BANBURY - PARCELS D AND E

SPECIFICATION NOTES - REFER ALSO TO THE MEASURED WORKS SCHEDULE.

A) Setting out

1. Planting shall be set out exactly as shown on the drawing, and measured from existing fixed points. Curved beds shall be set out using radii scribed on the ground using two pointed stakes and a line between, or with site marker paint. The junction between convex and concave curves shall be cut to form a smooth and even flowing line. Check that all setting out conforms to the plan before cultivation and planting works are carried out. Failure to do so may result in rejection of the work by the landscape architect and may require amendment at the contractor's expense.

2. All planting beds shall be a minimum of 1 metre wide, except where there is insufficient space, due to the constraints of walls and path edgings and their foundations. With narrow beds between walls/ fences and path edgings, ensure that the bed has space free from concrete footings before planting. If the bed is sealed with concrete, then the landscape contractor shall contact the site manager or landscape architect to determine if footings are excessive and can be reduced or else, the bed can be paved. The width of all beds will be checked by the inspecting landscape architect and where the width is not as drawn, the contractor shall re-cultivate them to the specified width at his own expense.

B) Ground preparation

1. Pre-planting herbicide application:- Apply by suitable spraying aparatus, an approved translocated systemic herbicide to the manufacturer's instructions and to 1997 Control of Pesticides Regulations and 2003 COSHH regulations on all beds, except those which are both weed free and are to receive agrotextile sheet mulch. Spray immediately if any weeds are present. If none are showing, but there may be a delay before planting, or the area is to be seeded, spray after one month following cultivation, to allow dormant seed to germinate. All spraying shall be carried out by skilled and qualified operatives, using protective clothing, in suitable weather (no wind) and any damage caused by spray drift, from incorrect usage or spillage, shall be rectified at the contractor's own cost. Repeat as necessary to ensure complete kill and rake off all dead material from site.

2. Carry out the following works to the existing topsoil on site to ensure it Conforms to BS 3882:2007, being free from rocks larger than 50m diameter, concrete, all roots, wire, brick, and have less than 20% clay. Allow for pre-application of herbicide as above. Fertilise with 100g per meter square of Hortibase CRF (18-6-12) slow release fertilizer, in accordance with the manufacturer's instructions. For beds less than 5 meters in width, fork over thoroughly or machine rotovate soil to a depth of 300mm, ensuring that the subgrade and topsoil are completely broken up and free draining, relieving any compaction. For beds greater than 5 metres in width, break up the subgrade and topsoil using a tractor mounted subsoiler or ripper at 500mm centres to a depth of 500mm,except where there are services, or within 10 meters of tree stems or 3 meters of existing hedges. Do not rip areas where roots greater than 10mm diameter are encountered.

3. Determine before submitting a tender, the extent of support from the site manager with ground preparation: ensure soil of all planting beds is graded to a level 65mm below adjacent grass or paved surfaces, (90mm below where agro-textile set mulch is not specified), within 400-600mm of edges to ensure bark or wood chip mulches are retained. Where grass is proposed, then the soil level shall be flush (maximum 10mm below - but never proud) of adjacent paved surfaces, to receive rain water run off. The landscape contractor is responsible for ensuring that the final product conforms to the specification even where the developer and/or main contractor have failed to supply and spread topsoil to the recessed level. The landscape contractor shall allow for adjustment of levels, as specified above, including for re-grading subsoil and topsoil. Where beds are sloping, ensure that topsoil is graded to the specified levels below pavement & grass surfaces within 400mm of the edges of the bed. This is to allow for sheet mulch and bark or wood chip mulch so that mulch does not spill out on to pavements and also to allow surface water to drain from paths on to planted areas.

4. For sloping areas to be turfed adjacent to paved areas, topsoil levels shall be graded flush with the finished pavement level (or up to 10mm below),to allow surface water to drain from pavements to soft areas. Soil of grass areas should therefore never be proud of paved areas. Soil levels more than 10 mm below pavement edges will cause mower damage on cutting.

5.Imported topsoil (where specified and sanctioned by the employer) for making up ground, shall conform to BS 3882: 2007, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less than greater than 20% clay. Such soil shall be cultivated as set out above. Representative samples shall first be approved by the landscape architect before being supplied to site. No imported soil shall be supplied to site without a written instruction.

C) Planting

1. All planting must be carried out in accordance to the specification and schedule of quantities accompanying these drawings. Refer to the specification for the preparation of existing topsoil and required depths for planting, turfing, and standard trees, and also for maintenance requirements.

2. No substitutions will be accepted without the prior agreement of the inspecting landscape architect. The contractor shall replace at once at his own cost any stock size, species or variety of plant which has not been specified on the planting plan and schedule, unless prior agreement to a substitution by the landscape architect has been received. All plants shall be true to size specified in the schedule of plants and associated notes, (3L pots are 19cm diameter and 15cm deep). All shrubs, (other than ground cover), shall be 400-600mm height and spread, or otherwise specified for the pot size by the HTA National Plant Specification and be bushy, healthy, disease free stock, not pot bound, leggy or spindly. There should be a minimum of 5 breaks per shrub. This specification is the minimum standard required and any stock falling below this standard, in the sole opinion of the inspecting landscape architect,shall be lifted and replaced at the contractor's expense.

3. All shrubs, herbaceous plants, whips and transplants shall be watered in on planting with 20 litres per square metre. Trees shall be watered in with 25 litres per tree position. Water thereafter during the contract period at weekly intervals with 30 litres of water.

4. Proposed large feathered or standard trees to be true to the species, variety and size as specified on the planting plan, to include 1.6m chestnut stake 600mm above ground and 1000mm below ground) and 1No. sackcloth tie with spacing device positioned 25mm maximum from the top of the post.

5. Turf to be of cultivated grade such as Rowlawn "Medallion", or other of similar quality and source, approved by the landscape architect. The contractor shall replace at once any turf rejected by the landscape architect at his own cost.

