NOTES:

1.0 SOILS: Subsoil to be scarified to 150mm depth prior to spreading topsoil to alleviate compaction. Imported or as saved topsoil to be in accordance with BS3882 'General Purpose Grade'. Screened or manufactured topsoil is not acceptable. Grass areas to be a minimum depth of 150mm, Shrub beds 300mm depth. Incorporate spent Mushroom compost (2-3 years well rotted- "Black") 40mm depth evenly worked into soil.

2.0 EXISTING TREES: Where trees are to be retained they should be subject to a full arboricultural inspection to assess condition and safety. Retained trees shall be protected from damage by erection of 2.3m weldmesh fencing on a scaffold framework in accordance BS 5837:2005 Figure 2. These barriers shall be maintained in position and in good condition until works are complete. Fencing to be located in accordance with Table 2. at a radius of 12 times the stem diameter (single stem trees) or 10 times the basal diameter (trees with more than one stem arising below 1.5m above ground level) refer to Clause 5.2.2. Further precautions are to be taken as detailed within BS 5837:2005 9.4.

3.0 TREE PLANTING: All trees to be in accordance with BS 3936 / 5236. Trees to be planted in accordance with BS 4428 and securely staked and tied in pits 1000 x 1000 x 750mm backfilled with topsoil mixed with 40L of tree planting compost, ensuring tree pits are a minimum of 75mm deeper and 150mm wider than the tree roots. Base of pits to be broken up to a depth of 150mm. Root balls to be encircled by Root Rain Metro or similar irrigigation pipe. Well water after planting.

Suitable foundations are to be provided to accomodate proposed tree planting and retained trees. In locations close to footpaths and roadways linear root barriers Greenleaf, ReRoot or similar are to be installed in accordance with manufacturers instructions. Where proposed tree locations conflict with services, trees are to be relocated in accordance with the appropriate utilities guidance notes subject to local authority approval. Proprietary root barrier Greenleaf, ReRoot or similar to be installed in accordance with manufacturers instructions where relocation is not considered appropriate.

4.0 TREE SURGERY / REMOVAL: Tree surgery and tree removal to be carried out by a registered Tree surgeon in accordance with BS 3998:1989. Arisings to be removed to a licensed tip.

5.0 SHRUB PLANTING: plants to be in accordance with BS 3936 and handled in accordance with CPSE guidelines. All plants to have a minimum of three breaks, except Hedera with a minimum of two. Lay Geotextile membrane (to be Terram 'WeedGuard' or similar approved) on top of prepared topsoil (refer to item 1.0) covering all planted areas with a minimum overlap of 200mm between sheets. Cut a cross and pin back the membrane for each individual plant location and dig out the soil below the cut large enough to accept the root ball. Well water plants immediately after planting and prior to spreading of mulch. Shrub areas to be covered with bark mulch as note 6.0 and kept weed free.

6.0 WEED CONTROL: all planting areas to incorporate 70mm depth bark mulch laid over geotextile membrane as note 5.0. Bark mulch to be Melcourt Industries 'Ornamental Bark Mulch' or similar approved. Planted areas adjacent to kerbs, edgings and pedestrian pathways (450mm offset width) to be increased to 100mm depth of bark much with edges of geotextile membrane to be buried to a depth of 300mm and securely pinned to ensure lifting and exposure of underlying topsoil does not occur.

7.0 WEED CONTROL ON STEEP SLOPES: proposed planting areas steeper than 1:3 (33%) gradient are to be designed appropriately by a suitably qualified engineer to ensure slope stability. Where appropriate bark mulch and geotextile membranes are to be replaced with proprietary mulch matting such as Greenfix 2.4m wide mulch rolls or similar.

Prior to laying mulch sheeting planted areas are to be kept weed free and topsoil cultivated, removing stones clods and hollows. Mulch matting to be laid in close contact with the topsoil, installed and pegged in accordance with manufacturers recommendations. Once installed plants are to be planted through pre-cut slits or flaps which are to be refitted closely around plant stems in accordance with manufacturers recommendations.

8.0 TURFING: Grass turf areas to be Tillers 'Arena' or similar approved cultivated turf, laid in accordance with BS4428. Topsoil to be rototvated and levelled as required and any debris or stones greater than 50mm diameter removed. Pre-turfing fertiliser to be applied in accordance with manufacturers instructions. Turf to be laid from planks with broken joints well butted up, pegged to slopes where required. Well water after laying to avoid shrinkage.

9.0 SEEDING: grass areas to be seeded in accordance with BS 4428 during March, April or September. Topsoil to be rototvated and levelled as required and any debris or stones greater than 20mm diameter removed. Pre-seed fertiliser to be applied in accordance with manufacturers instructions. Lightly rake areas after sowing. Seed to be Germinal Seeds mix A19 'All Purpose Landscaping' sown at 35g/m2, including:

- 30% CORAIL (Slender Creeping Red Fescue)
- 25% RAISA (Chewings Fescue)
- 20% ABERELF (Perennial Ryegrass)
- 20% CADIX (Perennial Ryegrass)
- 5% HIGHLAND (Browntop Bent)

10.0 WILDFLOWER SEEDING: grass areas to be seeded in accordance with BS 4428 during March, April or September. Unimproved topsoil to be imported, rotovated and levelled as required and any debris or stones greater than 20mm diameter removed. Lightly rake areas after sowing. Seed to be Germinal Seeds mix WFG4 'Neutral Soils' sown at 5.0 g/m².

11.0 MAINTENANCE: To be carried out at approximately monthly intervals to include the following:

a) Eradicate weeds by hand or chemical means.

b) Cut out dead or / and damaged stock or branches, prune as required.

c) Ensure all shrubs are firmed in.

d) Collect litter, sweep and tidy site.

e) Apply suitable pesticides, fungicides and fertilisers as required.

