KEY:

- Existing Vegetation Retained
- Standard Tree
- Extra Heavy Standard Tree
- Grass
- Wildflower Meadow
- Native Planting
- Ornamental Planting
- Privet Hedge
- Beech Hedge
- Attenuation Pond
- Marginal Planting
- Tarmac Road
- Tarmac Footpath
- Block Paving
- Slab Paving
- 1.8m High Close Boarded Fence
- Site Boundary

ECOLOGICAL ENHANCEMENTS

- (A) Insect Block (3no.)
- (B) 32mm Bird Box (4no.)
- (C) Hedgehog Hotel (2no.)
- (D) Hedgehog Hole 13x13cm
- (E) Bat Tube
- (F) House Sparrow Nest Box
- Log Pile Hibernacula (2no.)



IMPLEMENTATION PROGRAMME:

First planting season following construction

LANDSCAPE MANAGEMENT:

Site Owner to implement 5-year management plan to cover the following regular, seasonal and annual maintenance operations:

Trees:
Water monthly April to September in periods of drought
Inspect trees annually in winter
Undertake formative pruning of young trees to encourage good growth and shape - As required.
Following strong winds, re-firm base and check tree stakes for stability. - As required
Check tree ties on new tree planting and replace/loosen/remove as necessary
Apply slow release fertiliser to base of each tree; 50g per new tree. - Annual, Mar-Apr

Shrubs:
Remove litter
Water monthly April to September in periods of drought
Maintain plant beds weed free
Remove dead plants
Trim planting to prevent encroachment onto paths
Prune planting clear of all signage and sightlines
Prune beech/privet hedges once annually
Firm up rocked plants
Eradicate any occurence of Japanese Knotweed

Meadow Grass
Cut twice annually in spring and autumn
Remove litter

Plant failures
Replace any dead plants in following planting season (Nov - Mar).

MANAGEMENT FOR BIODIVERSITY ENHANCMENT AREA

Meadow:

- Year 1 - If sown in Autumn first cut late March / early April when achieving 100-150mm sward. Cut to 50-70mm. Remove arisings. If sown in Spring first cut after 6 weeks to 50-70mm. Further cuts if achieving 100-150mm. Final cut in September. Remove arisings.
- Subsequent years cut on a annual basis in August. Remove arisings
- Remove persistent weeds either by hand digging or spot treat with herbicide

Marginal Planting:

- Meadow cutting to ensure that marginal plants are contained outside of meadow area.
- Any reeds to be reduced by 25% every 5 years.

Habitat Boxes:
- Lost / damaged bird / boxes should be replaced as necessary (by a suitably qualified individual). Annually. (September – February).
- Inspect bird boxes to ensure vegetation has not grown over box. Clean out old nesting material and remove un-hatched eggs and throw away (by suitably competent person) Annually. (November – February).
- Relocate bird boxes to different location if showing no signs of use.
- Top up of log pile hibernacula (by suitably competent person). (September – February).
- Inspect Hedgehog Box and Holes. Bi-anually.

MARGINAL PLANTING

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	Mix %	No./m²	Area m²	Number
Caltha palustris			9cm	Established root 2-3 months min.; Sept to April planting; British native-origin				6
Alisma plantago-aquatica			9cm	Established root 2-3 months min.; Sept to April planting; British native-origin				3
Myosotis scorpiodes			9cm	Established root 2-3 months min.; Sept to April planting; British native-origin				6
Lycopus europaeus			9cm	'Plug; established root 2-3 months min.; Sept to April planting; British native-origin				3
Planted in aquatic compost in hessian sacks and secured to margins								
Callitriche stagnalis			Bunches					6
Myriophyllum spicatum			Bunches					6
Hydrocharis morsusranae			Bareroot					6
Supplier:Naturescape.co.uk				Sub-totals				**36**

ORNAMENTAL SHRUB MIX A

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	Mix %	No./m²	Area m²	Number
Berberis thunbergii 'Atropurpurea Nana'	25-30		5L	Branched; 5 brks	10	3		45
Choisya 'Atec Pearl'	30-40		3L	Bushy; 5 brks	15	3		68
Geranium macrorrhizum 'Album'			2L	Full pot	15	4		91
Lonicera pileata	30-40D		3L	Bushy; 6 brks	15	3		68
Potentilla fruticosa 'Red Ace'	25-30D		3L	Bushy; 4 brks	15	3		68
Pyracantha coccinea 'Red Cushion'	20-30D		2L	Bushy; 3 brks	10	3		45
Viburnum davidii		20-30	3L	Bushy; 3 brks	20	3		91
				Sub-totals	**100%**		**151**	**476**