6.Self clinging climbing shrubs or wall shrubs, with "S" drawn after the climber name, shall be trained to the wall/fence with heavy duty, plastic coated garden wire. Training wires shall be attached vertically to the wall/fence by means of 125mm long stainless steel eye screw fittings. Position 1No. at 250mm from ground, and 1No. 250mm from top of the wall/fence, and string the wire tightly between the fixings. Train the climber to the wire with plastic coated garden wire tags.

7. Twining varieties of climber, with "T" drawn after the climber's name (in specially prepared pits or general shrub beds) shall be trained to walls/ fences by mounting ready-made trellis panels 1.8 x 1.8m generally (but 1.8 x 0.6m for corners or where space is restricted). Include for adapting any panels for locations where walls or fences are lower than 1.8m. Fix trellis panels to the walls/ fences using non rusting screws 125mm long (to be approved), incorporating 50mm cube wood spacing blocks to ensure that the panel is mounted sufficiently far from the wall/ fence to allow twining of stems. Ensure that all timber is pressure impregnated with a non phyto-toxic preservative and then painted with a dark brown non phyto-toxix preservative wood stain such as Sadolin "Classic" walnut or similar and approved. Ensure that the trellis is not in contact with the ground. Train the climbing shrub to the trellis with plastic coated garden wire tags.

D) Mulch

1. When specified by the additional specification notes on this plan, supply and spread suitable biodegradeable sheet mulch over planting beds, previously, cultivated, graded and fertilized topsoil before planting, and peg down at a minimum of 500mm centres, (300mm at edges) and beds less than 1m wide. Pegging this densely is essential to prevent flaps of material becoming exposed. Refer to the specification for biodegradable sheet mulch on plan.

2. Following planting supply and spread evenly Melcourt Industries "Edwards of Brandon" to a depth of 50mm, (75mm if no sheet mulch specified), over all planted areas. Finished mulch levels shall be no higher than 15mm below pavement or grass levels to avoid any spillage onto pavements or lawns. N.B. no substitution of mulch type will be acceptable. It is essential to have a no-fines, large particled, brown wood chip to reduce weed growth, reduce wind blow and prevent rapid break down.

E) BS codes

1. All workmanship and materials shall conform to the following codes:-
A) General landscape operations (excluding hard surfaces) - BS 4428:1989.
B) Trees in relation to construction- BS 5837: 2012 and BS 6549:1999. BS 3998:2010 (recommendations for tree works) unless otherwise specified. Arboricultural Association - Standard Conditions of Contract and Specifications of Tree Works 1996.
C) Nursery stock in accordance with latest horticultural trade association nursery stock specification entitled "National Plant Specification 2001".
Plants shall conform to:
-BS 8545 : 2014 Trees from Nursery to Independence in the Landscape
-BS 3936-1 : 1992 Nursery Stock - Specification for trees and shrubs.
-BS 3936-2 : 1990 Nursery Stock- Specification for roses + AMD 6628.
-BS 3936- 4 : 2007 Nursery stock- Specification for forest trees.
-BS 3936-9 : 1998 Nursery stock- Specification forbulbs, corms and tubers.
-BS 3936-10 : 1990 Nursery stock- Specification for ground cover shrubs.
-CPSE-Committee for Plant Establishment, Handling and establishing landscape plants 1996, Part 3, paragraphs 6.2 to 6.6.
D) Glossary for Landscape Works BS 4428 :1989
E) Turf - BS 3969:1998- recommendations for turf for general purposes.
F) Seeding - EEC Regulations 1974. Use blue labelled certified varieties to EC purity and germination regulations. When requested, submit an officia seed Testing Station Certificate of germination, purity and composition.
G) Topsoil - BS 3882: 2007
H) Pesticides: Control of Pesticides Regulations 1997;The Health and Safety at Work Act 1974; the COSHH Regulation 2003, the product COSHH sheet Water Supply (Water Quality.) Regulations amended 2000; Control of Pollution Act 1974; Hedgerow ACT 1997; Wildlife and Countryside Act 1981; Countryside and Rights of way Act 2000.

GENERAL NOTES FOR THE DEVELOPER.

A) Tree protection

1. Any existing trees to be retained, are the responsibility of the main contractor on site who shall take all necessary protective measures set out in BS 5837:2012 to ensure no damage to stems or roots, to prevent compaction from vehicles or storage of materials, contamination of soil from spilages, scorching from fires and instability or stress from changes of soil level. The landscape contractor is however responsible for ensuring that neither plant, materials or labour are cause of any damage to existing trees, and like the employer, the landscape contractor shall replace at once any tree damaged on site, supplying and planting a tree of the same species and size, at his own cost. Protection barriers will comprise a scaffold framework in accordance with Figure 2 of BS 5837:2012 (The BS).
The framework will consist of vertical and horizontal scaffolds with vertical tubes spaced at no more than 3m intervals and driven into the ground. Weld mesh (Heras or similar) panels will be securely fixed on to this framework with wire or scaffold clamps. Tubes will be driven into the ground to a minimum depth of 600mm.
Supporting struts will be fixed to the inside of the barrier to ensure maximum rigidity.

B) Ground work

1. Soil levels: soil levels for shrub beds and grass areas should have any compacted subgrade thoroughly broken up by machine before instructing the ground worker to spread topsoil or the landscape contractor to commence work or the beds will become waterlogged in wet weather and the plants and turf will die.

2. Top soil spread from on site should be to the following minimum depths:- Shrub beds: 350mm. Grass areas 150mm. allow for excavation of 415mm of the subgrade for shrub beds to leave beds 65mm below finished pavement or grass areas in order to receive sheet and bark mulch, (90mm below where sheet mulch is not to be used). Tree pits will be dug by the landscape contractor. Top soil shall be spread for grass areas flush with any areas of paving and after settlement, the soil level should be no greater than 10mm below paved areas to allow for turf. For areas to be grass seeded, the soil level shall be flush with any finished paved surfaces after settlement (or to a maximum of 5mm below) to allow for rain water to drain onto soft surfaces. Settlement shall be no greater than the tolerances given or problems will be encountered with mowing (the blades in danger of touching concrete edgings) or where soil is proud of pavements, then drainage problems will be encountered.

