Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'El'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted

Total :112 -

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	45m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.6m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	25.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	18.4m²
46 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata 'Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	8.9m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7m²
5 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	15.8m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 4 brks: C		2L	4/m²	10.4m²
10 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	3.3m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	25.9m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.8m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	10.8m²

Total :1554 - Total :428.7m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis "Tricolor"	Full Pot: C		3L	4/m²	1.6m²

Total :436 - Total :100.4m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
5247 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	20-40cm	2L	5/m	1039.7m

Total :1039.7m

Hawthorn Hedgerow

Number	Abbreviation	Species	Specification	Height	Density	Length
848 -	C mon	Crataegus monogyna	1+1 .Transplant - seed raised .B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	126.8m
133 -	FAGSY	Fagus sylvatica			5/m	26.3m

Total :153.1m

Grass Areas

Area	Seed Mix Name	Seed Mix Supplier	Density
929.4m²	RE3	Germinal	5g/m²
349.6m²	WF19	Germinal	2g/m²

Total :1279m²

Native Shrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
93 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	88.7m²
239 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	236.4m²
93 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	88.7m²
122 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	118.2m²
63 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	59m²

Total :610 - Total :591m²

Native Hedgerow Mix

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length
75 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
219 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	15%	32.4m
452 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	45%	97.5m
147 -	ILE AQU	Ilex aquifolium	1+0: Seedlings: CE	20-40cm	0.3Ctr Double Staggered at 0.3m offset	10%	21.6m
292 -	PRUSP	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	20%	43.3m
75 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m

Total :1460 - Total :216.4m

Landscape Layout Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.



DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID
LOCATED TO OS NG BY BEST FIT TO DETAIL,
EXTRACTED FROM OS DIGITAL DATA

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LANDSCAPE AND MAINTENANCE SPECIFICATION

All operations to comply with appropriate British Standards unless otherwise stated on drawings or in the specification.

GENERAL TREATMENT OF PLANTING AREAS

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations* Section 5 (Appendix C).

Damage to Plants to be Retained: If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:

- The removal of more than 25% of the branching of branches or roots
- The detaching of bucks or limbs.
- The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water.
- The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

1) GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:
During cultivating topsoil, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.

Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):
Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and suitable for sustaining plant life. Stockpiling of soil shall be avoided wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff into a watercourse, not exceeding 1.5 metres high.
The site of the stockpile will be prepared in advance by grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area.
Topsoil shall be carefully stockpiled in layers not exceeding 150mm using track laying machinery.
Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e.
During or shortly after heavy precipitation
When soil is in a waterlogged condition
When the ground is frozen or covered by snow
When soil is in a condition unsuitable for cultivation surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
Finished levels, after settlement, shall be as follows:
25mm above adjacent paving from new grassed areas and non-mulched shrub beds
75mm below adjacent paving and grass for mulched planting beds.
150mm below damp proof courses.

2) GROUND CONDITIONING
All trees of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

3) PLANT AND PLANTING SPECIFICATION
All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard recommendations and Codes of Practice:
BS 4043:2014 Trees: from nursery to independence in the landscape
BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 6 1987 Nursery stock (Specification for bulbs, corms and tubers)
BS 4428: 1989 Code of practice for general landscaping operations
BS 4428: 1989 Recommendations for general landscaping operations
BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn)
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 most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably 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 root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936 Part 1:1992, Section 7, Form of Trees.

Plant Handling:
All plant materials shall be lifted, bunched, labelled, packaged, transported, temporarily stored and planted in accordance with the recommendations contained in British Standard 4043 "Transplanting Root-balled Trees", (Horticultural Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root-balled Trees.

Tree Planting:
Trees to be of planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
Pits to be prepared to base and sides of pit to be further scarified.
Trees to be double staked using two stakes (75mm dia.) driven into ground 300mm below bottom of pit. Base of pit to be filled with 150mm of topsoil / compost mixture.
Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be save leave 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be Extra Heavy Standard minimum standard according to BS 3936: 1992 Part 1 Nursery Stock.
Specification for Trees and Shrubs. BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:
Stake all heavy standard trees with double short stakes. Stakes to be round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 450mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

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

Ornamental shrub planting:
To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant and backfill immediately. Pots to be thoroughly washed before re-use.
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
To be planted in groups of 3 planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Underlay formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Underlay formative pruning if necessary.

New single or mixed native hedgerows
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 300mm staggered spacing. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 20% perennial ryegrass, 55% fescues and 25% smooth stalked meadow grass. This mix is easy to maintain and will recover well from heavy wear.
Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:
Topsoil shall be spread to a depth of 300mm as per ground preparation and soil specification.
Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:
Public open spaces shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form smooth continuous surfaces to falls indicated.
Roll, fertilise at 50grms/sq m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower Seeding:
Seed mix shall be Germinal WF/G20 Eco Species Rich Lawn, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 6 weeks after sowing or when reaches 70-mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the proposed pond. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

4) MAINTENANCE AND MANAGEMENT

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Management Company during which time the following operations shall be carried out:

Regular visits:
Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Remove fresh spillage
- Re-firming plant stock to ensure the new planting is at planting to upright positions.
- Adjust stakes and ties as necessary
- Prune plant stock as required to encourage good form
- Check all plant stock and report signs of pests, disease, death and damage

Mulch:
Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:
Plant stock to receive the following minimum quantities of water:
Extra Heavy Standard trees 50 litres each month between April and September
Heavy Standard trees 25 litres each month between April and September
Shrubs and transplants 5 litres/plant on three occasions throughout growing season.
Watering to be undertaken during the first 24 months as needed to maintain plant health.

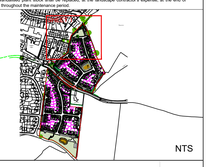
Grass Maintenance:
Grass shall be cut throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary and clippings removed.

Wildflower Maintenance :
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF/G20 Eco Species Rich Lawn Maintenance:
Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Spring Sown: during the first year: first cut to be early to early September to maintain a sward of approximately 70-100mm.
Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

New trees/shrub planting
Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, thin and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter.

Plant replacements:
All dead, dying and established plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.



