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

TREES

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

NATIVE SPECIES HEDGE PLANTING

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%

Lonicera periclymenum 1 plant per 20 metre run of hedge

Native hedge planting and any strengthening of existing hedges - planting as double staggered hedge 300mm between rows 400mm between plants or where gaps along existing hedge allows.

NATIVE SPECIES WOODLAND PLANTING

Acer campestre	1+1	45-60 cm	10 %
Alnus glutinosa	1+1	456-0 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 %

Pit plant at 1.00 metre centres. Protect tree species with tree shelters, and shrub species with shrub shelters. Mulch whole area with medium grade bark mulch - maximum wood content 5%. (Existing laurel shrubs to be removed).

GARDEN HEDGES

Car. bet	Carpinus betulus1+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

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

SPECIES		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
Phot. RR	Photinia ' Red Robin'	3	3
Ros. r Alb	Ros rugosa 'Alba' bare-root 60-90cm or	4	3
Ros. r Rub	Rosa r 'Rubra' bare-root 60-90cm or	4	3
Sym c Han	Symphoricarpos chenaultii 'Hancock'	3	4

PLANTING TO PUBLIC OPEN SPACE AREAS

SPECIES		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	Ros 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 'Roseriaea' bare-root 60-90cm or	4	3
Sal. el a	Salis elaeagnos angustifolia	3	2

APPLE TREES

Beauty of Bath x 2
Bedwyn Beauty
Chorister Boy
Corsley Pippin
Dredge's Fame
Mary Barnet
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.

Read in conjunction with Reckless Orchard's Soft Landscape Typologies drawing

SHRUBS TO FRONT GARDENS

		SIZE Litre pots	SPACINGS/SQ M
Ab. gra	Abelia grandiflora	3	4
Am. lam	Amelanchier lamarckii 1.50-2.00m High	15	Specimen
Au. j Roz	Aucuba japonica 'Rozannie'	3	4
Bu. d NP	Buddleia d. 'Nanho Petite Purple'	3	3
Cor. a Aur	Cornus alba 'Aurea'	3	3
Cor. a Sib	Cornus alba 'Sibirica'	3	3
Cor. kel	Cornus kelsyii	5	6
Cor NH	Cornus 'Norman Hadden'	15	Specimen
Cor. s MF	Cornus sanguinea 'Midwinter Fire'	3	4
Cyt. x bea	Cytisus x beanii	5	7
Cyt. BR	Cytisus 'Boskoop Ruby'	3	4
Cyt. GF	Cytisus 'Goldfinch'	3	4
Cyt. AG	Cytisus praecox 'All Gold'	3	4
Cyt. War	Cytisus praecox 'Warminster'	3	4
Ela. ebb C	Elaeagnus ebbingei 'Compactum'	3	4
Euo. for DB	Euonymus fortunei 'Darts Blanket'	2	5
Euo. j GS	Euonymus japonicus 'Greenspire'	3	5
Gen. x his	Genista x hispanica	3	5
Gen. lyd	Genista lydia	3	5
Gris. lit	Griselinia littoralis	3	4
Heb. AG	Hebe 'Autumn Glory'	3	4
Heb. MW	Hebe 'Mrs Winder'	3	4
Heb. p P	Hebe pinguifolia 'Pagei'	3	6
Heb. RE	Hebe 'Red Edge'	3	4
Hed. col D	Hedera colchica 'Dentata'	3	5
Hyd. MP	Hydrangea m. 'Mariesii Perfecta'	3	3
Hyd. que	Hydrangea quercifolia	3	4
Hyp. H	Hypericum 'Hidcote'	3	4
Hyp. m Tri	Hypericum moserianum 'Tricolor'	3	5
Jun. hor	Juniperus horizontalis	3	4
Jun. s Tam	Juniperus sabina 'Tamariscifolia'	3	3
Ley. for	Leycesteria formosa	3	4
Lon. n MG	Lonicera nitida 'Maygreen'	3	7
Lon. pur WB	Lonicera x purpusii 'Winter Beauty'	3	3
Mah. bea	Mahonia bealei	3	3
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. 'Zabeliana'	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. KG	Skimmia confusa 'Kew Green'	3	5
Ski. Fra	Skimmia japonica 'Fragrans'	3	5
Sor. s Sem	Sorbus sorbifolia 'Sem'	3	5
Spi. j G	Spiraea japonica 'Goldflame'	3	4
Vib. dav	Viburnum davidii	3	5
Vib. h Win	Viburnum x hillierii 'Winton'	3	3
Vib. p M	Viburnum plicatum 'Mariesii'	10	Specimen

