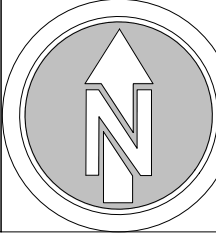


NOTE:
SURROUNDING CONTEXTUAL
BUILDINGS AND INFORMATION ARE
BASED ON RECEIVED ORDINANCE
SURVEY DRAWINGS AND ARE SHOWN
FOR ILLUSTRATIVE PURPOSES ONLY.
ASSUMED SITE BOUNDARY IS
SUBJECT TO CONFIRMATION



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.

PLANNING DRAWING

This drawing has been prepared for submission to the relevant Local Authority as part of a Planning Application. It is not intended to assist with the pricing of any elements.

For Structural details refer to the Structural & Civil Engineers detailed design drawings & specifications.

For MSE information, refer to the MSE Engineers and sub contractor's design drawings & specifications.

Do not scale from this drawing. Verify all dimensions and setting out on site. Notify any discrepancies to the architect.

For Health & Safety information, refer to the Designers Risk Assessments. This drawing is copyright and may not be reproduced in whole or part without written authority.

The details shown on this drawing are confidential and the drawing is the exclusive property of Smeeden Foreman Limited. Copyright reserved. No use, copy or disclosure of the drawing may be made without our permission and it is to be returned to Smeeden Foreman Limited when required.

Smeeden Foreman Limited takes no responsibility for the use of this drawing for any purpose other than for that which it was intended. This drawing must be read in conjunction with all other related drawings and documentation.

All dimensions are in millimeters unless stated otherwise. All dimensions should be verified on site prior to commencement of works.

Do not scale from this drawing.

All works including materials must be in accordance with British Standards, EC Standards, Health & Safety at work act & all other relevant regulations & Bye Laws. All products to be used in accordance with the manufacturer's recommendations.

Smeeden Foreman Limited has not checked or verified, and shall therefore not be liable for any inaccuracies which may be attributable to any information provided by third parties that may have been utilised within this drawing.

Any discrepancies should be brought to the attention of Smeeden Foreman Limited.

The locations of above and below ground utilities equipment, if shown, have been reproduced from plans supplied to Smeeden Foreman Limited by third parties. Although care has been taken when duplicating this information, these locations are approximate only. It is the client's or its appointed agent/contractor's responsibility to accurately locate any utilities equipment on site by appropriate means prior to carrying out any mechanical excavation or other relevant operations.



SOFT LANDSCAPE KEY:

Proposed native evergreen tree 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

Retained existing grassland.
To be made good if required to tie in with original grass.

Proposed wildflower rich grassland area
To be Emsigate seeds EL1 Flowering Lawn Mixture, to sown according to manufacturers recommendations.

Proposed Wildflower meadow area
To be Emsigate seeds EM10 Tussock meadow Mixture Refer to specification for sowing & maintenance requirements

Proposed mixed species native hedge planting
Refer to plant schedule for species & specification

