Existing trees to be retained.

Existing trees to be removed.

Proposed tree planting

Proposed shrub/specimen planting

Proposed hedge planting

Pond planting

Grass. Turf to plots. Seeding to open space areas

Plant Schedule

Trees

Abbreviation	Species	Height	Girth	Specification	Pot Size	Number of Plants
BP	Betula pendula	350-425cm	12-14cm	Heavy Standard: 3x	RB	11 No.
SA	Sorbus aucuparia	350-425cm	12-14cm	Heavy Standard: 3x	B	5 No.
SAR	Sorbus aria	350-425cm	12-14cm	Heavy Standard: 3x	B	8 No.
TC	Tilia cordata	350-425cm	12-14cm	Heavy Standard: 3x	B	2 No.
TCG	Tilia cordata 'Greenspire'	350-425cm	12-14cm	Heavy Standard: 3x	B	1 No.
						Total :27 No.

Shrubs

Abbreviation	Species	Specification	Height	Pot Size	Density	Number of Plants
AJV	Aucuba japonica 'Variegata'		40-60cm	5L	4/m²	32 No.
BCO	Berberis ordifolia		20-30cm	3L	6/m²	79 No.
BTA	Berberis thunbergii 'Atropurpurea Nana'		30-40cm	3L	6/m²	52 No.
CAB	Ceanothus 'Autumnal Blue'		40-60cm	3L	4/m²	8 No.
CD	Cotoneaster dammeri		30-40cm	3L	6/m²	7 No.
CET	Ceanothus thyrsiflorus repens		20-30cm	3L	6/m²	71 No.
EDS	Escallonia 'Donard Seedling'		40-60cm	5L	4/m²	49 No.
EEG	Euonymus fortunei 'Emerald 'n' Gold'		20-30cm	3L	6/m²	38 No.
EEL	Elaeagnus x ebbingei 'Limelight'		40-60cm	5L	4/m²	8 No.
EJA	Euonymus japonicus 'Ovatus Aureus'		30-40cm	3L	6/m²	30 No.
ESQ	Euonymus fortunei 'Silver Queen'		30-40cm	3L	6/m²	36 No.
EUEG	Euonymus fortunei 'Emerald Gaiety'		20-30cm	3L	6/m²	35 No.
GDC	Griselinia littoralis 'Dixon's Cream'		40-60cm	5L	4/m²	3 No.
HEP	Hebe pinguifolia 'Pagei'		30-40cm	3L	6/m²	57 No.
HMW	Hebe 'Mrs Winder'		30-40cm	3L	6/m²	90 No.
HRE	Hebe albicans 'Red Edge'		30-40cm	3L	6/m²	37 No.
LAV	Lavandula angustifolia 'Vera'		30-40cm	3L	6/m²	20 No.
LNB	Lonicera nitida 'Baggesen's Gold'		40-60cm	5L	4/m²	24 No.
PE	Potentilla fruticosa 'Elizabeth'		30-40cm	3L	6/m²	29 No.
PR	Potentilla fruticosa 'Red Ace'		30-40cm	3L	6/m²	11 No.
SR	Skimmia japonica 'Rubella'		30-40cm	3L	6/m²	126 No.
SS	Senecio 'Sunshine'		30-40cm	3L	6/m²	24 No.
VD	Viburnum davidii		30-40cm	3L	6/m²	58 No.
VTE	Viburnum tinus 'Eve Price'		40-60cm	5L	4/m²	31 No.
						Total :955 No.

Specimens

Abbreviation	Species	Specification	Height	Girth	Pot Size	Density	Number of Plants
HMB	Hydrangea macrophylla 'Blue Wave'		40-60cm		5L	Counted	4 No.
HMB	Hydrangea macrophylla 'Blue Wave'		80-100cm		25L	Counted	1 No.
JVS	Juniperus virginiana 'Skyrocket'		80-100cm		7.5L	Counted	9 No.
PFF	Pieris 'Forest Flame'		60-80cm		10L	Counted	16 No.
PYW	Phormium 'Yellow Wave'	Double Crown			7.5L	Counted	6 No.
						Total :38 No.	