NTS

REV	DESCRIPTION	DATE
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Wrexham

DRAWING TITLE:
Planting Plan (Sheet 1 of 5)

SCALE:	DRAWING No:	REV:
1:200 @ A0	P.1416.20.02	L

DRAWN BY:	CHKD BY:	DATE:
CN	CO	20/01/2021

Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'Ef'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total :112 -						

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	48m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	5.6m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	10.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
51 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	25.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4m²
49 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
6 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	3L	3/m²	2.7m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	8.9m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7m²
6 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	15.3m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C		2L	4/m²	10.4m²
8 -	PRU LUS	Prunus lusitanica	Bushy: 7 brks: C	30-40cm	3L	2/m²	3.3m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7.7m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	25.9m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.9m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	3.6m²
Total :1554 -							Total :428.7m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8m²
33 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.7m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha "Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6m²
Total :436 -							Total :100.4m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
5247 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	20-40cm	2L	5/m	1039.7m
							Total :1039.7m

Hawthorn Hedgerow

Number	Abbreviation	Species	Specification	Height	Density	Length
848 -	C mon	Crataegus monogyna	1+1 :Transplant - seed raised :B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	126.8m
133 -	FAGSY	Fagus sylvatica			5/m	26.3m
						Total :153.1m

Grass Areas

Area	Seed Mix Name	Seed Mix Supplier	Density
929.4m²	RE3	Germinal	5g/m²
349.6m²	WF19	Germinal	2g/m²
Total :1279m²			

Native Shrub Mix

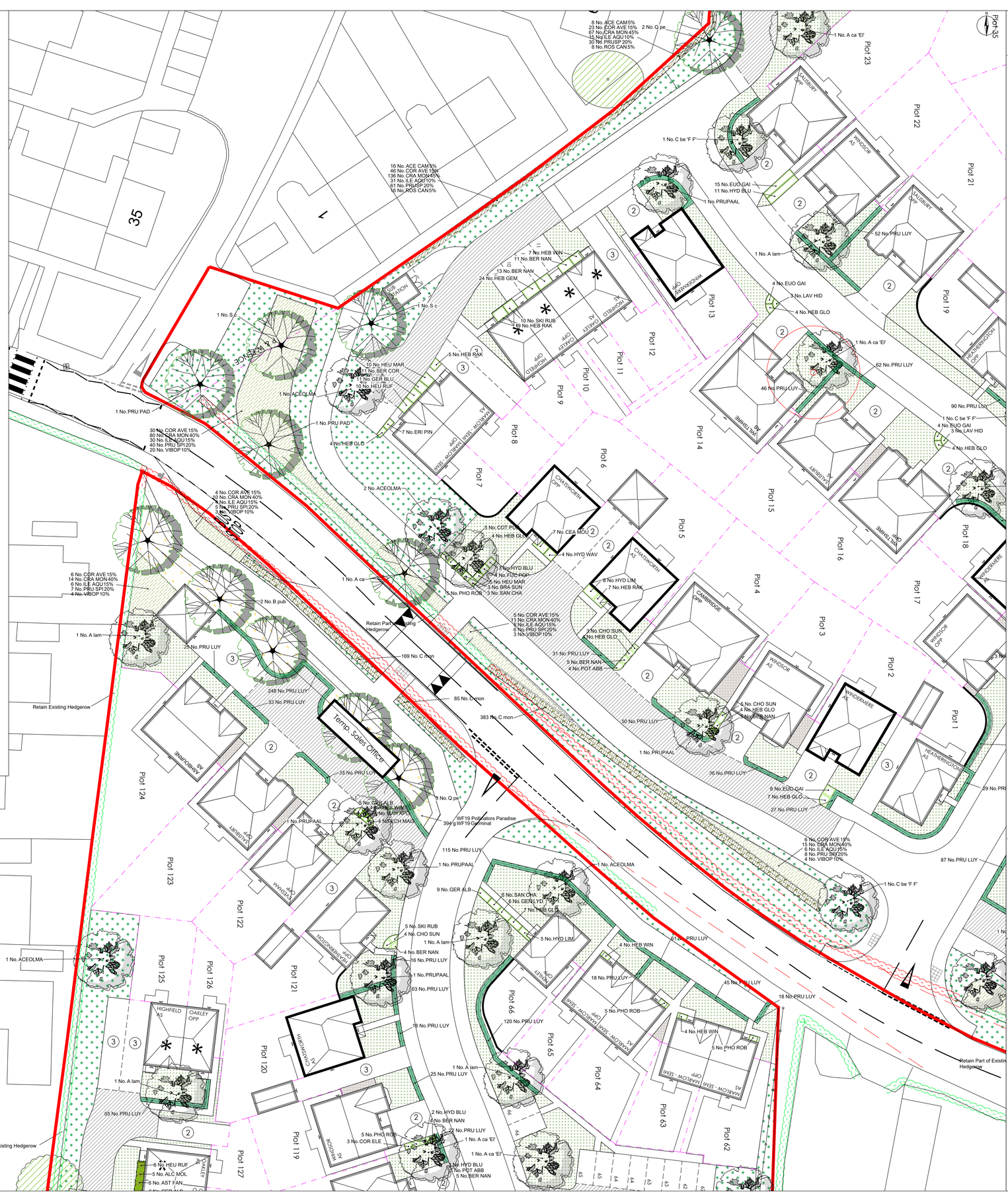
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
93 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	88.7m²
239 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	236.4m²
93 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	88.7m²
122 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	118.2m²
63 -	VIB OP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	59m²
Total :610 -								Total :591m²

