PLANT SCHEDULE

Tree Planting

RPS Tree Planting

No.	Abb. Text	Species	Form	Age	Girth	Height	Clear Stem	Root
4	Acr cm S	Acer campestre 'Streetwise'	Standard (Extra Heavy)	3x	18-20cm	450-500cm	min 200cm	RB
6	Be pnd T	Betula pendula 'Tristis'	Standard (Extra Heavy)	3x	16-18cm	400-450cm	min 200cm	RB
10	Crpns bt L	Carpinus betulus 'Lucas'	Standard (Extra Heavy)	3x	16-18cm	400-450cm	min 200cm	RB
3	Pns sy	Pinus sylvestris	-	5x	-	250-300cm	-	RB
3	Prn srg Rnc	Prunus sargentii 'Rancho'	Standard (Extra Heavy)	3x	18-20cm	450-650cm	min 200cm	RB
3	Tl crd R	Tilia cordata 'Rancho'	Standard (Extra Heavy)	3x	16-18cm	400-450cm	min 200cm	RB
29								

Hedge Planting

Havant Native Hedge Mix

Qty	Abb. Text	Species	Root	Height	Habit	Form	Age	Container	Centres (m)	Mix %
60	Acr cm	Acer campestre	B	60-80cm	-	Transplant	1/1	-	0.250	20.00 %
15	Crns sn	Cornus sanguinea	B	60-80cm	Branched	-	1/2	-	0.250	5.00 %
60	Crtg mn	Crataegus monogyna	B	60-80cm	-	Transplant	1/1	-	0.250	20.00 %
37	Cryls av	Corylus avellana	B	60-80cm	Branched	-	1/2	-	0.250	12.50 %
29	Il aq	Ilex aquifolium	C	60-80cm	Leader & Laterals	-	-	3L	0.250	10.00 %
29	Lgs vl	Ligustrum vulgare	B	60-80cm	Branched	-	1/1	-	0.250	10.00 %
15	Pru sp	Prunus spinosa	B	60-80cm	Branched	-	1/1	-	0.250	5.00 %
29	Rs cn	Rosa canina	B	60-80cm	Branched	-	1/1	-	0.250	10.00 %
22	Vb op	Viburnum opulus	B	60-80cm	Branched	-	1/2	-	0.250	7.50 %
296										

Shrub / Herbaceous Planting

Native Shrub Infill Mix

Qty	Abb. Text	Species	Height	Habit	Age	Root	Container	Centres	Mix %
6	Cryls av	Corylus avellana	60-80cm	Branched	1/2	B	-	1.000	15.00 %
6	Il aq	Ilex aquifolium	60-80cm	Leader & Laterals	-	C	3L	1.000	15.00 %
13	Lgs vl	Ligustrum vulgare	60-80cm	Branched	-	C	3L	1.000	30.00 %
8	Prns sp	Prunus spinosa	60-80cm	Branched	1/1	B	-	1.000	20.00 %
2	Rs cn	Rosa canina	60-80cm	Branched	1/1	B	-	1.000	5.00 %
6	Vb op	Viburnum opulus	60-80cm	Branched	1/2	B	-	1.000	15.00 %
41									

Groundcover Embankment Mix 01

Qty	Abb. Text	Species	Height	Habit	Root	Container	Centres	Mix %
124	Cnth th R	Ceanothus thyrsiflorus 'Repens'	30-40cm(D)	Bushy	C	3L	0.500	15.00 %
166	Ctnst hr	Cotoneaster horizontalis	30-40cm	Branched	C	3L	0.500	20.00 %
42	Ctnst sl G	Cotoneaster salicifolius 'Gnom'	40-60cm(D)	Branched	C	3L	0.500	5.00 %
166	Eny jp	Euonymus japonicus 'Microphyllus Albovariegatus	30-40cm	Branched	C	3L	0.500	20.00 %
130	Hdr cl DV	Hedera colchica 'Dentata Variegata'	60-80cm(D)	Several Shoots	C	3L	0.400	10.00 %
67	Hypr ms	Hypericum moserianum	30-40cm	Bushy	C	3L	0.500	8.00 %
124	Jnp hr W	Juniperus horizontalis 'Wiltonii'	30-40cm	Branched	C	3L	0.500	15.00 %
58	Jsm nd	Jasminum nudiflorum	40-60cm	Branched	C	3L	0.500	7.00 %
877								

