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
13 -	ACEOLMA	Acer platanoides 'Olmsted'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
5 -	ALN GLU	Alnus glutinosa	Heavy Standard: 5 brks: 3x: RB: Clear Stem min. 200cm	350-425cm	12-14cm	Counted
13 -	A lam	Amelanchier lamarckii	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	300-350cm	12-14cm	Counted
12 -	B pub	Betula pubescens	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11 -	C be 'F F'	Carpinus betulus 'Frans Fontaine'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
15 -	PRU PAD	Prunus padus	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
12 -	PRUPAAL	Prunus padus 'Albertii'	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
11 -	Q pe	Quercus petraea	Heavy Standard: 5 brks: 3x: RB: Clear Stem 175-200cm	350-425cm	12-14cm	Counted
7 -	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 :122 -						

Shrubs

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density
70 -	BER NAN	Berberis thunbergii 'Atropurpurea Nana'	Branched: 4 brks: C	20-25cm	3L	4/m²
451 -	BRA SUN	Brachyglottis 'Sunshine'	Branched: 4 brks: C	30-40cm	3L	2/m²
50 -	CEA REP	Ceanothus thyrsiflorus repens	Bushy: 5 brks: C		3L	3/m²
15 -	CHO SUN	Choisya ternata 'Sundance'	Bushy: 4 brks: C	30-40cm	3L	3/m²
19 -	COR ELE	Cornus alba 'Elegantissima'	Branched: 4 brks: C	40-60cm	3L	3/m²
47 -	COT PUR	Cotinus coggygria 'Royal Purple'	Branched: 3 brks: C	30-40cm	3L	3/m²
116 -	ERI PIN	Erica carnea 'Springwood Pink'	Bushy: C		3L	5/m²
188 -	ERI WHI	Erica carnea 'Springwood White'	Bushy: C		3L	5/m²
113 -	EUO GAI	Euonymus fortunei 'Emerald Gaiety'	Bushy: 7 brks: C	20-30cm	3L	3/m²
33 -	FUC POP	Fuchsia 'Mrs Popple'	Bushy: 5 brks: C	20-30cm	3L	3/m²
22 -	GEN LYD	Genista lydia	Bushy: 5 brks: C		3L	3/m²
126 -	HEB GLO	Hebe 'Autumn Glory'	Bushy: 5 brks: C	20-30cm	3L	3/m²
18 -	HEB GEM	Hebe 'Green Globe'	Bushy: 7 brks: C	15-20cm	3L	5/m²
63 -	HEB WIN	Hebe 'Mrs Winder'	Bushy: 5 brks: C	30-40cm	3L	3/m²
41 -	HYD WAV	Hydrangea macrophylla 'Blue Wave'	Branched: 5 brks: C	40-60cm	5L	2/m²
45 -	HYD LIM	Hydrangea paniculata Little Lime	Branched: 3 brks: C	30-40cm	3L	3/m²
101 -	HYD BLU	Hydrangea serrata 'Bluebird'	Branched: 5 brks: C	40-60cm	5L	2/m²
75 -	LAV HID	Lavandula angustifolia 'Hidcote'	Bushy: 5 brks: C	20-30cm	3L	3/m²
43 -	MAH APO	Mahonia aquifolium 'Apollo'	Branched: 2 brks: C	20-30cm	3L	4/m²
150 -	PHO ROB	Photinia x fraseri 'Little Red Robin'	Bushy: 6 brks: C	30-40cm	3L	4/m²
24 -	PIE FLA	Pieris 'Forest Flame'	Bushy: 3 brks: C	30-40cm	3L	3/m²
25 -	POT ABB	Potentilla fruticosa 'Abbotswood'	Bushy: 4 brks: C		3L	3/m²
67 -	SAN CHA	Santolina chamaecyparissus	Bushy: 7 brks: C	20-30cm	3L	3/m²
59 -	SKI RUB	Skimmia japonica 'Rubella'	Bushy: 3 brks: C	30-40cm	3L	4/m²
14 -	VIB PRI	Viburnum tinus 'Eve Price'	Bushy: 4 brks: C	30-40cm	3L	2/m²
16 -	VIN MAJ	Vinca major	Several Shoots: 3 brks: C		3L	3/m²
Total :1991 -						

