



IMPLEMENTATION AND MAINTENANCE GUIDELINES

1.0 GENERAL

All plants shall conform to BS 3038 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, frosted 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. Recommended topsoil depths are 300mm for shrubs and 150mm for grass.

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 75g/m² and Tree Planting and Mulching Compost at the rate of 200g/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.

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

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

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

Spread ornamental zinc bark mulch to a depth of 75mm across all new planting areas, ensuring groundcover plants are not buried.

2.3 Maintenance
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.
Litter clearance: All litter is to be removed from planting beds.
Watering: Planting areas are to be brought up to field capacity at each visit and each tree is to receive 20 gallons.
Checking trees: All tree ties and stakes are to be checked and adjusted if too loose, too tight or if chafing is occurring. Any broken stakes are to be replaced.
Formative pruning: Any damaged shoot/prunings 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 SHRUB PLANTING

3.1. Ground Preparation
The extent of the planting area shall be set out using 38x38x1200mm timber stakes at each change in direction and a maximum of 50m intervals.

Either for notch planting
All herbaceous material within the proposed planting area shall be sprayed out using an approved herbicide at least two weeks before planting and the ground shall be cultivated to a depth of 150mm.
or for pit planting
A 900mm diameter circle shall be sprayed out at each planting station using an approved herbicide at least two weeks before planting.

3.2 Planting

All bare rooted stock is to be root dipped in water retaining polymer. Proposed planting is to be planted on an informal grid. To avoid straight lines each planting station can be moved by up to 300mm in any direction.

Either a for shelter or b for rabbit fence
a. All stock to be protected from rabbit damage using approved proprietary tree and shrub shelters, 1000mm and 600mm high respectively, secured with stakes and ties as advised by the manufacturer.
b. All stock to be protected from rabbit damage by 900mm high rabbit fencing erected in accordance with the manufacturers recommendations.

3.3 Maintenance

Using approved herbicides a 900mm diameter circle centered on each planting station shall be kept weed free throughout the maintenance period.

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 during the following planting season.

4.0 NATIVE HEDGE PLANTING

4.1 Setting Out
The hedge line shall be set out using 38x38x1200 stakes at maximum 50m intervals and all herbaceous material within 400mm of the centre line shall be sprayed out using an approved herbicide at least two weeks before planting.

4.2 Preparation
The 600mm wide hedge line shall be cultivated to 150mm incorporating Enmag or equal at 75g/m².

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

4.4 Maintenance
Using approved herbicides a 900mm wide swathe centred on the hedge line shall be kept weed free throughout the maintenance period.

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.

5.0 GRASS

5.1 Preparation
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 tih, incorporating pre-seeding fertilizer at 70 g/m².

5.2 Turf
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 mixing the turf and adjusting the levels. Should shrinkage occur, the topsoil shall be brushed into the joints.

5.3 Seeding
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.

5.4 Infill cut
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 cuttings shall be removed or spread evenly across grassland. Any bare patches shall be made good at this time.

KEY

- Site boundary
- Soft landscape proposals
See plant schedule for details.
- Existing trees/vegetation to be retained
- Existing trees/vegetation to be removed
- Existing hedgerow along Camp Road to be removed
- Areas of turf/grass seed
Turf to pit forstages, amenity grass seed mix to less formal areas.
- 2m Substation buffer

BOUNDARY ENCLOSURE DETAILS

- Acoustic fence
Acoustic fence, 5m in height to Dorchester Group specification.
- Metal fence
Existing metal fence to be retained to the boundary of the sub station.
- Low brick wall - to Plots 19 & 20
Wall and access gates to Dorchester Group specification.
- Timber fencing
Carterbury camell panel decorative fencing and gates to Dorchester Group specification.
- Closeboard fence
Fence and access gates to Dorchester Group specification.
- Timber field gates
Timber field gates, double leaf with pedestrian access. Varying widths to fit each driveway entrance, hinged to open 180 degrees. To Dorchester Group specification.
- Four bar timber post and rail fence
Standard post and four rail fencing 1.5m high to Dorchester Group specification.
- Native hedgerow
See specification for details.
- Masonry retaining wall
To Dorchester Group specification.

PLANT SCHEDULE

TREES - To plots and along Camp Road

REF SPECIES	SUPPLY	SIZE(cm)	GIRTH(cm)	CTRS(m)
T1 Betula pendula	EHSJ	425/600	14/16	as shown
T2 Betula utilis jacquemontii	EHSJ	425/600	14/16	as shown
T3 Corylus colurna	EHSJ	425/600	14/16	as shown
T4 Cornus coccinea	HSD	350/425	12/14	as shown
T5 Malus trilobata	HSD	350/425	12/14	as shown
T6 Sorbus aucuparia 'Cardinal Royal'	HSD	350/425	12/14	as shown

SPECIMEN SHRUBS

REF SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
S1 Phorimium 'Jester'	2SL	100/125	Triple Crm as shown	
S2 Phorimium 'Sundowner'	2SL	100/125	Triple Crm as shown	
S3 Phorimium 'Yellow Wave'	2SL	100/125	Triple Crm as shown	

