



THE
ENVIRONMENT
PARTNERSHIP



SYMMETRY PARK MERSEYSIDE

WIDNES

UNIT 2 RESERVED MATTERS 2 - BAT AND BIRD BOX SCHEME

TEP
Genesis Centre
Birchwood Science Park
Warrington
WA3 7BH

Tel: 01925 844004
Email: tep@tep.uk.com
www.tep.uk.com

Offices in Warrington, Market Harborough, Gateshead, London and Cornwall

Document Title	Unit 2 Reserved Matters 2 - Bat and Bird Box Scheme
Prepared for	Tritax Symmetry Merseyside 1 Ltd.
Prepared by	TEP - Warrington
Document Ref	7367.037

Author	Poppy Parker
Date	March 2023
Checked	Anne Pritchard
Approved	Anne Pritchard

[illegible]

CONTENTS	PAGE
1.0 Introduction	1
2.0 Bat Box Specifications.....	2
3.0 Bird Box Specifications.....	4
4.0 Siting, Installation and Maintenance of Bat and Bird Boxes	6

TABLES	PAGE
Table 1 Bat box specifications for trees with roost potential which will be removed	2
Table 2: Bat box specifications.....	3
Table 3: Bird Box Specification	4

DRAWINGS

Location Plan (22604-UMC-XXXX-SI-DR-A-0601-Location Plan_P05)
Illustrative Masterplan (22604-UMC-XXXX-SI-DR-A-0602-Illustrative Masterplan_P08)
Figure 8.14 Bat Tree Location Plan
G7367.055A Bat and Bird Box Plan

1.0 Introduction

- 1.1 TEP have been commissioned by Tritax Symmetry Merseyside 1 Ltd to prepare a Bat and Bird Box Scheme for the Reserved Matters 2 application for Unit 2 of the Symmetry Park Merseyside development proposals as shown in the Location Plan (22604-UMC-XXXX-SI-DR-A-0601-Location Plan_P05) and Illustrative Masterplan (22604-UMC-XXXX-SI-DR-A-0602-Illustrative Masterplan_P08) (see Drawings).
- 1.2 The Ecology Chapter of the Environmental Statement sets out the mitigation and enhancement requirements with respect to style and number of bat and bird boxes for the entire Symmetry Park Merseyside proposed development site; 41 bat boxes and 42 bird boxes.
- 1.3 This document provides specific information on the bat and bird box requirement for The Unit 2 Reserved Matters 2 application site only and provides details on the designs/specifications of the boxes, as well as suitable locations for the installation of the boxes. Nine bat boxes and 22 bird boxes were installed as part of the Phase 1 works (TEP Report: 7367.018). It is proposed that 13 bat boxes and 20 bird boxes will be installed to provide mitigation and enhancement for the Unit 2 Reserved Matters 2 application for bats and birds.
- 1.4 The specification of bat and bird boxes for the mitigation scheme have been chosen with consideration given to the species assemblages present at the site following survey work completed as well as the planning layout.
 - 10 x 2F Schwegler Bat Boxes
 - 3 x 1FD Schwegler Bat Boxes
 - 7 x Bilbao nest box
 - 10 x Barcelona nest box
 - 1 x Phoenix pine woodpecker nest box

2.0 Bat Box Specifications

- 2.1 Bat boxes have been chosen to suit the species identified within the desk study and which have been recorded on the site during bat roost and activity surveys undertaken by TEP in 2019 and 2020 and detailed in the Ecology Chapter of the Environmental Statement, Appendix 8.1 Desk Study and Appendix 8.3 Bat Survey.
- 2.2 Four trees with low roost suitability (trees T9-T12) (Figure 8.14 Bat Tree Location Plan of the Environmental Statement (see Drawings)) will be removed as a result of site clearance for the Unit 2 Reserved Matters 2 application. Replacement roost boxes for the loss of these trees are detailed in Table 1 and will comprise eight 2F Schwegler Bat Boxes. These boxes will be installed on suitable retained trees within the country park and development zone, prior to site clearance commencing, near habitat features which provide suitable flight lines, such as woodland or scrub edge habitats and away from direct lighting.

