# IMPLEMENTATION AND MAINTENANCE GUIDELINES

### 1.0 GENERAL

All plants shall conform to BS 3936 and be in accordance with the National Plant Specification. Supplying nurseries shall be registered under the HTA Nursery Certification Scheme. All plants shall be packed and transported in accordance with the Code of Practice for Plant Handling as produced by CPSE. Planting shall not be carried out when the ground is waterlogged, frostbound or during periods of cold drying winds. All bare root stock shall be root dipped in an approved water-retaining polymer.

If the formation level is compacted it should be ripped through before topsoiling. Topsoil depths to be 450mm for shrub beds and 150mm for grass areas.

#### 2.0 ORNAMENTAL SHRUBS AND TREES

### 2.1 Ground Preparation

Where necessary treat existing weeds with a glyphosate based herbicide and allow a suitable period as recommended by the manufacturer for this to take effect. A general purpose slow release fertiliser at the rate of 75gm/m2 and Tree Planting and Mulching Compost at the rate of 20litres/m2 are to be incorporated into the top 150mm of topsoil during final cultivations. All extraneous matter such as plastic, wood, metal and stones greater than 50mm in any dimension shall be removed from site.

Tree pits are to be excavated and the base broken up a further 150mm with the sides well scarified to prevent smearing. All trees up to and including selected standards are to be supported with single 75mm diameter stakes. All rootball, container grown and trees over heavy standard size shall be double staked. Any feature trees semi mature in size to be secured with a below ground anchoring system (such as a deadman anchor) Stakes should be driven 500mm into undisturbed ground before planting the tree, taking care to avoid underground services and cables etc.

Shrubs and hedges are to be set out as shown on the drawing and pit planted into the prepared soil at the specified centres with minimal disturbance to the rootball and well firmed in.

Trees are to be placed into the pits and backfilled with topsoil incorporating slow release fertilizer and Tree Planting and Mulching Compost as specified. Firm trees in well and secure with proprietary rubber tree ties

Water in all trees and shrubs at the end of each day of planting.

Spread ornamental pine bark mulch to a depth of 75mm across all new planting areas ensuring groundcover

The landscape contractor shall maintain all areas of new planting for a period of 12 months following practical completion. All stock deemed to be dead, dying or diseased within the defects period shall be replaced by the contractor at his own cost.

The site is to be visited monthly throughout the year to undertake the following operations. Weed clearance: All planting areas are to be kept weed free by hand weeding or herbicide treatment. r clearance: All litter is to be removed from planting beds. <u>Matering</u>: Planting areas are to be brought up to field capacity at each visit and each tree is to receive 20 <u>Čhecking trees</u>: All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chaffing is occurring. Any broken stakes are to be replaced.

Formative pruning: Any damaged shoots/branches are to be pruned back to healthy wood. Plants are to be

pruned in accordance with good horticultural practice to maintain healthy well-shaped specimens...

### 3.0 NATIVE HEDGE PLANTING

The hedge line shall be set out using 38x38x1200 stakes at maximum 50m intervals and all herbaceous material within 500mm each side of the centre line shall be sprayed out using an approved herbicide at least two weeks before planting.

## The 1000mm wide hedge line shall be cultivated to 150mm incorporating Enmag or equal at 75gm/m2.

Plants shall be notch planted in three rows 250mm apart and staggered at 300mm centres. All plants are to be protected with a 600mm proprietary shelter secured with a stake/cane and ties as recommended by the . manufacturer

3.4 Maintenance Using approved herbicides a 1000mm wide swathe centred on the hedgeline shall be kept weed free

Each Autumn after planting and until handover to the adopting authority, the contractor will prepare a list of all plants which are dead, dying or diseased and will replace these plants during the following planting season.

The area to be seeded shall be sprayed out with a glyphosate herbicide and cultivated to a depth of 100mm removing all weeds, debris and stones over 25mm diameter. The surface shall be raked to smooth flowing contours with a fine tilth, incorporating pre-seeding fertiliser at 70 g/m2.