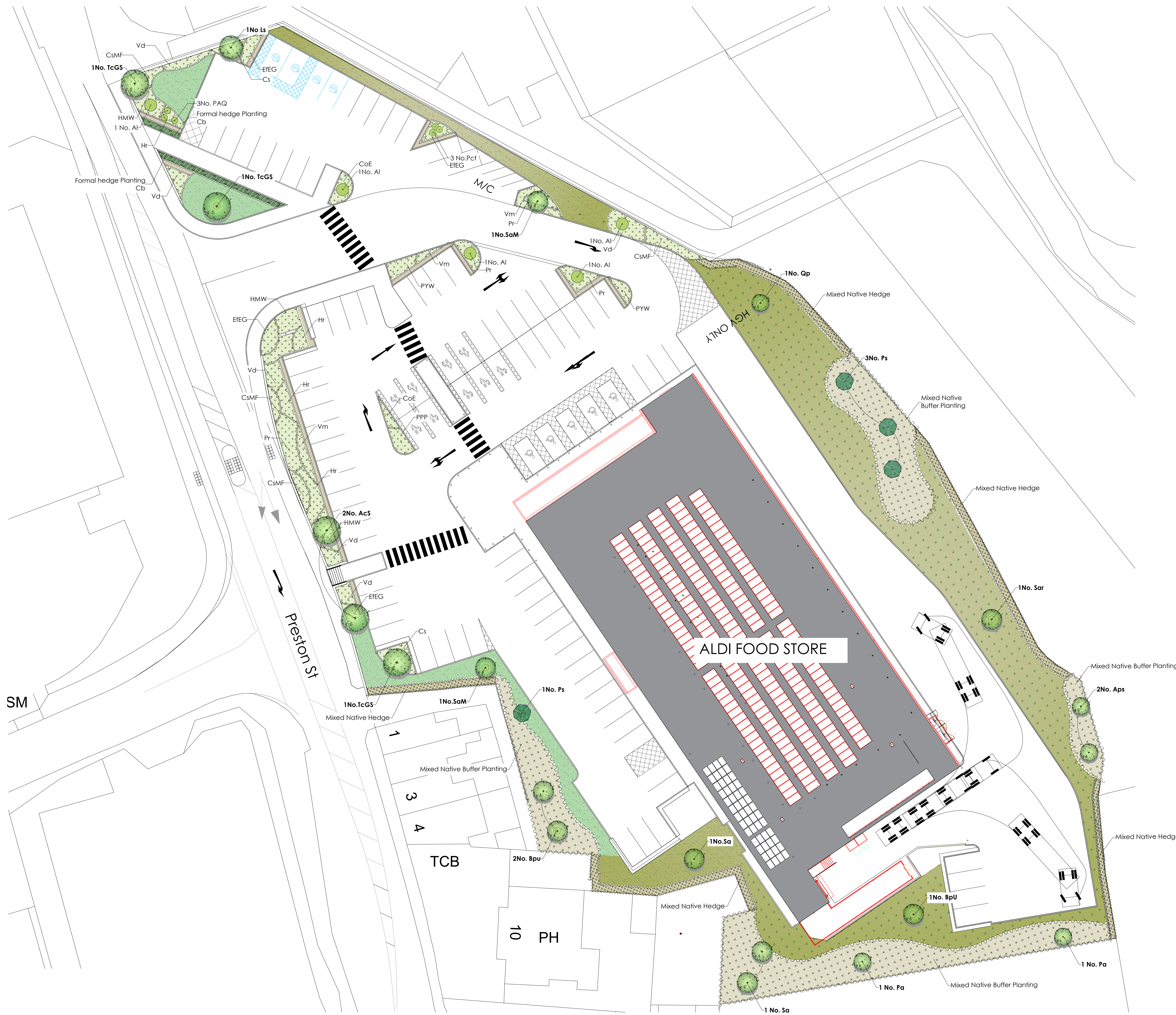
To be maintained at 1.8m high

Proposed formal hedge planting
Refer to plant schedule for species & specification

To be maintained at 1.2m high

Proposed ornamental bark mulch surface finish
1m dia of ornamental bark mulch in accordance with BS8545 2014 recommendations

300mm overrun margin



Planting Schedules:

Trees								
Species	Abb.	Form	Girth (cm)	Height (cm)	Clear stem (cm)	Root	Quantity	
Acer campestre 'Streetwise'	AcS	Standard Extra Heavy	16-18	min 450	min 220	RB	2	
Acer platanoides	ApS	Standard selected	10-12	300-350	175-200	B	2	
Betula pubescens	Bpu	Standard heavy	12-14	350-425	min 220	RB	3	✓
Liquidambar styraciflua	LS	Standard Extra Heavy	14-16	min 450	min 220	RB	1	
Prunus avium	Pa	Standard selected	10-12	300-350	175-200	B	2	
Prunus sylvestris	Ps	Standard selected	10-12	300-350	min 200	B	4	
Quercus petraea	Qp	Standard selected	10-12	350-425	min 200	B	1	
Sorbus aria	Sa	Standard selected	14-16	300-350	min 220	B	1	
Sorbus aria 'Maestica'	SaM	Standard heavy	12-14	350-425	min 220	RB	2	
Sorbus aucuparia	So	Standard heavy	12-14	300-350	min 220	RB	3	
Tilia cordata 'Greenspire'	TcGS	Standard Extra Heavy	16-18	min 450	min 220	RB	3	

Specimen Shrub Planting:							
Name	Abb	Height (cm)	Root	Container	Habit	Quantity	
Amelanchier lamarckii	Al	250-300	RB	/	Multi Stem	4	
Phormium 'Apricot Queen'	PAQ	/	C	15L	Triple Crown	3	
Phormium cookianum 'tricolor'	PCT	/	C	15L	Triple Crown	3	

Ornamental Shrub Planting:							
Name	Abb	Height(cm)	Root	Container	Habit	V	Density
Carex oshimensis 'everlime'	CoE	/	C	5L	V		5/m²
Cornus stolonifera 'Midwinter Fire'	CsMF	60-80	C	3L	Branched		3/m²
Cornus alba 'Spathefil'	CS	60-80	C	3L	Branched		3/m²
Euonymus fortunei 'Emerald & Gold'	EEG	30-40	C	5L	Bushy		4/m²
Hebe 'Mrs Winder'	HMW	30-40	C	5L	Bushy		4/m²
Hebe rakotondraka	Hr	30-40	C	5L	Bushy		4/m²
Philomela russellana	Pr	/	C	5L	Several shoots		4/m²
Phormium 'Pink Panther'	PPP	/	C	5L	7 Leaves		3/m²
Phormium 'Yellow Wave'	PYW	/	C	5L	7 Leaves		3/m²
Viburnum x davidii	Vd	30-40	C	3L	Bushy		4/m²
Vincetoxicum	Vm	/	C	3-4L	V		4/m²

Formal Hedge Planting:						
Name	Abb	Height (cm)	Root	Form	Spacing	
Carpinus betulus	Cb	80-100	R8	Bushy, Clipped sides	50cm centres, 40cm between rows	
Note:						
* Hedge plants to be planted in doubled staggered rows at centres noted above. Maintained at 1m high						

