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LEGEND

- Grass seed (British Seed Houses A23)
- Existing trees to be maintained
- Hedge and copse planting as part of grain store application
- Existing hedgerows to be maintained
- NATIVE HEDGE — Small size stock planting for habitat creation and screening to boundary
  - Crataegus monogyna B 80-100 1+1 20%
  - Sambucus nigra B 80-100 1+1 10%
  - Ilex aquifolium C 60-80 1+1 10%
  - Prunus spinosa B 80-100 1+1 15%
  - Euonymus europaeus B 60-80 1+2 5%
  - Corylus avellana B 60-80 1+2 15%
  - Acer campestre B 80-100 1+1 15%
  - Cornus sanguinea B 60-80 1+1 5%
  - Viburnum opulus B 60-80 1+1 5%
  - Rosa rubiginosa B 60-80 1+1 5%
- NATIVE THICKET: TOTAL AREA - 8570 m2 — Small size stock planting for habitat creation and screening. 1+1 Transplants 1 per 1m²
  - Crataegus monogyna B/C 80-100 1+1 20%
  - Malus sylvestris B/C 80-100 1+1 20%
  - Ilex aquifolia C 60-100 1+1 10%
  - Prunus spinosa B/C 80-100 1+1 10%
  - Corylus avellana B/C 80-100 1+1 15%
  - Acer campestre B/C 80-100 1+1 15%
  - Viburnum opulus B/C 80-100 1+1 5%
  - Quercus robur B/C 80-100 1+1 10%
- Tilia x europaea 14-16cm
- Quercus robur 14-16cm
- Fagus sylvatica 14-16cm

Red line indicates existing hedges. Refer to maintenance notes for enhancement and maintenance regime.

Stock	Quantity	Item	Size	Height (cm)	Notes		Density/m 2
Tree Planting							
	2	Fagus sylvatica	14-16 Girth	425-600	5 breaks 3x standard (extra-heavy) clear stem 175-200		as dwg
	3	Tilia xeuropa	14-16 Girth	425-600	5 breaks 3x standard (extra-heavy) clear stem 175-200		as dwg
	3	Quercus robur	14-16 Girth	425-600	5 breaks 3x standard (extra-heavy) clear stem 175-200		as dwg
Native Hedge Planting							
Native Hedge Mix 450mm centres, 2 staggered rows - Random Mix			% mix				
	326	Crataegus monogyna	20%	80-100cm	Transplant (seed-raised), 1+1	B	450cts
	163	Sambucus nigra	10%	80-100cm	Branched 3, breaks 1+1	B	450cts
	163	Ilex aquifolium	10%	60-80cm	3L, Leader with lateral	C	450cts
	163	Prunus spinosa	10%	80-100cm	Transplant (seed-raised), 1+1	B	450cts
	163	Euonymus spinosa	10%	60-80cm	Branched 3, breaks 1+2	B	450cts
	243	Corylus avellana	15%	60-80cm	Branched 3, breaks 1+2	B	450cts
	163	Acer campestre	10%	80-100cm	Transplant (seed-raised), 1+1	B	450cts
	82	Cornus Sanguinea	5%	60-80cm	Branched 3, breaks 1+2	B	450cts
	82	Viburnum opulus	5%	60-80cm	Branched 3, breaks 1+2	B	450cts
	82	Rosa rugosa	5%	60-80cm	Branched 3, breaks 1+1	B	450cts
	1630						
Grass Seed							
	8566m2	Supply and install British Seed Houses A22 Grass seed					
Native Thicket Planting							
Native thicket planting - random single species groups of 3 - 7 plants, 1 per 2m2 - total area 7728m2			% mix				
	772	Crataegus monogyna	20%	80-100cm	Transplant (seed-raised), 1+1	B	1m2
	579	Malus sylvestris	15%	80-100cm	Transplant (seed-raised), 1+1	B	1m2
	386	Ilex aquifolium	10%	60-80cm	3L, Leader with lateral	C	1m2
	386	Prunus spinosa	10%	80-100cm	Transplant (seed-raised), 1+1	B	1m2
	579	Quercus robur	15%	80-100cm	Transplant (seed-raised), 1+1	B	1m2
	579	Corylus avellana	15%	60-80cm	Branched 3, breaks 1+2	B	1m2
	386	Acer campestre	10%	80-100cm	Transplant (seed-raised), 1+1	B	1m2
	201	Viburnum opulus	5%	60-80cm	Branched 3, breaks 1+2	B	1m2
	3868						

