Plant specification and schedule

Project: Rheda Park Phase 2 Client: KCS Agriculture Ltd

Document no: 17

2004		
Revisions	Date	Notes
0	11.11.2021	original document
1	15.07.2022	amended for new layout



The below description of plant material and soft landscape operations is for the purpose of planning application only, and is not a substitute for the more detailed specification which would be required for the purpose of commercially tendering, implementing, establishing and maintaining a soft landscape contract.

Supplemental parkland trees to be planted in field to north of site

see planting plan for locations					RB = Rootball	ed			
					BR = bare roo	t and bagged			
					C x = Contain	er grown and s	ize Px = Pot a	nd diameter	Totals fo
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	Root protection and size	Number of breaks or branches	% of mix	Planting density / m ²	each species
Aesculus hippocastanum (Horse Chestnut)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45		n/a	n/a	1
Betula pendula (Birch)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	1
Castanea sativa (Sweet Chestnut)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1
Fagus sylvatica Beech)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1
Ilex aquifolium (Holly)		n/a	80 -100	n/a	C2	n/a	n/a	n/a	3
Pinus sylvestris (Scots Pine)		4X	125 - 150	n/a	RB	n/a	n/a	n/a	3
Prunus avium (Wild Cherry)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	1
Quercus petraea (Sessile Oak)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	2
							n/a	n/a	
	•		•	•	•		•	Total	13

Tree planting within the site

Individual Trees									
see planting plan for locations					RB = Rootball	ed			
					BR = bare roo	t and bagged			
					C x = Containe	er grown and s Number of breaks or	ize Px = Pot ar	nd diameter Planting	Totals for each
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	and size	branches	% of mix	density / m ²	species
Acer pseudoplatanus (Sycamore)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	2
Aesculus hippocastanum (Horse Chestnut)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1
Amelanchier lamarckii (Snowy Mespilus)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	2
Amelanchier alnifolia Obelisk (columnar Snowy Mespilus)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	5
Betula pendula (Birch)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	7
Carpinus betulus Frans Fontaine (columnar Hornbeam)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	3
Castanea sativa (Sweet Chestnut)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	1
Crataegus persimilus Prunifolia (Broadleaf Cockspur Thorn)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	2
Fagus sylvatica(Beech)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	2
Fagus sylvatica Dawk (Columnar Beech)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	1
Ilex aquifolium (Holly)		n/a	80 -100	n/a	C2	n/a	n/a	n/a	9
Malus sylvestris (Common Wild Crabapple)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	3
Prunus avium (Wild Cherry)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	11
Prunus padus (Bird Cherry)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	4
Quercus petraea (Sessile Oak)	Heavy Standard	3x	300 to 425	12 to 14	BR RB or C45	5 6 or 7	n/a	n/a	2
Sorbus aria Lutescens (Whitebeam)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	1
Sorbus aucuparia (Rowan)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	10
Sorbus aucuparia Streetwise (columnar Rowan)	Select Standard	2x	300 to 350	10 to 12	BR or C30	4 5 or 7	n/a	n/a	4
							n/a	n/a	
								Total	70

Specimen / clipped tre	ees and shrubs								
see planting plan for locations					RB = Rootbal	led			
					BR = bare roo	t and bagged			
					C x = Contain	er grown and s	ize Px = Pot a	nd diameter	Totals for
					Root	Number of		ъ	each
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	protection and size	breaks or branches	% of mix	Planting density / m ²	species
Ilex aquifolium (Holly)	clipped	4X	125 to 150	n/a	RB	n/a	n/a	n/a	8
Taxus baccata (Yew)	clipped	4X	125 to 150	n/a	RB	n/a	n/a	n/a	2
		*	-	*	*	•	•	Total	10

