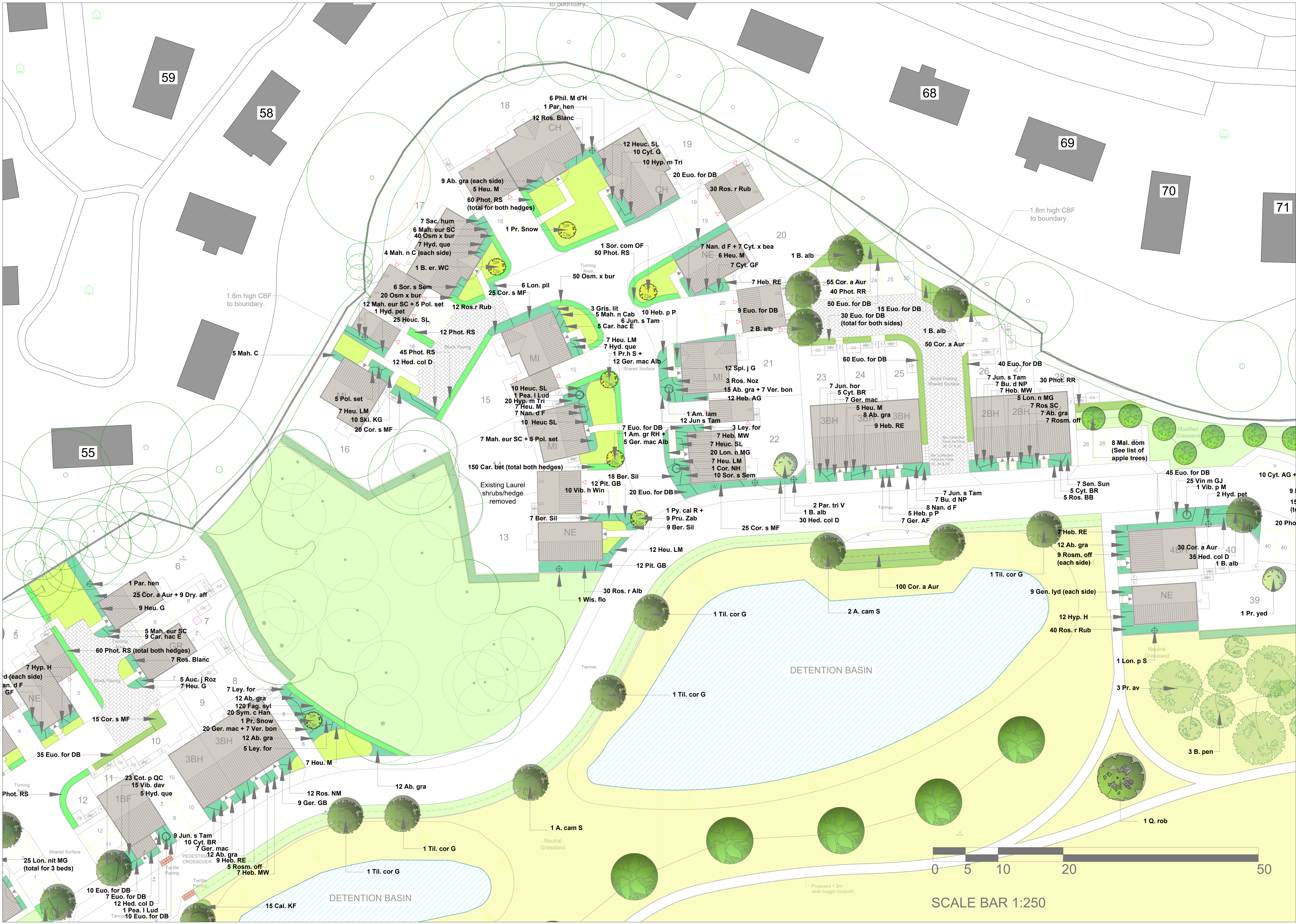




PREPARATION OF SOFT LANDSCAPE AREAS

SUBSOIL

The nature of the existing site may result in the need to import subsoil in places to ensure enough depth of rooting medium and adequate drainage. Overall soil depths (subsoil + topsoil) should not be less than the following:

Planting areas: 800mm

Lawn/seeded areas: 600mm

Imported subsoil should comply with BS 8601: 2013.

