



KEY

Soft Works

- Site Boundary
- Indicative location of trees and vegetation to be Retained. Refer to Ecus Ltd Arboricultural Report (September 2022 ref 18618D V2.0) for full details.
- Indicative location of trees and vegetation to be Removed. Refer to Ecus Ltd Arboricultural Report (September 2022 ref 18618D V2.0) for full details.
- Proposed Native Hedge planting (including infill) to be maintained at 3m wide once established.
- Proposed Native / Semi-Native Shrub Mixes
- Indicative locations of areas for the incorporation of rushes within rush pasture area. Plug plant rushes retained from the site or from local donor site to encourage natural regeneration of rush pasture habitat.
- Proposed Tree-Extra Heavy Standard
- Proposed Tree-Feather
- Ground stripped and prepared (topsoil removed to reduce fertility), and seeded with a wildflower meadow mix tolerant of semi-shade (predominantly underneath solar panels), such as Emorsgate Seeds Hedgerow Mixture EH1, or similar approved. Meadow Mix to be suitable for grazing, if required.
- Ground stripped and prepared (topsoil removed to reduce fertility), and seeded with a wildflower meadow mix tolerant of periodic damp/waterlogged conditions, such as Emorsgate Seeds Pond Edge Mixture EP1, or similar approved. Meadow Mix to be suitable for grazing, if required.
- Existing grassland retained and enhanced. Managed as long grassland, with minimal management (annual cut). Overseeding where necessary with Emorsgate Seeds Hedgerow Mixture EH1, or similar approved. Minimal management of brambles along the boundaries, where present.
- A species rich wildflower mix to line the southern edge of the Site, alongside Snuff Mill Lane, containing *Lotus corniculatus* (Bird's foot trefoil), such as Emorsgate Seeds Special General Purpose Meadow Mixture EM3, or similar approved.
- Proposed Amenity Grass Seed (approximately 2m buffer around the periphery of substations to allow access and maintenance.
- Vegetation along existing ditches to be retained and cut back (annually if required), and managed.
- Track to be left 'as existing'.

Ecological Recommendations

- 1 x Suggested location for amphibian hibernacula, close the ditch. An overground earth bund hibernacula, approximately 2 m x 1 m x 1 m, composed of inert clean fill: log piles, dead wood and rubble loosely filled with topsoil, with a woodchip and turf capping. Margins are to be exposed, allowing access and surrounded by rough vegetation.
- 1 x Suggested locations for reptile hibernacula, close the railway. A partially underground / sunken hibernacula, approximately 2 m x 1 m x 1 m, composed of inert clean fill: log piles, dead wood and rubble loosely filled with topsoil, with a woodchip and turf capping. Margins are to be exposed, allowing access and surrounded by rough vegetation.
- Indicative locations for log and brash piles. Use logs from felled trees on site (untreated timber). Piles to be located in less disturbed parts of the site. Approx 2m length, 1m high, 1m deep.
- 2 x Insect Tower. e.g. Freestanding Bug Hotel by <https://www.springboardsupplies.co.uk/products/freestanding-bug-hotel>, or similar approved.
- 1 x. Hedgehog Home (sturdy wooden design) Position the hedgehog home at the base of mature scrub or hedgerow. For hedgehog nesting material, the hedgehog box can be filled with straw or dry leaves. Box to be microsit by an ecologist.
- Reinstated ephemeral pool (approximately 12000mm x 10000mm, & 300mm deep) in location of existing depre. The depression will allow for the periodic collection of water to for the benefit of amphibians. To be seeded with Emorsgate Seeds Pond Edge Mixture EP1, or similar approved, as per surrounding proposed meadow mix. Potential for part of the pool to be overdeepened to hold water for longer.
- Proposed Bench - "Eco-Rest™ Bench" by Glasdon UK Limited or similar approved; 1790x410x422mm. (backless) Recycled materials (vandal-resistant & tamper-resistant). Ground Fixed in accordance with manufacturer's recommendations.

Bird Boxes

- 1 x Barn Owl Nest Box (material to be designed to withstand all weather conditions). Attached to a mature tree (approximately 10-16 feet above the ground) and ideally facing eastwards with easy access to potential foraging habitats to the south.
- 2 x General purpose boxes (e.g. Schwegler 2B), attached to existing mature trees.
- 2 x Schwegler Spherical Wren House 1ZA Hang the nest box in undergrowth of mature scrub, in a shady place.