Shrub Beds																							
Plant in random groups of 9 - 13					RB = Rootba	lled			Bed referen	ce number					_					_			4
						ot and bagged			1	2 & 3	4	5	6	7	8	9	10 & 11	12	13 & 14	15 &16	17	18	4
					C x = Contair	ner grown and s	size Px = Pot	and diameter	Bed size(s)	in m²	l				T	ı			ı	T			4 /
					IBoot .	Number of																	Totals for
					Root	breaks or		Planting															each
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	and size		% of mix	density / m	2														species
TALLER FOR BACK OR CENTRE OF BEDS			3 2 (2)	, ,																			
Aucuba japonica Crotonifolia			60 - 80		C10	3 to 6	n/a	3		20							5				75		100
Eleagnus x Ebbingei Limelight			60 - 80		C10	3 to 6	n/a	3				30										25	55
Escallonia iveyi			60 - 80		C10	3 to 6	n/a	3					45										45
Grisellinia littoralis			60 - 80		C10	3 to 6	n/a	3	30										30				60
Mahonia media Winter Sun			60 - 80		C10	3 to 6	n/a	3		20													20
Prunus Iusitanica			60 - 80		C10	3 to 6	n/a	3		30													30
MEDIUM																							
Euonymus fortunei Emerald Gaiety			40 - 60		C5	3 to 6	n/a	4				35											35
Photinia fraseri robusta Compacta			40 - 60		C5	3 to 6	n/a	4			20							30					50
Prunus laurocerasus Otto Luyken			40 - 60		C5	3 to 6	n/a	4	45				50	25	i				60	25			205
Viburnum mariesii Plicatum			40 - 60		C5	3 to 6	n/a	4				20											20
LOW GROUND COVER PLANTS																							
Cotoneaster procumbens Queen of Carpets			30 - 40		C2	3 to 5	n/a	5		40					60			45	80)			225
Euonymus fortunei Darts Blanket			30 - 40		C2	3 to 5	n/a	5	45												85		130
Hedera colchica Dentata Variegata			20 - 30		C1	3 to 5	n/a	5								65	35						100
Pachysandra terminalis			20 - 30	-	C1	3 to 5	n/a	5				25					30					-	95
				Percer	ntages and	bed totals	3		120	110	20	110	95	25	60	65	70	115	170	25	160	25	1170

Total 1000

Shrubs and shrub beds to be microsited amo	ong existing mature trees to	avoid tree roots et	D.		RB = Rootba	lled			
					BR = bare ro	ot and bagged			
						ner grown and s	size Px = Pot a	nd diameter	Totals for
latin and common name	Fauna au babit	A	Height (am)	Cinth (ana)	Root protection	Number of breaks or	0/ of miss	Plants /	each
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	and size	branches	% of mix	linear metre	•
Corylus avellana	Transplant	1+1	n/a	40-60	BR		20%	0.5	10
Crataegus monogyna (hawthorn)	Transplant	1+1	n/a	40-60	BR		30%	0.5	15
Ilex aquifolium (holly)	-	-	n/a	40-60	3L		30%	0.5	15
Vibrunum opulus	Transplant	1+1	n/a	40-60	BR		20%	0.5	10
						Total	100%		
		•	_ .		•	•	•	Total	50

Semi-mature laurel hedge for western perimeter of site - Hedge refs A 13 lin m and H 124 linear m

see planting plan for location

Semi mature laurel instant trough-grown hedge 1.5m tall or taller.

All preparation, planting and aftercare to be in accordance with specialist nursery supplier's instructions

70 linear metres supplied in 1m long troughs

Native hedgerow for northern perimeter of site - Hedge ref T 198 linear m see planting plan for locations RB = Rootballed BR = bare root and bagged C x = Container grown and size Px = Pot and diameter | Root | INumber of | I Totals for each protection breaks or Plants / species Latin and common name Form or habit Girth (cm) Transplant 50 40-60 1+1 BR 5% Corylus avellana n/a Crataegus monogyna (hawthorn) Transplant 40-60 BR 50% 5 500 n/a Fagus sylvatica (beech) Transplant 1+1 40-60 BR 10% 100 n/a llex aquifolium (holly) n/a 40-60 3L 10% 5 100 50 Lonicera periclymenum 20-30 2L 5% 5 Transplant 40-60 2L 5% 50 Prunus padus 1+1 n/a Prunus spinosa (blackthorn) Transplant 1+1 40-60 BR 5% 50 n/a Transplant 40-60 BR 5% 50 Rosa canina 1+1 n/a Transplant 40-60 BR 5% 50 Vibrunum opulus 1+1 n/a 100% Total