Formation levels should be broken up prior to placing of subsoil.

Lay subsoil in layers of 200mm and consolidate with the back of an excavator bucket. Do not compact material or track over areas when wet.

TOPSOIL

Prior to placing of topsoil ensure subsoil is thoroughly broken up to allow free drainage. Remove all rubble, concrete wastings, and other builder's debris to provide sufficient depths for topsoil placement. Cut back excessive haunching where it restricts topsoil depths. Excavate tree pits into subgrade prior to topsoiling to ensure sufficient depths of soil. Mark tree pit locations with timber stakes.

TOPSOIL DEPTHS

Topsoil depths following consolidation shall be:

Tree pits:

Selected Standard, Heavy Standard & Extra Heavy Standard Trees

800mm deep x a minimum of 1.2m diameter. Backfill tree pits to depth of 300mm with subsoil to BS 8601:2013 and back fill remainder with topsoil to BS 3882:2015.

Feathered Whips:

400mm deep x 600mm square

Orchard Trees:

600mm deep x 1000mm wide

Hedges:

200mm deep

Mown grass areas:

200mm of friable subsoil to enable cultivation of a suitable tillth.

Alternatively, rotate 100mm topsoil into top 100mm subsoil.

Wetland seeding:

200mm of friable subsoil to enable cultivation of a suitable tillth.

Alternatively, rotate 100mm topsoil into top 100mm subsoil.

Finished levels of topsoil in planted areas - following consolidation - shall be 30mm below adjacent kerbs, top of planter walls and manholes - to allow for mulching. Topsoil levels shall be 150mm below building OPC level.

TOPSOIL SPECIFICATION

Topsoil shall conform to BS 3882:2015 Multi-purpose category.

SOIL HANDLING

Soils shall be handled in the driest conditions reasonably possible. Topsoil shall not be moved, laid or worked during or after periods of heavy rain or when such work will damage the soil structure. Placed topsoil shall be protected from offsetting by vehicles and people. Any areas of topsoil that do become compacted shall be loosened by means of appropriate machinery or in small beds by hand working.

PLANTS

Trees and plants are to conform to the relevant section of BS3936 and the National Plant Specification. No substitutes will be accepted without the consent of the Landscape Architect. All plants shall be true to size specified on the planting plan and schedule. All plants shall be healthy, bushy, pest & disease free and not pot-bound, dry, water logged, leggy or weak. A minimum of 5 breaks per shrub is required. Trees shall be vigorous, of good shape and with a well-branched head.

PREPARATION

Cultivate the topsoil to its full depth during dry weather. Incorporate a soil ameliorant - such as well composted and sterilized manure into the soil in planting beds at a rate of 100 litres/m². Apply a slow release fertilizer such as Envirog to the manufacturers recommendations.

CLIMATIC CONDITIONS:

Carry out the work while soil and weather conditions are suitable for the relevant operations. Do not plant during periods of frost or strong winds. Plant only during the following periods:

- Deciduous trees and shrubs: Late October to late March
- Conifers and evergreens: September/October or April/May
- Herbaceous plants: September/October or March/April

Container grown plants: At any time if ground and weather conditions are favourable. Ensure that adequate watering and weed control is provided.

MACHINES AND TOOLS:

Use only machinery and tools suitable for the site conditions and the work to be carried out. Use hand tools around trees, plants and in confined spaces where it is impracticable to use machinery.

BACKFILLING MATERIAL:

A previously prepared mixture of topsoil excavated from the pit and additional topsoil as required, together with: Peat-free tree and shrub planting compost Incorporated to the supplier's recommendations. Incorporate a mycorrhizal additive, such as Rootgrow or similar, to suppliers recommendations, in the backfill for all trees and hedge planting.

TREE PITS:

Excavate with slightly raised centre. Retain topsoil for re-use where specified. In sloping ground, maintain horizontal bases and vertical sides with no less than minimum depth throughout. 800mm depth x minimum of 1200mm diameter. Break up bottoms of pits to a depth of 200mm and scarify sides.

