

Planting Schedule:

Heavy Standard Trees table with columns: No. Species, Specification, Location. Includes species like Quercus robur, Alnus glutinosa, Betula pendula, Sorbus aucuparia.

Feathered Trees - Woodland Buffer Areas table with columns: Area, Species, Specification, Location, Ratio. Includes species like Acer campestre, Crataegus monogyna, Corylus avellana.

Native Shrubs - Woodland Buffer Areas table with columns: Area, Species, Specification, Location, Ratio. Includes species like Prunus spinosa, Rosa canina, Sambucus nigra, Ilex aquifolium, Salix caprea.

Native Mix Hedge Planting table with columns: Quantity, Species, Specification, Density. Includes species like Hawthorn, Dog Rose, Field Maple, Dog Rose, Bird Cherry, Field Maple.

Seed Mixes
Seed mixes below are as recommended by Green Farm Seeds Ltd., Green Farm, Newent, Gloucestershire. GL18 1JU T: 01531 822833 www.greenfarmseeds.com. Final seed mixes are to be approved by an ecologist to best suit the soil and site conditions and supplied as directed.

Species Rich Grassland and Wildflower Mix (Sowing rate 35kg / hectare) and Species Rich Grassland and Wildflower Mix (Sowing rate 20kg / hectare) tables with columns: Species, Percentage.

Outline Landscape Specifications:
Existing Vegetation: Any necessary works being undertaken within close proximity and to the retained tree lined hedgerows should be carried out in accordance with BS 3998:2010 Tree work Recommendations, BS 5837:2012 Trees in Relation to Design Demolition and Construction and in consultation with an arborist.
Proposed Planting: Planting to be supplied in accordance with BS 3936-1:1992 Nursery Stock, specification for trees and shrubs, BS 3936-4:2007 Nursery Stock, Specification for forest trees, poplars and willows, BS 8545:2014 Trees from nursery to independence in the landscape. All landscaping works to be in accordance with BS4428:1989 "General Landscaping Works". All planting should be sourced from local provenance certified seed stock where possible with other sources needing to be approved.

TOP SOIL
Imported topsoil should comply with BS 3882:2015 and be spread to a depth of 150mm throughout all turf areas. Topsoil shall be laid over a minimum 300mm depth of subsoil if available on site. For tree pits see detail and for shrubs, topsoil should be spread to a depth of 450mm over suitable sub-soil.

PLANT MATERIAL
All plant material to be grown in UK, inspected by LA and approved at the growing nursery or on site before incorporation in the works. All top soil must comply with full and detailed LA specification.
All shrub areas to receive 75mm thick layer of medium grade bark mulch on completion, particle size 10-65mm to be spread after watering.

HEAVY STANDARD TREE PLANTING
Heavy standard trees to be planted into prepared pits of approved topsoil 600 x 600 x 450mm deep. Any compacted material at the base of the pit to be forked a further 300mm to provide demonstrable drainage. Backfill to consist of topsoil in accordance with the above spec. with 25% Treestart Peat-Free planting compost and incorporated with 500g of Broadleaf P4 granules. Sierrablenn Flora Tablets slow release fertiliser incorporated into the tree pit at a rate of 10 tablets per tree, placed at the side of the root zone halfway up the backfill, no deeper than 20cm and distributed evenly around the rootball. Heavy standard trees to be secured with 50mm special nylon reinforced belt to Tom's big block secured to a 75mm dia stake. Cross bar to be secured to two 75mm dia, 3200mm long turned larch stakes positioned either side of the rootball. Stakes to be driven to a min. 1500mm into the ground. Any excess on the stakes shall be cut and once weathered at 45°. Each tree shall have a 50mm dia. wavin coil watering and aeration pipe around the rootball. The pipe shall have a cap which shall flush with the surface.

FEATHERED TREE PLANTING
Feathered trees to be planted into prepared pits of topsoil 500x500x450mm deep. It is assumed that topsoil is present on site however this may need to be supplemented with imported material if soil is not available to the depth required. Any compacted material at the base of the pit to be forked a further 200mm to provide demonstrable free drainage. Backfill to consist of site excavated topsoil with 25% Treestart Peat-Free planting compost incorporated. Sierrablenn Flora Tablets slow release fertiliser incorporated into the tree pit at a rate of 5 tablets per tree, placed at the side of the root zone halfway up the backfill, no deeper than 20cm and distributed evenly around the roots. Trees to be secured by a single rubber tree tie with spacer to one 60mm dia. turned larch tree stake 1200mm long driven 600mm into the ground. Stakes to be once weathered at 45degrees.

