

Newhouse Academy

Biodiversity Enhancement scheme



External Works Overview

BIODIVERSITY

Biodiversity Enhancement



Biodiversity Enhancement



Schweglar 1B Bird Box by Schwegler



Schwegler 2F Bat Box by Schwegler



Hibernacula (Log Pile)



Vestre AS Insect Hotel by Vestre



Hedgehog Dome by Schwegler

Biodiversity Enhancement -
Assessment results

Biodiversity Net Gain

The initial scheme at tender stage was analysed by Ecologists at Wardell Armstrong with a view to the sites requirements in relation to achieving BNG. BNG requirements are to achieve a minimum of 10% improvement on the existing habitat provided on the site.

The initial results of this study were (as shown below) that there was a significant positive increase in the value of habitat within the Stage 4 proposals.

During Stage 5, the inclusion of additional External Canopy space to permit enough space for the Photovoltaic (PV) Panels in order to supply the calculated electrical output. This has resulted in a small reduction in the areas of soft landscape achievable, however the changes are minimal in relation to the size of the scheme and not expected to have a significant impact on the net gain figures.

On-site baseline	Habitat units	1.32
	Hedgerow units	0.00
	River units	0.00
On-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	3.77
	Hedgerow units	0.44
	River units	0.00
On-site net % change (Including habitat retention, creation & enhancement)	Habitat units	185.66%
	Hedgerow units	0.00%
	River units	0.00%
Off-site baseline	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Off-site post-intervention (Including habitat retention, creation & enhancement)	Habitat units	0.00
	Hedgerow units	0.00
	River units	0.00
Total net unit change (including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	2.45
	Hedgerow units	0.44
	River units	0.00
Total on-site net % change plus off-site surplus (including all on-site & off-site habitat retention, creation & enhancement)	Habitat units	185.66%
	Hedgerow units	100.00%
	River units	0.00%
Trading rules Satisfied?	Yes ✓	



Revision P10 - updated in line with Landscape Layout rev C04 18.12.23



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Client
Morgan Sindall

Project
Newhouse Academy, Rochdale

Description
ILLUSTRATIVE LANDSCAPE LAYOUT

Status PLANNING Drawn AH Scale 1:500 @ A1

Drawing number SRP1019-DEP-ZZ-00-DR-L-0002 Revision

Job number (internal) Date 4847 02.12.21 P10

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All levels and dimensions to be checked on site by contractor prior to commencement. Any variations to be reported to the client. This drawing is to be read in conjunction with all others relating to the project and all information derived accordingly; any anomalies to be reported to the client. Do not scale from this drawing. Use figured dimensions only. Work shown on this drawing to be carried out in accordance with current British Standards and Codes of Practice.

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EXAMPLE TREE PLANTING



Acer campestre

A medium sized tree up to 12 m high. Juvenile foliage may have a reddish look when it unfurls, but soon turns dark green. The colour in autumn is dark yellow and last for a long time



Acer platanoides
'Emerald Queen'

A hardy fast growing large deciduous tree Acer platanoides 'Emerald Green' has a good upright form with a dense, symmetrical, rounded to oval crown making it ideal for avenue and urban planting.



Pyrus calleryana
'Chanticleer'

Narrow conical medium tree with dark green leaves which provide colour well into autumn. Clusters of white flowers bloom in spring. Planted as ornamental individual specimens.



Tilia cordata 'Greenspire'

A uniformly growing tree that when young has a pyramidal crown with a straight trunk, developing branches slanting upwards. At a later stage the crown becomes oval to ovoid. The trunk is dark brown and grooved, young twigs are green to reddish brown. 'Greenspire' has leaves that are somewhat larger than those of the species.



Betula pendula

It is a medium sized, deciduous tree. Its branches and stems arch gracefully giving it an elegant appearance. It has a fine canopy providing dappled shade in summer, planted as ornamental specimens within pupil social spaces.

ORNAMENTAL PLANTING



GENERAL DESIGN INTENT

- Provide seasonal interest through colour, form, foliage, with different species peaking at different times of the year
- Wildlife friendly species to encourage pollinators
- Robust structural evergreen species to student areas
- Several mixes group together in terms of their colour interest, and a sensory specific mix located next to seating areas
- Low maintenance species
 - Grasses cut back once per year after winter
 - Shrubs minimal pruning annually to keep compact shape
 - Herbaceous perennials die back in winter and emerge in spring