TREE PITS - FEATHERED WHIPS & ORCHARD TREES:

Excavate with slightly raised centre. Retain topsoil for re-use where specified. Pits to be 400mm deep x 600mm square.

PIT PLANTING OF TRANSPLANTS & WHIPS IN WOODLAND PLANTING

Plant native species shrub and tree planting into pre-prepared pits 300mmx300mmx300mm or as large as needed to accept full spread of roots. Backfill to be a mix of topsoil from pit excavation combined with 30% tree & shrub planting compost. Incorporate a mycorrhizal additive, such as Rootgrow or similar, to suppliers recommendations in the backfill for all hedge planting. Protection to be as specified in the planting schedule.

TRANSPLANTING OF TRANSPLANTS & WHIPS IN HEDGES

Cultivate the topsoil to its full depth during dry weather along the whole length of proposed hedgeway to a width of 1.00 metre. Incorporate a soil ameliorant - such as well-composted bark into the soil at a rate of 100 litres/m². Apply a slow release fertilizer such as Envirog to the manufacturers recommendations. Incorporate a mycorrhizal additive, such as Rootgrow or similar, to suppliers recommendations in the backfill for all hedge planting. Protection to be as specified in the planting schedule.

SHORT SINGLE STAKING

Staking for Standard and Selected Standard trees. Feathered trees and specimen shrubs. Position stake close to tree on windward side and drive vertically at least 300 mm into bottom of pit before planting. Consolidate material around stake during backfilling. Cut stake to approximately 600 mm above ground level. Secure trees/shrub firmly but not rigidly to the stake with a biodegradable tree tie such as Greenleaf's Nature tie within 25 mm of top of stake. Use short stakes for multi-stemmed trees. Provide two or three separate stakes as required to stabilize tree.

SHORT DOUBLE STAKING

Staking for trees 12-14cm and above

Drive stakes vertically at least 300 mm into bottom of pit on either side of tree position before planting. Ensure pairs of stakes in groups of trees or avenues are all orientated the same.

Consolidate material round stakes during backfilling. Cut stakes off just below lowest branch of tree.

Firmly fix cross bar on windward side of tree and as close as possible to stem. Secure tree firmly but not rigidly to cross bar with a biodegradable tree tie such as Greenleaf's Nature tie. Multi-stemmed trees: Provide two or three separate stakes as required to stabilize tree.

TREES IN GRASSMEADOW

Fix 'Arboretum Standard' stammer-guards or similar approved to all specimen trees planted in grass areas. Provide and maintain a grass and weed free circle of 1.00m in diameter around all trees in grass. Much circle with 100mm depth of medium grade bark mulch.

CONTAINER GROWN PLANTS:

Plants to be:

- Supplied in a growing medium with adequate nutrients for the plant to thrive until permanently planted.
- Centred in the container, firmed and well watered.
- With root growth substantially filling the container, but not root bound, and in a condition conducive to successful transplanting.
- Grown in the open for at least two months before being supplied.
- Grown in containers with holes adequate for drainage when placed on any substrate commonly used under irrigation systems.

Plant shrubs and herbaceous plants in a proper horticultural manner, with each species evenly spaced over the designated areas. Avoid planting in straight lines unless a hedge is required. Plants to be planted in drifts with tallest plants placed at the back of the border.

HEDGES:

Native shrubs for hedges: Bare-root, obtained from recognised nursery supplying UK raised stock. Plant shrubs in trenches of topsoil - 600mm deep and large enough to take full spread of roots. Set out plants evenly as scheduled. Protect with spiral rabbit guards and mulch with approved bark mulch.

CLIMBERS:

Plant climbers slightly away from base of walls or railings but ensure stems are positioned against wall surfaces. Tie back to masonry nails if necessary.

WATERING & MULCHING

Water soil thoroughly after planting but ensuring that it does not become waterlogged. Mulch all planted areas after watering with 75mm depth of medium grade, well weathered bark mulch. Provide sample of mulch for client approval prior to ordering. Ensure mulch is pulled back from the collars of plants that are susceptible to damp conditions and ensure no plants are buried.