Groundcover Embankment Mix 02

Qty	Abb. Text	Species	Height	Habit	Root	Container	Centres	Mix %
158	Ctnst sl G	Cotoneaster salicifolius 'Gnom'	40-60cm(D)	Branched	C	3L	0.500	15.00 %
329	Hdr hl GR	Hedera helix 'Green Ripple'	60-80cm(D)	Several Shoots	C	3L	0.400	20.00 %
104	Hypr ms	Hypericum moserianum	30-40cm	Bushy	C	3L	0.500	10.00 %
262	Lnc pl LE	Lonicera pileata 'Loughgall Evergreen'	30-40cm(D)	Bushy	C	3L	0.500	25.00 %
130	Mhn rep	Mahonia repens	30-40cm	Branched	C	3L	0.450	10.00 %
130	Ru BA	Rubus 'Betty Ashburner'	30-40cm(D)	Branched	C	3L	0.450	10.00 %
130	Vnc mn BV	Vinca minor 'Bowles Variety'	10-15cm	-	C	4L	0.450	10.00 %
1243								

Havant Mix A

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
212	Hb pn P	Hebe pinguifolia 'Pagei'	3L	C	20-30cm(D)	Bushy	50.00 %
212	Hb vr	Hebe vernicosa	3L	C	20-30cm	Bushy	50.00 %
424							

Havant Mix B

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
185	Eny fr EnG	Euonymus fortunei 'Emerald 'n' Gold'	3L	C	20-30cm(D)	Bushy	50.00 %
185	Eny fr H	Euonymus fortunei 'Harlequin'	3L	C	20-30cm(D)	Bushy	50.00 %
370							

Havant Mix C

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
282	Hb WG	Hebe 'White Gem'	5-7.5L	C	30-40cm	Bushy	40.00 %
211	Lvn an R	Lavandula angustifolia 'Rosea'	5-7.5L	C	30-40cm	Bushy	30.00 %
166	Prv at BS	Perovskia atriplicifolia 'Blue Spire'	3L	C	30-40cm	Bushy	30.00 %
659							

Havant Mix D

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
91	Brchyg S	Brachyglottis 'Sunshine'	3L	C	30-40cm	Branched	35.00 %
132	Cnth th R	Ceanothus thyrsiflorus 'Repens'	3L	C	30-40cm(D)	Bushy	35.00 %
139	Snt ch	Santolina chamaecyparissus	5-7.5L	C	30-40cm	Bushy	30.00 %
362							

Havant Mix F

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
22	Escl DR	Escallonia 'Donard Radiance'	3L	C	40-60cm	Bushy	50.00 %
31	Wg fl V	Weigela florida 'Variegata'	3L	C	40-60cm	Branched	50.00 %
53							

Havant Mix G

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
68	Chsy tr S	Choisya ternata 'Sundance'	3L	C	30-40cm	Bushy	35.00 %
47	Cnth BM	Ceanothus 'Blue Mound'	3L	C	30-40cm(D)	Bushy	35.00 %
40	Prns lauro OL	Prunus laurocerasus 'Otto Luyken'	3L	C	30-40cm	Bushy	30.00 %
155							

Havant Mix H

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
127	Crns st K	Cornus stolonifera 'Kelseyi'	3L	C	30-40cm	-	30.00 %
118	Lnc pl	Lonicera pileata	3L	C	30-40cm(D)	Bushy	40.00 %
127	Src hm	Sarcococca humilis	3L	C	20-25cm	Bushy	30.00 %
372							

Havant Mix J

Qty	Abb. Text	Species	Container	Root	Height	Habit	%age Mix
3	Acb jp C	Aucuba japonica 'Crotonifolia'	3L	C	30-40cm	Bushy	25.00 %
3	Chsy tr	Choisya ternata	3L	C	30-40cm	Bushy	25.00 %
3	Pht x fr RR	Photinia x fraserii 'Red Robin'	3L	C	30-40cm	Bushy	25.00 %
3	Prns lauro OL	Prunus laurocerasus 'Otto Luyken'	3L	C	40-60cm	Bushy	25.00 %
12							

Seed Mixes

EM2 Standard General Purpose Meadow Mixture
(sow at 40 kg / hectare or 4g / m2)

Composition:
Emorsgate EM2 (or similar approved) is a meadow mixture that contains species that are characteristic of traditional meadows across a wide range of soil types.