SHRUBS/HERBACEOUS

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
AUCJA	Aucuba japonica	SL	40/60	Bushy	0.75
BRASU	Brachyglottis 'Sunshine'	10L	40/60	Bushy	0.70
CEATHR	Caeanthus thyrsiflorus repens	10L	60/80	Bushy	0.70
CHOPP	Chodrya Aztec Pearl	10L	40/60	Bushy	0.70
CHOTES	Chrysozotema 'Sundance'	10L	40/60	Bushy	0.70
CHOSP	Chrysozotema 'Pink'	10L	40/60	Bushy	0.65
CORALE	Cornus alba 'Elegansissima'	3L	40/60	Branching	0.75
ELAPUMA	Elaeagnus pungens 'Maculata'	10L	40/60	Bushy	0.75
EUFODENG	Euonymus fortunei 'Emerald Gaiety'	10L	30/40	Bushy	0.60
EUFODENG	Euonymus fortunei 'Emerald 'N' Gok'	10L	30/40	Bushy	0.60
FALJJA	Fatsia japonica	10L	60/80	Bushy	0.75
HEBMAH	Hebe 'Magical'	10L	30/40	Bushy	0.70
HEBPD	Hebe 'Purple Queen'	10L	30/40	Bushy	0.70
HEBPNS	Hebe 'Pink Queen'	10L	30/40	Bushy	0.60
HEBPMP	Hebe 'Pink Queen'	10L	30/40	Bushy	0.60
HYPPH	Hypericum 'Hicolor'	10L	40/60	Full Pot	0.40
LAVAVAH	Lavandula angustifolia 'Hicolor'	10L	30/40	Bushy	0.60
LONNIBG	Lonicera nidkera 'Baggesen's Gok'	10L	40/60	Bushy	0.70
LONNIBG	Lonicera nidkera 'May Green'	10L	40/60	Bushy	0.70
PRCFRER	Prodris 'Travel 'Rise Riser'	10L	60/80	Bushy	0.75
PRJLACL	Prunus laurocerasus 'Otto Luyken'	10L	60/80	Bushy	0.70
PRJLULU	Prunus laurocerasus	10L	80/100	Bushy	0.75
ROSDG	Rosa 'Rosa 'Rosa'	10L	40/60	Bushy	0.70
SKJAJRU	Sakaki japonica 'Rubell'	10L	40/60	Bushy	0.70
VIDSA	Viburnum davidii	10L	40/60	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.

TREES - Replacement trees to Southern boundary

REF SPECIES	SUPPLY	SIZE(cm)	GIRTH(cm)	CTRS(m)
R1 Aucuba japonica	EHSJ	425/600	14/16	as shown
R2 Carpinus betulus	EHSJ	425/600	14/16	as shown
R3 Sorbus aucuparia	EHSJ	425/600	14/16	as shown
R4 Tilia europaea	EHSJ	425/600	14/16	as shown

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.

NATIVE HEDGE MIX

ABBR	SPECIES	SUPPLY	SIZE(cm)	Mix %	CTRS(m)
CORAV	Corylus avellana	T 1+1	60/80	12.5	0.30
CORAMN	Crataegus monogyna	2x FHS	120/150	80	0.30
ROSCA	Rosa carolina	T 1+1	60/80	7.5	0.30

Hedgerow shrubs to be supplied as bare root 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 double staggered row, 200mm apart with no less than 10 per linear metre within a 90cm wide bed and mulched in accordance with implementation and maintenance guidelines. The feathered Hawthorn is to have a upright central stem furnished with evenly spaced and balanced lateral growth the full length of the stem. Strubs to be attached to a double line support (one for feathered Hawthorn at 1m high and one for hazel and dog rose at 60cm high) fence using an approved clip tie and cut back to 1m in height at time of planting.

CLIMBERS - To electric sub station buffer

ABBR	SPECIES	SUPPLY	SIZE(cm)	HABIT	CTRS(m)
C1 Hedera colchica 'Paddy's Pride'	10L	175/200	Cane	As Shown	
C2 Hedera helix 'Hibernica 'Glaucol'	10L	175/200	Cane	As Shown	
C3 Hedera helix 'Hibernica 'Gold Heart'	10L	175/200	Cane	As Shown	
C4 Hedera helix 'Hibernica'	10L	175/200	Cane	As Shown	

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

Phase 1 and Camp Road, Heyford Park, Upper Heyford
Composite plan - Including site boundary enclosures

Rev	Description	Date	Team
F.	Revised to new layout	28/05/14	EAJ
E.	Site location drawn on the landscape site plan and known as the 'Phase 1' layout.	14/04/14	LM
D.	Headline of all construction elements.	10/04/14	LM
C.	Updated to latest comments regarding fence line	10/04/14	LM
B.	Updated to show the location of gates and to show the location of the fence line	03/04/14	LM
A.	Revised to latest comments.	31/03/14	LM

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 Architect's prior approval.
- Before trees are planted, the Landscape Architect 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 position.
- All planting must be replaced 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.