3. Existing topsoil and imported soil shall conform to BS 3882:2007, and be free from compaction, rocks/bricks greater than 50mm diameter, concrete wire, roots, debris, oil, cement and builders rubble. Soil shall have a clay content of less than 20%.

C) Hardworks

1. Hard works, unless otherwise agreed, shall be carried out by the developer or main contractor, and all materials and workmanship shall be in accordance with the construction details and the layout plan.

2. All paths and edgings shall be set out properly to lines and radii, with all curves scribed on the ground using pointed pegs and string or site marker paint, achieving flowing natural arcs. Setting out shall be agreed with the landscape contractor and subsequently the landscape architect.

3. Hard surfaces shall be constructed after suitable base courses have been laid, taking full account of local site conditions, soft spots and substrate. The indicative depths of base courses are minimum depths assuming suitable substrate conditions.

4. All metalwork shall be finished hot dipped galvanized in accordance with BS EN ISO1460. The galvanizer shall be responsible for the thorough removal of all galvanizing snuts (fettling) to the complete satisfaction of the Landscape Architect. The decorating contractor shall prepare the galvanized surface by washing with detergent and water and scrubbing with a scouring pad until all dirt, grease, white rust & sulphates have been removed & then allowed to dry thoroughly. Supply and paint 'Icosit 6630' from Sika Ltd (tel. 01707 374444) applied with a turkhead brush strictly in accordance with the manufacturers instructions, COSHH regulations and the product COSHH sheet. Apply 2No. coats of paint with a dry film thickness of 100 microns per coat. Apply paint only when galvanized surface is thoroughly dry at temperatures above five degrees celsius and in any event above the current dew point temperature. Paint work will be subject to inspection by experts and if found wanting, shall be stripped off, re-prepared and applied entirely at the decorating contractors own cost.

5. All wood work to use ACQ water based wood preservative applied by vacuum pressure by Permawood or other similar and approved company. The timber shall then be stained with 3No. coats of Sadolin 'Classic' colour 'Walnut' strictly in accordance with the manufacturers instructions, COSHH Regulations 2003 and product COSHH sheet.

SCHEDULE OF PLANTS FOR STRATEGIC PROPOSALS

CLIMBERS

QTY	CODE	PLANT NAME	STOCK	SPACING
1No.	Hed can	Hedera canariensis 'Gloire de Marengo' 'S'	C.G. 3L	1/m
2No.	Hyd pet	Hydrangea petiolaris 'S'	C.G. 3L	1/m

FEATHERED TREES

QTY	CODE	PLANT NAME	STOCK		SIZE	DFB	MAX Ht	WD
5No.	Bet pen	Betula pendula	C.G.	FTH	250-300cm	7m	14m	L
1No.	Cra pru	Crataegus prunifolia	D.G.	FTH	250-300cm	10m	8m	H
2No.	Mal flo	Malus floribunda	D.G.	FTH	250-300cm	6m	8m	M
3No.	Mal Joh	Malus 'John Downie'	D.G.	FTH	250-300cm	5m	6m	M

STANDARD TREES

QTY	CODE	PLANT NAME
3No.	ALN GLU	Alnus glutinosa
9No.	BET JAC	Betula utilis 'Jaquemontii'
9No.	BET PEN	Betula pendula
4No.	CAR FRA	Carpinus betulus 'Frans Fontaine'
3No.	CRA PRU	Crataegus prunifolia
5No.	MAL ASH	Malus 'Ashmeads Kernel'
2No.	MAL BRE	Malus brevipes
3No.	MAL FLO	Malus floribunda
2No.	MAL JOH	Malus 'John Downie'
5No.	PRU ACC	Prunus 'Accolade'
13No.	PRU AMA	Prunus 'Amanogawa'
1No.	PRU INS	Prunus institia 'Damson'
4No.	PRU RAN	Prunus 'Rancho'
21No.	PRU SPI	Prunus 'Spire'
3No.	PRU VIC	Prunus 'Victoria'
14No.	PYR CHA	Pyrus calleryana 'Chanticleer'
7No.	PYR DOM	Pyrus domestica
2No.	SOR LUT	Sorbus aria 'Lutescens'

TREE SIZES SHALL BE THE FOLLOWING

PUBLIC OPEN SPACE - 18-20CM RB
FRONT GARDEN - 12-14CM
REAR GARDEN - 8-10CM

ORNAMENTAL HEDGE PLANTING

QTY	CODE	PLANT NAME	STOCK		SPACING
288No.	Bux sem	Buxus sempervirens	C.G.	10L	4/m
384No.	Esc App	Escallonia 'Apple Blossom'	C.G.	10L	3/m
1128No.	Vib Eve	Viburnum tinus 'Eve Price'	C.G.	10L	3/m

NATIVE HEDGE MIXES

QTY	%	PLANT NAME	STOCK		SPACING	SIZE			
173No.	20%	Native hedge mix 4 double staggered row	D.G.	WHP	6/m	60-90cm			
432No.	50%	Crataegus monogyna	D.G.	WHP	6/m	60-90cm			
173No.	20%	Viburnum opulus	D.G.	WHP	6/m	60-90cm			
86No.	10%	Cornus sanguinea	D.G.	WHP	6/m	60-90cm			
73m		Native hedge mix 04: double staggered row							
438No.	100%	Carpinus betulus	D.G.	WHP	6/m	60-90cm	9m	17m	L

SEED MIXES

AREA SEED MIX NAME
2149m² Area to be turfed ('Medallion' by Rowlawn Ltd, refer to Measured Works Schedule)

NOTES AND ABBREVIATIONS:

