PLANTING SCHEDULES:

Name	Abb.	Form	Girth	Height (cm)	Clear stem	Root	Litres	Breaks
Trees								
Betula penaula	Bp	Standard extra heavy	16-18	min 450	min 200	C	75	5
Pinus sylvestris	Ps	feathered	/	250-300	/	RB	/	/
Prunus avium	Pa	Standard extra heavy	16-18	min 450	min 200	RB	/	5
Tilia cordata 'Greenspire'	TcG	Standard extra heavy	18-20	min 450	min 200	RB	/	/
Tilia cordata 'Rancho'	TcR	Standard semi mature	25-30	min 450	min 200	RB	/	/
Quercus robur	Qr	Standard extra heavy	16-18	min 450	min 200	RB	/	5

Name	Abb.	Height	Root	Container	Habit	Breaks	Age
Specimen Shrubs							
Amelanchier lamarckii	Al	250-300	RB	/	Multi Stem	3	3x
Phormium 'Pink Panther'	PPP	/	/	C	15L	Triple Crown	/
Phormium 'Yellow Wave'	PYW	/	/	C	15L	Triple Crown	/

Name	Abb	Height	Root	Container	Habit	Breaks	Density
Ornamental Planting							
Berberis thunbergii 'Atropurpurea Nana'	BtAN	20-30	C	3L	Branched	4	5/m²
Carex elata 'Aurea'	CeA	/	C	5L	V	/	6/m²
Cornus sanguinea 'Midwinter Fire'	CsMF	40-60	C	3L	Branched	4	3/m²
Euonymus fortunei 'Emerald & Gold'	EfEG	20-30D	C	5L	Bushy	7	5/m²
Hebe 'Blue Gem'	HBG	40-60	C	5L	Bushy	9	5/m²
Hebe rakaiensis	Hr	40-60	C	5L	Bushy	9	5/m²
Lavandula angustifolia 'Hidcote'	LaH	20-30	C	5L	Bushy	5	5/m²
Lonicera nitida 'Baggesens Gold'	LnBG	30-40	C	3L	Bushy	3	4/m²
Lonicera nitida 'Maigreen'	LnM	30-40D	C	3L	Bushy	6	5/m²
Mahonia aquifolium 'Apollo'	MaA	30-40	C	3L	Branched	3	4/m²
Prunus laurocerasus 'Otto Luyken'	PlOL	30-40	C	3L	Bushy	3	4/m²
Spiraea japonica 'Goldflame'	SjGF	20-30	C	3L	Bushy	6	5/m²
Stipa tenuissima	St	/	C	3-4L	S or V	/	5/m²
Viburnum x davidii	Vd	20-30	C	3L	Bushy	3	5/m²

Name	Abb	Height	Root	Container	Habit	Breaks	Density	% in Mix
Native Buffer Mix Planting								
Cornus sanguinea	Cs	60-80	B	/	Branched	3	1/m²	10%
Corylus avellana	Ca	60-80	B	/	Branched	3	1/m²	15%
Crataegus monogyna	Cm	100-125	B	/	Transplant - seed raised	/	1/m²	40%
Euonymus europaeus	Ee	60-80	B	/	Branched	5	1/m²	10%
Ilex aquifolium	Ia	40-60	C	2L	Leader & Laterals	/	1/m²	10%
Rosa canina	Rc	60-80	B	/	Branched	3	1/m²	7.50%
Salix caprea	Sc	125-150	B	/	Branched	3	1/m²	7.50%