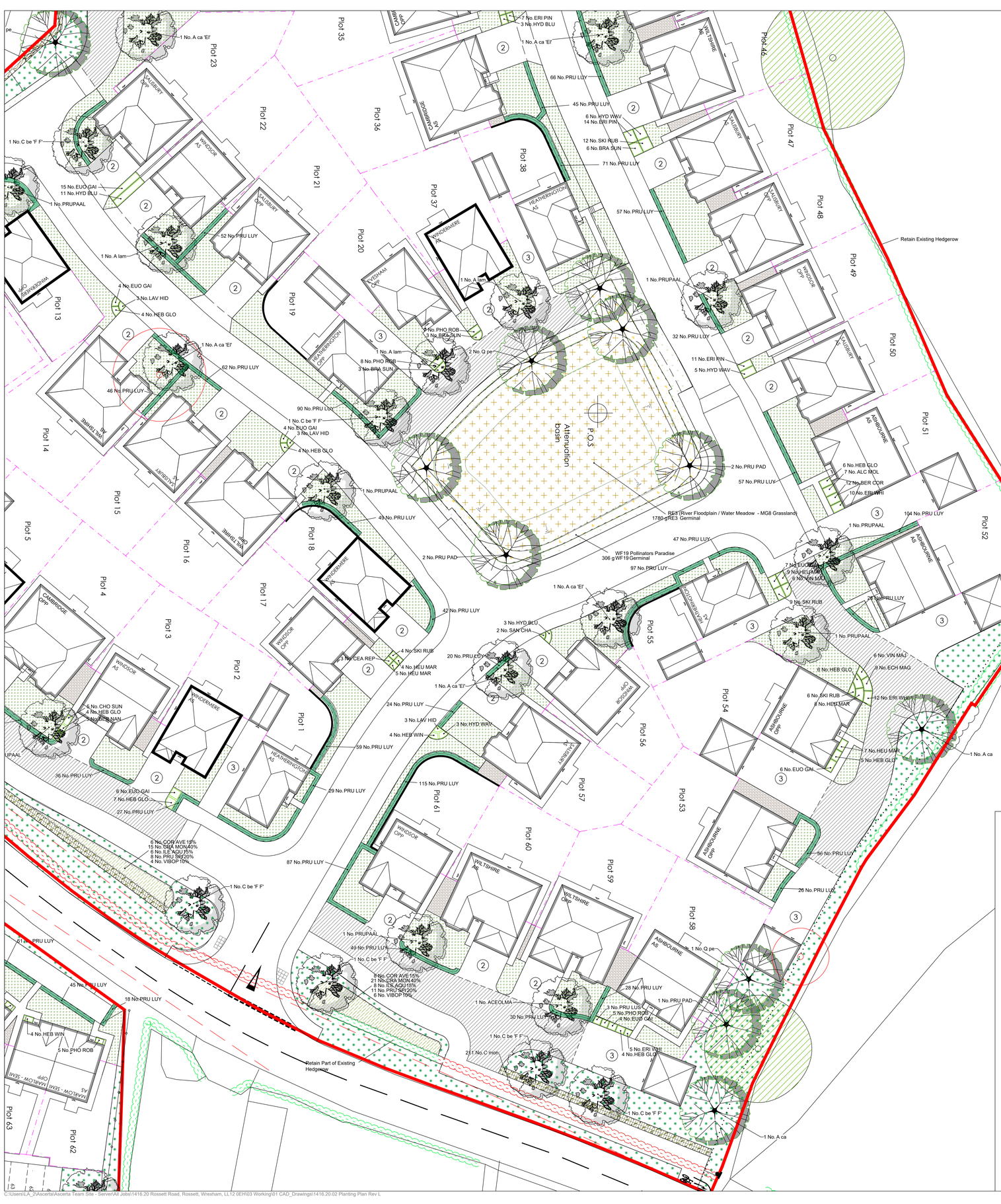
Native Hedgerow Mix

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length
75 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
219 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	15%	32.4m
652 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	45%	97.5m
147 -	ILE AQU	Ilex aquifolium	1+0: Seedlings: GE	20-40cm	0.3Ctr Double Staggered at 0.3m offset	10%	21.6m
292 -	PRUSP	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	20%	43.3m
75 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
Total :1460 -							Total :216.4m

Landscape Layout Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.


Plot 35
Plot 23
Plot 22
Plot 21
Plot 19
Plot 18
Plot 17
Plot 16
Plot 15
Plot 14
Plot 13
Plot 12
Plot 11
Plot 10
Plot 9
Plot 8
Plot 7
Plot 6
Plot 5
Plot 4
Plot 3
Plot 2
Plot 1
Plot 124
Plot 123
Plot 122
Plot 121
Plot 120
Plot 119
Plot 127
Plot 125
Plot 126
Plot 65
Plot 64
Plot 63
Plot 62
8 No. ACE CAM 5%
23 No. COR AVE 15%
67 No.CRA MON 45%
15 No.ILE AQU 10%
30 No. PRU SP 20%
8 No.ROS CAN 5%
2 No. Q pe
1 No. A ca 'Ef'
1 No. C be 'F F'
15 No. EUO GAI
11 No. HYD BLU
1 No. PRUPAAL
52 No. PRU LUY
1 No. A lam
4 No. EUO GAI
3 No. LAV HID
4 No. HEB GLO
62 No. PRU LUY
46 No. PRU LUY
90 No. PRU LUY
1 No. C be 'F F'
4 No. EUO GAI
3 No. LAV HID
4 No. HEB GLO
16 No. ACE CAM 5%
46 No. COR AVE 15%
136 No. CRA MON 45%
31 No. ILE AQU 10%
61 No. PRU SP 20%
16 No. ROS CAN 5%
7 No. HEB WIN
11 No. BER NAN
13 No. BER NAN
24 No. HEB GEM
10 No. SKI RUB
10 No. HEB RAK
5 No. HEB RAK
1 No. S c
1 No. ACEOLMA
1 No. PRU PAD
30 No. COR AVE 15%
80 No. CRA MON 40%
30 No. ILE AQU 15%
40 No. PRU SPI 20%
20 No. VIBOP 10%
4 No. HEB GLO
10 No. HEU MAR
11 No. BER COR
11 No. GER BLU
10 No. HEU RUF
7 No. ERI PIN
2 No. ACEOLMA
4 No. COR AVE 15%
10 No. CRA MON 40%
5 No. ILE AQU 15%
5 No. PRU SPI 20%
10 No. VIBOP 10%
5 No. COT PUR
4 No. HEB GLO
7 No. CEA MOU
4 No. HYD WAV
3 No. HYD BLU
4 No. FUC POP
5 No. HEU MAR
3 No. BRA SUN
3 No. SAN CHA
5 No. PHO ROB
6 No. COR AVE 15%
14 No. CRA MON 40%
6 No. ILE AQU 15%
7 No. PRU SPI 20%
4 No. VIBOP 10%
1 No. A lam
25 No. PRU LUY
2 No. B pub
Retain Part of Existing Hedgerow
169 No. C mon
85 No. C mon
383 No. C mon
248 No. PRU LUY
33 No. PRU LUY
Retain Existing Hedgerow
Temp. Solex Office
33 No. PRU LUY
5 No. GER ALB
6 No. HEB WIN
4 No. MAH APO
4 No. ECH MAG
1 No. PRUPAAL
3 No. Q pe
394 q WF19 Geminal
WF19 Pollinators Paradise
5 No. COR AVE 15%
11 No. CRA MON 40%
5 No. ILE AQU 15%
5 No. PRU SPI 20%
3 No. VIBOP 10%
3 No. CHO SUN
1 No. HEB GLO
31 No. PRU LUY
5 No. BER NAN
4 No. POT ABB
50 No. PRU LUY
1 No. PRUPAAL
35 No. PRU LUY
6 No. CHO SUN
4 No. HEB GLO
6 No. EUO GAI
7 No. HEB GLO
27 No. PRU LUY
29 No. PRU
115 No. PRU LUY
1 No. PRUPAAL
9 No. GER ALB
1 No. ACEOLMA
6 No. COR AVE 15%
15 No. CRA MON 45%
6 No. ILE AQU 15%
8 No. PRU SPI 20%
4 No. VIBOP 10%
1 No. C be 'F F'
87 No. PRU LUY
6 No. SAN CHA
6 No. GER LYD
7 No. HEB GLO
5 No. HYD LIM
4 No. HEB WIN
5 No. SKI RUB
4 No. CHO SUN
1 No. A lam
4 No. BER NAN
16 No. PRU LUY
1 No. PRUPAAL
63 No. PRU LUY
81 No. PRU LUY
18 No. PRU LUY
45 No. PRU LUY
18 No. PRU LUY
5 No. PHO ROB
4 No. HEB WIN
5 No. PHO ROB
120 No. PRU LUY
18 No. PRU LUY
1 No. A lam
25 No. PRU LUY
2 No. HYD BLU
4 No. BER NAN
22 No. PRU LUY
5 No. PHO ROB
3 No. COR ELE
1 No. A ca 'Ef'
1 No. A ca 'Ef'
2 No. HYD BLU
5 No. POT ABB
5 No. BER NAN
65 No. PRU LUY
6 No. HEU RUF
5 No. ALC MOL
6 No. AST FAN
Retain Existing Hedgerow
Retain Part of Existing Hedgerow
Retain Existing Hedgerow
Retain Existing Hedgerow
Retain



Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'El'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Alberti'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted

Total :112 -

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
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46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2m²
22 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.6m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	7/m²	25.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4m²
46 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	2L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	8.9m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7m²
6 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	15.8m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 4 brks: C		2L	4/m²	10.4m²
8 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	3.3m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 5 brks: C	30-40cm	3L	4/m²	25.9m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.9m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	3.6m²

Total :1554 - Total :428.7m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6m²

Total :436 - Total :100.4m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
5247 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	20-40cm	2L	5/m	1039.7m

Total :1039.7m

Hawthorn Hedgerow

Number	Abbreviation	Species	Specification	Height	Density	Length
848 -	C mon	Crataegus monogyna	1+1 :Transplant - seed raised :B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	126.8m
133 -	FAGSY	Fagus sylvatica			5/m	26.3m

Total :153.1m

Grass Areas

Area	Seed Mix Name	Seed Mix Supplier	Density
929.4m²	RE3	Germinal	5g/m²
349.6m²	WF19	Germinal	2g/m²

Total :1279m²

Native Shrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
93 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	88.7m²
239 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	236.4m²
93 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	88.7m²
122 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	118.2m²
63 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	59m²

Total :610 - Total :591m²

Native Hedgerow Mix

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length
75 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
219 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	15%	32.4m
652 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	45%	97.5m
147 -	ILE AQU	Ilex aquifolium	1+0: Seedlings: CE	20-40cm	0.3Ctr Double Staggered at 0.3m offset	10%	21.6m
292 -	PRUSP	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	20%	43.3m
75 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m

Total :1460 - Total :216.4m

DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NG BY BEST FIT TO DETAIL, EXTRACTED FROM OS DIGITAL DATA

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LANDSCAPE AND MAINTENANCE SPECIFICATION

All operations to comply with appropriate British Standards unless otherwise stated on drawings or in the specification.

GENERAL TREATMENT OF PLANTING AREAS

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations* Section 5 (Appendix C).

Damage to Plants to be Retained: If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:

- The removal of more than 25% of the canopy of branches or roots
- The debarking of trunks or limbs
- The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water.
- The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

1) GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:
Prior to receiving topsoil, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.

Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):
Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and suitable for sustaining plant life. Stockpiling of soil shall be avoided wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff into a watercourse, not exceeding 1.5 metres high.
The site of the stockpile will be prepared in advance by grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area.
Topsoil shall be carefully stockpiled in layers not exceeding 150mm using track laying machinery.
Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e.
During or shortly after heavy precipitation
When soil is in a waterlogged condition
When the ground is frozen or covered in snow
When soil is in a condition unsuitable for working upon.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
Finished levels, after settlement, shall be as follows:
25mm above adjacent paving from new grassed areas and non-mulched shrub beds
75mm below adjacent paving and grass for mulched planting beds.
150mm below damp proof courses.

2) GROUND CONDITIONING
3 litres of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

3) PLANT AND PLANTING SPECIFICATION
All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard Publications (latest edition):
BS 8545:2014 Trees: from nursery to independence in the landscape.
BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5 1987 Nursery stock (Specification for bulbs, corms and tubers)
BS 4043: 1989 Transplanting root-balled trees (withdrawn) (Recommendations for planting)
BS 4428: 1989 Recommendations for general landscaping operations.
BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn)
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 most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably 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 root system and be free from perennial weeds. The form of trees shall be in accordance with BS 3936 Part 1:1992, Section 7, Form of Trees.

Plant Handling:
All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the following British Standard Publications: BS 4043:1989 Transplanting Root-balled Trees' (Horticultural Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root-balled Trees.

Tree Planting:
Trees to be pit planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
Pits to be prepared to base and sides of pit to be further scarified.
Trees to be double staked using two stakes (75mm dia.), driven into ground 300mm below bottom of pit. Base of pit to be filled with 150mm of topsoil / compost, Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be sawn 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be fully guyed using Netlon to minimum standard according to BS 3936: 1992 Part 1 Nursery Stock. Specification for Trees and Shrubs. BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:
Stake all heavy standard trees with double short stakes. Stakes to be round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

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

Ornamental shrub planting:
To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant and backfill immediately. Plants to be planted between November and March.
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
To be planted in a trench prepared planting bed 0.6metre wide. Planted to be centrally in a single row. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.
Prune back to a height of 1 metres.