HEDGE PLANTING
Hedging planted into a trench measuring a min of 600mm wide and 300mm deep, allowing enough width and depth for the roots and graded to running levels with the removal of debris. Short lengths of individual whip infilling may be undertaken by slit planting. The existing soil should be improved by digging in well rotten Farm Yard Manure or other soil improver 200mm deep into the topsoil. Transplant bareroot hedging will be protected by a clear spiral rabbit guard 600mm high 38mm dia. supported by a bamboo cane and 1m wide mulch matting on completion of planting. Water well upon completion. Remove instant hedge from trough if non-biodegradable, otherwise slit the hedge and trough into the trench (min. 250mm deep) and fertilise, backfill and water as above. Protect instant hedge by securing the area with rabbit netting if required. Where hedgerows are proposed to outside of proposed fencing, offset the hedgerow by 2m to allow for maintenance. Temporary stock proof fencing of 1.2m high should be used to prevent grazing of new hedgerows by livestock if necessary. Any planting being carried out within the ecological constraints buffer area to be hand dug and supervised by the ECOW.

Grassland & Wildflower Seeding:
The disturbed areas of grassland will be sown with mixes as indicated by the key, which will be lightly grazed by sheep or maintained by cutting. The areas of wildflower mix will be separated from this grassland by a stock-proof fencing to prevent any possible grazing by animals. A strained wire and wire mesh netting fencing system with single gate entrance to be erected to exclude livestock (eg. cattle and sheep) and to allow access for maintenance.

It is occasionally necessary to remove topsoil to reduce fertility, re-use in tree pits on site. Remove and / or treat all weeds with herbicide. All areas to be grassed to be cultivated to a depth of 100mm. Soil graded to running levels and further cultivated to a fine till. Sowing can take place throughout the year, March/April and August/September are the most suitable. Mix seed to ensure even distribution, drill/broadcast seed at the rates as shown above. Sand can be used to bulk up small seeding rates, 4 parts silica sand to one part seed by weight. Rake/harrow in to a depth of approximately 0.5cm. Firm in seed with roller.

Timing & Aftercare:
Planting of the hedgerow mix to take place during the months of November to March preferably before January and instant hedging can be planted all year through. Plant at a time when the soil is not frozen or waterlogged. The new plants will be watered in at the time of planting and regularly during their first year. All tree and hedgerow species will have a minimum 1m wide radius free of any weeds until 3 years after planting, when they are well established. Weeding will be done using a mulch mat and either by hand or mechanical control as required in order to prevent competition for nutrients from weeds and grasses.

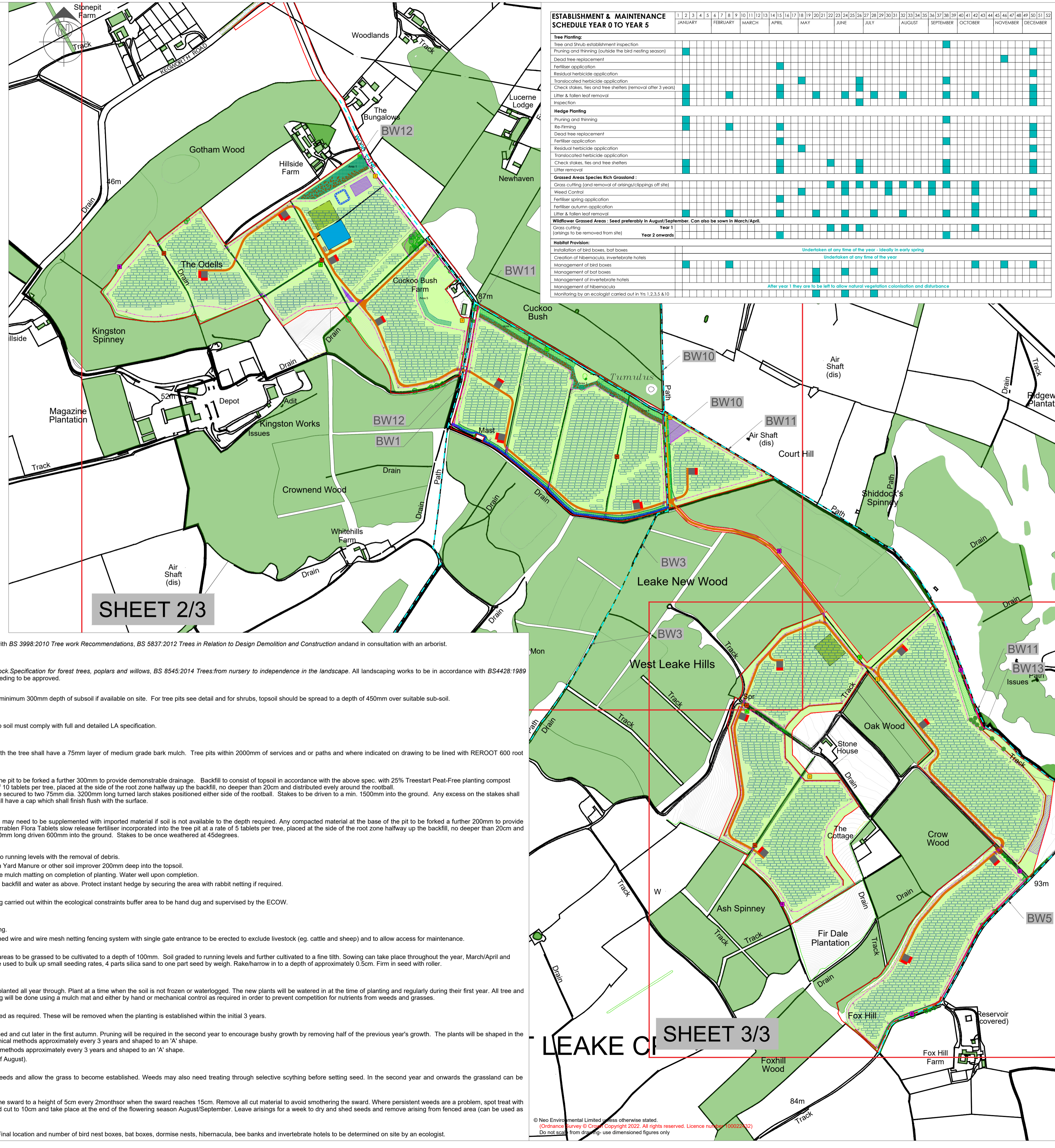
The planting supports and guards will be inspected regularly to ensure they are not impeding the plant's growth and will be adjusted or replaced as required. These will be removed when the planting is established within the initial 3 years.

