

1:250 INSET TO SHOW NATIVE HEDGE



Native Hedge Mix (5/lin m double)  
 11nr Acer campestre  
 11nr Corylus avellana  
 115nr Crataegus monogyna  
 23nr Ilex aquifolium  
 34nr Ligustrum vulgare  
 11nr Rosa canina  
 23nr Sambucus nigra

Native Hedge Mix (5/lin m double)  
 24nr Acer campestre  
 24nr Corylus avellana  
 236nr Crataegus monogyna  
 47nr Ilex aquifolium  
 71nr Ligustrum vulgare  
 24nr Rosa canina  
 47nr Sambucus nigra

Native Shrub Mix 8 species (0.75ctr)  
 31nr Cornus sanguinea  
 41nr Crataegus monogyna  
 31nr Hedera helix  
 31nr Ilex aquifolium  
 10nr Lonicera periclymenum  
 20nr Rosa arvensis  
 10nr Sambucus nigra  
 31nr Viburnum opulus

Marginals Mix (7m2)  
 146nr Caltha palustris  
 295nr Eleocharis palustris  
 146nr Iris pseudacorus  
 148nr Juncus conglomeratus  
 295nr Juncus effusus  
 148nr Lychnis flos-cuculi  
 148nr Lythrum salicaria  
 148nr Mentha aquatica

Native Shrub Mix 8 species (0.75ctr)  
 61nr Cornus sanguinea  
 82nr Crataegus monogyna  
 61nr Hedera helix  
 61nr Ilex aquifolium  
 20nr Lonicera periclymenum  
 41nr Rosa arvensis  
 20nr Sambucus nigra  
 61nr Viburnum opulus

Marginals Mix (7m2)  
 68nr Caltha palustris  
 137nr Eleocharis palustris  
 68nr Iris pseudacorus  
 68nr Juncus conglomeratus  
 137nr Juncus effusus  
 68nr Lychnis flos-cuculi  
 68nr Lythrum salicaria  
 68nr Mentha aquatica

Native Shrub Mix 8 species (0.75ctr)  
 36nr Cornus sanguinea  
 49nr Crataegus monogyna  
 36nr Hedera helix  
 36nr Ilex aquifolium  
 12nr Lonicera periclymenum  
 24nr Rosa arvensis  
 12nr Sambucus nigra  
 36nr Viburnum opulus

POTENTIAL ACCESS TO ARRENUATION BASIN

**KEY**

- Proposed heavy standard (12-14cm girth) tree
- Proposed standard (8-10cm girth) tree
- Proposed native hedge
- Proposed mixed native species shrub planting
- Proposed mixed marginal planting
- Proposed wildflower meadow grass seed (eg. Emorsgate EM2)
- Proposed wetland wildflower grass seed (eg. Emorsgate EWR)
- Species rich grassland
- Proposed 450mm high timber trip rail (detailed by others)

**PLANTING DETAILS AND SCHEDULES**

**NATIVE SPECIES HEDGEROW**

Nr	Name	Height/cm	Age	Root	Pot/L
35	Acer campestre	60-80cm	1u1	BR	
35	Corylus avellana	40-50cm	1/0	BR	
351	Crataegus monogyna	40-50cm	1u1	BR	
70	Ilex aquifolium	50-60cm		C 2L	
105	Ligustrum vulgare	50-60cm	0/1	RB	
35	Rosa canina	50-60cm	1/1	BR	
70	Sambucus nigra	60-80cm	1/1	BR	

Hedge to be planted in a previously prepared trench, 500mm wide and 450mm deep backfilled with a 3:1 mix of multipurpose topsoil to BS3882:2007 and planting compost. Bareroot transplants to be dipped in a suitable mychorrhizal dip before planting. Plants to be planted in a double staggered row, 300-350mm wide, at 5nr plants per linear metre with species planted randomly throughout in groups of 7 to 30 of a single species. The hedge lines shall be mulched after planting with forest mulch to a uniform depth of 50mm. Where the hedge is to be planted within 10 metres of any house the hawthorn (Crataegus monogyna) shall be excluded from the mix.