PLANTING NOTES

1. Plant handling at the nursery, and during transit up to delivery , shall be in accordance with 'Plant Handling', the booklet published by the Committee for Plant Supply and Establishment (CPSE). The contractor shall comply with clauses 3 & 4 of the above booklet (obtained from the Horticulture Trades Association) which refers to the receipt, unloading and temporary storage of plants.
2. Plants shall be first class examples of their species or variety, free from all pests and diseases with good fibrous root systems and materially undamaged. (Refer to relevant sections of BS3936 Parts 1-4 'Specification of Nursery Stock')
3. All planting is to be in general compliance with BS4428: 1989 'Code of Practice for general landscape operations (excluding hard surfaces)'.
4. The landscape contractor must ascertain for himself the exact location of any underground services and maintenance points
5. All work to be carried out when soil and weather conditions are suitable. Planting to be carried out between November and March, avoiding planting in very cold or wet weather, periods of frost or strong winds.
6. Vegetation on proposed planting areas to be sprayed off with glyphosate systemic herbicide at least two weeks prior to planting operations
7. Imported topsoil to be General Purpose grade to BS3882:2007 - Specification for Topsoil. Topsoil to planting & hedging areas to be 450mm deep. Topsoil to grass seeded/turfed areas to be a minimum 150mm depth after light firming.
8. All plant stock and trees to be watered as necessary to ensure the establishment and continued thriving of planted matter.
9. All planting beds to be mulched with 75mm of good quality wood chip mulch free of weed seeds and any deleterious material.

Thicket Planting / Woodland Planting
Generally clear any surface vegetation in proposed woodland and thicket areas, utilising proprietary herbicide where appropriate and install plants into isolated pre-prepared planting pits, generally 300 x 300 x 450mm deep or 200mm greater than the rootstock, whichever is greater, backfilling with either existing retained site sourced topsoil (free from weeds) or imported topsoil (sandy loam, General Purpose grade to BS3882:2007) or a combination of the two as necessary.
Incorporate a soil conditioner/amelioriant in the form of peat free tree and shrub compost or well rotted spent mushroom compost into backfill material at the rate of 5L per pit, Incorporating a slow release fertiliser e.g. Enmag (or similar approved) at a rate of 5g per pit.
Ensure planting conforms to planting matrix where appropriate and in all other areas appears random / natural and not formal in accordance with the planting proposal layouts.

Native Hedge Planting
Plant hedges into pre-prepared planting trenches, 500-600mm wide for double rows. Planting strips to consist of topsoil to a depth of no less than 450mm, mixed with soil conditioner as specified below.
Topsoil to be either; existing retained site sourced topsoil (free from weeds) or imported topsoil (Multi-purpose grade to BS3882:2007) or a combination of the two as necessary.
Incorporate a soil conditioner/amelioriant in the form of peat free general-purpose shrub compost or well rotted spent mushroom compost along planting trench in a 50mm layer at the rate of 300g per m2, and incorporate to a depth of 225mm.
Ensure planting strips are deep enough as to be 200mm greater than the root depth of the supplied plant stock.
All hedge planting areas to be dressed with a minimum 50mm mulch layer, consisting of medium chipped tree bark, composted for 2-4 weeks, particle size 15-50mm.
Hedges to be supported by min. 1000 high timber post and wire fence, consisting of min. 75mm diameter x 2000mm long, rounded timber posts, driven in at 2000mm centres with 3No. galvanised wire supports evenly spaced along the vertical axis of the post. Corner posts and/or straining posts are to be additionally supported by 45° angled, 50mm diameter timber struts.