Herbaceous

Number of Plants	Abbreviation	Species	Specification	Height	Pot Size	Density
44 -	ALC MOL	Alchemilla mollis	Full Pot: C		3L	3/m²
9 -	AST FAN	Astilbe 'Fanal'	Full Pot: C		3L	4/m²
70 -	AST GRA	Astilbe 'Granat'	Full Pot: C		3L	4/m²
90 -	BER COR	Bergenia cordifolia	Full Pot: C		3L	5/m²
68 -	ECH MAG	Echinacea purpurea 'Magnus'	Full Pot: C		3L	4/m²
111 -	GER ALB	Geranium macrorrhizum 'Album'	Full Pot: C		3L	4/m²
62 -	HEU MAR	Heuchera 'Marmalade'	Full Pot: C		3L	4/m²
90 -	HEU PUR	Heuchera micrantha 'Palace Purple'	Full Pot: C		3L	4/m²
60 -	RUD GOL	Rudbeckia fulgida sullivantii 'Goldsturm'	Full Pot: C		3L	4/m²
47 -	SAL TRI	Salvia officinalis 'Tricolor'	Full Pot: C		3L	4/m²
Total :651 -						

Formal Hedge

Number	Abbreviation	Species	Specification	Height	Pot Size	Density
4498 -	PRU LUY	Prunus laurocerasus 'Otto Luyken'	Bushy: 3 brks: C	20-40cm	2L	5/m

Hawthorn Hedgerow

Number	Abbreviation	Species	Specification	Height	Density
383 -	C mon	Crataegus monogyna	1+1 :Transplant - seed raised :B	60-80cm	0.3Ctr Double Staggered at 0.3m offset

Grass Areas

Area	Seed Mix Name	Seed Mix Supplier	Density
276.2001m²	RE3	Germinal	5g/m²
534.8846m²	WF19	Germinal	2g/m²
Total :811.0847m²			

Native Shrub Mix

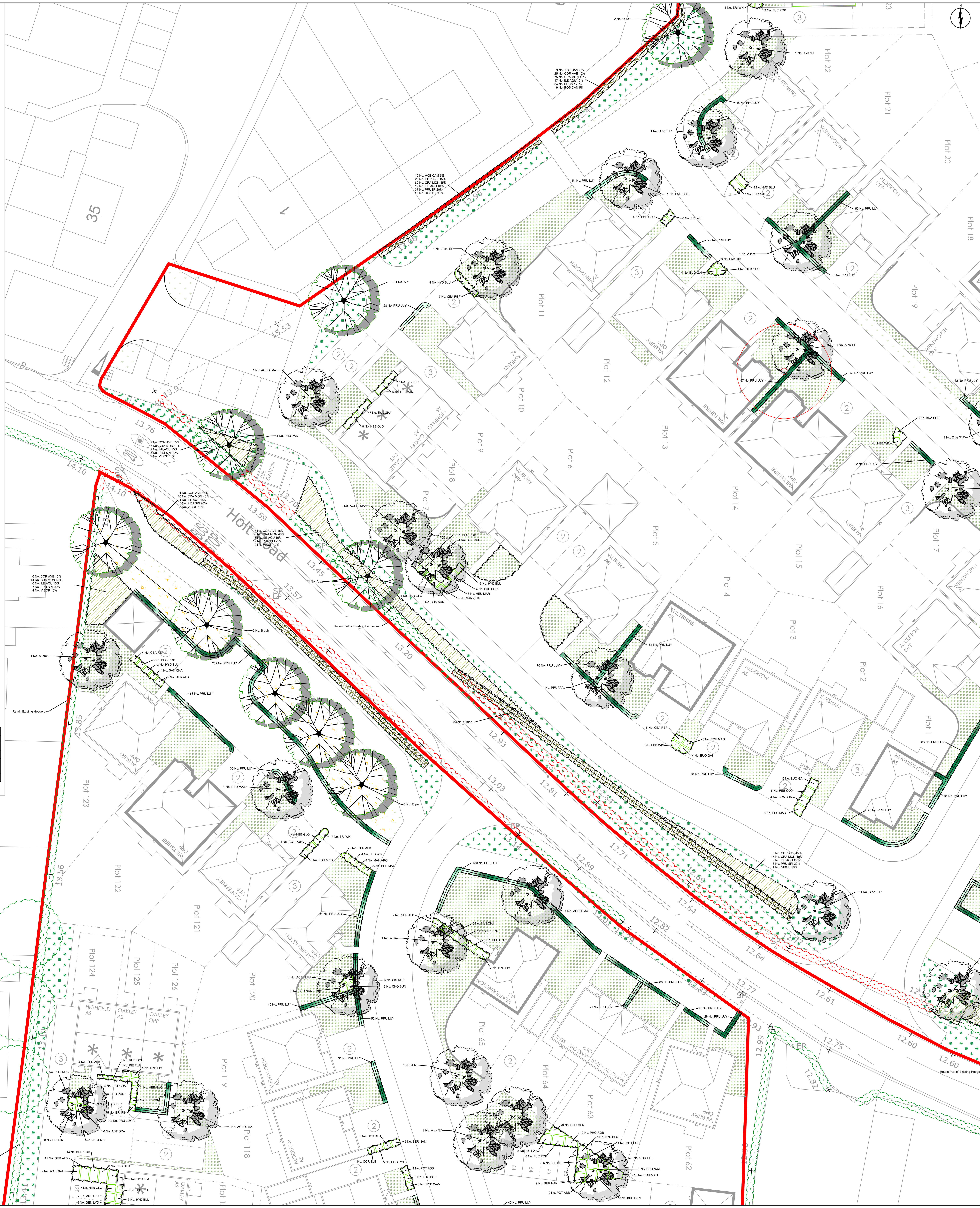
Number	Abbreviation	Species	Specification	Height	Pot Size	Density	Percentage Contribution
128 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	15%
332 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm		1Ctr	40%
128 -	ILE AQU	Ilex aquifolium	Leader with Laterals: C	40-60cm	3L	1Ctr	15%
168 -	PRU SPI	Prunus spinosa	1+1: Transplant - seed raised: Branched: 2 brks: B	60-80cm		1Ctr	20%
87 -	VIBOP	Viburnum opulus	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm		1Ctr	10%
Total :843 -							

