

NOTE:
SURROUNDING CONTEXTUAL BUILDINGS
AND INFORMATION ARE
BASED ON RECEIVED ORDINANCE
SURVEY DRAWINGS AND ARE SHOWN
FOR ILLUSTRATIVE PURPOSES ONLY.
ASSUMED SITE BOUNDARY IS
SUBJECT TO CONFIRMATION



General Notes:

All proposed tree locations are subject to co-ordination with drainage layout and subject to modification depending on the location of underground services and utilities. Drainage engineer to co-ordinate services layout in conjunction with the landscape plan to avoid conflict as much as possible. Allowance to be made at tender stage for the possible requirement for root barriers once the drainage layout is confirmed. CA to be informed immediately once this is available.



The North Group Ltd does not accept liability for any deviation to our drawings or specifications. No drawing is complete until it has been approved by the client. All drawings are the property of North Group Ltd and are not to be used for any other purpose without written authority. Do not scale the drawings.

Rev	Date	Description	Drawn	Checkd
001	15/03/24	Issue for construction	AM	AM
002	15/03/24	Revised drawing to incorporate the provision of native trees to the site	AM	AM
003	15/03/24	Revised drawing to incorporate the provision of native trees to the site	AM	AM
004	15/03/24	Revised drawing to incorporate the provision of native trees to the site	AM	AM
005	15/03/24	Revised drawing to incorporate the provision of native trees to the site	AM	AM

SOFT LANDSCAPE SPECIFICATION

NOTE: All soft landscape works to be carried out in accordance with BS4428:1989.

SUBSOIL

All subsoil should be free draining and well aerated and in accordance with BS 8601:2013
Subsoil should be broken up to relieve compaction and aid drainage prior to topsoiling to the following depths:
- For light and non cohesive subsoils: 300mm
- For stiff clay and cohesive subsoils: 450mm

Immediately before spreading topsoil, remove stones larger than 50mm.

Cultivated subsoil that is used for wildflower meadow grass & close mown grassland should be minimum 150mm depth.

TOPSOIL

To be supplied and spread by the main contractor to the approval of the Landscape contractor, in accordance with the parameters of a multi purpose topsoil as laid out in BS 3882 : 2015. To be a natural sandy loam, of medium texture, with a pH between 5.5 and 7.8, not more than slightly stony and free of pernicious weeds. Subsoil to be well broken up prior to top-soiling to relieve compaction. Topsoil depths should be:

Areas for Ornamental Shrub Planting: minimum 400mm

Note: Contractor to provide soil testing declaration of analysis certification and sample for inspection & approval prior to delivery of any topsoil to site and post planting as evidence that correct soil has been used.

CULTIVATION

Weeds to be prevented from seeding or becoming established by applying a suitable herbicide and allowing the correct time to elapse, as directed by the manufacturer. Compacted soil to be broken up to a depth of 100mm, with any stones, grass tufts or rubbish larger than 50mm in any direction to be removed, leaving a regular and even surface. Suitable slow release fertiliser to be supplied and spread @ 50g/m2 to all planted areas (not to wildflower).

CLIMATIC CONDITIONS

Topsoiling should be carried out in the driest conditions possible – cultivation to be carried out when the soil is moist, friable and not waterlogged or frozen. Topsoil should not be handled during or after heavy rainfall or when it is wetter than the plastic limit as defined by BS 3882. Planting should not take place in waterlogged conditions or when the ground is frozen.

SOIL AMELIORANT

Peat-free compost to be spread over ornamental shrub beds @ minimum 50mm depth prior to cultivation. For native planting a 50mm compost layer should be mixed into each whip planting pit only, not spread over the entire bed.

TREES

All trees within shrub beds to be planted in separate pits in accordance with tree planting detail. All tree planting and post maintenance regimes to comply with BS8545:2014 'Trees from Nursery to Independence in the Landscape' and transported to site in accordance with the H1A Plant Handling Guide: 19%. All trees to be planted to the original root collar and secured in place with underground guying system in accordance with tree planting detail.

If the trees are planted outside of the planting season then containerised stock to be used in lieu of root balled but the same tree heights are still required - allowance to be made for this at tender stage if required once construction timetable is known and CA informed immediately.