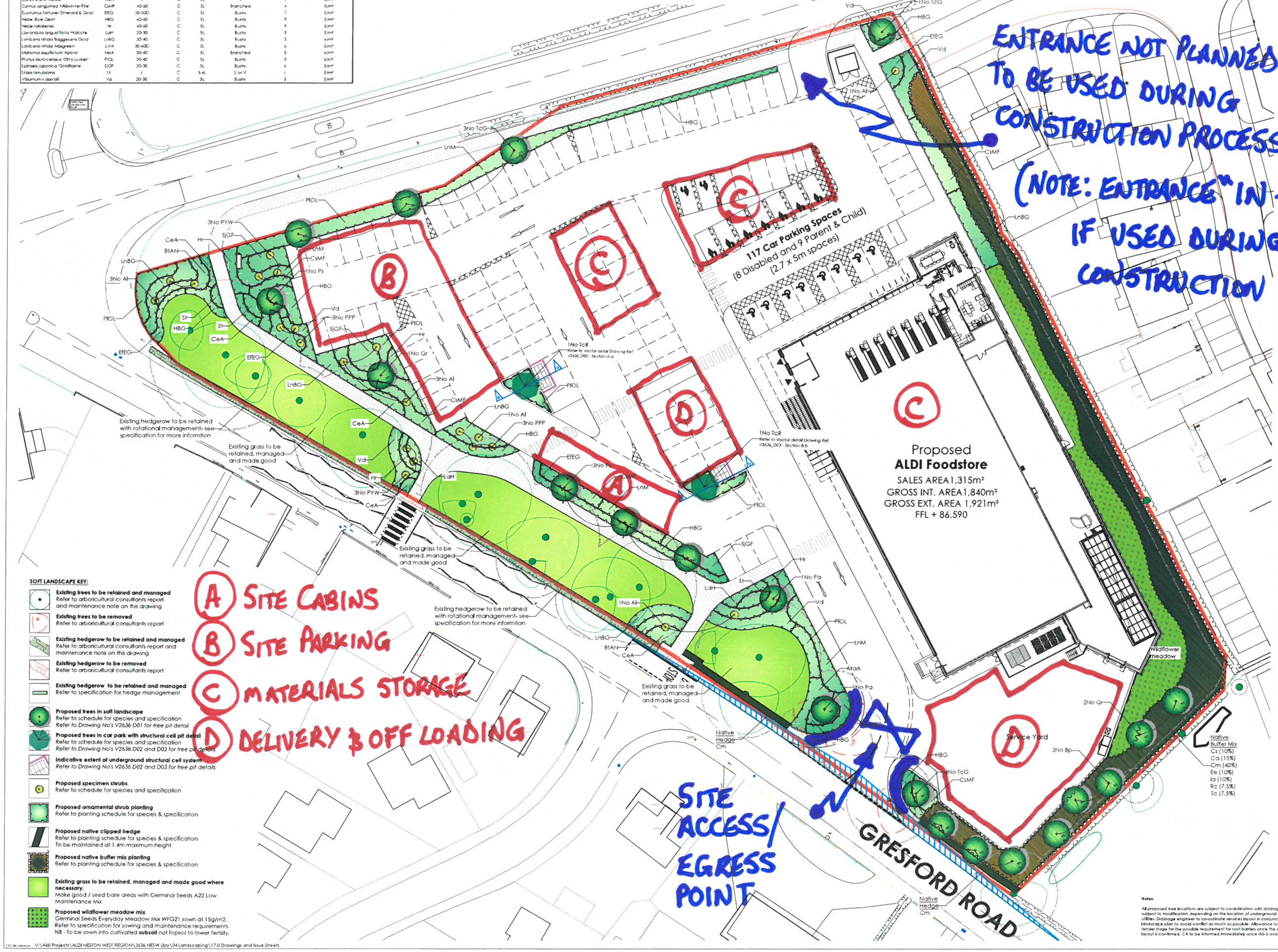
* Native buffer mix to be planted at 1m centres in groups of no more than 5 of a single species at rate per m2 as indicated above.

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

Name	Abb	Height	Root	Container	Habit	Breaks	Age	Density
Native Clipped Hedgerow								
Crataegus monogyna	Cm	125-150	B	/	Feathered	/	2x	4.5/m²

* Native clipped hedge to be planted in a double staggered row of a single species at 0.5 metre centres at rate per m² as indicated. To be maintained at 1.4m max. height.

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



ENTRANCE NOT PLANNED TO BE USED DURING CONSTRUCTION PROCESS

(NOTE: ENTRANCE "IN-ONLY" IF USED DURING COURSE OF CONSTRUCTION WORKS)

SITE ACCESS/ EGRESS POINT

Ⓐ SITE CABINS
Ⓑ SITE PARKING
Ⓒ MATERIALS STORAGE
Ⓓ DELIVERY & OFF LOADING

SOFT LANDSCAPE KEY:

- **Existing trees to be retained and managed** Refer to arboricultural consultants report and maintenance note on this drawing
- **Existing trees to be removed** Refer to arboricultural consultants report
- **Existing hedgerow to be retained and managed** Refer to arboricultural consultants report and maintenance note on this drawing
- **Existing hedgerow to be removed** Refer to arboricultural consultants report
- **Existing hedgerow to be retained and managed** Refer to specification for hedge management
- **Proposed trees in soft landscape** Refer to schedule for species and specification *Refer to Drawing No's V2636 D01 for tree pit detail*
- **Proposed trees in car park with structural cell pit detail** Refer to schedule for species and specification *Refer to Drawing No's V2636 D02 and D03 for tree pit details*
- **Indicative extent of underground structural cell system** *Refer to Drawing No's V2636 D02 and D03 for tree pit details*
- **Proposed specimen shrubs** Refer to schedule for species and specification
- **Proposed ornamental shrub planting** Refer to planting schedule for species & specification
- **Proposed native clipped hedge** Refer to planting schedule for species & specification To be maintained at 1.4m maximum height
- **Proposed native buffer mix planting** Refer to planting schedule for species & specification
- **Existing grass to be retained, managed and made good where necessary.** Make good / seed bare areas with Germinal Seeds A22 Low Maintenance Mix
- **Proposed wildflower meadow mix** Germinal Seeds Everyday Meadow Mix WFG21 sown at 15g/m2. Refer to specification for sowing and maintenance requirements. NB - To be sown into cultivated **subsoil** not topsoil to lower fertility.