12.0 WATERING: all plant material to be watered in dry periods until established during April through to September with a fine rose until the water penetrates the topsoil to at least 5cm depth and achieves field capacity. Frequency of watering regime to de determined by weather conditions, soil conditions and underlying geology, all plant beds to be watered to ensure soil is consistently moist to promote successful establishment.

The Landscape Contractor is to provide details of proposed watering regime prior to commencement of planting works, considering as necessary the soil quality, underlying geology and anticipated weather conditions. As a guide only it is suggested that during hot, dry periods, plants are to be watered every six to ten days.

For individual trees it is suggested that 18 watering visits per year are carried out commencing late March (prior to budburst) and utilising a minimum of 50 litres of water per tree. Soil probe to be used to determine soil saturation to full depth of root ball, in accordance with Local Authority recommendations.

LEGEND: HARD LANDSCAPING

BOUNDARY TREATMENTS:

BOUNDARY FENCE: 1800mm high timber closeboard fencing.

KNEE RAIL: 450mm high timber knee rail as detailed.

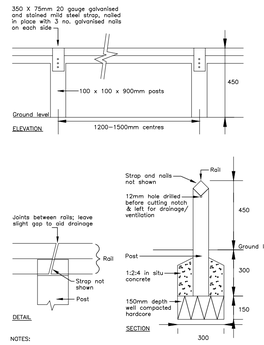
SURFACE TREATMENTS - HGV SPECIFICATION:

PAVING: 300 x 300mm grey concrete paving stones; laid stacked pattern.

PAVING: 200 x 100mm anthracite block paving; laid stretcher pattern.

PAVING: tarmac surface to engineers details.

FENCING – TIMBER: KNEE RAIL
SCALE 1:20



NOTES:
1. All notch cuts to tops of posts are to be made prior to preservative treatment being applied.
2. All timber is to be treated with an approved pressure–impregnated preservative.
3. All timber is to be sawn softwood.
4. All ironmongery is to be galvanised.
5. All timber should be stained with black (ral 9005) , colour to be approved.
6. Posts are to be positioned at 1200–1500mm centres, at all changes in direction, and at all intersections.

Plant Schedule

Trees

No.	Species Name	Specification	Girth	Height	Density
3 No.	Betula pendula	Extra Heavy Standard :5 brks :3x :RB	14-16cm	425-600cm	Counted
6 No.	Carpinus betulus	Extra Heavy Standard :5 brks :3x :RB	14-16cm	425-600cm	Counted
5 No.	Sorbus aria 'Lutescens'	Extra Heavy Standard :5 brks :3x :RB	14-16cm	425-600cm	Counted

Shrubs

No.	Species Name	Specification	Diameter	Height	Pot Size	Density
395 No.	Brachyglottis 'Sunshine'	Branched :4 brks :C		30-40cm	3L	4/m²
142 No.	Ceanothus thyrsiflorus repens	Bushy :5 brks :C	30-40cm		3L	4/m²
741 No.	Cornus sanguinea 'Midwinter Fire'	Branched :3 brks		40-60cm	3L	4/m²
657 No.	Cotoneaster conspicuus 'Decorus'	Branched :3 brks :C		30-40cm	3L	4/m²
75 No.	Euonymus fortunei 'Emerald Gaiety'	Bushy :7 brks :C	20-30cm		3L	5/m²
231 No.	Hebe 'Sutherlandii'	Bushy :C	20-25cm	20-30cm	3L	4/m²
891 No.	Lonicera nitida 'Baggesen's Gold'	Bushy :3 brks :C		30-40cm	3L	4/m²
293 No.	Lonicera nitida 'May Green'	Bushy :6 brks :C	30-40cm	20-30cm	3L	4/m²
838 No.	Prunus laurocerasus 'Otto Luyken'	Bushy :3 brks :C		30-40cm	3L	4/m²
146 No.	Spiraea japonica 'Candle Light'	Bushy :6 brks :C		40-60cm	3L	4/m²
91 No.	Spiraea japonica 'Fire Light'	Bushy :6 brks :C		40-60cm	3L	4/m²

LEGEND: SOFT LANDSCAPING

GROUND COVER: ornamental shrub ground cover planting as scheduled.

Bark Mulch as specified.

GRASS: cultivated turf to road frontages, existing areas to be made good with seed.

WILDFLOWER MEADOW AREAS: to be seeded with Germinal Seeds Amenity mix as agreed; refer to notes.

TREE PLANTING: standard tree planting.

EXISTING TREES: to be retained.

EXISTING TREES: to be removed.

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rev	date:	amendments:	alt:

cdm 2015; designers residual risk information

In addition to the risks & hazards normally associated with the type of work detailed on this drawing the following residual risks should be noted:

Construction:

1. Changes in level across the site including ramped access / steps.
2. Retaining walls and associated level changes.
3. The proximity of adjacent pavements, estate roads & car parks.
4. The proximity of adjacent buildings and buried associated services.

Maintenance:

1. Changes in level across the site including ramped access / steps.
2. Retaining walls and associated level changes.
3. The proximity of adjacent pavements, estate roads & car parks.
4. The proximity of adjacent buildings and buried associated services.

It is assumed that works will be carried out by competent contractor working, where appropriate to an approved method statement.

bea landscape design ltd

client:
Lidl UK GmbH

project:
Holbeach Road
Spalding

title:
Detailed Landscape Proposals

status:
PLANNING

date:	drawn:	number:
Aug 2017	DP	17-079-01
scale@A1:	**checked:**	**revision:**
1:250	TGW	

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