ORNAMENTAL & SPECIMEN SHRUB PLANTING

All shrubs to be positioned as shown on the drawing and to the density and specification listed in the plant schedule.
Planting holes to be 150mm wider than the root spread, have the base ground thoroughly broken up before planting and backfilled with peat free compost.
All shrubs to be equally spaced throughout the planting areas to the specified density in a staggered arrangement unless otherwise noted in the planting schedule.
Contractor to ensure numbers on schedule match those shown on drawing before placing any orders for plants. Any discrepancies to be brought to the attention of the Landscape Architect upon delivery.
Contractor to check on site dimensions of all landscape areas to ensure specified quantities will achieve the specified densities for each species.

MIXED SPECIES BUFFER MIX

Areas to be cleared and cultivated as described above. Rokavate areas to receive whip planting to a minimum depth of 300mm to form an open textured free draining growing medium. Remove all stones and other debris larger than 50mm in any one direction and remove all litter and vegetation matter prior to planting. Each transplant to be fitted with tubex rabbit guard / shrub shelter appropriate to the species prior to mulching.
MIXED SPECIES NATIVE HEDGE PLANTING
Areas to receive whip planting to a minimum depth of 300mm to form an open textured free draining growing medium. Remove all stones and other debris larger than 50mm in any one direction and remove all litter and vegetation matter prior to planting. Each transplant to be fitted with an appropriate rabbit guard for the size and species and 500 x 500mm biodegradable GT Ecomat by Green-tech or similar approved. To be pruned / maintained as a hedge at a maximum height of 1.8 metres.

FORMAL HEDGE PLANTING

Areas to be cleared and cultivated as described above. Rokavate areas to receive whip planting to a minimum depth of 300mm to form an open textured free draining growing medium. Remove all stones and other debris larger than 50mm in any one direction and remove all litter and vegetation matter prior to planting. Each transplant to be fitted with tubex rabbit guard / shrub shelter appropriate to the species prior to mulching.

WILDFLOWER MEADOW

Wildflower mixes to be planted directly into cultivated low fertility subsoil in accordance with manufacturers recommendations @ 15g/m2 for everyday wildflower mix (see key for species mixture).
Preparation: Cultivate subsoil, apply a suitable herbicide and allow the correct time to elapse, as directed by the manufacturer, and seed the bed. No fertiliser, compost or mulch are to be applied to the wildflower bed. Cutting first season: Time of first cut - it sown in Autumn cut in March/April, if sown in Spring cut in August - October after flowering. Height of first cut - 70mm. If sown in Autumn it should also be cut in September/October after flowering.
Cutting second season: March/April - cut to 50-70mm then September/October - cut to 50mm after flowering. To be cut twice a year from then on as per above.
*NOTE - At time of each cut all cuttings to be removed from the bed to maintain reduced soil productivity.

CLOSE MOWN GRASS AREA

Flowering lawn mix WFG20 Species rich lawn mix by Germinal - to be sown directly into cultivated low fertility topsoil/subsoil in accordance with manufacturers recommendations at rate of 5g/m2
Preparation: Cultivate subsoil, apply a suitable herbicide and allow the correct time to elapse, as directed by the manufacturer, and seed the bed. No fertiliser, compost or mulch are to be applied to the wildflower bed. First year of management:
• Mow newly sown flowering lawns regularly (every 7 -10 days during growing season) throughout the first year of establishment. Cut to a height of 40-60mm, removing cuttings if dense.
• Carefully dig out or spot treat any residual perennial weeds such as docks.
Management once established:
• Mow regularly as a lawn but not too short (25-40mm). To permit flowering, mowing can be relaxed from late June. Cut again when the sward gets untidy (after 4-8 weeks). Heavy quantities of cuttings should be collected and removed from site.

*NOTE - At time of each cut all cuttings to be removed from the bed to maintain reduced soil productivity.