R.B. = Root-balled stock
C.G. = Container grown stock
D.G. = Open ground stock, to be planted Nov 1st - March 1st
FTH = Feathered tree
STD = Standard tree
HVYSTD = Heavy Standard tree
XHVYSTD = Extra Heavy standard tree
BLE = Broad Leaf Evergreen
CON = Conifer
L = Litre container
DFB = 'Distance from Buildings' based on minimum building foundation depths
Max Ht = 'Maximum Height' of tree
WD = 'Water Demand' of tree
SHC = Shrub Height Classification
A = < 600mm mature height
B = 600mm - 1.8m mature height
C = > 1.8m mature height with low water demand and slow growth
D = 1.8m - 3m mature height
E = 3m - 5m mature height
F = >5m mature height
Note: Plants not classified within the Bovis Homes Ltd SHC are NOT designated as shrubs. Bovis Homes Ltd understand shrubs to be defined as those plants of perennial habit with woody stems.

-Girth size is given for standard trees, otherwise all sizes refer to height. All sizes are the minimums acceptable.
-Shrubs specified as 3 litre size shall be 400-600mm minimum height and spread and 2 litre stock shall be 300-400mm minimum height and spread. These heights and spreads in relation to pot size are just a guide and the 'National Plant Specification' sizes will be accepted (but will be seen as the absolute minimum acceptable). Any shrub supplied which are smaller than this will be rejected at once.
-Cornus varieties shall be twice transplanted and pruned to form bushy rounded plants. Leggy plants with few branches will be rejected, as will leggy plants which have been pruned hard.
-Plants shall be completely hardened off, any plants which show signs of scorching after planting will be rejected.

REFER TO THE ACCOMPANYING MEASURED WORKS SCHEDULE DOCUMENT FOR MORE INFORMATION
CHANGES TO SUPPLIERS/MANUFACTURERS ARE TO BE EQUAL AND APPROVED.
SUBSTITUTIONS TO SHRUB/TREE VARIETIES ARE TO BE AGREED WITH BOVIS HOMES LTD.
DO NOT SCALE FROM THIS DRAWING
ALL DIMENSIONS TO BE CHECKED ON SITE

(C) BOVIS HOMES LTD 2015

TYPICAL SCHEDULE OF PLANTS FOR FRONT GARDEN LANDSCAPE

SHRUBS PLANTED IN 3LTR STOCK SIZE

QTY	CODE	PLANT NAME	STOCK		SPACING	SHC	DFB	MIN HEIGHT/SPREAD
40No.	Aca Mol	Acanthus mollis	C.G.	3L	6/m2	–		300-400 x 300-400mm
66No.	Alc Mol	Alchemilla mollis	C.G.	3L	6/m2	–		300-400 x 300-400mm
6No.	Ane Sep	Anemone japonica "September Charm"	C.G.	3L	3/m2	C		300-400 x 300-400mm
53No.	Auc Var	Aucuba japonica "Variegata"	C.G.	3L	3/m2	C		300-400 x 300-400mm
122No.	Ber Win	Bergenia cordifolia "Wintergut"	C.G.	3L	5/m2	–		300-400 x 300-400mm
70No.	Cho Azt	Choisya ternata "Aztec Pearl"	C.G.	3L	3/m2	C		300-400 x 300-400mm
36No.	Cho Sun	Choisya ternata "Sundance"	C.G.	3L	3/m2	C		300-400 x 300-400mm
11No.	Cis Cor	Cistus x corbariensis	C.G.	3L	3/m2	B		300-400 x 300-400mm
37No.	Cis Sun	Cistus pulverulentus "Sunset"	C.G.	3L	3/m2	B		300-400 x 300-400mm
16No.	Cor Fir	Cornus sanguinea "Midwinter Fire"	C.G.	3L	3/m2	C		300-400 x 300-400mm
19No.	Esc Bra	Escallonia "Golden Brian"	C.G.	3L	3/m2	C		300-400 x 300-400mm
39No.	Euo Aur	Euonymus japonicus "Ovatus Aureus"	C.G.	3L	3/m2	C		300-400 x 300-400mm
11No.	EUO Aur	Euonymus japonicus "Ovatus Aureus"	C.G.	3L	3/m2	C		400-550 x 400-550mm
89No.	Euo Eme	Euonymus fortunei "Emerald Gaiety"	C.G.	3L	5/m2	A		300-400 x 300-400mm
327No.	Euo Gol	Euonymus fortunei "Emerald 'n' Gold"	C.G.	3L	5/m2	A		300-400 x 300-400mm
44No.	Euo Bra	Euonymus japonicus "Bravo"	C.G.	3L	3/m2	C		300-400 x 300-400mm
83No.	Euo Pre	Euonymus "President Gaultier"	C.G.	3L	3/m2	B		300-400 x 300-400mm
109No.	Heb Met	Hebe "Mette"	C.G.	3L	4/m2	B		300-400 x 300-400mm
201No.	Heb Rak	Hebe rakaiensis	C.G.	3L	4/m2	B		300-400 x 300-400mm
13No.	Heb Sut	Hebe "Sutherlandii"	C.G.	3L	4/m2	A		300-400 x 300-400mm
5No.	Hem Buz	Hemerocallis "Buzz Bomb"	C.G.	3L	5/m2	–		300-400 x 300-400mm
31No.	Hem Ste	Hemerocallis "Stella d'Oro"	C.G.	3L	5/m2	–		300-400 x 300-400mm
86No.	Hyp Hid	Hypericum "Hidcote"	C.G.	3L	3/m2	C		300-400 x 300-400mm
20No.	Jun Min	Juniperus x media "Mint Julep"	C.G.	3L	2/m2	C		300-400 x 300-400mm
160No.	Lon May	Lonicera nitida "Maygreen"	C.G.	3L	3/m2	C		300-400 x 300-400mm
16No.	Phl Fru	Phlomis fruticosa	C.G.	3L	3/m2	B		300-400 x 300-400mm
3No.	Phi Her	Philadelphus "Manteau d'Hermine"	C.G.	3L	3/m2	B		300-400 x 300-400mm
10No.	Pho Jes	Phormium "Jester"	C.G.	3L	3/m2	–		300-400 x 300-400mm
11No.	Phy Ang	Physocarpus opulifolius "Angels Gold"	C.G.	3L	3/m2	C		300-400 x 300-400mm
22No.	Pit Var	Pittosporum tenuifolium "Variegatum"	C.G.	3L	3/m2	F	4.5	300-400 x 300-400mm
15No.	Pot Abb	Potentilla fruticosa "Abbotswood"	C.G.	3L	3/m2	B		300-400 x 300-400mm
93No.	Pru Ott	Prunus laurocerasus "Otto Luyken"	C.G.	3L	3/m2	B		300-400 x 300-400mm
6No.	Ros Noz	Rosa "Nozomi"	C.G.	3L	3/m2	A		300-400 x 300-400mm
3No.	Rud Gol	Rudbeckia fulgida "Goldsturm"	C.G.	3L	3/m2	–		300-400 x 300-400mm
5No.	Sal Sup	Salvia superba	C.G.	3L	4/m2	–		300-400 x 300-400mm
86No.	Sar Hum	Sarcococca humilis	C.G.	3L	4/m2	A		300-400 x 300-400mm
94No.	Spi Gol	Spirea japonica "Goldflame"	C.G.	3L	3/m2	B		300-400 x 300-400mm
6No.	Sym Han	Symphoricarpos chenaultii "Hancock"	C.G.	3L	3/m2	D	2.25	300-400 x 300-400mm
230No.	Vib Dav	Viburnum davidii	C.G.	3L	3/m2	B		300-400 x 300-400mm
38No.	Vib Tin	Viburnum tinus "Eve Price"	C.G.	3L	3/m2	D	2.25	300-400 x 300-400mm
36No.	Vin Maj	Vinca major	C.G.	3L	3/m2	A		300-400 x 300-400mm