Table 1 Bat box specifications for trees with roost potential which will be removed

Tree to be removed	Bat Roost Habitat Suitability Categorisation	Bat box specifications
9	Low	x2 2F Schwegler Bat Box (general purpose)
10	Low	x2 2F Schwegler Bat Box (general purpose)
11	Low	x2 2F Schwegler Bat Box (general purpose)
12	Low	x2 2F Schwegler Bat Box (general purpose)

- 2.3 Additional roost boxes (two 2F Schwegler Bat Boxes and three 1FD Schwegler Bat Boxes) will be incorporated to provide an enhancement to the bat roost resource within the site and increase the variety of designs to support a range of species and roost types.
- 2.4 In summary, the total number of bat boxes to be provided is:
- 10 x 2F Schwegler Bat Boxes; and
 - 3 x 1FD Schwegler Bat Boxes.

Table 2: Bat box specifications

<u>Bat box models and details</u>	
SCHWEGLER 2F UNIVERSAL BAT BOX	
An excellent general-purpose bat box, the Schwegler 2F-DFP Bat Box is suitable for summer use by a wide variety of species (and particularly liked by pipistrelles). It's the ideal 'starter' box to see if there are crevice loving bats in your area. The 2F-DFP is the same shape as the 2F but the front panel is fitted with a second inner wooden grooved panel, creating a space for crevice inhabiting bats. The front panel can be removed for inspection/cleaning. Being made of woodcrete the box will last for years and provide a stable environment inside. Number required: 10 Dimensions: 33 x 16 x 16 cm	
SCHWEGLER 1FD TRIPLE FRONT PANEL BAT BOX	
This Schwegler 1FD Bat box has been developed specifically as a maternity roost for smaller bats such as Pipistrelles. The interior and the type and size of the entrance hole match the requirements of smaller species. It features a special layout inside the domed roof, and increased interior height, and two grooved internal wooden front panels with precise spacing between them. Number required: 3 Dimensions: 36 x 16 x 16 cm	

3.0 Bird Box Specifications

- 3.1 Bird boxes have been chosen to suit the notable species and local BAP species of birds identified as present within the desk study undertaken by TEP in 2019 and in the breeding bird surveys undertaken by TEP in 2020 and 2019 as detailed in the Ecology Chapter of the Environmental Statement, Appendix 8.1 Desk Study and Appendix 8.6 Breeding Bird Survey.
- 3.2 In order to mitigate for the temporary reduction of nesting habitat for tree and scrub nesting bird species (i.e. prior to new planting establishing), bird nest boxes appropriate for such species will be affixed to retained trees distributed across the site prior to site clearance of the Unit 2 Reserved Matters 2 application site commencing. Nest boxes will comprise seven small holed boxes suitable for blue tit, great tit and nuthatch, 10 open fronted boxes suitable for song thrush, blackbird, robin and wren and one large box suitable for great spotted woodpecker. They are to be mainly in proximity to suitable foraging habitat such as woodland or green spaces.
- 3.3 In summary, the bird box specification is as follows, with details provided in Table 3:
- 7 x Bilbao nest box;
 - 10 x Barcelona nest box; and
 - 1 x Phoenix pine woodpecker next box.

Table 3: Bird Box Specification

<u>Bird box models and details</u>	
BILBAO NEST BOX (28mm and 32mm)	
General purpose nest box with a removable front panel and made from a mixture of wood and stone. Suitable for blue tits, coal tits, great tits and tree sparrows. The 32mm entrance nest box will also attract house sparrows, nuthatches and pied flycatchers. Number required: 4x 28mm, 3x 32mm Dimensions: 20.5 x 31 x 20cm	
BARCELONA OPEN NEST BOX	
General purpose, open fronted nest box. Suitable for robins and wrens (if well hidden), spotted flycatchers, pied and grey wagtails, song thrushes and blackbirds. Made from woodstone. Number required: 10 Dimensions: 19 x 24 x 17.5 cm	
PHOENIX PINE WOODPECKER NEST BOX	

Bird box models and details

The Phoenix Pine Woodpecker Nest Box offers them the opportunity to excavate their own entrance hole and create their own home.