SUBSTITUTIONS

Upon submission of evidence that certain materials, including plant materials, are not available at the time of the landscape contract, the Landscape Contractor may be permitted to substitute other materials and plants in exceptional circumstances during the contract with an agreed adjustment of prices.
All substitutions shall be of nearest equivalent species and variety to the original specified but shall be subject to approval by the Landscape Architect before any change is made.

TIMES OF YEAR FOR PLANTING

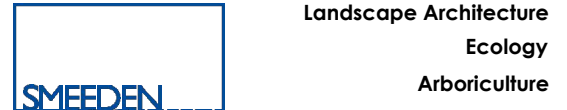
Landscape works to be carried out during the first possible periods following completion of the building and associated engineering works / car park areas in accordance with the following:
- Native and ornamental trees: During dormant winter period - Late October to late March (only if planted in the planting season otherwise containerised stock to be used).
- Bare root native transplants: During dormant winter period - Late October to April.
- Container grown ornamental and specimen shrubs: At any time if ground and weather conditions are favourable.

WEEDING

Weeding should be carried out at each and every maintenance visit. All weeding to planting beds should be carried out using hand methods only. Topping up the mulch to maintain the specified depth is the best method of preventing weeds and will reduce ongoing maintenance time.

MULCH

75mm depth of 8-35mm ornamental bark mulch (peat-free) to be supplied and spread to all planting areas. Finished mulch level to be installed and maintained at 25mm below any adjacent kerbs or paving surfaces.



Website: www.smeadentforan.co.uk
Modelled: www.smeadentforan.co.uk
Client: ALDI STORES LTD

Project Site: PROPOSED DEVELOPMENT

PERRYMOUNT ROAD
HATFORDS HEATH
B116 1DN

Drawn By: DOWNES LANDSCAPE PLAN

Proposed: Checked: Scale: B40: A3 Date: 09/2024

Drawn By: AM Date: 1/250 Rev: 01 Project No: 19971

Planning: Rev: 01 Project No: 19971

Project No: 19971

Signature: XX XX DR L 1001

SOFT LANDSCAPE KEY:

- Existing trees and vegetation to be retained**
Retained and protected during construction and landscape works in accordance with BS5837:2012 guidance
- Proposed evergreen trees in soft landscape**
Refer to plant schedule for species & specification
- Proposed multi stem trees in soft landscape**
Refer to plant schedule for species & specification
- Proposed trees in soft landscape**
Refer to plant schedule for species & specification
- Proposed specimen shrub planting**
Refer to plant schedule for species & specification
- Proposed ornamental planting**
Refer to plant schedule for species & specification
- Proposed mixed species native buffer mix**
Refer to plant schedule for species & specification
- Proposed close mown grass area**
WFG20 species rich grass mix by Germinal, to sown according to manufacturers recommendations.
- Proposed Wildflower meadow area**
To be Emerald seeds E11 Hedgegrow Mixture Refer to specification for sowing & maintenance requirements
- Proposed mixed species native hedge planting**
Refer to plant schedule for species & specification To be maintained at 1.2m high
- Proposed formal native hedge planting**
Refer to plant schedule for species & specification To be maintained at 1.2m high
- Proposed living screen**
To be pre-grown ivy screens
- Proposed ornamental bark mulch surface finish**
1m dia of ornamental bark mulch in accordance with BS8545 :2014 recommendations
500mm overrun margin
- Proposed aggregate surface finish**
To be laid over permeable geotextile membrane
- Proposed tree root barrier**
To be GreenBlue Urban ReRoot 1000 ribbed root barrier Installed in accordance with manufacturers spec
- Suspended modular paving system**
Dashed lines indicate extent of Silva Cell 2 units (below ground)
- Cricknet net**
- Proposed Ground recessed free uplighters**
Quantity: 5No.
Colour: Warm White (5 2700 Kelvin)
Refer to the M&E drawings for further details.