HERBACEOUS TO FRONT GARDENS

Ber. Sil	Bergenia 'Silberlicht'	5	7
Car. hac E	Carex hachijonensis 'Evergold'	5	5
Dry. aff	Dryopteris affinis	5	4
Ger. AF	Geranium 'Ann Folkard'	5	7
Ger. JB	Geranium 'Johnsons Blue'	5	6
Ger. mac	Geranium macrorrhizum	5	6
Ger. mac A	Geranium macrorrhizum 'Album'	5	6
Heu. G	Heuchera 'Greenfinch'	5	7
Heu. LM	Heuchera 'Lime Marmalade'	5	7
Heu. M	Heuchera 'Marmalade'	5	7
Heuc SL	Heucherella Stoplight	5	7
Pol. set	Polystichum setiferum	7.5	4
Sti. gig	Stipa gigantea	5	3
Sti. ten	Stipa tenuissima	3	6
Ver. bon	Verbena bonariensis	5	6
Vin. m Atr	Vinca minor 'Atropurpurea'	2	5
Vin. m GJ	Vinca minor 'Gertrude Jekyll'	2	5

MEADOW MIXES

Meadow Seeding:	Emorsgate Seeds EM2 - Standard General Purpose Meadow Mix
Mown Grasss Seeding:	Emorsgate Seeds EL1 - Flowering Lawn Mix
Wetland seeding:	Emorsgate Seeds EM8 - Meadow Mixture for Wetlands

LAWNS

Rolawn Medallion, or similar approved.

PREPARATION OF SOFT LANDSCAPE AREAS

NEW PLANTING 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 washings, 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: 400mm deep x 600mm square
Hedges: 600mm deep x 1000mm wide
Mown grass areas: 200mm deep
Meadow seeding: 200mm of friable **subsoil** to enable cultivation of a suitable tilth
Alternatively: rotovate 100mm topsoil into top 100mm subsoil.
Wetland seeding: 200mm of friable **subsoil** to enable cultivation of a suitable tilth
Alternatively: rotovate 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 DPC 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 trafficking 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 forking.

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 Enmag 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 shedule.

PLANTING OF TRANSPLANTS & WHIPS IN HEDGES
Cultivate the topsoil to its full depth during dry weather along the whole length of proposed hedgrow 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 Enmag 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 tree/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 GRASS/MEADOW
Fix 'Arbortech Standard' strimmer-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 diametre around all trees in grass. Mulch 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

TILTH, 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 tilth (10mm particles and below). Achieve a smooth finish with no minor hollows, ridges or lumps.

TURFING
Lay turf within 18 hours of delivery to site.
Do not allow turf to dry out prior to laying.
Do not lay in waterlogged, freezing or excessively hot conditions.
Ideally lay turf in September. Alternatively lay in spring.
Lay turf with broken joints, well butted up and without stretching.
Work from boards on previously laid turf.
Adjust levels by raking out or infilling with fine soil.
Ensure full contact between turf and substrate.
Consolidate by lightly and evenly firming with wooden beaters as work progresses.
Dress turf with dry fine soil and sand to infill any joints.
Use whole turves at edges and cut edges against beds, kerbs etc to a true line.
Thoroughly water turf immediately after laying by means of a fine sprinkler.
Ensure water penetrates to the soil below.
Ensure sufficient water is applied during establishment of the turf areas.

SEEDING
SETTING OUT:
The Contractor is to clearly mark boundaries of seeding areas and obtain approval before starting work.

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 tilth. Alternatively: rotovate 100mm topsoil into top 100mm subsoil.

PREPARATION / TILTH FOR MEADOW / WETLAND AREAS: . Cultivate friable subsoil areas or alternatively cultivate to ensure thorough mixing of the100mm topsoil with 100mm of subsoil below. Cultivate mixed soil and reduce top 75 mm of soil to a medium tilth (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 / TILTH 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 tilth (10mm particles and below). Achieve a smooth finish with no minor hollows, ridges or lumps.

SEEDING;
Sow 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..

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

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PLANTING-PLAN..4.OF.5

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