Semi-native Hedges																							
					RB = Rootba	lled			Reference i	number													
					BR = bare ro	ot and bagged			В	С	D	E	F	G	I	J	K	L					
					C x = Contain	ner grown and s	size Px = Pot an	nd diameter	Lengths														
									32	8	34	12	28	20	7	13	14	20					Totals for
					Root protection	Number of breaks or		Plants /															each
Latin and common name	Form or habit	Age	Height (cm)	Girth (cm)	and size	branches	% of mix	linear metre															species
Corylus avellana	Transplant	1+1	n/a	40-60	BR		5%	5	8.0	2.0	9.0	3.0	7.0	5.0	2.0	4.0	4.0	5.0					49
Cotoneaster lacteus			60 - 80		C10		15%	5	24.0	6.0	26.0	9.0	21.0	15.0	6.0	10.0	11.0	15.0					143
Crataegus monogyna (hawthorn)	Transplant	1+1	n/a	40-60	BR		35%	5	56.0	14.0	60.0	21.0	49.0	35.0	13.0	23.0	25.0	35.0					331
Escallonia iveyi			60 - 80		C10		10%	5	16.0	4.0	17.0	6.0	14.0	10.0	4.0	7.0	7.0	10.0					95
Fagus sylvatica (beech)	Transplant	1+1	n/a	40-60	BR		10%	5	16.0	4.0	17.0	6.0	14.0	10.0	4.0	7.0	7.0	10.0					95
Griselinia littoralis			60 - 80		C10		10%	5	16.0	4.0	17.0	6.0	14.0	10.0	4.0	7.0	7.0	10.0					95
Ilex aquifolium (holly)	-	-	n/a	40-60	3L		5%	5	8.0	2.0	9.0	3.0	7.0	5.0	2.0	4.0	4.0	5.0					49
Prunus padus	Transplant	1+1	n/a	40-60	2L		5%	5	8.0	2.0	9.0	3.0	7.0	5.0	2.0	4.0	4.0	5.0					49
Vibrunum opulus	Transplant	1+1	n/a	40-60	BR		5%	5	8.0	2.0	9.0	3.0	7.0	5.0	2.0	4.0	4.0	5.0					49
				Percer	itages and	d bed totals	100%		160	40	173	60	140	100	39	70	73	100	0	0	0	0	955

					RB = Rootba	alled			Reference	number											
					BR = bare ro	ot and bagged			М	N	0	Р	Q	R	s						
						ner grown and s	ize Px = Pot a	nd diameter	Lengths							•		•			
									37	12	7	10	11	16	10						Totals fo
Latin and common name	Cown or bobit		Unight (am)	Girth (cm)	Root protection and size	Number of breaks or branches	0/ af miv	Plants /													each species
	Form or habit Transplant	1+1	Height (cm)	40-60	BR	branches	% of mix 5%	illiear metre	10.0	3.0	2.0	3.0	2.0	4.0	3.0						28
Corylus avellana	· · · · · · · · · · · · · · · · · · ·			40-60				5			2.0		3.0	1.0							259
Crataegus monogyna (hawthorn)	Transplant	1+1	n/a		BR		50%	5	93.0	30.0	18.0	25.0	28.0	40.0			+				
Fagus sylvatica (beech)	Transplant	1+1	n/a	40-60	BR		10%	5	19.0	6.0	4.0	5.0	6.0	8.0	5.0		_				53
Ilex aquifolium (holly)	-	-	n/a	40-60	3L		10%	5	19.0	6.0	4.0	5.0	6.0	8.0	5.0						53
Lonicera periclymenum	-	-	-	20-30	2L		5%	5	10.0	3.0	2.0	3.0	3.0	4.0	3.0						28
Prunus padus	Transplant	1+1	n/a	40-60	2L		5%	5	10.0	3.0	2.0	3.0	3.0	4.0	3.0						28
Prunus spinosa (blackthorn)	Transplant	1+1	n/a	40-60	BR		5%	5	10.0	3.0	2.0	3.0	3.0	4.0	3.0						28
Rosa canina	Transplant	1+1	n/a	40-60	BR		5%	5	10.0	3.0	2.0	3.0	3.0	4.0	3.0						28
Vibrunum opulus	Transplant	1+1	n/a	40-60	BR		5%	5	10.0	3.0	2.0	3.0	3.0	4.0	3.0						28
									0.0	0.0	0.0	0.0	0.0	0.0	0.0						0
									0.0	0.0	0.0	0.0	0.0	0.0	0.0						0
		•		Percer	tages and	d bed totals	100%		191	60	38	53	58	80	53	0 (n () 0	0	0	0 53

Establishment regime

Avoid the use of herbicides and pesticides - rely on manual, natural or organic measures wherever possible.