Transplant bareroot hedgerow planting will be reduced by a third in height immediately after planting hawthorn, with other species lightly pruned and cut later in the first autumn. Pruning will be required in the second year to encourage bushy growth by removing half of the previous year's growth. The plants will be shaped in the third year by trimming both lateral and lead branches. Long-term management of the hedging will be to cut on a rotational basis using mechanical methods approximately every 3 years and shaped to an 'A' shape. Instant hedging only require a light trim to remove excess growth. Subsequent trimming will be to cut on a rotational basis using mechanical methods approximately every 3 years and shaped to an 'A' shape. All hedgerows will be maintained at c. 4m. All hedge cutting will be undertaken outside of the nesting bird period (beginning of March to end of August).

The species rich grassland will be managed by light grazing or cutting several times in the first year to reduce competition from annual weeds and allow the grass to become established. Weeds may also need treating through selective scything before setting seed. In the second year and onwards the grassland can be maintained by a light grazing regime through the year or by cutting.

The wildflower grassland areas, weed control measures to be implemented and reduce competition from vigorous grasses, if necessary cut the sward to a height of 5cm every 2 months or when the sward reaches 15cm. Remove all cut material to avoid smothering the sward. Where persistent weeds are a problem, spot treat with herbicide or dig-out. Long-term management after 12 months - cut to 7.5cm during March/April and remove arisings from fenced area. Second cut to 10cm and take place at the end of the flowering season August/September. Leave arisings for a week to dry and shed seeds and remove arising from fenced area (can be used as hay). Every year thereafter, cut February/March and remove arisings from fenced area.

Any loss of planting which occurs within 5 years of the initial planting as a result of plant failure will be replaced with the same plant species. Final location and number of bird nest boxes, bat boxes, dormise nests, hibernacula, bee banks and invertebrate hotels to be determined on site by an ecologist.



ESTABLISHMENT & MAINTENANCE SCHEDULE YEAR 0 TO YEAR 5. Calendar grid showing tasks like Tree Planting, Hedge Planting, Grassland Management, etc. across months from January to December for years 1 to 5.

Key

- Landscaping & Ecology Measures
Indicative Existing Hedgerow & Trees to be retained
Indicative Existing Vegetation to be Removed
Existing Bridleways
Proposed Permissive Path (Educational Route)
Proposed Native Instant Hedgerow
Proposed Native Hedgerow Planting
Proposed Native Hedgerow Infill Planting
Proposed Herptile Hibernaculum
Proposed Hedgehog House
Proposed Bird & Bat Boxes
Proposed Invertebrate Hotel
Proposed Species Rich Grassland Mix
Native Shrub Planting
Heavy Standard Native Tree Planting (Woodland)
Feathered Native Tree Planting (Woodland)
Heavy Standard Native Tree Planting
Proposed Grassland Strip
Proposed Wildflower Meadow Strip

- Site Features
DEVELOPMENT BOUNDARY
NEW ACCESS TRACK
EXISTING ACCESS TRACK TO BE WIDENED (WOOD LANE)
INDICATIVE SOLAR PV ARRAY
INVERTER
HARDSTAND
SUBSTATION COMPOUND
TEMPORARY CONSTRUCTION COMPOUND
SPARES CONTAINERS
FENCE LINE
GATE
CCTV COLUMN (SIZE SHOWN INDICATIVELY)
INDICATIVE INFILTRATION POND LOCATION

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Revision table with columns: Ver., Date, Comments. Includes entries for amendments to text & key, mitigation, and layout.

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Project: Kingston Solar Farm
Client: RES
Drawing: Landscape & Ecology Management Plan (1/3)

Project No.: NEO00763
Drawing No.: NEO00763_0471_C Figure 1.14a
Drawn: JM Checked: NB Approved: PN
Scale: 1:5,000 @ A1 Revision: C
Date: 27 January 2022

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