Mixed Species Native Buffer Planting:									
Name	Abb	Height	Root	Container	Habit	Breaks	Density	% in Mix	
Alnus glutinosa	Ag	80-100	B	/	Branched	3	1/m²	5%	
Cornus sanguinea	Cs	60-80	B	/	Branched	3	1/m²	20%	
Corylus avellana	Cav	60-80	B	/	Branched	3	1/m²	15%	
Crataegus monogyna	Cm	100-125	B	/	ransplant - seed raised	1	1/m²	15%	
Fraxinus alnus	Fa	60-80	B	/	Branched	5	1/m²	5%	
Lonicera periclymenum	Lp	-	B	5L	Branched	1	1/m²	3%	
Salix caprea	Sc	80-100	B	/	Branched	3	1/m²	22%	
Viburnum opulus	Vo	60-80	B	/	Branched	3	1/m²	15%	

* Native Buffer mix to be planted at 1m centres in groups of 3, 5 or 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 Boundary Hedge Planting:								
Name	Abb	Height	Root	Container	Habit	Breaks	% in Mix	
Corylus avellana	Cav	60-80	B	/	Branched	3	20%	
Crataegus monogyna	Cm	100-125	B	/	transplant - seed raise	1	50%	
Rosa carolina	Rc	80-100	B	/	Branched	3	5%	
Ulex aquifolium	Ua	60-80	C	5L	Leader & Laterals	1	10%	
Ulex europaeus	Ue	60-80	B	/	Branched	3	10%	
Salix cinerea	Sc	125-150	B	/	Branched	3	5%	

*Hedge species to be planted in double staggered rows @ 450mm centres in groups of 3, 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.

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 8401:2013. 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 grass areas should be minimum 150mm depth.

TOPSOIL

Topsoiling should be carried out 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 one 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 plant material to comply with BS 3936 Part 1:1992, be obtained from a nursery certified by the HFA and transported to site in accordance with the HFA Plant Handling Guide: 1996. 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.

MIXED NATIVE HEDGE & BOUNDARY PLANTING

Areas to be cleared and cultivated as described above. Rotavate 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 tubes rabbit guard / shrub shelter appropriate to the species prior to mulching.

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 discovery.

Contractor to check on site dimensions of all landscape areas to ensure specified quantities will achieve the specified densities for each species.

WILDFLOWER PLANTING

Wildflower mix to be planted directly into cultivated subsoil or low fertility topsoil in accordance with manufacturers recommendations at rate of 4g/m² (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.

Maintenance for the meadow areas (2 maintenance cuts per year):

Cutting first season: Time of first cut - if 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 70mm then September/October - cut to 70mm after flowering. To be cut twice a year from then on as per above.

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

FLOWERING LAWN

Flowering lawn mix to be sown directly into cultivated low fertility topsoil/subsoil in accordance with manufacturers recommendations at rate of 4g/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).

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

EXISTING GRASS AREAS

Height of growth: The height of growth must not exceed 100mm at any time. Frequency: Cut as and when necessary to a height of 25mm, using a rotary mower and remove all arising. Timing: When grass reaches scheduled height of maximum growth and is reasonably dry. Application: At the time of each cut, trim all grass edges round the base of trees, manholes etc and remove arising. Sweep of adjoining hard areas clear of cuttings and remove. Weeding: Keep the sward substantially free of broad leaved weeds by applying a suitable selective herbicide. Fertiliser: March application: 15:10:10 Spring turf fertilizer at 35g/m². September application: 5:10:10 Autumn turf fertilizer at 50g/m².

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 planting period 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.

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.

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.

MAINTENANCE

All planting areas to be maintained to a high standard by the contractor who installed the scheme for 12 months after practical completion, to ensure the landscape scheme is successful, and discourage decline of the area. Minimum frequency of maintenance visits (12 maintenance visits per year): March to May & September to November - 1No. visit each month, June to August - 2No. visits each month.

Generally, during the first 12 months:

- All planting beds to be re-firmed and kept weed free through hand weeding.
- 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.
- Wildflower meadow, flowering lawn and existing grass areas to be cut and maintained in accordance with specification notes above.
- All arising 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. All trees & shrubs that, within a period of 5 years after planting, die or become seriously damaged or diseased, are to be replaced during the next planting season with replacement plants of the same size & species as originally approved, unless alternatives are agreed in writing with the Local Planning Authority.

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 but as a minimum should follow the maintenance regime as set out above and be carried out at the time of each maintenance visit. During dry periods it may be necessary to increase watering visits to once per week - if the planting is looking dry please contact Landscape Architect to arrange the extra maintenance visits 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 in accordance with the installed irrigation / watering system. The watering regime should be 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: 40 litres to be poured into irrigation pipe on every maintenance visit



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Modelled: Landscape Architect: Mollie Keane, Reading, London, Hampshire

Client - ALDI STORES LTD

Project title: ALDI FOODSTORE

Project location: PRESTON STREET WHITEHAVEN

Drawn by: PRESTON STREET WHITEHAVEN

Project No: 21340

Original Volume Level Type Role Number

21340 SFW XX XX DR L 1001