SHRUBS PLANTED IN 5LTR STOCK SIZE

QTY	CODE	PLANT NAME	STOCK		SPACING	SHC	MIN HEIGHT/SPREAD
24No.	AUC Var	Aucuba japonica "Variegata"	C.G.	5L	3/m2	C	400-550 x 400-550mm
10No.	CHO Azt	Choisya ternata "Aztec Pearl"	C.G.	5L	3/m2	C	400-550 x 400-550mm
19No.	CIS Sun	Cistus pulverulentus "Sunset"	C.G.	5L	3/m2	B	400-550 x 400-550mm
46No.	EUO Eme	Euonymus fortunei "Emerald Gaiety"	C.G.	5L	5/m2	A	400-550 x 400-550mm
6No.	EUO Pre	Euonymus "President Gaultier"	C.G.	5L	3/m2	B	400-550 x 400-550mm
62No.	HEB Met	Hebe "Mette"	C.G.	5L	4/m2	B	400-550 x 400-550mm
4No.	HEB Rak	Hebe rakaiensis	C.G.	5L	4/m2	A	400-550 x 400-550mm
5No.	HYP Hid	Hypericum "Hidcote"	C.G.	5L	3/m2	C	400-550 x 400-550mm
4No.	PHI Her	Philadelphus "Manteau d'Hermine"	C.G.	5L	3/m2	B	400-550 x 400-550mm
17No.	PHY Ang	Physocarpus opulifolius "Angels Gold"	C.G.	5L	3/m2	C	400-550 x 400-550mm
5No.	PRU Ott	Prunus laurocerasus "Otto Luyken"	C.G.	5L	3/m2	B	400-550 x 400-550mm
19No.	SPI Gol	Spirea japonica "Goldflame"	C.G.	5L	3/m2	B	400-550 x 400-550mm

SHRUBS PLANTED IN 10LTR STOCK SIZE

QTY	CODE	PLANT NAME	STOCK		SPACING	SHC	DFB	MIN HEIGHT/SPREAD
27No.	Auc VAR	Aucuba japonica "Variegata"	C.G.	10L	2/m2	C		450-650 x 450-650mm
5No.	Cho TER	Choisya ternata	C.G.	10L	2/m2	D	2	450-650 x 450-650mm
54No.	Cho AZT	Choisya ternata "Aztec Pearl"	C.G.	10L	2/m2	C		450-650 x 450-650mm
46No.	Cho SUN	Choisya ternata "Sundance"	C.G.	10L	2/m2	C		450-650 x 450-650mm
5No.	Cis SUN	Cistus pulverulentus "Sunset"	C.G.	10L	2/m2	B		450-650 x 450-650mm
6No.	Cor SIB	Cornus alba "Sibirica"	C.G.	10L	2/m2	D	2.25	450-650 x 450-650mm
12No.	Cor SPA	Cornus alba "Spaethii"	C.G.	10L	2/m2	D	2.25	450-650 x 450-650mm
31No.	Euo AUR	Euonymus japonicus "Ovatus Aureus"	C.G.	10L	2/m2	C		450-650 x 450-650mm
6No.	Euo BRA	Euonymus japonicus "Bravo"	C.G.	10L	2/m2	C		450-650 x 450-650mm
11No.	Euo PRE	Euonymus "President Gaultier"	C.G.	10L	2/m2	B		450-650 x 450-650mm
5No.	Gri VAR	Griselinia littoralis "Variegata"	C.G.	10L	2/m2	D	1.5	450-650 x 450-650mm
24No.	Heb MET	Hebe "Mette"	C.G.	10L	2/m2	B		450-650 x 450-650mm
17No.	Heb SUT	Hebe "Sutherlandii"	C.G.	10L	3/m2	A		450-650 x 450-650mm
21No.	Hyp HID	Hypericum "Hidcote"	C.G.	10L	2/m2	C		450-650 x 450-650mm
5No.	Jun MIN	Juniperus x media "Mint Julep"	C.G.	10L	2/m2	C		450-650 x 450-650mm
37No.	Pho JES	Phormium "Jester"	C.G.	10L	2/m2	–		450-650 x 450-650mm
15No.	Pru OTT	Prunus laurocerasus "Otto Luyken"	C.G.	10L	2/m2	B		450-650 x 450-650mm
27No.	Pru ZAB	Prunus laurocerasus "Zabeliana"	C.G.	10L	2/m2	B		450-650 x 450-650mm
7No.	Spi GOL	Spirea japonica "Goldflame"	C.G.	10L	2/m2	B		450-650 x 450-650mm