New single or mixed native hedgerows
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row. 300mm between plants and 400mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of: 20% perennial ryegrass, 55% fescues and 25% smooth stalked meadow grass. This mix is easy to maintain and will recover well from wear and tear.
Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:
Topsoil shall be supplied to a depth of 300mm as per ground preparation and soil specification.
Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:
Public open spaces shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form reasonable contours and to allow for settlement.
Roll, fertilise at 50g/sq.m, 15-15-15 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower Seeding:
Seed mix shall be Germinal WF120 Eco Species Rich Lawn, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the proposed pond. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

4) MAINTENANCE AND MANAGEMENT
Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Maintenance Company during which time the following operations shall be carried out:

Regular visits:
Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Remove fallen spillage
- Re-firming plant stock to ensure the new planting is at planting to upright positions.
- Adjust stakes and ties as necessary
- Prune plant stock as required to encourage good form
- Check all plant stock and report signs of pests, disease, death and damage

Mulch:
Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:
Plant stock to receive the following minimum quantities of water:
Extra Heavy Standard trees 50 litres each month between April and September
Heavy Standard trees 25 litres each month between April and September
Shrubs and transplants 3 litres/plant on three occasions throughout growing season.
Watering to be undertaken during the first 24 months as needed to maintain plant health.

Grass Maintenance:
Grass shall be cut throughout the growing season to maintain a sward of approximately 35mm. Shall be edged, watered as necessary and clippings removed.

Wildflower Maintenance:
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF120 Eco Species Rich Lawn Maintenance:
Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Spring Sown: during the first year: first cut to early September to maintain a sward of approximately 70-100mm.
Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

New trees/shrub planting
Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, thin and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter.

Plant replacements:
All dead, dying and established plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.

Landscape Layout Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.



NTS

REV	DESCRIPTION	DATE
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT: Castle Green Homes

PROJECT: Rossett Road, Wrexham

DRAWING TITLE: Planting Plan (Sheet 3 of 5)

SCALE:	DRAWING No:	REV:
1:200 @ A0	P.1416.20.02	L

DRAWN BY:	CHKD BY:	DATE:
CN	CO	20/01/2021

Native Hedgerow Mix							
Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length
75 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
219 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	15%	32.4m
652 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	45%	97.5m
147 -	ILE AQU	Ilex aquifolium	1+0: Seedlings: CE	20-40cm	0.3Ctr Double Staggered at 0.3m offset	25%	21.6m
292 -	PRUSP	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	20%	43.3m
75 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
Total :1460 -							Total :216.4m

Trees						
Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
13 -	A ca 'E'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	16-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total :112 -						

Shrubs							
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	45m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
3 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.8m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.6m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
37 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	25.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
69 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4m²
98 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata 'Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	5.6m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7m²
9 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	1.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	10.8m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C		3L	4/m²	10.4m²
8 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	3.3m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	2.3m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	25.9m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 3 brks: C	20-30cm	3L	3/m²	3.9m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	5.6m²
Total :1554 -							Total :428.2m²

Herbaceous							
Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6m²
Total :436 -							Total :100.4m²

Formal Hedge							
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
5247 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	20-40cm	2L	5/m	1039.7m
							Total :1039.7m

Hawthorn Hedgerow						
Number	Abbreviation	Species	Specification	Height	Density	Length
848 -	C mon	Crataegus monogyna	1+1 :Transplant - seed raised :B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	126.8m
133 -	FAGSY	Fagus sylvatica			5/m	26.3m
						Total :153.1m

Grass Areas				
Area	Seed Mix Name	Seed Mix Supplier	Density	
929.4m²	RE3	Germinat	5g/m²	
349.6m²	WF19	Germinat	2g/m²	
Total :1279m²				

Native Shrub Mix								
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
93 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	88.7m²
239 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	236.4m²
93 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	88.7m²
122 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	118.2m²
63 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	59m²
Total :610 -								Total :591m²

Native Hedgerow Mix

Landscape Layout Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
- Proposed ornamental planting on 400mm depth of topsoil with 75mm bark mulch.
- Proposed native tree planting, tree pit and double staking as detailed in the specification.
- Small ornamental tree/ large shrub planting, tree pit and double staking as detailed in the specification.
- Proposed single or mixed native hedgerow planted in a double staggered row at 0.3m centres and 0.3 offset. Bare root transplants with shelter guard tubes and stakes.
- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
- Front gardens to be turfed on 150mm topsoil.
- Public open space to be sown with Germinal AberSustain mix, or similar approved, to be sown at a rate of 40g/m2 on 150mm topsoil.
- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.

Retain Part of Existing Hedgerow

Footpath Link

Lane Farm

DO NOT SCALE

ALL COORDINATES RELATED TO LOCAL GRID LOCATED TO OS NG BY BEST FIT TO DETAIL, EXTRACTED FROM OS DIGITAL DATA

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LANDSCAPE AND MAINTENANCE SPECIFICATION

All operations to comply with appropriate British Standards unless otherwise stated on drawings or in the specification.

GENERAL TREATMENT OF PLANTING AREAS

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations* (See Section 5 (Appendix C)).

Damage to Plants to be Retained: If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:

- The removal of more than 25% of the branching of branches or roots
- The debarking of trunks or limbs
- The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water
- The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

1) GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:
Where ripping is required, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.

Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):
Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and shall be suitable for sustaining plant life. Stockpiling of soil shall be avoided wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water run-off into a watercourse, not exceeding 1.5 metres high.
The site of the stockpile will be prepared in advance by grazing, removing rubbish and ensuring no fuel or chemicals were previously stored in area.
Topsoil shall be carefully handled in layers not exceeding 150mm using track laying machinery.
Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e.
During or shortly after heavy precipitation
When soil is in a waterlogged condition
When the ground is frozen or covered by snow
When soil is in a condition unsuitable to provide surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm deep below shrub areas.
Finished levels, after settlement, shall be as follows:
25mm above adjacent paving from new grassed areas and non-mulched shrub beds
75mm below adjacent paving and grass for mulched planting beds.
100mm below damp proof courses.

2) GROUND CONDITIONING
50 litres of compost is be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

3) PLANT AND PLANTING SPECIFICATION
All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard recommendations for nursery stock:
BS 8545:2014 Trees: from nursery to independence in the landscape.
BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5 1987 Nursery stock (Specification for bulbs, corms and tubers)
BS 4428: 1989 Code of practice for general landscape operations (excluding hard surfaces)
BS 4428: 1989 Recommendations for transplanting root-balled trees. (withdrawn)
BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn)
The Code of Practice for Plant Handling 1985. (Horticulture 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 most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably 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 root system, be true to form and be free from perennial weeds. The form of trees shall be in accordance with BS 3936 Part 1992, Section 1, Form of Trees.

Plant Handling:
All plant materials shall be lifted, bundled, labelled, packaged, transported, temporarily stored and planted in accordance with the following recommendations: BS 4428: 1989 Section 4.2 "Handling and Handling" (Horticulture Trades Association) and relevant sections of BS 4043: 1989 Transplanting Root-Balled Trees.