**MARGINAL PLANTING**

Nr	Name	Root	Pot/L
216	Caltha palustris	Ce	5cm(0.2L)
432	Eleocharis palustris	Ce	5cm(0.2L)
216	Iris pseudacorus	Ce	5cm(0.2L)
216	Juncus conglomeratus	Ce	5cm(0.2L)
432	Juncus effusus	Ce	5cm(0.2L)
216	Lychnis flos-cuculi	Ce	5cm(0.2L)
216	Lythrum salicaria	Ce	5cm(0.2L)
216	Mentha aquatica	Ce	5cm(0.2L)

**NATIVE SPECIES SHRUB PLANTING**

Nr	Name	Height/cm	Age	Root	Pot/L
128	Cornus sanguinea	40-60cm	1/1	B	
172	Crataegus monogyna	40-60cm	1/1	B	
128	Hedera helix	40-60cm		C 2L	
128	Ilex aquifolium	60-80cm		C 3L	
42	Lonicera periclymenum	60-80cm		C 3L	
85	Rosa arvensis	30-40cm		B	
42	Sambucus nigra	60-80cm	1/1	B	
128	Viburnum opulus	40-60cm	1/1	B	

Native species shall be planted into 450mm depth, good quality clean topsoil incorporating organic compost and slow release fertiliser, over un-compacted sub-grade. Prior to planting all bareroot plant stock shall be dipped into a suitable mychorrhizal plant dip in accordance with the manufacturers recommendations. Plants shall be planted in groups of 3-11 of a single species with the taller growing species to the back of the areas of the areas and the lower growing species to the edges of the areas. Planted areas to be mulched after planting with coarse grade forest mulch to a uniform depth of 50mm.

**GRASS SEEDING**

**MEADOW AND SPECIES RICH GRASS SEEDING**  
 A variety of grassland habitats will be created incorporating species to attract locally important species and enhance the biodiversity of the site. Where appropriate the seeds should be of local provenance and locally sourced but based on the mixed specified below:  
**SPECIES RICH GRASS (Emorsgate EL1 or similar approved)**  
 Mixture EL1 contains slow growing grasses with a selection of wild flowers that respond well to regular short mowing.  
**GENERAL WILDFLOWER MEADOW (Emorsgate EM2 or similar approved)**  
 EM2 standard meadow mix contains the core meadow wild flower species which grow across a wide range of soils, and is a good foundation mix for landscaping and habitat creation. This meadow mixture is designed to create flower rich grassland with a particular emphasis on species which are known to be important as sources of pollen and nectar for bees, butterflies, hoverflies and other insects.  
**SUDS BASIN (Emorsgate EGB or similar approved)**  
 EGB contains species suitable for seasonally wet soils and is based on the vegetation of traditional floodplain and water meadows. Soils in wet meadows may flood for short periods in winter, but are usually well drained in summer.

**TREE SCHEDULE**

SPECIES	Ht in m	NUMBERS REQUIRED	
		2.5-3.0	3.5-4.25
	Girth in cm	8-10	12-14
Acer campestre (Ac)		3	-
Alnus glutinosa (Ag)		3	3
Betula pendula (Bp)		3	-
Carpinus betulus (Cb)		2	2
Malus sylvestris (Ms)		4	-
Quercus robur (Qr)		4	-
Sorbus aucuparia (Sau)		4	3

All trees to have clear stems to 1.8m above ground level with well developed branching heads with a single, central leader and healthy, fibrous root systems. Trees shall be either container grown or rootballed in accordance with season of planting. Trees shall be planted into pits of an appropriate size to accommodate the root system without restriction, backfilled with a 3:1 topsoil:compost mix and shall be secured to a machine rounded stake using 1 no. tree tie with rubber spacer. Finished height of stake shall not exceed 1/3 height of staked tree above ground. Foundation design of new buildings shall accommodate proposed tree planting in accordance with NHBC guidelines.

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	<p>project <b>Residential Development</b></p> <p><b>MERCHANTS FIELDS, CLECKHEATON</b></p>
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