MAINTENANCE & DEFECTS LIABILITY PERIOD

To be agreed between the Employer and Contractor prior to commencement of works and in line with any relevant planning conditions.

TURFING

SETTING OUT:

The Contractor is to clearly mark boundaries of turfing areas and obtain approval before starting work.

SOIL:

Soil for turfed a mown grass areas to be as per the specification - BS 3882:2015

TILT:

Eliminate weed growth by means of a pre-planting, translocative herbicide applied to the manufacturers recommendations and to the 1997 Control of Pesticides Regulations and the 2002 COSHH Regulations. Apply during still weather, ensuring no drift onto finished planting or turf. Note the close proximity to watercourses and use appropriate herbicides. Lightly cultivate soil and reduce top 100mm of soil to a fine tillth (10mm particles and below). Achieve a smooth finish with no minor hollows, ridges or lumps.

SEEDING:

Seed and take first cuts to suppliers recommendations

MAINTENANCE & DEFECTS LIABILITY PERIOD: GRASS/TURF

To be agreed between the Employer and Contractor prior to commencement of works and in line with relevant planning conditions.

PREPARATION / TILT FOR MEADOW / WETLAND AREAS:

Cultivate friable subsoil areas or alternatively cultivate to ensure thorough mixing of the 100mm topsoil with 100mm of subsoil below. Cultivate mixed soil and reduce top 75 mm of soil to a medium tillth (15mm particles and below). Achieve a smooth finish with no minor hollows, ridges or lumps. Carry out cultivation works in dry weather but when soil is moist enough to be workable.

PREPARATION / TILT FOR MOWN GRASS AREAS:

Eradicate weed growth by means of a pre-planting, translocative herbicide applied to the manufacturers recommendations and to the 1997 Control of Pesticides Regulations and the 2002 COSHH Regulations. Apply during still weather, ensuring no drift onto finished planting or turf. Note the close proximity to watercourses and use appropriate herbicides. Lightly cultivate soil and reduce top 100mm of soil to a fine tillth (10mm particles and below). Achieve a smooth finish with no minor hollows, ridges or lumps.

SOIL:

Soil for mown grass areas to be as per the specification - BS 3882:2015

Soil for meadow seeded and wetland seeded areas to be 200mm of friable subsoil to enable cultivation of a suitable tillth. Alternatively, rotate 100mm topsoil into top 100mm subsoil.

TROWBRIDGE. PLANT LISTS - TREES, SHRUBS, CLIMBERS AND HERBACEOUS

		SIZE	SIZE Litre pots	SPACINGS/SQ M
A. cam	Acer campestre	12-14cm CG	3	4
A. cam S	Acer campestre 'Streetwise'	12-14cm CG	3	4
Al. glu	Alnus glutinosa	Fthd 2.5-3.0 m high	15	Specimen
Am. gr RH	Amelanchier x grandiflora 'Robin Hill'	10-12cm CG	3	3
B. alb	Betula albosinensis	10-12cm CG	3	3
B. er. WC	Betula ermanii 'White Chocolate'	10-12cm CG	3	3
B. pen	Betula pendula	10-12cm CG	5	6
Car. b FF	Carpinus betulus 'Frans Fontaine'	12-14cm CG	15	Specimen
Cas. sat	Castanea sativa	12-14cm CG	3	4
Fag. syl	Fagus sylvatica 'Purpurea'	12-14cm CG	3	7
Li. sty LR	Liquidambar styraciflua	14-16cm CG	5	4
Pop. tre	Populus tremula	10-12cm CG	3	4
Pr. av	Prunus avium	12-12cm CG	3	4
Pr. h S	Prunus hillieri 'Spire'	12-14cm CG	3	4
Pr. pad W	Prunus padus 'Watereri	12-14cm CG	3	4
Pr. s Tib	Prunus serrula 'Tibetica'	10-12cm CG	3	5
Pr. Snow	Prunus 'Snowgoose'	12-14cm CG	3	5
Pr. TB	Prunus 'The Bride'	12-14cm CG	3	5
Pr. yed	Prunus yedoensis	14-16cm CG	3	4
Py. cal R	Pyrus calleryana 'Raywood'	12-14cm CG	3	4
Q. rob	Quercus robur	10-12cm CG	3	4
Sal. fra	Salix fragilis	10-12cm CG	3	6
Sor. auc	Sorbus aucuparia	Fthd 2.5-3.0m high	3	4
S. com OF	Sorbus commixta 'Olympic Flame'	12-14cm CG	3	4
Til. cor G	Tilia cordata 'Greenspire'	12-14cm CG	3	4

