. To avoid compaction do not work with wet soil.

Storage

Turf should be delivered to site within 36 hours of lifting (note: in spring and summer this period should be reduced to ensure turf is fresh and green on delivery).
Care should be taken whilst transporting to avoid deterioration or damage.
Turf is a highly perishable product, particularly in warm weather. Preparations should, therefore, be made to lay the turf as soon as possible after delivery. Turf should be laid the day of delivery during hot weather.
Turf is to be unloaded clear of those areas to be turfed. Prior to laying, turf should be stacked on flat level ground preferably in a shaded area.

Laying Turf

Start laying the turf along a straight side, butting the ends closely together.
On subsequent rows, stagger the joints like brickwork, making sure that there are no gaps. If you need to adjust the position of the turf after unrolling, always push it rather than pulling it to avoid stretching.
Work from planks laid on the newly laid turf to avoid making footprints.
Make sure that there is complete contact between the underside of the turf and the topsoil. If necessary, tamp or roll the turf lightly as you go along.
Try not to leave any gaps between the turfs, but if they do occur they should be filled with topsoil and lightly firmed

Watering

Water immediately after laying.
The first watering should ensure that the soil is damp to a depth of 100mm. Keep the turf, and the soil under it, damp – you can check this by turning up a corner of the turf.
Do not over-water the turf. Over-watering will create boggy conditions and promote grass diseases.
In the days following, water only in the morning and early evening.
Water less and less frequently over the first 28 days. The turf should never be allowed to dry out and go brown in this period.

GRASS SEEDING

Preparation for seeding

Remove weeds using a herbicide, then plough or dig to bury the surface vegetation. Harrow or rake to produce a medium tilth and roll, or treat to produce a firm surface.

Seed is best sown in the autumn or spring. The seed must be surface sown. Sow in overlapping sections. Firm in the seed with a roll or by treating to give good soil/seed contact.

TREE PLANTING

Preparing the planting hole

Ideally the planting hole should be at least 1.5 times the diameter and no deeper than the root ball, to give the plant a perfect start.

Remove any material from the hole which may stop root growth, and loosen the bottom and sides of the hole to make it easier for the roots to establish; this is especially important in heavy soils. Base of pit to be filled with 200mm of 3:1 mix of approved topsoil/compost.

Unloading and preparing the tree for planting

When unloading, trees should only be lifted by the root ball as lifting from the stem can cause considerable damage.

Remove any plastic packaging or bags from the root ball before planting. If trees are dispatched wrapped with hessian and wire mesh do not remove the hessian and wire mesh as they help reduce root damage when planting. They are bio-degradable and will start to decompose quickly, releasing the roots.

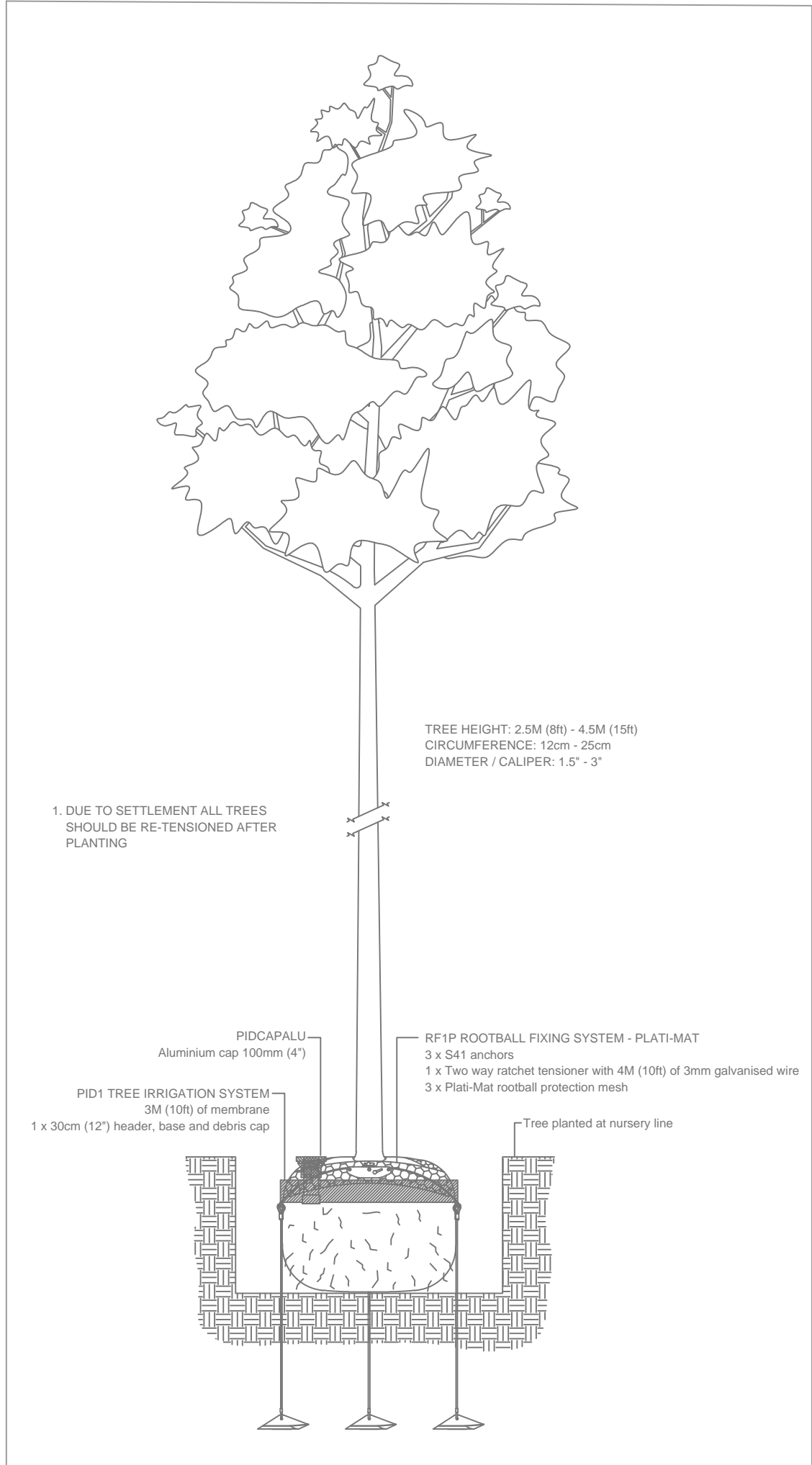
Untie the head of the tree, and gently tease the branches back into position.

Planting the tree

Trees to be centrally located and stem placed in an upright position.

An anchoring and irrigation system such as the one by Platipus in the drawing may be appropriate on this development to keep lines crisp and clean. Manufacturer's instructions for planting and fixing the system should be following.

Pit to be back-filled with a 3:1 mix of an approved topsoil/compost. Backfill firmly to 50mm above previous ground level to allow settlement.



Platipus earth anchoring and irrigation systems
RF1P - Rootball Fixing System Plati-Mat

REV	DESCRIPTION	DATE
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PROJECT: Former Gateacre Garden Centre, Acrefield Road, Woolton			
DRAWING TITLE: Landscape Proposals (Sheet 2 of 2)			
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