# Turfing operations shall be in accordance with BS 4428.

Whole turves shall be laid around the perimeter of the area to be turfed. The central area shall be laid in rows with staggered joints, well butted together, working from planks positioned on turves already laid. The turf shall be watered on completion. Any unevenness shall be made good by lifting the turf and adjusting the levels. Should shrinkage occur, fine topsoil shall be brushed into the joints

Grass seed shall be sown in April during calm weather and not when the ground is frost bound or waterlogged. Seed shall be sown in two equal sowings in transverse directions at 35 g/m2. After sowing the contractor shall lightly rake the seed into intimate contact with the soil. All seed mixes to be specified in accordance with those set out in the approved management plan.

When newly seeded areas reach 50mm they should be cut back to a height of 30mm and then cut twice annually in early Spring and late Summer. All arisings shall be removed or spread evenly across grassland. Any bare patches shall be made good at this time.

### 5.1 Existing Topsoil Pre-planting herbicide application

Apply by suitable spraying apparatus, 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 terminate. 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 ecessary to ensure complete kill and rake off all dead material from site.

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 Vitax "Nutricote 180" 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.

Carry out the following works to the existing topsoil on site to ensure it Conforms to BS 3882:1994, being free

Any imported topsoil for making up ground, shall conform to BS:3882:1994, and be free from rocks (over 50mm diameter), concrete, roots, wire and brick, and have less 20% clay.

### **NOTES**

• All landscape proposals must be referred to by the Structural Engineer during foundation design. Soiling operations to be carried out in accordance with the implementation and maintenance guidelines.

 All planting to be in accordance with the implementation and maintenance guidelines. No species, variety, size or position to be amended without the Landscape Architects prior approval.

 Before trees are planted, the Landscape Contractor shall ascertain the location of drains from the site manager, and shall if necessary make minor adjustments to tree positions to ensure that they are planted at least 1.5m from drains. They should however be planted no closer to houses/garages than is shown on the drawing, and if shown located in shrub beds, the shape of the latter should be adjusted if necessary to accommodate the revised tree

• All planting must be mulched in accordance with the implementation and maintenance guidelines.

• If planting is required outside the October-March season, bare root shrubs will be replaced by 3L pot grown plants, and trees will be replaced by a containerised equivalent to be approved by the project landscape architect.

> P/2017/00426 REVISED RECEIVED 26/7/2017

> > $-\boxtimes$

83

86

89

3 No. AUCJA 3 No. CORALE 4 No. ELAPUMA

4 No PHOFRRER

The state of the s

Existing Ditch Course

91No PRULU

4 No. EUOFOEG

82 | 83 |

No. CHOAP No. CORSAWE

2 No. EUOFOEG 2 No. HEBMW

No. HEBPIS

5 No. CHOTES

No. PRULAZA

5 No. HEBALRE

3 No. CHOTES 3 No. ELAEB

No. HEBALRE

3 No. LAVANMU 3 No. PHODA

2 No. HEBPIS S2 2 No. PITTETT

4 No. CEATHR 4 No. HEBPIS

3 No.LAVANM 3 No.PHODA

6 No. HEBPIS

No PERATRS

No. PHOWAVA

3 No. PHOFRRER

31/No. ELAEB

3m/WIDE CULVERT HEADWALL WITH

1.1m HIGH METAL RAILING (SEE

SEPARATE ENGINEERS DRAWINGS FOR

DETAIL)

- 2 No. CHOTES

-5 No. CISSP 5 No. HEBPIS

2 No. HEBPIS 2 No. PITTETT 2 No. ROSOF

4 No. HEBRA

4 No. LAVANMU 4 No. PERATBS 4 No. PHOWAVA 4 No. PHOFRRER

2 No. AUCCROA 2 No. CHOAP 9 2 No. CORSAWF 2 No. EUDFOEG

2 No. HEBMW

7 No.LAVANMU 7 No.PERATBS

4 No. BRASU 4 No. CEATHR

4 No. HEBPIS 4 No. PRULAZA

7 No. PHOWAVA 7 No. PHOFRRER

# **KEY** Site boundary Existing trees and hedgerow to be retained Existing hedgerows to be retained indicated with dotted hatch on plan. Existing trees and hedgerows to be removed Soft Landscape Proposals