Hedges

Abbreviation	Species	Specification	Height	Girth	Pot Size	Density	Number of Plants
CORAV	Corylus avellana	1+1 B	60-80cm			6/m	122 No.
CRAMON	Crataegus monogyna	1+1 B	60-80cm			6/m	402 No.
FS	Fagus sylvatica	Double staggered row	100-125cm		B	6/m	1357 No.
ILEA	Ilex aquifolium	1+1	60-80cm		B	6/m	122 No.
LsM	Lavandula angustifolia 'Munstead'	Double staggered row	25-30cm		5L	6/m	59 No.
PLO	Prunus laurocerasus 'Otto Luyken'	Double staggered row	60-80cm		5L	4/m	538 No.
PRUSP	Prunus spinosa	1+1	60-80cm		B	6/m	161 No.
							Total :2761 No.

Pond planting

Abbreviation	Species	Specification	Height	Girth	Pot Size	Density	Number of Plants
	Carex aucutiformis				1L	10/m	30 No.
	Carex pendula				1L	10/m	30 No.
	Carex riparia				1L	10/m	30 No.
	Filipendula ulmaria				1L	10/m	30 No.
	Iris pseudacorus				1L	10/m	30 No.
	Juncus effusus				1L	10/m	30 No.
	Lycopus europaeus				1L	10/m	30 No.
	Lythrum salicaria				1L	10/m	30 No.
	Mentha acquatica				1L	10/m	30 No.
							Total :270 No.

SPECIFICATION

GROUND PREPARATION - GENERAL

Preparing for topsoiling
Grading and cultivation shall be in accordance with BS 4428:1989 section 4. Subsoil that is to receive topsoil shall, whether obviously overcompacted or not, be thoroughly broken up by hand, by heavy rotavator, by subsoiler or tined equipment with adequate passes made to thoroughly break up the surface to a depth of 150mm, cleared of all large stones, bricks, perennial weeds, tree roots (excluding living tree roots), coarse vegetation and other extraneous matter.

Subsoil grading
Subsoil shall only be graded after loosening as above, and this shall be undertaken by the use of a tractor and blade grader on large areas and by a small mechanical grader or by hand on small areas. Ground shall at no time be traversed by heavy machinery, for grading or any other purpose after subsoiling and/or topsoiling has taken place.

Making up levels
When subsoil is deposited in low lying areas to raise formation levels, it shall be lightly consolidated and left broken up ready to receive topsoil. Imported fill material shall be natural subsoil free from metal, concrete or organic material with any one dimension greater than 100mm. All imported fill material shall be approved by the Landscape Architect prior to spreading on site.

Supply of topsoil
Topsoil to be supplied shall be approved by the Landscape Architect and details of the source of supply shall be provided in order that inspection may be made before delivery commences. Topsoil shall conform to BS 3882: 2015. Recommendations and classification for topsoil, clause 4.1a. The soil shall be free of weeds, roots or perennial weeds; pests, diseases, debris, tree roots, sticks, subsoil and foreign matter and shall be capable of being broken down to a fine tilth.

Temporary topsoil heaps
The depositing of temporary heaps of topsoil shall be so arranged that possible damage to existing grass, plants, tarmacadam, paving etc. is avoided. Unless otherwise agreed by the Landscape Architect, temporary spoil heaps shall be on protected ground. Such protection shall take the form of tarpaulins, plastic sheets, boards or similar covering. If damage does occur, it shall be made good at the contractor's own expense. Areas excavated to receive topsoil but have not had the base loosened shall not be used as temporary off loading areas. If the bottom of the excavation has been loosened off, loading on these areas is permissible.

Spreading topsoil
Prior to topsoil replacement the formation level shall be cleared of all stones, rubbish, debris with any one dimension greater than 75mm. Areas to be seeded or turfed shall be covered by topsoil 100mm thick and areas to be planted shall be covered by topsoil 400mm thick. Topsoil shall be spread in an evenly consolidated layer and shall be left cleared of all roots, stones and debris with any one dimension greater than 50mm throughout its depth. Unless otherwise stated the finished level shall be 25mm above adjacent hard areas. No topsoil shall be spread until the subsoil grade has been inspected by a Landscape Architect.

PLANTING

Cultivation
Planting areas shall be rotavated to a depth of 225mm in the original ground, or where the ground is compacted, ripped and rotavated.
Pick off stones, bricks, timber and all other debris arising which have any dimensions greater than 50mm and remove off site to tip. Do not cultivate across any drain where the stone is flush with the ground surface.

Soil Improvers
Where directed composts, fertilisers or other additives shall be incorporated into the soil. Spent mushroom compost or similar shall be spread to the specified thickness and incorporated, by rotovating, into the top 150mm. Fertilisers, organic or inorganic, shall be raked into the top 25mm.