NATIVE SPECIES HEDGE PLANTING

	SIZE	SIZE Litre pots	SPACINGS/SQ M
Acer campestre	1+1 45-60 cm	10%	
Cornus sanguinea	1+1 45-60 cm	10%	
Corylus avellana	1+1 45-60 cm	25%	
Crataegus monogyna	1+1 45-60 cm	30%	
Ilex aquifolium	3 litre 30-45 cm	10%	
Ligustrum vulgare	1+1 45-60 cm	5%	
Rosa canina	1+1 60-90 cm	10%	
Mah. eur SC	Mahonia eurybracteata 'Soft Caress'	10	4
Mah. lom	Mahonia lomarifolia	10	3
Mah. n Cab	Mahonia nitens 'Cabaret'	10	3
Mah. C	Mahonia x media 'Charity'	3	3
Nan. d F	Nandina domestica 'Firepower'	3	5
Osm. x bur	Osmanthus x burkwoodii	3	4
Pea. l Lud	Peaonia lutea 'Ludlowii'	10	Specimen
Phil. BE	Philadelphus 'Belle Etoile'	3	3
Phil. m DH	Philadelphus 'Manteau d'Hermine'	3	4
Pit. GB	Pittosporum t 'Golf Ball'	3	4
Pit. TT	Pittosporum t. 'Tom Thumb'	5	4
Pru. zab	Prunus l. 'Zabellana'	3	3
Ros. Blanc	Rosa 'Blanc Double de Coubert'	6	3
Ros. BB	Rosa 'Buff Beauty'	6	3
Ros. FCC	Rosa 'Flower Carpet Coral'	6	4
Ros. FDH	Rosa 'Frau Dagmar Hastrup'	4	4
Ros. Noz	Rosa 'Nozomi'	6	4
Ros. NM	Rosa 'Nur Mahal'	6	4
Ros. r Alb	Rosa rugosa 'Alba'	6	4
Ros. r Rub	Rosa rugosa 'Rubra'	6	4
Ros. Ros	Rosa 'Roseraie de l'Hay'	6	4
Ros. SC	Rosa 'Scented Carpet'	6	4
Rosm. off	Rosmarinus officinalis	7.5	4
Sar. hum	Sarcococca humilis	3	7
Sen. Sun	Senecio 'Sunshine'	3	4
Ski. Kl	Skimmia confusa 'Kew Green'	3	5
Ski. Fra	Skimmia japonica 'Fragrans'	3	5
Sor. s Sem	Sorbus sorbifolia 'Sem'	3	5
Spl. j G	Spiraea japonica 'Goldflame'	3	4
Vib. dav	Viburnum davidii	3	5
Vib. h Win	Viburnum 'hillieri 'Winton'	3	3
Vib. p M	Viburnum plicatum 'Mariesii'	10	Specimen

NATIVE SPECIES WOODLAND PLANTING

	SIZE	SIZE Litre pots	SPACINGS/SQ M
Acer campestre	1+1 45-60 cm	10%	
Alnus glutinosa	1+1 45-60 cm	10%	
Betula pubescens	1+1 45-60 cm	10%	
Cornus sanguinea	1+1 45-60 cm	15%	
Corylus avellana	1+1 45-60 cm	15%	
Crataegus monogyna	1+1 45-60 cm	10%	
Frangula alnus	1+1 45-60 cm	5%	
Quercus robur	1+1 45-60 cm	15%	
Rosa canina	1+1 60-90 cm	5%	
Salix cinerea	1+1 45-60 cm	5%	