South and north facing aspects should be avoided for bird boxes. Final choice and positioning should be discussed with an ecologist.

GENERAL NOTES

- Ecus drawing references: 18618A_LD_01 for plant schedule 18618A_LD_02 for outline specification 18618A_LD_03 maintenance schedule
- Refer to Arboricultural report for details of existing vegetation to be retained and protection measures. Report produced by Ecus Ltd titled University of Hull Photovoltaic Project, Snuff Mill Lane - BS 5837:2012 Arboricultural Report, Impact Assessment and Method Statement.(September 2022 ref 18618D V2.0).
- Building / Site Layout provided by Studio Six Architecture Ltd on Snuff Mill Lane Site (Dwg no 2017.D).
- Building foundations to be confirmed by Engineer with reference to planting proposals and NHBC guidance (or alternative where applicable). Tree locations to be fully co-ordinated once building foundation depth are confirmed. Requirements for root barriers to be confirmed by an engineer.
- Refer to Engineer's details for level and drainage information
- Setting out on site to be agreed with Landscape Architect
- Check all dimensions on site.
- Do not scale from this drawing
- Report any discrepancies and omissions to Ecus Ltd
- This drawing is Copyright
- All levels indicative only. Extrapolated from site levels. All require to be checked.
- All details subject to approval by the local authority for the discharge of relevant planning conditions.

3RD-PARTY INFORMATION

NB This drawing includes information provided by independent surveyors and / or consultants, to whom all queries shall be made. Ecus Ltd can accept no liability for its context or accuracy.

DESIGN

Unless stated otherwise, the designs shown are subject to detailed site survey, investigations, and legal definition, the CDM regulations and the comments and / or approval of the various relevant Local Authority Officers, Statutory Undertakers, Fire Officers, Engineers and the like. They are copyright, project specific and confidential. No part is to be used or copied in anyway without the express prior consent of Ecus Ltd.

TREE NOTES:

Note that all tree and shrub locations are subject to coordination with services, to be undertaken by others. **The requirement for root barriers is to be confirmed by an engineer.** Note that it is best practice that root barriers are required to extend 2m beyond the mature canopy spread of new trees to protect all structures and hard landscape elements, such as highways, services and buildings. In addition, root barriers are required for all new trees within 5m of highways - e.g. Greenleaf 'Reroot 2000' or similar. Depth of tree root barrier to be confirmed by an engineer once services design has been produced at construction detail. Install to manufacturer's and engineer's guidance.

CDM - Risks / Hazards

- Proposed locations of landscape elements shown are subject to the presence of below ground services. A detailed survey is to be undertaken and necessary method statements prepared and approved prior to undertaking any excavations / work within this area.
- Care to be taken when working in proximity to the surrounding existing roads and railway.
- Care to be taken when working in proximity to surrounding water features such as drain/ditches.
- Care to be taken when clearing the existing site due to the potential presence of needles, litter etc.

Key continued.

Bat Boxes

	3no. tree mounted bat box e.g. Schwegler 2F with double front panel. If considered suitable an alternative may include Schwegler 1FF with built in rear panel, or similar. 3 separate bat boxes mounted on tree on different aspects for microclimatic opportunities.
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Bat boxes should preferably be sited 4 m from the ground on a tree in quiet locations away from direct sources of light, with a clear and uninterrupted flight line from the box. They should preferably be sited away from bright light spill. Final positions should be adjusted based on the above advice. Final choice and positioning should be discussed with an ecologist, who should attend site for micro siting.

B	09.03.23	HT	Ecus	For Exhibition. Amended following consultation comments
A	13.12.22	HT	Ecus	For Exhibition
REV	DATE	DRAWN BY	CHECKED BY	REVISION COMMENT

DRAWING STATUS:

 Preliminary

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Job

**UNIVERSITY OF HULL,
PHOTOVOLTAIC INSTALLATION
Snuff Mill Lane (Site A) Cottingham**

Title

Coloured Plan - For Exhibition

Drawn by	Date	Scale	Drg. no.
KM	Dec 22	1:1000@A1	18618A-LD-04