Rejection of plants
All plant material should comply with the minimum requirements in BS 3936:part 1, specification for trees and shrubs and part 4, specification for forest trees; BS 4043, recommendations for transplanting semi-mature trees and BS 5236 recommendations for cultivation and planting trees in the advanced nursery stock category. Any plant material, which in the opinion of the Landscape Architect, does not meet the requirements of the Specification, or is unsuitable, or defective in any other way, will be rejected. The minimum specified sizes in the plant schedule will be strictly enforced. The contractor shall replace all plants rejected at his own cost.

Planting
All plant material shall generally be planted between November and March in open cool weather. Planting shall not take place in frosty, snowy or waterlogged conditions. Where approved, pot or container grown plants may be planted outside the described season, but adequate watering shall be supplied. Torn or damaged roots and branches shall be cleanly pruned prior to planting.

Planting of whips, transplants and shrubs
The nature of the material to be planted is variable and the contractor shall allow for planting to be properly carried out in all cases as described in BS 4428: 1989 section 7 Amenity tree planting, section 8 Woodland planting and section 9 Planting of shrubs, herbaceous and bulbs. All plants shall be planted at same depth, or very slightly deeper, as they were grown. Roots shall not be bent, broken or forced into inadequate pits or notches. Plants shall be upright, firmed in and wind resistant, with no air pockets around roots. All pots and root wrappings shall be carefully removed prior to planting. All pots and wrappings arising shall immediately be picked up and stored ready for removal to tip. Plants shall be planted at the specified centres. On steep slopes this shall be in the horizontal measure.

Tree planting within soft landscape areas
Trees shall conform to BS: 3936 and be planted in tree pits of the following sizes unless directed otherwise:
Feathered trees - 900 x 900 x 450 up to 3 metres high
Selected standards - 1000 x 1000 x 600 up to 4.25 metres high
Heavy standards/Extra heavy standards - 1200 x 1200 x 600
Excavated subsoil or stone shall be carted off site to tip. The bottom 250mm of the pit shall be dug and broken up. The bottom of the pit shall be backfilled with subsoil (site or imported) to comply with BS 8601: 2013. The top 300mm of the pit shall be backfilled with imported topsoil as specified unless directed otherwise.

Compost for planting pits
Compost shall be a proprietary product, bark based incorporating fertilisers and improving additives. The type of compost shall be approved before its delivery on site, and the details of the product shall be supplied. Cambark planting compost is approved. Where directed compost shall be added to and mixed with topsoil backfill at the following rates:
Feathered trees - 40 litres
Selected standards - 60 litres
Heavy standards/Extra heavy standards - 80 litres

Stakes for trees
Stakes shall be peeled round softwood, pointed, minimum diameter 75mm. The stakes shall be driven into the base of the tree pit prior to planting the tree and backfilling.
Stakes shall in general have a clear height above the finished ground level as follows unless directed otherwise;
Feathered trees - 750mm (one tie)
Selected standards - 900mm (2 stakes, one tie each)
Heavy standards/Extra heavy standards - 1200mm (2 stakes, one tie each)
The stake shall be long enough to drive until they hold the tree firmly without rocking.

Tree ties
Ties for bareroot trees, shall be approved rubber nail-on type with cushioned spacer such as Terra, or other equal and approved. Nails shall be flat headed galvanised and shall hold the ties securely into the stake. Ties shall not be over tight on the tree stems. Ties available from J Toms Limited, Sittingbourne Industrial Estate, Kent, TN27 9SH.
Feathered Type –04 (one tie)
Select standards – Type L1 (one tie per stake)
Heavy standards/Extra heavy standards – Type L3 (one tie per stake)

Ties for rootball and container grown trees shall be 50mm rubber tree belts in a figure of eight around the tree. Fixed to the stake with two flat head galvanised nails.
Feathered – one belt
Select standards Type - two belts
Heavy standards/Extra heavy standards - two belts

Planting of trees
The tree shall be set upright and at the same depth as grown in the nursery, the roots shall be spread out (bareroot) and the subsoil followed by compost topsoil mixture, backfilled. Backfilling should be done to ensure close contact between roots and by firming in layers (bareroot). The soil shall be left level and tidy, any subsoil clods, bricks or stones over 50mm arising, collected and carted off site.

Mulching
A 75mm compacted layer of medium grade pulverised bark, with a particle size of not more than 100mm and containing no more than 10% fines, shall be spread to form a continuous layer covering the whole of the bed, or in the case of standard trees within grass shall be in the form of a circle of 600mm diameter around the base of the tree. Whips and transplants shall be mulched in the form of a 300mm diameter circle around the base of the tree. Where trees are planted within grass a circular hemp mulch mat is required beneath the layer of mulch at the diameters stated above, secured with fixing pegs. The tree pit surface shall be as big as possible.