GRASSES AND SEDGES

QTY	CODE	PLANT NAME	STOCK		SPACING	
7No.	Car Eve	Carex hachijoensis "Evergold"	C.G.	3L	5/m2	300-400 x 300-400mm
12No.	Sti Aru	Stipa arundinacea	C.G.	3L	5/m2	300-400 x 300-400mm

SPECIMENS PLANTED IN BEDS, GRASS OR GRAVEL

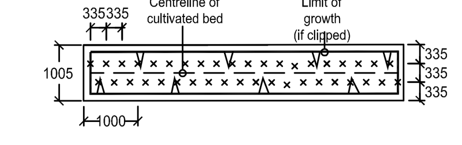
QTY	CODE	PLANT NAME	STOCK		SHC	DFB
2No.	ANE SEP*	Anemone japonica "September Charm"	C.G.	3L	–	
7No.	AUC VAR*	Aucuba japonica "Variegata"	C.G.	10L	C	
7No.	CHO AZT*	Choisya ternata "Aztec Pearl"	C.G.	10L	C	
19No.	CHO SUN*	Choisya ternata "Sundance"	C.G.	10L	C	
3No.	FAT JAP*	Fatsia japonica	C.G.	10L	E	3
4No.	HYD QUE*	Hydrangea quercifolia	C.G.	10L	D	1.5
5No.	PHO PUR*	Phormium tenax "Purpureum"	C.G.	10L	–	
14No.	PHO JES*	Phormium tenax "Jester"	C.G.	10L	–	
21No.	THU SMA*	Thuja occidentalis "Smaragd" min.1.5m high	C.G.	15L	D	1

BULB PLANTING MIXES

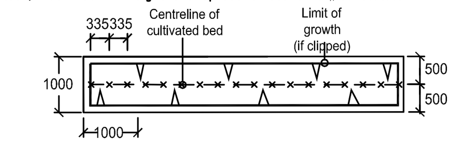
QTY	%	PLANT NAME	STOCK	SPACING
8m2		Bulb planting mix A		
32No.	20%	Galanthus nivalis	bulb	20/m2
32No.	20%	Narcissus pseudonarcissus	bulb	20/m2
32No.	20%	Hyacinthoides non-scripta	bulb	20/m2
16No.	10%	Leucojum vernum	bulb	20/m2
16No.	10%	Convallaria majalis	bulb	20/m2
8No.	5%	Fritillaria meleagris	bulb	20/m2
8No.	5%	Anemone nemorosa	bulb	20/m2

SPECIFICATION FOR HEDGE PLANTING

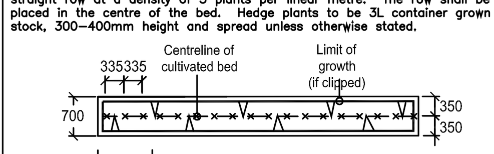
SPECIFICATION FOR NATIVE AND SEMI-NATIVE HEDGES e.g. Mixed native species, Carpinus betulus & Fagus sylvatica.
Hedges containing native and semi-native planting in mixes shall be planted in two straight rows set 335mm apart at a density of 6 plants per linear metre. The two rows shall be placed in the centre of the bed and shall be offset so that the plants are alternate and not opposite each other. Plants to be open ground stock 600-900mm high.



SPECIFICATION FOR ORNAMENTAL HEDGE PLANTING – LARGE GROWING SPECIES e.g. Osmanthus heterophyllus, Ligustrum ovalifolium, Viburnum tinus, Cotoneaster lacteus, Euonymus japonicus 'Aureopictus', Escallonia 'Apple Blossom' & Griselinia littoralis.
Hedges containing large ornamental species shall be planted in a single straight row at a density of 3 plants per linear metre. The row shall be placed in the centre of the bed. Hedge plants to be 3L container grown stock, 400-600mm height and spread unless otherwise stated.



SPECIFICATION FOR ORNAMENTAL HEDGE PLANTING – SMALL GROWING SPECIES e.g. Buxus sempervirens, Osmanthus delavayi, Lavendula spica 'Hidcote,' Hebe topiara & Lonicera nitida.
Hedges containing small ornamental species shall be planted in a single straight row at a density of 3 plants per linear metre. The row shall be placed in the centre of the bed. Hedge plants to be 3L container grown stock, 300-400mm height and spread unless otherwise stated.



NB. Hedges adjacent to gravel areas shall have the cultivated strip separated from gravel by a timber edge 75 x 25mm of ACQ treated timber stained with 3No. coats of Sadolin 'Classic' colour 'Walnut' (dark brown wood stain) according to specification.

SPECIFICATION FOR "COVERTEX" SHEET MULCH FOR PLANTED AREAS

INTRODUCTION

"COVERTEX" is a woven black polypropelene fabric, 102g/m2 which is manufactured in Ultraviolet resistant (black) form. This product is available from Hy-Tex U.K. Ltd., PO Box 97, Adlington, Ashford, Kent, TN25 7EK. Telephone (01233) 720097.

SPECIFICATION

1. Prepare and Cultivate imported or existing topsoil including fertlizers as necessary and water to field capacity.

N.B. Ensure that the finished soil level is at least 65mm below adjacent pavement or grass levels to receive sheet and bark mulch. For sloping beds ensure that soil levels are 65mm below pavements or grass areas within 600mm of bed edges.