Do not use peat-based products.

All plants shall follow the National Plant Specification

All plants shall be fully labelled with supplier details, full botanical name, numbers and specification.

Avoid the use of plastics for tree shelters etc.

Year 1 establishment (seeding and planting year)

GROUND PREPARATION

Clear ground of all visible weeds, roots and stones with a diameter greater than 50mm

Cultivate ground to full depth of topsoil

Ensure topsoil depths are as follows:

- * for amenity grass 150mm deep after firming and settling
- * for shrub areas 450mm deep after firming and settling
- * for tree planting pits, 1m³ with bases of pits broken up to allow free drainage
- * for hedge and hedgerow trenches, 500mm wide by 500mm deep, with base of trench broken up to allow free drainage

Ensure finished topsoil levels are as follows (after settlement and allowing for mulches):

- * above ajoining hard surfaces: 25mm
- * below dpc of adjoining buildings: not less than 150mm
- * above adjacent to grass areas: 50mm

* adjoining soil areas: marry in

Allow fallow period before undertaking planting and seeding, and carry out final weed clear before those operations

Any imported topsoil shall be in accordance with BS 3882

Handle topsoil only in dry conditions.

SHRUB PLANTING

Carry out planting between November and March, inclusive

Ensure the surface is free of stones, weeds and litter.

Wet the soil to the full depth of topsoil, ensuring that surface is not unduly disturbed.

Incorporate soil ameliorant, conditioner and fertiliser in accordance with manufacturer's instructions, to a depth of 150mm

Ensure shrubs are in good condition, sturdy, healthy and vigorous without elongated shoots, and with balanced root and shoot systems.

Plant shrubs in positions and drifts as indicated on planting plan, at the correct densities, avoiding plants being set out in straight lines or grids. Protect shrubs with shelters and stakes

Protect new shrub planting in areas vulnerable to short cuts with chestnut pale fencing

Immediately after planting, water thoroughly without displacing plant or growing medium. Refirm soil afterwards

Mulch around the base of shrubs

TREE PLANTING

Carry out planting between November and March, inclusive

Ensure the surface is free of stones, weeds and litter.

Wet the soil to the full depth of topsoil, ensuring that surface is not unduly disturbed.

Incorporate soil ameliorant, conditioner and fertiliser in accordance with manufacturer's instructions, to the full depth of the tree pit.

Ensure trees are in good condition, sturdy, healthy and vigorous without elongated shoots, and with balanced root and branch systems. Prune any branches which are damaged

Plant trees in positions as shown on planting plan, modifying as necessary to avoid underground services, haunching, existing tree roots etc.

Support and protect trees with double stakes and ties, where possible using short stakes in preference to taller ones. Protect new tree planting from grazing with stock proof fence

Immediately after planting, water thoroughly without displacing tree or growing medium. Refirm soil afterwards. Mulch around the base of trees to a diameter of 1m.

Water regularly for first growing season, especially during drought periods.

HEDGE AND HEDGEROW PLANTING

Carry out planting between November and March, inclusive

Ensure the surface of the trench is free of stones, weeds and litter.

Wet the soil to the full depth of topsoil, ensuring that surface is not unduly disturbed.

Incorporate soil ameliorant, conditioner and fertiliser in accordance with manufacturer's instructions, to a depth of 150mm

Ensure shrubs are in good condition, sturdy, healthy and vigorous without elongated shoots, and with balanced root and shoot systems.

Plant in double staggered row at the correct density.

Protect hedgerow plants with shelters and stakes

Immediately after planting, water thoroughly without displacing plant or growing medium. Refirm soil afterwards.

Protect new hedging along garden frontages with chestnut pale fencing to the road-side of hedge

Protect hedgerows from cattle with stock proof fence

Mulch the full length and width of the hedge/row trench surface.

Water regularly for first growing season, especially during drought periods.