Tree Planting:
Trees to be of planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
Pits to be prepared to base and sides of pit to be further scarified.
Trees to be double staked using two stakes (75mm dia.), driven into ground 300mm below bottom of pit. Base of pit to be filled with 150mm of topsoil / compost, backfill firmly.
Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be save leave 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be supplied to the British Standard standard according to BS 3936: 1992 Part 1 Nursery Stock.
Specification for Trees and Shrubs, BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:
Stake all heavy standard trees with double short stakes. Stakes to be round timber with chamfered tops. Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 20mm of top of stake.

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

Ornamental shrub planting:
To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant and backfill with excavated soil. Plants to be planted in groups of 3, 5 or 7 of the same species.
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
Plants shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties. Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
Plants shall be planted in a previous prepared planting bed 5-timete wide. Planted to be centrally in a single row. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

New single or mixed native hedgerows
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 5metre wide. Planted to be centrally in a double row, 300mm staggered and 300mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of: 20% perennial ryegrass, 55% fescues and 25% smooth stalked meadow grass. This mix is easy to maintain and will recover well from wear and tear.
Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:
Topsoil shall be supplied to a depth of 300mm as per ground preparation and soil specification.
Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:
Public open spaces shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form flush transitions with adjacent features.
Rick fertilise at 50g/sq.m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower Seeding:
Seed mix shall be Germinal WF20 Eco Species Rich Lawn, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70-mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the proposed water course. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

4) MAINTENANCE AND MANAGEMENT

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Management Company during which time the following operations shall be carried out:

Regular visits:
Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Sweep mulch spillage
- Re-firming plant stock to ensure the new planting is at planting to upright positions.
- Replacement of failed plant stock
- Prune plant stock as required to encourage good form.
- Check all plant stock and report signs of pests, disease, death and damage

Mulch:
Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:
Plant stock to receive the following minimum quantities of water:
Extra Heavy Standard trees:50 litres each month between April and September
Heavy Standard trees: 25 litres each month between April and September.
Shrubs and transplants: 5 litres/plant on three occasions throughout growing season.
Watering to be undertaken during the first 24 months as needed to maintain plant health.

Grass Maintenance:
Grass shall be cut regularly throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary and clippings removed.

Wildflower Maintenance:
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF/20 Eco Species Rich Lawn Maintenance:
Autumn Sown: during the first year: first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 2 times a year mid-July to early September to maintain a sward of approximately 70-100mm.
Spring Sown: during the first year: first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm.
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

New tree/shrub planting
Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, thin and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter.

Plant replacements:
All dead, dying and vandalised plant stock shall be replaced at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.

NTS

REV	DESCRIPTION	DATE
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT: Castle Green Homes
PROJECT: Rossett Road, Wrexham
DRAWING TITLE: Planting Plan (Sheet 4 of 5)
SCALE: 1:200 @ A0
DRAWING No: P.1416.20.02
REV: L
DRAWN BY: CN
CHKD BY: CO
DATE: 20/01/2021

C:\Users\LA_2\Ascerta\Ascerta Team Site - Server\All Jobs\1416.20 Rossett Road, Rossett, Wrexham, LL12 0EH\03 Working\01 CAD_Drawings\1416.20.02 Planting Plan Rev L



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Landscape Layout Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees to be removed
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- Proposed native tree planting, tree pit and double staking as detailed in the specification.
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- Proposed single/ mixed native species formal hedge planted in a single row at 0.2 centres. Container transplants.
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- Public open space to be sown with Germinal Eco Species Rich Lawn mix, or similar approved, to be sown at a rate of 10g/m2 on 150mm topsoil.
- Native tree / shrub planting to be planted as 60-80cm whip planting at 1m centres, for additional wildlife habitat.
- Wildflower seeding, Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), to the existing water course to public open space to be sown at 5g/m2.
- Wildflower seeding, WF19 Pollinators Paradise, to the public open space to be sown at 2g/m2.

Plant Schedule

Trees

Number of Plants	Abbreviation	Species	Specification	Height	Girth	Density
6 -	A ca	Acer campestre	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
153 -	A ca 'El'	Acer campestre 'Elsrijk'	Heavy Standard: 5 brks: 3x: RB: Clear Stem minimum 200cm	350-425cm	12-14cm	Counted
8 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
14 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
2 -	BET PEN	Betula pendula	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	PRUPADA	Prunus padus	Extra Heavy Standard: 3x: RB: Clear Stem min. 200cm	450-500cm	18-20cm	Counted
15 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
10 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
3 -	QUE ROB	Quercus robur	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
4 -	S c	Salix caprea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
Total :112 -						

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
192 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²	45m²
46 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²	20.2m²
7 -	CEA MOU	Ceanothus 'Blue Mound'	Branched: 5 brks: C		3L	3/m²	2.2m²
3 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²	1m²
5 -	CHO PEA	Choisya 'Aztec Pearl'	Bushy: 5 brks: C	30-40cm	3L	3/m²	1.6m²
12 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²	3.5m²
4 -	CIS PIN	Cistus 'Silver Pink'	Bushy: 4 brks: C	20-30cm	3L	3/m²	1.2m²
3 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²	0.9m²
18 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²	5.5m²
9 -	ELA EBB	Elaeagnus x ebbingei	Branched: 3 brks: C	30-40cm	3L	3/m²	2.7m²
151 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²	28.8m²
92 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²	17.3m²
190 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²	58.7m²
14 -	EUO QUE	Euonymus fortunei 'Silver Queen'	Bushy: 5 brks: C	20-30cm	3L	4/m²	3.4m²
4 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²	1.2m²
9 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²	2.8m²
87 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²	25.8m²
24 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	7/m²	3.4m²
99 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²	20.4m²
46 -	HEB RAK	Hebe rakaiensis	Bushy: 5 brks: C		3L	3/m²	14.2m²
29 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²	12.8m²
13 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²	4.2m²
61 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²	27.1m²
32 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²	8.9m²
9 -	LON PIL	Lonicera pileata	Bushy: 6 brks: C		3L	3/m²	2.8m²
36 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²	8.7m²
93 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²	21.7m²
8 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²	2.8m²
51 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²	15.8m²
44 -	POT ELI	Potentilla fruticosa 'Elizabeth'	Bushy: 3 brks: C		2L	4/m²	10.4m²
8 -	PRU LUS	Prunus lusitanica	Bushy: 4 brks: C	30-40cm	3L	2/m²	3.3m²
23 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²	7m²
109 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²	25.9m²
10 -	SPI PRI	Spiraea japonica 'Little Princess'	Bushy: 7 brks: C	20-30cm	3L	3/m²	3.9m²
14 -	VIB DAV	Viburnum davidii	Bushy: 3 brks: C	20-30cm	3L	3/m²	4.4m²
19 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²	7.6m²
12 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²	3.6m²
Total :1554 -							Total :428.7m²