2. Place covertex sheet mulch over soil to be planted. Unroll materials, placing in overlapping rows (overlap to be no less than 50mm).

3. Bury 200mm flap of material at the extreme edges of the planting bed, or nail to concrete haunch of path edging with masonry nails @ 1m centres

4. Secure material in position by hammering in 300mm metal pegs at 500mm centres. (300mm centres @ edges of beds) Metal hoops for pegging purposes.

5. Place plants on beds in intended positions.

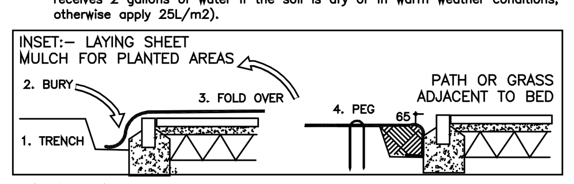
6. Cut the fabric with sissors in "+" shape for each plant position, 400mm across.

7. Pit plant the plants, holding back the flaps of fabric, and carefully replace around the stem. Spread topsoil under sheet if friable. Remove all compacted topsoil clods from site, ensure no soil is left on top of sheet.

8. Once all the plants are planted, cover the fabric all over with 50mm of Melcourt Industries "Rustic Biomulch".

9. Finally, water the bed thoroughly to field capacity. (Ensure that each plant receives 2 gallons of water if the soil is dry or in warm weather conditions, otherwise apply 25L/m2).

INSET:– LAYING SHEET MULCH FOR PLANTED AREAS



CONTRACTOR NOTE:
DO NOT USE SHEET MULCH ON SLOPES GREATER THAN 1:3 WITHOUT THE USE OF GRAVEL BOARDS AT 1 – 1.5m CENTRES ALONG THE CONTOURS TO RETAIN THE BARK COVER.

SPECIFICATION FOR BIODEGRADABLE SHEET MULCH FOR PLANTING

INTRODUCTION

Biodegradable sheet mulch is a woven, natural fibre, biodegradable fabric of sufficient strength to last 3-6 months to ensure weed suppression and successful plant establishment when newly disturbed soil triggers significant weed generation. The water porous product helps the ground stay moist and weed free, speeding plant growth and establishment greatly.

SPECIFICATION

1. Prepare and Cultivate imported or existing topsoil including fertlizers as necessary and water to field capacity.

N.B. Ensure that the finished soil level is at least 65mm below adjacent pavement or grass levels to receive sheet and bark mulch. For sloping beds ensure that soil levels are 65mm below pavements or grass areas within 600mm of bed edges.

2. Place suitable biodegradable sheet mulch over soil to be planted. Unroll materials, placing in overlapping rows (overlap to be no less than 50mm).

3. Bury 200mm flap of material at the extreme edges of the planting bed, or nail to concrete haunch of path edging with masonry nails @ 1m centres

4. Secure material in position by hammering in 300mm plastic pegs at 500mm centres. (300mm centres @ edges of beds).

5. Place plants on beds in intended positions.

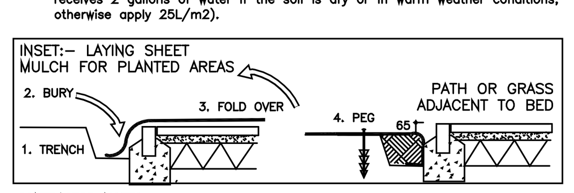
6. Cut the fabric with sissors in "+" shape for each plant position, 400mm across.

7. Pit plant the plants, holding back the flaps of fabric, and carefully replace around the stem. Spread topsoil under sheet if friable. Remove all compacted topsoil clods from site, ensure no soil is left on top of sheet.

8. Once all the plants are planted, cover the fabric all over with 50mm of coarse, graded, free of fines large wood chip mulch available from Edwards of Brandon Tel: 01842 813555.

9. Finally, water the bed thoroughly to field capacity. (Ensure that each plant receives 2 gallons of water if the soil is dry or in warm weather conditions, otherwise apply 25L/m2).

INSET:– LAYING SHEET MULCH FOR PLANTED AREAS



CONTRACTOR NOTES:
– DO NOT USE BIODEGRADABLE SHEET MULCH ON SLOPES GREATER THAN 1:3 WITHOUT THE USE OF GRAVEL BOARDS AT 1 – 1.5m CENTRES ALONG THE CONTOURS TO RETAIN THE BARK COVER.
– FOR GRAVEL/SHINGLE AREAS UTILISE A NON-BIODEGRADABLE POLYPROPYLENE WOVEN FABRIC SUCH AS "COVERTEX" FROM HY-TEX U.K. LTD, TEL: (01233) 720097.

MAINTENANCE NOTES:

MAINTENANCE SCHEDULE – 5 YEAR MAINTENANCE PROGRAMME

YEAR 1 – Public/management company areas.

- Grassed Areas:
  12no cuts per year. Assess growth patterns and grass colour and recommend suitable fertiliser/selective herbicide or fungicide applications as required.
- Planted Areas:
- To be irrigated weekly during first summer growing season
- To be weed treated
  1no. Glyphosate treatment – spring
  1no. residual herbicide application – winter
- Check condition of plantings – autumn
- Replace diseased, failing or dying plants as necessary.
- Trim, prune or shape as necessary, removing diseased or damaged stems, root stock growth and any reverted growth – winter/spring.
- Strim around specimens growing in grass to maintain clear competition free environment to base of plants. Care is to be taken to prevent damage to plants. Replace damaged stock as necessary.
- Remove self-set invasive tree species such as sycamore.
- Top up bark mulch to 75mm.

Hedges:
- To be irrigated weekly during first summer growing season
- Prune all bare root stock following planting.
- Check rabbit guards to all bare root stock. Adjust and/or replace as necessary.
- Clean hedge base once yearly.
  1no. Glyphosate treatment – spring
  1no. residual herbicide application – winter
- Top up bark mulch to 75mm.