ORNAMENTAL SHRUB MIX B

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	Mix %	No./m²	Area m²	Number
Aucuba japonica		20-30	2L	Bushy; 3 brks	15	3		38
Bergenia 'Sunningdale'			2L	Full pot	10	5		43
Cornus alba 'Sibirica'		40-60	2L	Branched; 3 brks	15	2		26
Geranium x oxonianum 'Wargrave Pink'			2L	Full pot	15	4		51
Hypericum calycinum		20-30	2L	Bushy; 6 brks	15	4		51
Prunus laurocerasus 'Otto Luyken'		20-30	2L	Bushy; 3 brks	15	3		38
Skimmia japonica		20-30	2L	Bushy; 3 brks	15	4		51
				Sub-totals	**100%**		**85**	**298**

ORNAMENTAL SHRUB MIX C

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	Mix %	No./m²	Area m²	Number
Anemone x hybrida 'Honorine Jobert'			2L	Full pot	15	4		25
Ceanothus 'Blue Mound'	20-30D	20-30	2L	Branched; 4 brks	15	3		18
Choisya ternata 'Sundance'		20-30	2L	Bushy; 3 brks	10	4		16
Euonymus fortunei 'Emerald Gaiety'	20-30D	20-30	3L	Bushy; 7 brks	15	3		18
Hebe pinguifolia 'Pagei'	20-30D		3L	Bushy; 5 brks	20	3		25
Philadelphus 'Manteau d'Hermine'		20-30	2L	Branched; 3 brks	10	4		16
Viburnum davidii		20-30	3L	Bushy; 3 brks	15	3		18
				Sub-totals	**100%**		**41**	**136**

TREES

Abbrev.	Name	Girth/Dia. cm	Height cm	Root Zone	Specification	Number
Bpe	Betula pendula	8-10	250-300	RB	2x; Std; clear stem 175-200cm; 3 brks	4
Cb'F'	Carpinus betulus 'Fastigiata'	8-10	250-300	RB	2x; Std; clear stem 175-200cm; 3 brks	6
Pa	Prunus avium	8-10	250-300	RB	2x; Std; clear stem 175-200cm; 3 brks	4
Pa'P'	Prunus avium 'Plena'	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	5
Pc'C'	Pyrus calleryana 'Chanticleer'	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	4
Sa	Sorbus aucuparia	8-10	250-300	RB	2x; Std; clear stem 175-200cm; 3 brks	4
S'JR	Sorbus 'Joseph Rock'	14-16	400-450	RB	3x; EHS; clear stem 175-200cm; 5 brks	5

BEECH HEDGE 80-100CM (DOUBLE STAGGERED ROW)

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	m Ctrs	Area m²	Number
Fagus sylvatica		80-100	B	1+2; Transplant - seed raised	0.5	23	92
No. of rows : Width m	2	0.5					

PRIVET HEDGE 80-100CM (DOUBLE STAGGERED ROW)

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	m Ctrs	Area m²	Number
Ligustrum ovalifolium		80-100	B	0/2; Cutting; branched; 5 brks	0.25	89	712
No. of rows : Width m	2	0.5					

ORNAMENTAL SHRUB MIX D

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	Mix %	No./m²	Area m²	Number
Alchemilla mollis			2L	Full pot	10	3		20
Berberis wilsoniae		30-40	3L	Bushy; 4 brks	15	3		31
Choisya ternata 'Sundance'		20-30	2L	Bushy; 3 brks	15	4		41
Cornus sanguinea 'Midwinter Fire'		40-60	2L	Branched; 3 brks	15	4		41
Euphorbia amygdaloides robbiae			2L	Full pot	15	5		51
Hypericum 'Hidcote'		20-30	2L	Bushy; 3 brks	15	3		31
Prunus laurocerasus 'Otto Luyken'		20-30	2L	Bushy; 3 brks	15	3		31
				Sub-totals	**100%**		**68**	**246**

NATIVE SHRUB MIX E

Name	Girth/Dia. cm	Height cm	Root Zone	Specification	Mix %	No./m²	Area m²	Number
Cornus sanguinea		40-60	2L	Branched; 3 brks	16.67	3		54
Crataegus monogyna		60-80	3L	1+1; Transplant - seed raised; branched; 4 brks	16.67	1		18
Euonymus europaeus		40-60	3L	Branched; 4 brks	16.67	2		36
Ilex aquifolium		30-40	2L	Bushy; 2 brks	16.67	3		54
Prunus spinosa		40-60	2L	Branched; 3 brks	16.67	2		36
Viburnum opulus		40-60	2L	Branched; 3 brks	16.67	2		36
				Sub-totals	**100%**		**107**	**234**


(A) Woodstone Insect Block


(B) Vivara Pro Seville 32mm Woodstone Nesting Box


(C) Woodstone Hedgehog House


(E) Vivara Woodstone Bat Tube


(F) Vivara Woodstone House Sparrow Box

OUTLINE SPECIFICATION:

GENERAL
All works to be in accordance all relevant British Standards and the Landscape Consultant's planting plans and specification (to be issued) and in compliance with the National Landscape Specification (NBS) 1998, latest revision.