Native Hedgerow Mix

Number	Abbreviation	Species	Specification	Height	Density	Percentage Contribution
48 -	ACE CAM	Acer campestre	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%
139 -	COR AVE	Corylus avellana	1+2: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	15%
412 -	CRA MON	Crataegus monogyna	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	45%
93 -	ILE AQU	Ilex aquifolium	1+0: Seedlings: CE	20-40cm	0.3Ctr Double Staggered at 0.3m offset	10%
185 -	PRUSP	Prunus spinosa	1+1: Transplant - seed raised: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	20%
48 -	ROS CAN	Rosa canina	1+1: Transplant - seed raised: Branched: 3 brks: B	60-80cm	0.3Ctr Double Staggered at 0.3m offset	5%
Total :925 -						

Landscape Layout Key:

- Site Boundary
- Existing trees and hedgerows to be retained and protected during the works.
- Existing trees and hedgerow 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.

© This drawing, including the design and technical information contained on it, is the property of Ascerta. The drawing may only be used for the specific purpose for which it has been intended and may not be reproduced or copied without prior permission.

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 9 (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 destruction of a plant the breaking 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 whenever possible to minimise loss of physical quality, diffusion of oxygen and biological 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 grading, removing rubbish and ensuring no fuel or chemicals were previously stored in area.
Topsoil shall be lightly consolidated 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 there are pools of water on the grounds surface.
Topsoil shall be laid to the following minimum depths:
150mm below new grass areas
300mm to rear gardens
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
40 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 Specifications and Code 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 9 1987 Nursery stock (Specification for bulbs, corms and tubers)
BS 3936: Part 10 1990 Nursery stock (Specification for ground cover plants)
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 ion 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 fibrous 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 procedures and methods illustrated in the publication, "*Plant Handling*" (Horticultural; Trades Association) and relevant sections of BS 4043: 1989 *Transplanting Root-Balled Trees.*

Heavy Standard Tree Planting:
Trees to be pit planted following supplier recommendations. Minimum pit size: Heavy standard tree 1000 x1000 x 750mm.
Pits to be prepared to base and sides of pit to be further scarified.
Heavy standard 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 200mm of 3:1 mix of approved topsoil / compost.
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 saw leave 600mm above soil level.
Water in same day with 52 litres per tree.
All works shall be carried out to the 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 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 water in thoroughly. Shrubs shall be individually pit planted in prepared 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. 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.
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 300mm between rows. Ensure plants are planted to the correct depth to correspond to the soil mark on main stems.
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 25% perennial ryegrass, 55% fescues and 20% smooth stalked meadow grass. This mix is easy to maintain and will recover well from general 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 50gms/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 WFG20 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 70-100mm.

Seed mix shall be Germina/ 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 6 weeks after sowing or when reaches 70-100mm.

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 6 weeks after sowing or when reaches 70-100mm.

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 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 quantities of water:
Heavy Standard trees: 35 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 40-70mm. The clippings shall be left in situ for 3 days to allow seed drop, then removed to prevent nutrient build up.

WFG20 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 70-100mm.
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 70-100mm.
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 70-100mm.
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.

Sheet 1 / Sheet 2 / Sheet 3 / Sheet 4 / Sheet 5 — NTS

REV	DESCRIPTION	DATE
A	Minor changes	21/01/21

Ascerta
Landscape | Trees | Ecology
t: 0845 463 4404
e: info@landscapetreesecology.com
www.landscapetreesecology.com

CLIENT: Castle Green Homes

PROJECT: Rossett Road, Wrexham

DRAWING TITLE: Planting Plan (Sheet 2 of 5)

SCALE: 1:200 @ A0

DRAWING No: P.1416.20.02 — REV: A

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