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density	Area
23 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²	7.1m²
20 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²	4.6m²
14 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²	3.4m²
47 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²	8.8m²
13 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²	3.1m²
10 -	EUP ROB	Euphorbia amygdaloides robbiae	Full Pot: C		3L	5/m²	1.9m²
54 -	GER BLU	Geranium 'Johnson's Blue'	Full Pot: C		3L	4/m²	12.5m²
55 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²	12.4m²
35 -	HEU RUF	Heuchera 'Chocolate Ruffles'	Full Pot: C		3L	4/m²	8.2m²
123 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²	29m²
23 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²	5.1m²
12 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²	2.7m²
7 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²	1.6m²
Total :436 -							Total :100.4m²

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Length
5247 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	20-40cm	2L	5/m	1039.7m
							Total :1039.7m

Hawthorn Hedgerow

Number	Abbreviation	Species	Specification	Height	Density	Length
848 -	C mon	Crataegus monogyna	1+1 :Transplant - seed raised :B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	126.8m
133 -	FAGSY	Fagus sylvatica			5/m	26.3m
						Total :153.1m

Grass Areas

Area	Seed Mix Name	Seed Mix Supplier	Density
929.4m²	RE3	Germinal	5g/m²
349.6m²	WF19	Germinal	2g/m²
Total :1279m²			

Native Shrub Mix

Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution	Area
93 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%	88.7m²
239 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%	236.4m²
93 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%	88.7m²
122 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%	118.2m²
63 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%	59m²
Total :810 -								Total :591m²

Native Hedgerow Mix

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution	Length
75 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
219 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	15%	32.4m
652 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	45%	97.5m
147 -	ILE AQU	Ilex aquifolium	1+0: Seedlings: CE	20-40cm	0.3Ctr Double Staggered at 0.3m offset	10%	21.6m
292 -	PRUSP	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	20%	43.3m
75 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%	10.8m
Total :1460 -							Total :216.4m

LANDSCAPE AND MAINTENANCE SPECIFICATION

All operations to comply with appropriate British Standards unless otherwise stated on drawings or in the specification.

GENERAL TREATMENT OF PLANTING AREAS

Ensure that planting areas are protected from consolidation by heavy construction plant.

For work near a retained tree: Refer to BS 5837 *Trees in relation to design, demolition & construction - Recommendations* Section 5 (Appendix C).

Damage to Plants to be Retained: If a plant is to be retained is damaged, the plant is to be repaired or replaced by the contractor at their own expense. "Damaged" means:

- The removal of bark, scoring and the tearing of branches or roots
- The debarking of trunks or limbs
- The contamination of root zone soil or plants from drift sprays, dust or contaminated storm water
- The damage by the placement of fill or building materials within the canopy perimeter or otherwise.

1) GROUND PREPARATION AND SOIL SPECIFICATION

Subsoil:
Before receiving topsoil, subsoil shall be loosened using appropriate equipment to a depth of 300mm. This shall be done when the subsoil is dry so as to encourage soil shattering. All stones and other objects larger than 50mm shall be removed from the prepared surface. The loosened subsoil shall be roughly levelled so that an even depth of topsoil can be achieved.

Topsoil (To Comply with British Standard 3882:2015 - Specification for Topsoil):
Imported topsoil shall be Multipurpose Grade as described in BS 3882:2015 and suitable for sustaining plant life. Stockpiling of soil shall be avoided wherever possible to minimise loss of physical quality, diffusion of oxygen and microbial activity.
Any stockpiling shall not exceed 1.5 metres high and shall be sited so as to avoid risk of muddy water runoff into a watercourse, not exceeding 1.5 metres high.
The site of the stockpile will be prepared in advance by grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area.
Topsoil shall be carefully handled in layers not exceeding 150mm using track laying machinery.
Soil shall not be handled in inappropriate conditions of weather and soil moisture i.e.
During or shortly after heavy precipitation
When soil is in a waterlogged condition
When the ground is frozen or covered by snow
When the ground is excessively dry, causing dusty surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm below trees
400mm beneath new shrub areas.
Finished levels, after settlement, shall be as follows:
25mm above adjacent paving from new grassed areas and non-mulched shrub beds
75mm below adjacent paving and grass for mulched planting beds.
150mm below damp proof courses.

2) GROUND CONDITIONING
All lines of compost to be incorporated into the top 200mm of each square metre of topsoil for all ornamental shrub beds.

3) PLANT AND PLANTING SPECIFICATION
All plant stock, plant handling and planting to be undertaken in accordance with the following British Standard recommendations and Codes of Practice:
BS 8545:2014 Trees: from nursery to independence in the landscape
BS 3936: Part 1 1992 Nursery stock (Specification for trees and shrubs)
BS 3936: Part 4 1984 Nursery stock (Specification for forest trees)
BS 3936: Part 5 1987 Nursery stock (Specification for bulbs, corms and tubers)
BS 4043: 1989 Recommendations for transplanting root-balled trees.
BS 4428: 1989 Recommendations for general landscape operations.
BS 4043: 1989 Recommendations for transplanting root-balled trees. (withdrawn)
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 most current revision of the planting plan.

Plant stock shall be healthy, vigorous, free from pests and diseases and suitably 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 root system appropriate and be free from perennial weeds. The form of trees shall be in accordance with BS 3936 Part 1:1992, Section 7, Form of Trees.

Plant Handling:
All plant materials shall be lifted, bunched, labelled, packaged, transported, temporarily stored and planted in accordance with the recommendations of the British Standard and the Code of Practice for Plant Handling" (Horticultural Trades Association) and relevant sections of BS 4043: 1989 *Transplanting Root-Balled Trees.*

Tree Planting:
Trees to be of planted following supplier recommendations. Minimum pit size: Extra Heavy standard tree 1500 x 1500 x 900, and Heavy standard tree 1000 x1000 x 750mm.
Pits to be prepared to base and sides of pit to be further scarified.
Trees to be double staked using two stakes (75mm dia.), driven into ground 300mm below bottom of pit. Base of pit to be filled with 150mm of topsoil / compost, mixed with fertiliser.
Trees to be centrally located and stem placed in an upright position. Pit to be backfilled with a 3:1 mix of an approved topsoil / compost. Backfill firmly to 50mm above previous ground level to allow for settlement. Stakes to be see leave 600mm above soil level.
Water in same day with 52 litres per tree.
Trees to be Heavy Standard with minimum standard according to BS 3936: 1992 Part 1 Nursery Stock.
Specification for Trees and Shrubs, BS 4043: 1989 Recommendations for transplanting root-balled trees.