Tree planting within hard landscape areas
Trees shall conform to BS: 3936 and be planted in tree pits of the following sizes unless directed otherwise;
Feathered trees - 900 x 900 x 450 up to 3 metres high
Selected standards - 1000 x 1000 x 600 up to 4.25 metres high
Heavy standards/Extra heavy standards - 1200 x 1200 x 600
Excavated subsoil or stone shall be carted off site to tip. The bottom 250mm of the pit shall be dug and broken up. The bottom of the pit shall be backfilled with subsoil (site or imported) to comply with BS 8601: 2013. The top 300mm of the pit shall be backfilled with imported topsoil as specified unless directed otherwise.

Compost for planting pits
Compost shall be a proprietary product, bark based incorporating fertilisers and improving additives. The type of compost shall be approved before its delivery on site, and the details of the product shall be supplied. Cambark planting compost is approved. Where directed compost shall be added to and mixed with topsoil backfill at the following rates:
Feathered trees - 40 litres
Selected standards - 60 litres
Heavy standards/Extra heavy standards - 80 litres

Tree anchor
Trees shall be anchored using under ground guying system, installed in accordance with manufacturer's instruction. The tree shall be held firmly without rocking.

Planting of trees
The tree shall be set upright and at the same depth as grown in the nursery. The trunk flare at the base shall be just visible and the pit backfilled with subsoil and then topsoil compost mixture. The soil shall be left level and tidy, any subsoil clods, bricks or stones over 50mm arising, collected and carted off site.

TURFING

Self preparation and cultivation
All areas to be turfed shall be cultivated to a depth of at least 100mm, all weeds, stones and refuse larger than 50mm shall be removed to Contractor's tip, and shall be brought to a fine tilth. Allow for hand cultivation where machine work is not possible.

Turf
Turf shall be extra-quality meadow turf and shall comply to BS 3969 and shall be laid in accordance with BS 4428 section 6, Turfing. The contractor shall supply a sample of the turf he proposed to use for approval of the Landscape Architect and shall ensure that all turves are similar to the approved sample. The Contractor shall inform the Landscape Architect of the location of the supply, so that turf can be inspected prior to lifting.

Season
Turf shall be laid when weather and soil conditions are suitable and, where possible, preference should be given to autumn and early winter operations. No turf shall be laid in exceptionally dry or frosty weather or in other unsuitable weather conditions.

Delivery and stacking
For large areas, turf shall be delivered at appropriate intervals throughout the work so as to avoid stacking for long periods.

Laying
No turf shall be laid until the self preparation has been satisfactorily completed by being brought to an even tilth and firmness. Turves from the stack shall be wheeled to turf layers on planks laid closely side by side. Adequate timber planks shall be used to support operatives and harrows, and no footprints shall be left on the surface. Turf shall be laid lengthwise across the slope (round), closely butted and to the correct levels. The turf shall be laid off planks working over turves previously laid. Where necessary, the turves shall be lightly and evenly firmed with wooden beaters, the bottom of the beaters being frequently scraped clean of accumulated soil or mud. A dressing of finely sifted topsoil shall be applied and well brushed into the joints. Any inequalities in finished levels owing to variation in turf thickness or uneven consolidation of soil shall be adjusted by raking and/or packing fine soil under the turf. A roller shall not be used. The finished levels of the turf shall conform to the levels indicated, allowing for final settlement. Turf edges and margins shall be laid with whole turves. Turves adjoining buildings, walls or fences shall be taken to the face of the structure, giving complete soil cover.

Laying around trees
Turf shall not be laid to within 300mm of any tree trunk.

Watering
The Contractor shall be responsible for the replacement of any scorched turf. All necessary watering shall be carried out with sprinklers or oscillating sprays so as not to wash soil out of joints. If shrinkage occurs and the joints open, fine topsoil shall be brushed in and well watered.