SETTING OUT
All dimensions and levels should be checked and adjusted on site. Contractor responsible for care around all services. Do not scale from this drawing.

SITE PREPARATION
Building rubble in excess of 50mm dimension to be removed, compaction ripped 150mm deep or broken out by JCB back-actor leaving surface rough. Ensure free drainage.

TOPSOIL
Multipurpose topsoil BS:3882 medium loam, not more than slightly stoney, pH 5.7-7.5.
Depth 450mm all planting areas. 150mm to all other areas.
Provide Declaration of Analysis of topsoil to Employer's Agent.

TOPSOIL - MEADOW
Specific purpose topsoil to BS:3882, low fertility. 150mm depth to be used. Supplier to provide certification of testing.

TREE PIT
75 mm deeper than root system and wide enough to accommodate roots when fully spread
OR
Standard 900mmØ x 600mm depth
Extra Heavy Standard 1200mmØ x 750mm depth

PREPARATORY HERBICIDE
Weed allowed to grow and treated with up to three applications of weed killer prior to cultivation or planting during the fallow period.

GRASSING
Grassing between April-October.
Cultivate to prepare seed bed. Finished seed bed levels 25mm above pavings and kerb edges. Stones pick to 25mm. Pre-seeding fertiliser 50g/m2. Grass mix chosen for low maintenance requirements:-
GRASS SEED MIX from DLF Trifolium Tel: 01386 791102:
LAWN 'Pro 50 Quality lawn (with Ryegrass)'
MEADOW: Pro flora 8 'Legacy Country Meadow' (General Purpose)

PLANTS
General
Plant material in accordance with the HTA's National Plant Specification 1997. All plants container grown, well formed and free from disease. Plant handling to CPSE Plant Handling Code.

Quality as supplied by:
Johnsons of Whixley Ltd, York YO26 8AQ. Tel: 01423 330234.
Or other nursery listed in the Horticultural Trades Association Nursery Certification Scheme.

Planting
Plant November to March.
Planting areas cultivated 150 mm deep and stone picked of material greater than 50mm. Plant material pit planted 300 x 300 x 200 minimum. Approved planting compost incorporated into the soil during planting.

Backfill mix	Enmag	P4	Compost
Shrubs	35g	5g	10 litres
Standard	50g	25g	50 litres
Extra Heavy Standard	75g	50g	75 litres

Backfill mix (30%) incorporated into topsoil (70%) during planting.

TREE STAKING

Standard -Short Single Staking
Short staked using Unilog painted black 75mm min diameter. Driven vertically 450mm on windward side into base of pit. Secured with rubber J Tom's 37.5mm wide standard nylon reinforced rubberbelt ref L2 ties including rubber spacer pads ref L1. Tie within 25mm of top of stake.

Extra Heavy Standard -Short Double Staking
Preserved softwood 100mm min diameter. Driven vertically 450mm into base of pit on either side. Cross bar - timber, as stake.Secured with rubber J Tom's 37.5mm wide standard nylon reinforced rubberbelt ref L2 ties including rubber spacer pads ref L1.

MULCH
Total cover coarse bark mulch to shrub areas, Melcourt Bark Nuggets 75mm deep.

AFTERCARE
24 months aftercare by planting contractor. Including grass and meadow cutting, weed, pest and disease control, pruning and watering. Weed control by residual herbicide or hand weeding as necessary to achieve a weed free condition. Watering in periods of drought to ensure establishment and continued thriving of planting.

DEFECTS LIABILITY
Twenty-four months on plant material and grass. Replacements in November in year of loss.

ONGOING MAINTENANCE
Continue to maintain for five years from completion of planting by hand weeding and spot treatment of weed killer to any weed in planted areas until plants close canopies. Replace failures for 5 years.

REVISIONS:
A - Road and driveway surfacing updated. TB 26-07-2021
B - Additional boxes added/marginal updated. NN 25-10-2021
C- Updated Proposed Layout. KP 01-02-2022

Based on drawing no. EC-29-20P Proposed Site Layout Plan dated 18.01.2022 from Eton Construction

Weddle Landscape Design
LANDSCAPE ARCHITECTURE
ENVIRONMENTAL PLANNING
Mews Studio, Charnwood House, Tel (0114) 250 1181
8 Kenwood Bank, Sheffield S7 1NU Fax (0114) 250 1188
www.weddles.co.uk mail@weddles.co.uk

Job
CEMETRY ROAD, HEMINGFIELD

Title
LANDSCAPE MASTERPLAN AND BIODIVERISTY ENHANCEMENT PLAN

scale@A1	drawn	date	job number	number	revision
1:250	PM	JUL 21	1263	CRH 04	C