MAINTENANCE

All planting areas to be maintained to a high standard by the contractor for 12months after practical completion, to ensure the landscape scheme is successful, and discourage decline of the area.
Minimum frequency of maintenance visits:

December / January / February & March - 1no. visit each month
April to November - 2no. visits each month

Generally, during the first 12months:

- All planting beds to be re-firmed and kept weed free through hand weeding and application of an approved herbicide where appropriate.
- All litter to be picked and removed from landscape areas.
- Mulch to be topped up as required to maintain the specified thickness.
- The condition of all trees is to be regularly checked, with ties and stakes adjusted or replaced as necessary.
- Shrubs to be pruned at appropriate times of year for each species to promote healthy growth and desirable ornamental features.
- Grass lawn area and wildflower meadow areas to be cut and maintained in accordance with specification note above.
- All arisings to be removed from site.
- Any defects or plant losses occurring during the first 12 months defects period to be replaced at the contractors expense.

Following the initial 12 month establishment period the maintenance of the landscaping will be taken on by a professional commercial landscape maintenance contractor under a maintenance contract.

GENERAL WATERING

All soft landscaping to be subject to a watering regime which is absolutely essential to ensure the continued success of the scheme, particularly during the initial 12 month establishment period. The watering frequency should be as necessary to ensure the continued thriving of all grass, hedges, trees and ornamental planting. During dry periods minimum weekly visits should be made to the site to ensure the soil has not dried out and to action watering if necessary. The soil should be checked for dryness using either a soil moisture sensor or by inserting a spade into the ground to a depth of 300mm to observe the appearance of the soil. If the soil is moist there is no need to water but if it is bone dry then watering procedure should be carried out immediately. Water supply should be from potable mains water or an approved alternative. The full depth of topsoil should be wet without loosening or damaging plants. Any compacted soil should be broken up sufficiently to allow water to reach the rootzone.

WATERING TREES

Trees to be watered in accordance with BS 8545:2014 Tree - From Nursery to Independence. Trees should be watered via the installed irrigation / aeration pipes around the base of the trees stem in accordance with the manufacturer's instructions to ensure the water reaches the roots of the tree, below is a suggested watering regime but this should be used as a guide only and may require modification in times of drought or flood, dependant on the ground conditions at the time, which should be monitored as above:

- March - October: 20 litres to be poured into irrigation pipe two times per week [40 litres in total]

PLANTING SCHEDULES

Tree Species	Abb.	Form	Girth (cm)	Height (cm)	Clear stem (cm)	Root	Quantity
Acer campestre	Ac	Standard Heavy	12-14	300-350	min 200	B	3
Acer campestre 'Buxifolium'	AcE	Standard Extra Heavy	14-16	400-450	min 220	RB	3
Betula pendula	Bp	Standard Extra Heavy	14-16	400-450	min 220	B	3
Cornus 'Eddie's White Wonder'	CEW	Multi Stem	-	350-400	-	RB	1
Corylus avellana	Ca	Feathered	12-14	300-350	-	B	2
Ilex aquifolium	Ia	Standard selected	10-12	300-35	min 200	B	7
Liquidambar styraciflua 'Fastigiat'	LsF	Standard Extra Heavy	14-16	400-450	min 220	RB	1
Pinus sylvestris	Ps	Standard Extra Heavy	14-18	450-500	min 220	B	4
Pinus 'Bonsai'	TcR	Standard Extra Heavy	14-18	450-500	min 220	RB	2
Quercus robur 'Fastigiata Koster'	QrKf	Feathered	14-16	400-450	min 220	RB	4
Ulmus 'New Horizon'	UNH	Standard Heavy	12-14	300-35	min 200	B	1