Wildflowers (20%)

%	Latin name	Common name
0.5	*Achillea millefolium*	Yarrow
1.6	*Centaurea nigra*	Common Knapweed
3.0	*Daucus carota*	Wild Carrot

EH1 Hedgerow Mixture
(sow at 40 kg / hectare or 4g / m2)

Composition:
Emorsgate EH1 (or equal approved) contains wild flowers and grasses that are tolerant of semi-shade and is suitable for sowing beneath newly planted or established hedges and on woodland edges, rides and glades.

Wildflowers (20%)

%	Latin name	Common name
0.5	*Achillea millefolium*	Yarrow
1.2	*Agrimonia eupatoria*	Agrimony
1.5	*Alliaria petiolata*	Garlic Mustard
0.4	*Arctium minus*	Lesser Burdock
0.5	*Betonica officinalis* - (*Stachys officinalis*)	Betony
1.5	*Centaurea nigra*	Common Knapweed

PLANTING SPECIFICATION

EXISTING TREES AND SHRUBS

Where existing trees & shrubs are to be retained they should be subject to a full arboricultural inspection for safety. Any surgery required shall be in accordance with BS 3998 (2010) 'Tree Work - Recommendations', shall comply with any existing T.P.O requirements and shall require the prior approval of the Landscape Architect.

Avoid damage to branches, trunks and roots of trees. All existing trees & hedges to be retained are subject to BS 5837 (2012) 'Trees in relation to design, demolition and construction - Recommendations', and should be fully fenced off, prior to the commencement of any works, in accordance with Figure 2 (p20) at the full extent of the root protection area, as determined by section 4.6 (p10-11) and Annex D (p40).

No storage of materials, disposal of rubbish, site fires, spillage of oil and chemicals, ground compaction, excavation or changes in level shall be carried out within existing tree / hedge canopies.

New shrub planting pits below existing trees to be hand dug to avoid conflict with tree roots. Avoid increasing ground levels below existing trees. Free-draining, neutral acidity topsoil (e.g. with a high sand content), should be employed to achieve the minimum 450mm depth growing medium.

PLANTING

All plants and planting to comply with the requirements of all current / relevant British Standard specifications including BS 8545 (2014) 'Trees from Nursery to Independence in the Landscape', BS 3936: Part 1 (1992), Part 2 (1990) and Part 4 (2007) and BS 4043 (1989) where applicable, BS 4428 (1989). All plants to be supplied in accordance with the plant schedule and with regard to imported stock and notifiable diseases within the Plant Health Act 1967 (revised 2009). Any plant material planted outside the recognised planting season (Nov-Feb), to be containerised stock and supplied at the sizes specified. Where possible, trees and shrubs of UK provenance are preferred.

TREE PLANTING

A suitable method of foundation allowing for existing ground conditions is to be provided to accommodate the proposed tree planting. All trees are to be planted as shown ensuring a minimum of 5 metres from buildings and 3 metres from drainage and services. Where necessary, root barriers to be installed (supplier GreenBlue Urban Ltd or equal approval), as recommended by structural engineer. Allow for the use of container grown stock during the period 1 April to 31 October, and field grown stock from 1 November to 31 March.

NOTE: BELOW GROUND PREPARATION OF ALL TREE PITS IS TO BE AGREED WITH LOCAL AUTHORITY TREE OFFICER PRIOR TO INSTALLATION. WHERE TREES ARE PLANTED WITHIN OR DIRECTLY ADJACENT HARD PAVED AREAS, SUFFICIENT ROOTING VOLUME MUST BE PROVIDED INCLUDING (IF REQD) THE USE OF A MODULAR CELL STRUCTURE SUCH AS SILVACELL (OR EQUAL APPROVED)

TOPSOIL REQUIREMENTS

To BS 3882 (2015) 'Specification for topsoil' as qualified by full contract specification. All areas shall be cultivated to a minimum depth of 150mm. Full weed, rubbish and stones over 20mm gauge shall be removed. Earth to be rolled as required and raked in two directions. Applied to all newly planted areas (except wildflower / meadow planting), to manufacturers' recommendations where appropriate. Full analysis of existing and imported topsoil required prior to use.

Shrub / structure planting beds	-	450mm depth
Heavy standard tree pits	-	1500mm dia. x 450mm depth (Note: 450mm depth subsoil to be provided below)
Grass areas	-	100mm depth

Where necessary increase tree pit dimensions to ensure that tree pits are at least 75mm deeper and 150mm wider than rootball. Break up bottom of pits to a depth of 150mm. Compacted glazed sides of pits should be roughened.