Staking:
Stake at heavy standard trees with double short stakes. Stakes to be round timber with chamfered tops, Position stake close to tree on windward side and drive vertically at least 400mm into bottom of pit before planting. Backfilling: consolidate material around stake. Height of stakes: cut to approximately one third of the tree height above ground level, taking care not to damage the bark. Ties: Hessian. Tying: secure tree firmly but not rigidly to stake with at least 2 ties within 25mm of top of stake.

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.

Ornamental shrub planting:
To be set out carefully and evenly over indicated areas. Remove plants from pots and plastic containers, plant and backfill immediately. Pits to be excavated to accommodate the root system.
pits sized to accommodate full spread of roots. Plants shall be evenly spaced over the planting area. Firm backfill by treading, ensuring the ground is not overly compacted and that the plant is positioned upright.

Native shrub planting:
To be planted in the planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
Plants shall be evenly spaced over the planting area. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties. Undertake formative pruning if necessary.

New formal hedges – Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge.
To be planted in a previous prepared planting bed 0.6metre wide. Planted to be centrally in a single row. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 1 metres.

New single or mixed native hedgerows
Bare root stock shall be planted between November and March. Consistent in species, cultivar and clone to ensure a uniform hedge. Plants to be planted in groups of 3, 5 or 7 of the same species.
To be planted in a previous prepared planting bed 1metre wide. Planted to be centrally in a double row, 300mm between plants and rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems. Plants to be protected with 60cm high Tubex shrub shelter guards and stakes with ties.
Prune back to a height of 2 metres.

Turfed Areas:
To be specified and laid in accordance with BS: 3936:1998 Recommendations for turf for general purposes. Turf to be Lindum Festival Turf (or similar approved). Hardwearing with a dense sward containing a mixture of 20% perennial ryegrass, 55% fescues and 25% smooth stalked meadow grass. This mix is easy to maintain and will recover well from heavy wear.
Turf to be laid in suitable weather conditions on a prepared bed with no weeds and a suitable slow release fertiliser applied to bed prior to laying. Turf to be watered regularly until it is well established.

Rear gardens:
Subsoil to be prepared to a depth of 300mm as per ground preparation and soil specification.
Topsoil to be supplied as per ground preparation and soil specification to a depth of 300mm, after gentle compaction and to be left bare in rear gardens.

Grass Seeding:
Public open spaces shall be Germinal AberSustain mix, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Levels to be graded to form finished levels as indicated in section. Topsoil
Roll, fertilise at 50grms/sq m, 10-14 days prior to seeding, sow at rate of 40g/m2 and lightly rake. First cut to be undertaken when grass reaches 50mm.

Wildflower **Seeding:**
Public open spaces shall be Germinal WF:G20 Eco Species Rich Lawn, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 10 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal RE3 River Floodplain / Water Meadow (MG8 Grassland), or similar approved within the proposed pond. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 5 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

Seed mix shall be Germinal WF19 Pollinators Paradise, or similar approved. Sowing to be taken between March and October.
Topsoil shall be cultivated to a fine tilth, be free from weeds, stones and other debris. Sow at rate of 2 g/m2 and lightly rake. First cut to be undertaken 8 weeks after sowing or when reaches 70mm.

4) MAINTENANCE AND MANAGEMENT

Plant stock and soft landscaped areas shall be maintained for a period of five years via the developers' agent or appointed Management Company during which time the following operations shall be carried out:

Regular visits:
Monthly maintenance visits to include the following operations:

- Hand weed planting beds
- Remove litter
- Sweep mulch spillage
- Check stakes and ties to ensure the new planting is all planting to upright positions.
- Adjust stakes and ties as necessary
- Prune plant stock as required to encourage good form
- Check all plant stock and report signs of pests, disease, death and damage

Mulch:
Top up mulch levels (using matching material) surrounding trees and within beds to 75mm at the end of the maintenance period.

Watering:
Plant stock to receive the following minimum quantities of water:
Extra Heavy Standard trees:50 litres each month between April and September
Heavy Standard trees: 35 litres each month between April and September
Shrubs and hedges: 10 litres per square metre each month between April and September.
Watering to be undertaken during the first 24 months as needed to maintain plant health.

Grass Maintenance:
Grass shall be cut throughout the growing season to maintain a sward of approximately 38mm. Shall be edged, watered as necessary and clippings removed.

Wildflower Maintenance
Wildflower areas shall be cut 2 times a year during the late spring and after the flower season (September / October) to maintain a sward of approximately 40mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WF:G20 Eco Species Rich Lawn Maintenance:
First cut: during the first year, first cut shall be early July, then monthly during August, September and October to maintain a sward of approximately 70mm
Thereafter: shall be cut 2 times a year mid-July to early September to maintain a sward of approximately 70-100mm
Wildflower Seeding: during the first year, first cut shall be mid-September, then again during October to maintain a sward of approximately 70mm
Thereafter: shall be cut 1 time a year mid-July to early September or as required leaving at least fortnight between cuts to maintain a sward of approximately 70mm.
The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

New trees/shrub planting
Weed control by hand to ensure planting area is weed free. Check stakes and guards are in place and replace where necessary. Prune, trim and remove suckers, seedlings, dead, damaged, or diseased branches annually between October and January to avoid the bird nesting season. Replace dead / dying stock in winter.

Plant replacements:
All dead, dying and vandalised plant stock shall be replaced, at the landscape contractor's expense, at the end of each growing season throughout the maintenance period.

REV	DESCRIPTION	DATE
L	Amended to layout "...Rev R"	14/06/24
KA	Amended to layout "...Rev Q"	10/06/24
J	Amended to layout "...Rev LA1"	08/03/24
I	Amended to layout "...Rev K"	09/01/24
H	Amended to layout "...Rev J"	07/12/23

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CLIENT:
Castle Green Homes

PROJECT:
Rossett Road, Wrexham

DRAWING TITLE:
Planting Plan (Sheet 5 of 5)

SCALE:	DRAWING No:	REV:
1:200 @ A0		
DRAWN BY:	CHKD BY:	DATE:
CN	CO	20/01/2021
	P.1416.20.02	L