Rolawn medalion turf or similar approved, laid in accordance the

Knee rail fencing 60cm high, to be located along the edge of the existing ditch

2 No. CISSP 2 No. HEBPIS 2 No. PITTETT

3 No. LAVANMU 3 No. PERATBS

97

3 No. CHOTES 3 No. CISSP

3 No. HEBPIS 3 No. PITTET 3 No. ROSOF

No. HEBRA 3 No. LAVANMU 3 No. PERATBS

3 No. PHOWAVA

2 No. AUCJA 2 No. EUOFOENG

2 No. MAHAQAP 2 No. PRULAOL 2 No. VIBDA

95

2 No. CHOTES 94 2 No. CISSP 2 No. HEBPIS 2 No. PITTETT

POS & PLAY AREA

Existing Ditch Course

Hedge to be retained

off site by St. Mowden

5m WIDE CULVERT HEADWALL WITH

1.1m HIGH METAL RAILING (SEE

EPARATE ENGINEERS DRAWINGS FOR

-4 No. HEBRA 3 No. CHOTES 3 No. CISSP -3 No. HEBPIS

course. Knee rail as supplied by Jacksons Fencing or similar approved.

Refer to plant schedule for details.

Turf to plot frontages

implementation guidelines.

Knee rail fencing

Easements

3 No. CHOTES 3 No. CISSP 3 No. HEBPIS 3 No. PITTETT

3 No. HEBRA

5 No. CHOAP 5 No. CORSAWF 5 No. EUOFOEG 5 No. HEBMW

3 No. LAVANMU 3 No. PERATBS 3 No. PHOWAVA

<sup>−</sup>4 No. SKIJARU

4 No. BRASU 4 No. CEATHR

4 No. PRULAZA

4 No. BRASU 4 No. CEATHR

4 No. HEBPIS 4 No. PRULAZ

3 No. HEBPIS

3 No. PRULAZA

3 No. BRASU 3 No. CEATHR

6 No. LAVANMU -6 No. PERATBS 6 No. PHOWAVA

6 No. PHOFRRER

EQUIPPED PLAY AREA TO BE PROVIDED BY ST MODWEN

(SEE SEPARATE PROPOSAL)

m WIDE CULVERT HEADWALL WITH

ARATE ENGINEERS DRAWINGS FOR

1.1m HIGH METAL RAILING (SEE

DETAIL)

92

NO.CEATHR NO.HEBPIS NO.PRULAZA

3 No. HEBPIS 3 No. PRULAZA

3 No. CEATHR 3 No. HEBPIS 3 No. PRULAZA

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NATIVE MIX HEDGEROW SUPPLY SIZE(cm) CTRS(m) T 1+1 CORAV 60/80 0.30 Corylus avellana CRAMON T 1+1 60/80 0.30 Crataegus monogyna T 1+1 FAGSY 60/80 0.30 Fagus sylvatica 0.30 Ilex aquifolium 40/60 T 1+1 PRUSP Prunus spinosa 60/80 0.30 T 1+1 ROSCA Rosa canina 60/80 0.30 New native hedgerow species mix in accordance with hedgerow species set out on St Modwen

drawing - 'Full Site Layout', ref: 40776/019H. Hedgerow shrubs to be supplied as bareroot stock unless stated and to be planted in accordance with the implementation and maintenance guidelines. The landscape proposals must be referred to by the Structural Engineer during foundation design. No hedgerow shrub species, size or location should be altered without prior approval from the Landscape Architect. Hedgerow shrubs to be planted on a triple staggered row, 250mm apart with no less than 10 per linear metre within a 100cm wide bed in accordance with the implementation and maintenance guidelines. Shrubs to be attached to a double line support fence (60cm high) using an approved clip tie.