PROTECTION TO EXISTING TREES

The recommendations in BS 5837 (2012). *Trees in Relation to Design, Demolition & Construction* must be complied with at all times.
No pruning, lopping, felling or severance of roots is to take place without prior consent of the local authority.
Any work to the existing trees is to be carried out by a qualified tree surgeon.
The position and construction of protective fencing shall be agreed with the local authority prior to any site works commencing.
Under no circumstances must any materials be stored under the canopy of existing trees, and no cement, diesel or oil stored near them.
No vehicles should pass under the canopy of existing trees.
No fires should be lit in close proximity to existing trees.
No ropes, cables, services or notice boards shall be fixed to existing trees.
Under no circumstances should the levels around existing trees be either raised or reduced.
Scaffolding may only be erected within protected areas if it is done so in accordance with BS 5837.
Any excavations under existing tree canopy spreads shall be done by hand.

MAINTENANCE

All maintenance to be carried out up to handover to the adopting authority/ householder from the date of planting and turfing to ensure successful establishment. All dead, diseased, damaged plants must be replaced during this time unless the local Planning Authority states, in writing, any variation to this.

Weeding
All beds to be kept weed free by hand weeding. Beds to be forked over as necessary to keep soil loose to approved carriers with no hollows.

Pruning
At appropriate time, prune plants to remove dead, dying or diseased wood and suckers to promote healthy growth and natural shape.

Watering
The Contractor shall ensure that sufficient water is applied to maintain healthy growth.

Litter
Site to be kept free of litter.

Grass cutting
Grass cut shall be carried out when first growth is apparent, blades set 20mm above ground. The Contractor shall continue cutting at appropriate intervals during the growing season and maintain 40mm high sward until grass areas are handed over. Watering, weeding, cutting, repair of all erosion and settlement and reseeding as necessary to establish a uniform and healthy stand of grass shall continue until handover to the householder.

GRASS SEEDING AND MAINTENANCE

Soil Preparation and Cultivation

Final grading of topsoil shall be agreed by the Landscape Architect before cultivation and seeding. All areas to be seeded shall be cultivated to 150mm depth and all weeds, stones, and refuse larger than 50mm shall be removed to tip. Cultivated soil shall be rolled and raked to produce a fine tilth. Allow for hand cultivation where machine work is not possible. Seed sowing must immediately follow the preparation of the seed bed.

Seeding

Seeding shall be carried out during calm weather. All sowing is at the contractor's own risk and any areas where germination fails shall be re-seeded at the contractor's own expense.

The operation should be carried out in equal sowings and transverse directions and the seed shall be raked or harrowed in. Sowing shall be at the rate of 50 grammes per sq.m, and overseeding shall be at a rate of 20 grammes per sq.m.

Seed Mix

The seed mix shall be A22 mix, obtainable from Germinal Seeds GB.

Grass seed shall be of the composition, purity and germination as specified in BS:4428: 1989. Certificates of purchase shall be provided for all deliveries prior to the sowing of grass seed stating source, mixture, purity and germination percentage.

Alternative cultivars of the above species may only be used if approved by the landscape architect.

Protection of Newly Seeded Areas

All reasonable precautions shall be taken to ensure that pedestrian and other traffic does not cross the grass areas during cultivation, seeding or until grass is established. Where obvious 'Short cutting' is occurring, the contractor shall erect an approved temporary fence so as to minimise the maintenance period or until such time as it is no longer necessary, or as directed.

First Cut

When the grass is 100mm high, it shall be cut down to 50mm so as to avoid root pulling. If the grass has been allowed to grow any longer than 100mm then the cuttings shall be raked off and taken off site.

Second Cut

When the grass is 65mm high a second cut shall be carried out using a rotar mower. No more than one third of the foliage must be removed.

Subsequent Cuts

Thereafter, when the grass grows to 100mm high, it shall be cut down to 50mm with a flail/rotar mower, until the end of the maintenance period, or longer if so directed. The grass shall be cut on a regular basis if so directed.

Making Good

Any defects such as shrinkage, ponding, sparse germination or disease shall be made good and re-seeded all as above.

Damage to Existing Grass

The contractor will be responsible for cultivating, seeding and maintaining, as above all areas of existing turf that are damaged during the course of the works for reasons of storage, working areas, transport of materials excepting those areas which are specifically defined and measured in the contract.

Any areas, which in the opinion of the Landscape Architect, are consolidated during the course of these works, shall be fissured with a ripper or other suitable implement to ensure adequate drainage through the sub soil (see clause 8.6)

Logo added	June 17	A	JW
Rev	Date	Rev	Dwn

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Project
CHATBURN ROAD, CLITHEROE

McDERMOTT HOMES

Title
LANDSCAPE PROPOSALS

Date	Scale(s)	Dwg no	Rev
May 17	1:250 @ A0	5493.01	A

Dwn	Chkd
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