TOPSOIL IMPROVEMENTS

Applied to all newly planted areas, to manufacturers' recommendations where appropriate:

1) Incorporate 75mm depth of soil conditioner into topsoil during cultivation;
2) Incorporate Enmag CRF granular fertilizer at approx 140g per pit to standard tree pit backfill and 70g per pit to structural / ornamental shrub planting;
3) Watering - supply minimum 54 litres / tree + 4.5 litres/shrub at planting;
4) Mulch - After weeding and watering, lightly fork over planted areas before applying a min. 70mm depth 50-100mm grade bark mulch. Ornamental Bark to consist of predominantly matured British Pine Bark with an even nominal particle size distribution of 5-35mm with 0% dust & fines & less than 5% wood content. The product shall be pest, disease & weed free & not have been treated with Methyl Bromide or any additives. The product shall have been tested in accordance with the requirements of BS 4790:1987, for fire resistance.
5) Geotextile membrane to be installed between topsoil and bark mulch, with min. 200mm overlap and holes cut for planting. Sufficient pegs to be installed to prevent membrane from lifting. Main Contractor to ensure back mulch is retained in place on sloping ground.

PLANT MATERIAL TREATMENT

NB All to be British grown stock and fully hardened off.

Root Dip: Proprietary Root Dip applied to all bare rooted stock (1) at time of lifting at nursery and (2) prior to planting.

Anti-Dessicant: Proprietary anti-dessicant to be applied to foliage of all containerised / rootballed material in leaf, specimen conifers and evergreens etc. (1) prior to transportation and (2) during any delay in planting.

Pruning: Allow for pruning of all deciduous trees and shrubs by 1/3rd following planting at Landscape Architects direction or as indicated in the planting schedule.

Tree Stakes: Stakes to be pressure treated, round, smooth and peeled Larch or Chestnut, not less than 100mm in diameter. Advanced nursery stock - double staked with cross bar.

TURFED AREAS

Turf to BS 3969 (1998+A1:2013) 'Recommendations for Turf for general purposes' from an approved source. When topsoil is reasonably dry and workable, grade to smooth, flowing contours removing all minor hollows and ridges. Cultivate soil to full depth and break up any compacted topsoil. Apply approved herbicide to control perennial weeds and allow period of time to elapse as recommended by manufacturer before final cultivation. Apply proprietary fertiliser. Reduce top 25mm topsoil to a fine tilth by further cultivation. Remove stones exceeding 50mm in any dimension. Lay turf with broken joints, well butted up, working from planks laid on previously laid turves, during appropriate season and weather conditions. Adjust levels by raking out or filling with fine soil under turves. Consolidate by lightly and evenly firming with wooden beaters as laying proceeds. Do not use rollers. Dress turf with fine topsoil and brush in to fill joints. Thoroughly water completed turf within 24 hours of laying.

TURFED AREAS: ESTABLISHMENT CUT

Water all grass areas to maintain healthy growth. When grass is 50mm high remove debris, litter and any stones later in dry conditions cut grass to between 25-30mm. Remove and dispose of all arisings.

PROTECTIVE FENCING

The contractor shall maintain fencing until all site works are completed. The contractor will then remove the fencing and reinstate the ground. The fencing will remain the property of the contractor. Within the area so fenced, the existing ground level shall be neither raised nor lowered, all excavations shall then be carried out by hand. The Local Planning Authority shall be advised in writing when the protective fencing has been erected so that it can be checked on site before development commences, and shall thereafter be maintained during the period of construction.

MAINTENANCE

Regular visits (minimum 20 No.) required during the defects liability / rectification period to maintain all planted areas in a weed and litter free condition using a combination of chemical spray and hand weeding to be agreed with the Landscape Architect. Any plant found to be dead, dying or otherwise defective shall be replaced during the next planting season. Maintenance to include watering, pruning, pest and disease control and re-mulching as required. Watering shall be carried out as necessary to maintain healthy growth, and where possible should adhere to Annex G of BS 5545:2014. Final visit to be immediately prior to handing over and to include a fertilizer treatment of Enmag CRF granular fertilizer (6:20:10) at 100g/m2 and 25mm depth bark mulch top up to all planted areas.