√26 No. PRULU

3 No. HEBPIS 3 No. PRULAZA

29 No. PRULU

4 No. HEBRA -21 No. PRULU -

−9 No. SKIJARU —24 No. PRULU 4 No. HEBRA

> 7 No. SKIJARU 8 No. PRULU 34 No. PRULU-

> > 100

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5 No.HEBRA 5 No.LAVANMU

5 No.PERATBS 5 No.PHOWAVA 5 No.PHOFRRER

-5 No. CHOTES

102 5 No. CISSP 5 No. HEBPIS 5 No. PITTETX

11 No. BRASU 11 No. CEATHR

11 No. HEBPIS 11 No. PRULAZA

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36 No. ELAEB

6 No. CHOTE 6 No. EUOFOEG

6 No. HYPHI 6 No. SARCO

−9 No. PRULU

4 No. CHOTE 4 No. EUOFOEG

100

3 No. AUCJA
3 No. CORALE
4 No. ELAPUMA
3 No. FATJA
4 No. PHOFRRER
3 No. PRULU

4 No. SARCO

6 No. PRULL

10 No. PRULU

# PLANT SCHEDULE



SUPPLY SIZE(cm) GIRTH(cm)CTRS(m) Acer campestre 'Elsrijk' 450/625 16/18 Betula utilis 'Jacquemontii' 450/625 16/18 as shown Malus Evereste FHStd 450/625 16/18 as shown **T4** Prunus cerasifera 'Pissardii' EHStd 450/625 16/18 as shown **T5** Pyrus calleryana Chanticleer EHStd 450/625 16/18

All trees to be planted in accordance with the implementation and maintenance guidelines. The tree planting schedule and landscape proposals must be referred to by the Structural Engineer during foundation design. No tree species, size or location should be altered without prior approval from the Landscape Architect.

# **SPECIMEN SHRUBS & CLIMBERS**

REF	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
S1	Cercis 'Forest Pansy'	70L	150/175	Bushy	as shown
S2	Juniperus 'Sky Rocket'	35L	125/150	Bushy	as shown
S3	Magnolia 'Stellata'	25L	100/125	Bushy	as shown
<b>S</b> 4	Mahonia 'Winter Sun'	35L	125/150	Bushy	as shown
S5	Phormium 'Jester'	25L	100/125	Triple Crwn	as shown
S6	Phormium 'Yellow Wave'	25L	100/125	Triple Crwn	as shown
S7	Photinia x fraseri 'Red Robin'	70L	175/200	1/2 Std	as shown
S8	Syringa vulgaris 'Charles Joly'	25L	125/150	Bushy	as shown
C1	Pyracantha 'Golden Glow'	25L	180	On Trellis	as shown
C2	Trachelospernum jasminoides.	25L	180	On Trellis	as shown

All feature shrubs/climbers to be planted in accordance with the implementation and maintenance guidelines. No feature shrub/climber species, size or location should be altered without prior approval from the Landscape Architect.

### HEDGEROWS SPECIES

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)		
ELAEB	Elaeagnus x ebbingei	10L	80/100	Bushy	0.50		
PRULU	Prunus lusitanica	10L	80/100	Bushy	0.50		
All hedgerow shrubs to be planted in accordance with the implementation and maintenance							
guidelines. The landscape proposals must be referred to by the Structural Engineer during							
foundation design. No hedgerow shrub species, size or location should be altered without prior							

<u>roundation design.</u> No nedgerow shrub species, size or location should be altered without prior approval from the Landscape Architect. Hedgerow shrubs to be planted in a single row within a 50cm wide bed and mulched in accordance with implementation and maintenance guidelines. Hedgerow shrubs to be cut back to 80cm at the time of planting and maintained at this height unless within visibility lines, where the maximum height should be 60cm.

### SHRUB MIX 1 ADDD

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
CHOTES	Choisya ternata 'Sundance'	10L	40/60	Bushy	0.70
ELAEB	Elaeagnus ebbingei	10L	80/100	Bushy	0.70
* HEBALRE	Hebe albicans 'Red Edge'	10L	30/40	Bushy	0.70
* LAVANMU	Lavandula angustifolia 'Munstead'	10L	30/40	Bushy	0.70
PHODA	Phormium 'Dazzler'	10L	60/80	Bushy	0.70

# **SHRUB MIX 2**

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m
AUCCROA	Aucuba japonica 'Crotonifolia'	10L	40/60	Bushy	0.70
CHOAP	Choisya 'Aztec Pearl'	10L	40/60	Bushy	0.70
CORSAWF	Cornus sanguinea 'Winter Flame'	10L	60/80	Bushy	0.70
* EUOFOEG	Euonymus fortunei 'Emerald Gaiety'	10L	30/40	Bushy	0.70
* HEBMW	Hebe 'Mrs Winder'	10L	30/40	Bushy	0.70

# **SHRUB MIX 3**

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(r
AUCJA	Aucuba japonica	10L	40/60	Bushy	0.70
EUOFOENG	Euonymus fortunei 'Emerald 'n' Gold'	10L	30/40	Bushy	0.70
MAHAQAP	Mahonia aquifolium 'Apollo'	10L	30/40	Bushy	0.70
PRULAOL	Prunus laurocerasus 'Otto Luyken'	10L	60/80	Bushy	0.70
VIBDA	Viburnum davidii	10L	40/60	Bushy	0.70