Ornamental Shrub Planting:	Abb	Height (cm)	Root	Container	Habit	Density
Aster macrophyllus 'Twilight'	AmT	/	C	5L	V	4/m ²
Carlina selkirkii 'Pumila'	CsP	/	C	3-4L	V	3/m ²
Eunymus fortunei 'Emerald & Gold'	EFG	30-40	C	5L	Bushy	4/m ²
Hebe 'Blue Gem'	HGB	30-40	C	5L	Bushy	4/m ²
Hebe 'Green Goddess'	HGG	30-41	C	5L	Bushy	4/m ²
Hebe 'Mrs Winder'	HW	30-40	C	5L	Bushy	4/m ²
Hebe 'Rakiaensis'	HR	30-40	C	5L	Bushy	4/m ²
Hebe 'Hedera' 'Glacier'	HNG	/	C	3L	Several shoots	5/m ²
Hebe 'Hedera' 'Glacier'	Ha	/	C	5L	V	4/m ²
Leucodendron angustifolium 'Hidcote'	LH	30-40	C	5L	Bushy	4/m ²
Ulmus 'Mucronata' 'Big Blue'	LMBB	/	C	5L	V	4/m ²
Nepeta sibirica 'Alta'	NA	/	C	5L	V	4/m ²
Phlox russelliana	Pr	/	C	15L	Triple Crown	4/m ²
Primula 'Yellow Wave'	PW	/	C	15L	Triple Crown	3/m ²
Primula 'Pink Panther'	PP	/	C	5L	7 Leaves	3/m ²
Prunus laurocerasus 'Zabelliana'	PZ	30-40	C	5L	Bushy	4/m ²
Stipa arundinacea	Sa	/	C	3-4L	V	4/m ²
Rudbeckia fulgida var. sullivantii 'Goldstrum'	RTG	/	C	5L	V	4/m ²

Formal Hedge Planting:						
Name	Abb.	Height [cm]	Root	Form	Spacing	
Carpinus betulus	C	80-100	RB	Bushy, Clipped sides	50cm centres, 40cm between rows	
Note:						
* Hedge plants to be planted in doubled staggered rows at centres noted above. Maintained at 1.2m high						

Mixed Species Native Boundary Hedge Planting:	Name	Abb.	Height (cm)	Root	Container	Habit	Breaks	Density	% In Mix
Crataegus monogyna	Cr	100-125	B	/	Transplant - seed raised	/	4.5/m ²	50%	
Eunymus europaeus	Ee	100-125	B	/	Branches	5	4.5/m ²	10%	
Ilex aquifolium	Ia	80-100	C	SL	Leader & Lateralis	/	4.5/m ²	20%	
Lonicera periclymenum	Lp	60-80	B	/	Leader & Lateralis	/	4.5/m ²	2%	
Prunus spinosa	Ps	60-80	B	/	Branches	3	4.5/m ²	3%	
Rosa canina	Rc	60-80	B	/	Branches	3	4.5/m ²	5%	
Viburnum lantana	Vl	80-100	B	/	Branches	3	4.5/m ²	10%	

*Hedge species to be planted in double staggered rows @ 450mm centres in groups of 5, 7, 9, 11, 13, 15 or 17 of a single species.

**All whips and transplants to have rabbit guards / shrub shelter appropriate to the species.

*** Shrubs to be sourced as local to the site as possible and "UK-Grown" in accordance with current bio-security best practice.

Mixed Species Native Buffer Planting:	Name	Abb.	Height (cm)	Root	Container	Habit	Breaks	Density	% In Mix
Acer campestre	Ac	80-100	B	/	/	/	1/m ²	15%	
Cornus avellana	Ca	60-80	B	/	Branches	3	1/m ²	15%	
Crataegus monogyna	Cr	100-125	B	/	Transplant - seed raised	/	1/m ²	35%	
Cornus sanguinea	Cs	60-80	B	/	Transplant - seed raised	/	1/m ²	15%	
Eunymus europaeus	Ee	60-80	B	/	Branches	5	1/m ²	10%	
Prunus spinosa	Ps	80-100	B	/	Branches	3	1/m ²	10%	

*Native buffer mix to be planted at 1m centres in groups of no larger than 5 of a single species.

**All whips and transplants to have rabbit guards / shrub shelter appropriate to the species.

*** Shrubs to be sourced as local to the site as possible and "UK-Grown" in accordance with current bio-security best practice.

Specimen Shrub Planting:							
Name	Abb	Height [cm]	Root	Container	Habit	Quantity	
Amelanchier lamarckii	Al	250-300	RB	/	Multi Stem	2	
Carladeria yelloana "Pumilla"	CsP	/	C	3-4L	V	34	
Phormium 'Apical Queen'	PAQ	/	C	15L	Triple Crown	4	
Phormium 'Yellow Wave'	PYW	/	C	15L	Triple Crown	4	
Phormium 'Pink Panther'	PPP	/	C	5L	7 Leaves	4	