Undertake instant hedge planting in accordance with specialist nursery's detailed instructions

Suggested 5 year maintenance schedule

The below schedule is subject to amendment over the following 10 years to take account of unforseeable circumstances (e.g. new plant health threats, new building development, changes of use etc.) Yellow cells indicate the window of time in which to udertake the operation, not necessarily the number of operations required - see notes for each operation

Omenation	lamam.	Fahm.am.	Mayab	Ail	Mari	luma	lulu	A	Comt	Ootobou		D	Maka
Operation	January	February	March	April	May	June	July	August	Sept.	October	Nov	December	Notes :
General site-wide operations Inspect and maintain fencing, paying attention to stoo	\ <u> </u>												
proof and roadside fences	,												Inspect fences once each winter when foliage does not obscure fencelines or make repairs difficult.
Removal of temporary protective fencing													Remove temporary protective fencing during dormant season when no longer needed, predicted to be after approximately 3 years
Litter pick													Undertake litter pick once at beginning of winter and once at end of winter, when deciduous foliage does not impede work.
Amenity grass	January	February	March	April	May	June	July	August	Sept.	October	Nov	Dec	
Mowing													First mow of season to be 70mm, thereafter mow fortnighly between May and Oct to 50mm. Reduce mowing and increase height during drought.
Mowing of areas with bulbs													As above but delay first mow till approximately July to allow bulb leaves to replenish the plant.
Thatch and moss removal													Annually if required.
Making good any bare or weed infested areas													Annually if required: re-cultivate ground before sowing seed. Follow original establishment procedures.
Trim and re-form edges around beds etc													Annually if required.
Application of fertiliser													Two applications annually, April and September. Organic fertiliser.
- FF													The state of the s
Ground cover and shrubs	January	February	March	April	May	June	July	August	Sept.	October	Nov	Dec	
Inspection for plant failures and losses													Annually. For first five years only. After this it is predicted that the planting beds will be fully established and filled.
Control and reporting of disease or pests													As identified
Checking of stakes and shelters - replacement													Check at beginning of winter. Unless plant still requires protection and support remove all stakes and shelters by the end of year 3
Weed control													Weed once a month or as required during growing season, reducing frequency as plants fill out and bare ground decreases.
Plant replacement													Replace plants as early as possible in dormancy season. Follow same measures as for original establishment.
Application of fertiliser													One application early spring, using slow release organic fertiliser.
Pruning and thinning													Annually. For first five years, theareafter every two years. For appearance and plant health (e.g. diseased branches, overcrowding)
Watering													Water twice monthly between April and October as required for first three years. Beyond three years water only during periods of drought.
Watering													water twice monthly between Apin and October as required for first times years. Beyond times years water only during periods or drought.
Hedges	January	February	March	April	May	June	July	August	Sept.	October	Nov	Dec	
Inspection for plant failures and losses				-									Annually. For first five years only. After this it is predicted that the planting beds will be fully established and filled.
Control and reporting of disease or pests													As identified
Checking of stakes and shelters - replacement													Check at beginning of winter. Unless plant still requires protection and support remove all stakes and shelters by the end of year 3
Weed control													Weed once a month or as required during growing season, reducing frequency as hedgerow becomes dense and bare ground decreases.
Plant replacement													Replace plants as early as possible in dormancy season. Follow same measures as for original establishment.
Application of fertiliser													One application early spring, using slow release organic fertiliser.
Pruning													Prune annually to create dense informal shape to match appearance, size and shape of existing surrounding hedgerows. Ongoing.
Watering													Water twice monthly between April and October as required for first three years. Beyond three years water only during periods of drought.
watering													water twice monthly between April and October as required for hist times years, beyond times years water only during periods or drought.
Trees	January	February	March	April	May	June	July	August	Sept.	October	Nov	Dec	
Inspection for plant failures and losses													Annually. For first five years only. After this it is predicted that trees should be established.
Control and reporting of disease or pests													As identified
Checking of stakes and shelters - replacement													Check at beginning of winter. Unless tree still requires protection and support remove all stakes and shelters by the end of year 3.
Weed control													Keeo grass short around bases of trees with mulch mats, hand weeding or careful use of weedkiller no greater than 0.5m radius
Plant replacement													Replace trees as early as possible in dormancy season. Follow same measures as for original establishment.
Application of fertiliser													One application early spring, using slow release organic fertiliser.
Pruning and thinning													Annually. For first five years, theareafter every two years. For appearance and plant health (e.g. diseased branches, overcrowding)
Crown lifting for trees close to dwellings.													Suggested precautionary clause for future. First operation only after 5 years. Only to be undertaken to allow light or ease access near doors or windows.
Watering													Water twice monthly between April and October as required for first three years. Beyond three years water only during periods of drought.
													and the second second and required for more times yourse so yourse make make only during periods of droughts
						1							
L		ı									1		I .