GARDEN HEDGES

	SIZE	SIZE Litre pots	SPACINGS/SQ M
Car. bet	Carpinus betulus 1+1 Double staggered hedge	6 plants/lin m	
Ela ebb C	Elaeagnus ebbingei 'Compactum'	3 litre 4 plants/lin m	
Fag. syl	Fagus sylvatica 1+1 Double staggered hedge	6 plants/lin m	
Osm. x bur	Osmanthus x burkwoodii	3 litre 4 plants/lin m	
Phot. RS	Photinia 'Red Select'	3 litre 3 plants/lin m	

CLIMBERS TO LARGE GARDEN WALLS & RAILINGS

	SIZE	SIZE Litre pots	SPACINGS/SQ M
Cle. m. R	Clematis montana 'Rubens'	3	Specimen
Lon. p S	Lonicera periclymenum 'Serotina'	3	Specimen
Par. hen	Parthenocissus henryana	3	Specimen
Par. tri V	Parthenocissus t. 'Veitchii'	3	Specimen
Vit. B	Vitis 'Brant'	15	Specimen
Wis. flo	Wisteria floribunda	15	Specimen

INCIDENTAL SHRUB PLANTING TO PARKING COURTS & STREETS

	SIZE	SIZE Litre pots	SPACINGS/SQ M
Cor. a Aur	Cornus alba 'Aurea'	3	3
Cor. s MF	Cornus sanguinea 'Midwinter Fire'	3	4
Cot p QC	Cotoneaster p. 'Queen of Carpets'	3	4
Ela. ebb C	Elaeagnus ebbingei 'Compactum'	10	3
Euo. for DB	Euonymus fortunei 'Darts Blanket'	2	5
Lon. pil	Lonicera pileata	3	5
Pol. set	Polystichum setiferum	7.5	4
Sti. gig	Stipa gigantea	5	3
Sti. ten	Stipa tenuissima	3	6
Ver. bon	Verben bonariensis	5	6
Vin. m At	Vinca minor 'Atropurpurea'	2	5
Vin. m GJ	Vinca minor 'Gertrude Jekyll'	2	5

PLANTING TO PUBLIC OPEN SPACE AREAS

	SIZE	SIZE Litre pots	SPACINGS/SQ M
Ab. gra	Abelia grandiflora	3	4
Cal KF	Calamagrostis 'Karl Foerster'	5	4
Cor. a Aur	Cornus alba 'Aurea'	3	2
Cor. a Kes	Cornus alba 'Kesselringii'	3	2
Cor. a Sib	Cornus alba 'Sibirica'	3	2
Cor. s MF	Cornus sanguinea 'Midwinter Fire'	3	3
Ela. ebb	Elaeagnus x ebbingei	3	3
Lon. pil	Lonicera pileata	3	5
Lon. x pur	Lonicera x purpusii 'Winter Beauty'	3	3
Phot. RR	Photinia 'Red Robin'	3	3
Ros. r Alb	Rosa rugosa 'Alba' bare-root 60-90cm or	4	3
Ros. r Rub	Rosa r 'Rubra' bare-root 60-90cm or	4	3
Ros. Ros	Rosa 'Roseraiea' bare-root 60-90cm or	4	3
Sal. e al	Salix elaeagnos angustifolia	3	2

APPLE TREES

Beauty of Bath x 2

Bedwyn Beauty

Chorister Boy

Corsley Pippin

Dredge's Fame

Mary Barnett

Roundway Magnum Bonum

Supply as half standards on MM106 rootstocks

Protect with 900mm high wire netting enclosures

securely fixed to three 75mm diameter round posts.

Mulch 900mm diameter circles to the base of each tree.

no.	revision	date	by	check

DO NOT SCALE

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status **PLANNING**

project **UPLANDS-TROWBRIDGE**

client **HILLS-GROUP**

architect **IAN-SULLIVAN-ARCHITECTURE**

engineer **COLE-EASDON**

Read in conjunction with

Reckless Orchard's

Soft Landscape Typologies

drawing

scale 1:250 @A0

date 22.08.28

drawn by LB

checked by

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