CAD file reference V:\Aldi Projects\ALDI NESTON WEST REGION\2636 NESW Llay\04 Landscaping\17.0 Drawings and Issue Sheets

SOFT LANDSCAPE SPECIFICATION

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

SUBSOIL

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.

TOPSOIL

To be supplied and spread by the main contractor to the approval of the Landscape contractor, in accordance with 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 450mm
Areas for Native Buffer Mix Planting: minimum 300mm
Areas for Grass Lawns: minimum 150mm
Wildflower Meadow: No topsoil to be used - to be cultivated subsoil only.

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.

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.

PROPOSED 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 HTA and transported to site in accordance with the HTA 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.

PROPOSED 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.

NATIVE HEDGE PLANTING

Areas to receive whip planting be cleared of all vegetation and cultivated as described above. Rotavate areas 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 maxium height of 1.4 metres.

WILDFLOWER PLANTING

Wildflower mixes to be planted directly into cultivated **low fertility subsoil** in accordance with manufacturers recommendations at rate of 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 - if sown in Autumn cut in March/April, if sown in Spring cut in August - October after flowering. Height of first cut - [illegible] 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 arisings to be removed from the bed to maintain reduced soil productivity.

GRASSED AREAS

Any necessary making good to existing grass areas should be carried out in accordance with BS 3969:1998: Recommendations for Turf for general purposes and BS 4428-1989 General Landscape Operations.
Seeding method for making good bare areas:
Rake to loosen existing soil, apply grass seed and water frequently. After 6-8 weeks fertilize the entire lawn and continue to weed as necessary. Do not mow until the lawn is a height of 100mm.
General grass maintenance:
Height of growth: The height of growth must not exceed 100mm at any time.
Frequency: Cut as and when necessary to a height of 50mm, using a rotary mower and remove all arisings.
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 arisings. Sweep all adjoining hard areas clear of cuttings and remove.
Weeding: Keep the sward substantially free of broad leaved weeds by applying a suitable selective herbicide.
Fertilizer: 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 final possible planting periods prior to practical 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
- 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.

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.

WATERING:

All soft landscaping to be subject to a watering regime which is absolutely essential to ensure the continued success of the scheme, particularly in the key first 12 month establishment period. The frequency should be as necessary to ensure the continued thriving of all grass / planting. During dry periods minimum weekly visits should be made to site to ensure the soil is not too dry and to water if necessary. The soil should be checked for dryness using either a soil moisture sensor or pushing a spade into the top 300mm of soil and seeing how the soil looks. If it is moist there is no need to water but if it is bone dry then water immediately. 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 loosened or scooped out to direct water to the rootzone. Trees should be watered via their irrigation pipes, in accordance with the manufacturer's instructions, to ensure the water reaches the rootball of the tree.

MANAGEMENT OF EXISTING HEDGEROW ON SOUTHERN BOUNDARY:

Rotational management of hedge to maximize fruit production as requested by project ecologist (Cambrian Ecology) Management to follow guidance from RSPB website. -
- Trim in January or February to avoid the destruction of birds' nests (present from March to August) and to allow any berry crop to be used by wintering birds (September to December).
- Trim on a two- or three-year rotation, rather than annually, to ensure that thick nesting cover is available somewhere on the site every year, and to boost the berry crop that generally develops on second-year growth.

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.

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

NORTH

Revisions		Description	Drawn	Check
08-07-19	H	Car park spaces note updated	DW	DW
05-07-19	G	Landscaping amended in line with latest site plan	DW	DW
25-06-19	F	Landscaping amended in line with planners comments. - Structural cell detail added to trees in car park - Native buffer mix extended around Gresford Rd frontage - Spec. for making good grass areas added	DW	DW
29-05-19	E	Landscaping amended in line with ecologist comments	TW	AS
15-05-19	D	Landscaping amended in line with latest site plan	DW	AS
09-04-19	C	Landscaping amended in line with latest site plan. Section of existing hedge omitted due to clash with visibility splays and shown to be replaced.	DW	AS
29-03-19	B	Tree species amended	DW	AS
28-03-19	A	Landscaping amended in line with latest site plan. Trees added within car park. Trees omitted behind building due to services. Cross shown as existing retained. 2no proposed trees omitted from bed adjacent car park.	DW	AS

Project Title: PROPOSED DEVELOPMENT
Gresford Road
Llay
Client: ALDI STORES LTD.
Status: PLANNING
Scale: 1:200
Drawing Size: A0
Drawn By: DW
Checked By: DW
Date: 03/19
Drawing Title: LANDSCAPE PLAN
Job+Dwg No: V2636 L01
Rev: H

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