Plant Protection
All bushy thicket shrubs to be protected by min. 600mm high x 170-200mm diam, proprietary plastic mesh shrub shelters / guards and secured in place with treated softwood timber stake and plastic cable ties.

Grass seeding
Apply herbicide suitable for suppressing perennial weeds and allow fallow period to manufacturers recommendation before cultivation.
Break up compacted topsoil to full depth. Apply soil ameliorant/ conditioner/ fertilizer and fully incorporate into topsoil to a depth of 150 mm. Reduce topsoil to a tilth suitable for blade grading, to a depth of 150mm with maximum particle size of 16mm. Remove stones and clay balls larger than 50 mm in any dimension, roots, tufts of grass, rubbish and debris.
Topsoil condition should be reasonably dry and workable before grading commences. Contours should be smooth and flowing with no hollows or ridges, with falls for adequate drainage. Finished levels after settlement should be 25 mm above adjoining paving, kerbs, manholes etc.
Apply both Superphosphate with a minimum of 18% water soluble phosphoric acid and a sulfate of ammonia with a minimum of 20% nitrogen. Apply before final cultivation and three to five days before seeding/turfing. Spread evenly, each type at 70 g/m², in transverse directions.
After grading and fertilizing, reduce seed bed to fine, firm tilth of 25mm depth with good crumb structure. Rake to a true, even surface, friable and lightly firmed but not over compacted and remove surface stones/earth clods exceeding 20mm
Supplier DLF Trifolium, mixture reference Pro 60 or similar at application rate of 35-50g/m².
Establish good seed contact with the root zone, distributing 2 equal sowings at right angles to each other and diagonally to main axis. Sow grass seed generally from April to June or August to October.

MAINTENANCE NOTES

1. Maintenance is to be carried out on a monthly basis (3nr annual visits) At each visit the following operations are to be carried out:

- **check and firm all planted material. Also check materials after stormy or windy conditions.**
- **check for pests and diseases and treat appropriately**
- **remove all weeds and unwanted material via a combination of chemical and hand weeding operations as appropriate**
- **pick up all litter and remove all arisings from site**
- **sweep all paths and roadways and dispose off site**
- **remove any dead material from site**
- **water as necessary to ensure the continuing health of all plants**
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2. Carry out the following operations every 6 months:

- **apply an approved fertilizer to all planted material during spring and autumn**

3. Carry out the following operations annually:

- **replace any material which has failed over the previous 12 months. All replacements are to be as originally specified and the replacements schedule is to be agreed with the CA prior to implementation. Any deviation from the species list to be agreed with the CA**

4. Existing hedgerows

- **Existing hedgerows as indicated by the red line to be allowed to grow to a minimum of 2.5m.**
- **Any gaps greater than 1m to be infilled with hedge planting mix as specified in the plant schedule.**

REV	DATE	COMMENTS	CHK	APP
H	29/05/13	Planting and lagoon amended to meet HCC Landscape officers requirements as per site visit 28.05.13	MJ	
G	21/05/13	Form of bio-fertiliser lagoon altered, additional planting added to around lagoon	MJ	
F	21/05/13	Amendments to reflect planners requirements. Carpinus in thicket replaced for Malus as feeding plant for badgers	MJ	
E	15/05/13	Grain Store and associated works added	MJ	
C	10/05/13	Minor amendments	MJ	
D	07/05/13	Entrance from highway amended to accept visibility splay	MJ	
C	01/05/13	Access road realigned, laybys hedge amended	MJ	
B	26/04/13	Operational yard reconfigured and access road realigned	MJ	
A	22/01/13	Operational yard reconfigured	MJ	

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PROJECT:	HARTLEY PARK FARM
TITLE:	PLANTING PLAN
CLIENT:	BARFORT ENERGY
SCALE: 1:1250@A1	DATE: 14/05/2013
JOB NO: 1070	DWG NO: 1070_PP_300
STATUS: PLANNING	REV: I