Trees:
- To be irrigated weekly during first summer growing season
- Maintain sward free mulch area around tree base.
- Check all ties and adjust accordingly.
- Check treee stakes and firm as necessary.

YEAR 1 – Private areas
As above between completion and handover.

YEAR 2 – As per Year 1:

YEAR 3 – As per Year 1 with the following exceptions:
Public and private (recommend to purchaser) areas:

Trees:
- Reduce tree stakes by 50% and re-tie.

MAINTENANCE NOTES: YEAR 4 – As per Year 1 with the following exceptions:
- Public areas:

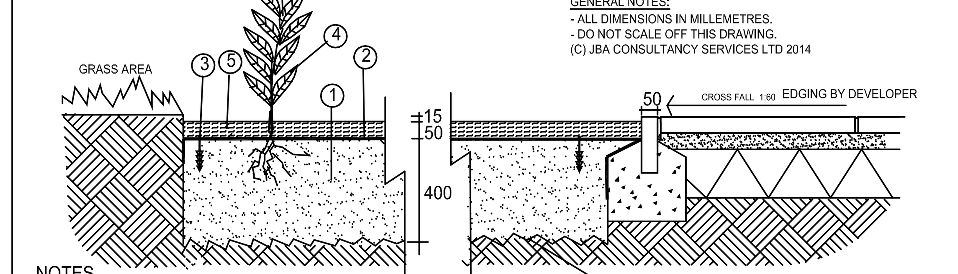
Bare root planting:
- Remove rabbit guards.

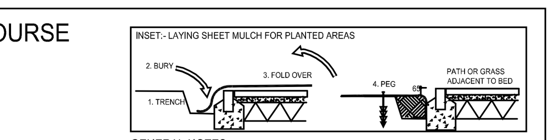
Tree planting:
- Loosen tree ties as necessary.
- Remove sub canopy plants to relieve congestion to appropriate density as necessary.
- Selectively thin to encourage dominant tree growth.

YEAR 5 – As per Year 1 with the following exceptions:

Trees:
- Remove tree stakes as required.

INSET DETAIL 1: SHRUB BED WITH COURSE WOOD CHIP MULCH OVER SUITABLE BIODEGRADABLE SHEET MULCH.
NOT TO SCALE





GENERAL NOTES:
- ALL DIMENSIONS IN MILLEMETRES.
- DO NOT SCALE OFF THIS DRAWING.
(C) JBA CONSULTANCY SERVICES LTD 2014

NOTES
1. Existing topsoil to be rotovated to a depth of 400mm ensuring that the ground is completely broken up and is free draining. Complete ground preparation as specified within the measured works schedule, ensuring finished soil levels are 65mm below adjacent pavement or grass surfaces. If soil is dry, water liberally, prior to laying sheet mulch.
2. Suitable biodegradable sheet mulch to be unrolled and placed in overlapping rows (overlap to be a minimum of 50mm). To be laid by burying 200mm flap of material at the extreme edges of the shrub area, and folding over itself (refer to inset on sheet mulch specification). Tuck in sheet on the opposite side of the proposed shrub area and fasten close to tucked in part with plastic pegs.
3. Suitable pegs hammered in at 500mm centres to secure sheeting. Increase frequency to 300mm centres at edges to secure sheet mulch at margins.
4. Supply and pit plant shrubs through sheeting. Refer to pit planting through sheet mulch specification.
5. "Coarse graded free-of-fines large wood chip mulch" to be darkened from aging (3-6 months minimum) available from Edwards of Brandon, Tel: (01842) 813555. Mulch to cover all of biodegradable fabric to a min depth of 50mm once all plants are planted. Ensure finished levels are 15mm below adjacent turf or hard surfaces.

N.B. (A) Do not use biodegradable sheet mulch on slopes greater than 1:3 without the use of gravel boards at 1 - 1.5m centres along the contours to retain the bark cover.
(B) For gravel/shingle areas utilise a non-biodegradable polypropylene woven fabric such as "Covertex" from Hy-tex U.K. Ltd, tel: (01233) 720097. Cover the fabric all over with 40mm of clean, washed, cream / buff coloured gravel, 20mm gravel, unless otherwise stated in the key.

PIT PLANTING THROUGH SHEET MULCH SPECIFICATION
A) Place plants on sheet in intended positions.
B) Cut "+" shape in to the fabric with scissors or sharp knife for each plant position. Each cut to be approximately 300mm - 500mm depending on the size of the shrub.
C) Hold back the fabric using stones etc and excavate pits of appropriate size, for example: -300mm depth and 300mm radius of stem, for plants specified in 10L containers. -300mm depth and 250mm radius of stem, for plants specified in 3L or smaller containers.
D) Ensure pit sides / base are well broken up.
E) Pit plant so the nursery mark is flush with the ground.
F) Backfill with imported or existing topsoil mixed with Vitax "Q4-HN" fertiliser to suppliers instructions and 25L tree peat compost per m2.
G) Firm in and replace flaps of fabric tightly around base of plant stem. ensure there is no soil what so ever over the sheet mulch. Peg as necessary.
H) Water plants with 20L/plant for 10L stock and 10L/plant for 3L or smaller stock using a fine spray hose.
I) Spread "coarse graded free-of-fines large wood chip mulch" 50mm deep. Finished surface levels to be 15mm below adjacent turf or paving.

FOR LANDSCAPE HARDWORKS AND BOUNDARY DETAILS SEE PLANNING LAYOUT 0120-2-201.

FOR SOFT LANDSCAPE PROPOSALS SEE PLANS 0120-3001, 3002 AND 3003.

FOR ENGINEERING DETAILS SEE PLAN 0120-5-501 AND 5-601.

REVISIONS:
A – Spine Rd frontages amended to suit revised junction radii.

STRATEGIC LANDSCAPE PROPOSALS - Schedules and Specification.

0120-3003A

NTS @ A1