SAFETY PRECAUTIONS

The landscape sub-contractor is to take all safety precautions to prevent any injury to any persons. The landscape sub-contractor shall comply with the requirements of the Health & Safety at Work Act 1974 and current Construction, Design and Management Regulations (2015).

WILDFLOWER MANAGEMENT

Do not use fertiliser

Control weeds before sowing. Annual weeds may be hoed, buried or killed with a contract herbicide. Perennial weeds should be eradicated by a translocated glyphosate-based herbicide.

Sow mixtures either from early March to early May, or from early August to mid September, cultivate the ground to provide a fine, weed free seed bed, firm if necessary. Sow evenly at 4gms / m2, thoroughly mix one part seed with four parts dry sand to easily distribute.

Rake seed in lightly with spring-tined rake and firm soil by treading or, preferably, rolling. Water with a fine spray and keep well watered and free from unwanted plants.

Cut the sward every six-eight weeks during the first year after sowing and remove the cuttings, in the following years cut in early spring before growth starts and in October once wild flowers have been shed - remove all cuttings.

BIOSECURITY

RPS GROUP ARE COMMITTED TO THE PROTECTION OF THE UK ENVIRONMENT AND RECOGNISE THE IMPORTANCE OF RISKS POSED BY IMPORTED PESTS AND DISEASES

- All trees and shrubs are to be sourced responsibly, in the first instance, from UK Nurseries / suppliers, where they have been propagated and/or grown on for a minimum of 5 years in the UK (2 years for shrubs);
- In light of this, all suppliers shall be approved, shall share our values and must have a sound Biosecurity Policy / Management Systems in place to demonstrate the traceability of their stock, and an awareness of the prevalence of all current biosecurity threats, both domestically and abroad;
- The contractor is responsible for ensuring that they operate in strict accordance with the latest guidelines set out by DEFRA, including regularly checking for updates in relation to the latest health controls / diseases; i.e. (http://planthealthportal.defra.gov.uk)
- Inspections will be carried out at selected nurseries and plant health certification / passports will be sought to identify traceability of tree and shrub stock as required.

KEY

- Existing maiden trees / vegetation to be retained and protected in accordance with BS 5837:2012 (refer to RPS Tree Protection / Removal Plan JSL3712 / 701)
- Existing trees to be removed (refer to RPS Tree Protection / Removal Plan JSL3712 / 701)
- Proposed specimen tree planting (GreenBlue Urban ReRoot barriers to be installed where required)
- Proposed native mix hedge planting (planted in double staggered row, 4 plants per linear metre)
- Proposed shrub structure planting
- Proposed embankment shrub / groundcover planting
- Proposed ornamental shrub / herbaceous planting
- Proposed mown lawn (turf)
- Proposed wildflower meadow (EM2) (Supplier: Emorsgate seeds or equal approved)
- Proposed shade tolerant wildflower meadow (EH1) (Seeding in areas subject to coppicing / felling of existing vegetation. Refer to RPS Tree Protection / Removal Plan JSL3712 / 701) (Supplier: Emorsgate seeds or equal approved)
- Proposed bark mulch (Minimum 70mm depth 50-100mm grade bark mulch, over weed suppressant membrane)
- Proposed gravel (over weed suppressant membrane)

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Notes

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2. If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.
3. This drawing should be read in conjunction with all other relevant drawings and specifications.

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NORTH

Rev	Description	By	Ckd	Date
P06	Update in accordance with latest site layout. Revised footpath alignment shown. Tree species reviewed against UTAQS.	JBT	DMB	30.03.21
P05	Addition of turf and mulched areas. Minor amends to accord with AIA.	JBT	DMB	19:03:21
P04	Planting adjusted within visibility splays. Vegetation to be removed shown more clearly. Latest site layout added.	JBT	DMB	17:03:21
P03	Amendments following client comments, revised site layout and visibility splay information. Detailed plant numbers added.	JBT	DMB	10:03:21
P02	Amendments following client comments	JBT	DMB	03:03:21
P01	First issue	JBT	DMB	26:02:21

MAKING COMPLEX EASY

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Client: Lidl Great Britain Ltd.

Project: Lidl Havant

Title: Detailed Soft Landscape Proposals

Status	Scale	Date Created
Approval	1:200 @A0	Feb 2021

Task Team Manager	Information Author	Task Information Manager
JBT	JBT	DMB

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