# **SHRUB MIX 4**

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
AUCJAR	Aucuba japonica 'Rozannie'	10L	40/60	Bushy	0.70
CHOTE	Choisya ternata	10L	40/60	Bushy	0.70
* EUOFOEG	Euonymus fortunei 'Emerald Gaiety'	10L	30/40	Bushy	0.70
HYPHI	Hypericum 'Hidcote'	10L	40/60	Bushy	0.70
* SARCO	Sarcococca confusa	10L	20/30	Bushy	0.70

# **SHRUB MIX 5**

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CIRSIM
CHOTES	Choisya ternata 'Sundance'	10L	40/60	Bushy	0.70
* CISSP	Cistus 'Silver Pink'	10L	40/60	Bushy	0.70
* HEBPIS	Hebe pinguifolia 'Sutherlandii'	10L	30/40	Bushy	0.70
PITTETT	Pittosporum tenuifolium 'Tom Thumb'	10L	30/40	Bushy	0.70
ROSOF	Rosmarinus officinalis	10L	40/60	Bushy	0.70

– 5 No. SKIJARU – 8 No. PRULU

2 No. EUOF 2 No. MAHA 2 No. PRUL 2 No. VIBDA

2 No. EUOFOENG 2 No. MAHAQAP

No. PRULAOL

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	PITTETT ROSOF	Pittosporum tenuifolium 'Tom Thumb' Rosmarinus officinalis		,	Bushy Bushy	0.70 0.70
N.	SHRUB M	IX 6				
ş	<b>ABBR</b> * HEBRA	SPECIES	SUPPLY	SIZE(cm	) HABIT	CTR
	* HEBRA	Hebe rakaiensis	10L	30/40	Bushy	0.70

#### \*LAVANMU Lavandula angustifolia 'Munstead' Perovskia 'Blue Spire' PERATBS

PHOWAVA Phormium 'Yellow Wave'

PHOFRRER Photinia fraseri 'Red Robin'

PHOFRRER Photinia fraseri 'Red Robin'

PRULU Prunus lusitanica

νĘ	<b>AMENITY</b>	SHRUB MIX 1 - to rear gai	den bou	ındaries		
ξ	ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
	AUCJA	Aucuba japonica	5L	40/60	Bushy	0.75
	CORALE	Cornus alba 'Elegantissima'	3L	40/60	Branched	0.75
	ELAPUMA	Elaeagnus pungens 'Maculata'	5L	40/60	Bushy	0.75
	FATJA	Fatsia japonica	5L	40/60	Bushy	0.75

# AMENITY SHRUB MIX 2 - low level shrubs

31						
\$	ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
	BRASU	Brachyglottis 'Sunshine'	10L	60/80	Bushy	0.70
	CEATHR	Ceanothus thyrsiflorus repens	10L	40/60	Bushy	0.70
	HEBPIS	Hebe pinguifolia 'Sutherlandii'	10L	30/40	Bushy	0.70
	PRULAZA	Prunus laurocerasus 'Zabeliana'	10L	60/80	Bushy	0.70

All shrubs to be planted in accordance with the implementation and maintenance guidelines. No shrub species, size or location should be altered without prior approval from the Landscape Architect. Individual species to be planted in groups of 3-7. Lower growing species to be planted at the front of the shrub bed and adjacent to paths. Low growing species marked with \* above. Single species to be planted as per quantities set out on the drawing.

#### C- [20/07/2017 AP] New native hedgerow species updated and hedgerows retained & removed revised B- (23/06/2017 LB) Updated to latest site layout A- (31/03/2017 EW) Updated to latest site layout and client comments on additional planting

Revisions: First Issue- 30/03/2017 EW 0.70

0.70

Bushy

Bushy

Bushy

Bushy

Pegasus

40/60

60/80

60/80

40/60

40/60

10L

Bramshall Road, Uttoxeter

# Soft Landscape Proposals Sheet 4 of 4

Drawing Ref: **P17-0233\_04-C** Client: **Bellway Homes** 

: 30/03/2017 Date Drawn by : EW