The nest box is supplied with a small drilled hole to encourage the Woodpeckers to expand this as they would in the wild. The Woodpeckers will then enlarge the hole to a size that is suitable to them.

Number required: 1

Dimensions: 19 x 17 x 31.8cm



4.0 Siting, Installation and Maintenance of Bat and Bird Boxes

Siting of Bat and Bird Boxes

- 4.1 The bat and bird boxes should be sited in accordance with Drawing G7367.055. The specific locations will be confirmed during a pre-installation site visit.
- 4.2 As a general rule, bird boxes should be sited with the hole facing between north and east and bat boxes should face between south and west. Proximity to suitable commuting and foraging habitat for bats and birds has also been considered during the siting process. The proximity of boxes to artificial light has additionally been considered for bats. Failure to install bat and bird boxes in suitable locations may result in boxes being sited in sub-optimal positions that could lead to a lower up-take by bats and birds.
- 4.3 It is recommended that new bat and bird boxes are installed during autumn and winter to ensure they are ready for use the following breeding season.

Bat Boxes

- 4.4 Bat boxes must be installed at heights of between 3 to 6 metres on mature retained trees.
- 4.5 It must be ensured that there is unobstructed access for bats entering and leaving the bat box.
- 4.6 Bat boxes (for summer roosting) should be sited on south and west faces of trees where no direct artificial light will shine on the box.

Bird Boxes

- 4.7 The Bilbao and Barcelona bird boxes must be installed 1.5 metres or higher (up to 3 metres) above ground level. The Phoenix Pine Woodpecker Nest Box must be installed at a height of 3 to 5 metres. Boxes may be positioned higher in areas where there is a high cat population.
- 4.8 It must be ensured that there is unobstructed access for birds entering and leaving the bird box.
- 4.9 Bird boxes should ideally be placed on north and east faces of trees. In order to avoid the prevailing wind, no bird boxes should be sited on the west facing sides of trees.

Installation of Bat and Bird Boxes

- 4.10 All bat and bird boxes must be installed prior to commencement of site clearance.
- 4.11 All bat and bird boxes must be installed in line with the manufacturer's specifications to ensure no hazard is posed to occupants of the building or members of the public.

Maintenance

Bat boxes

- 4.12 The bat boxes will last for at least 20-25 years. The boxes are therefore suitable for long term mitigation projects.
- 4.13 The 2F and 1FD Schwegler bat boxes will require cleaning if the box has been occupied by birds, or if bat droppings have built up within the box. The bat boxes have a removable front panel to allow easy cleaning and inspection. To clean, remove droppings or bird nest remains. Do not wash the bat box. Please note that if the box is occupied by a bat roost, the roost may only be disturbed by a licenced bat worker. If, on inspection, bats are found within the box, replace the cover carefully and do not disturb again without a licence to do so.

Bird Boxes

- 4.14 Bilbao and Barcelona nest boxes are manufactured from long-lasting woodstone and will last for at least 20-25 years and have a removable front panel to allow easy cleaning and inspection. The Phoenix box is constructed from high quality FSC certified pine and has a birch front. This box can be opened for cleaning and emptying.
- 4.15 The boxes should be cleaned annually in the winter to remove the remains of the nest from the previous season. It is not usually necessary to wash the nest box. If parasites have invaded, wash with water only.

Substitutions

- 4.16 Should the recommended bird/bat boxes not be available, similar products are likely to be available from alternative suppliers. Any substitutions should be agreed with the Local Planning Authority.

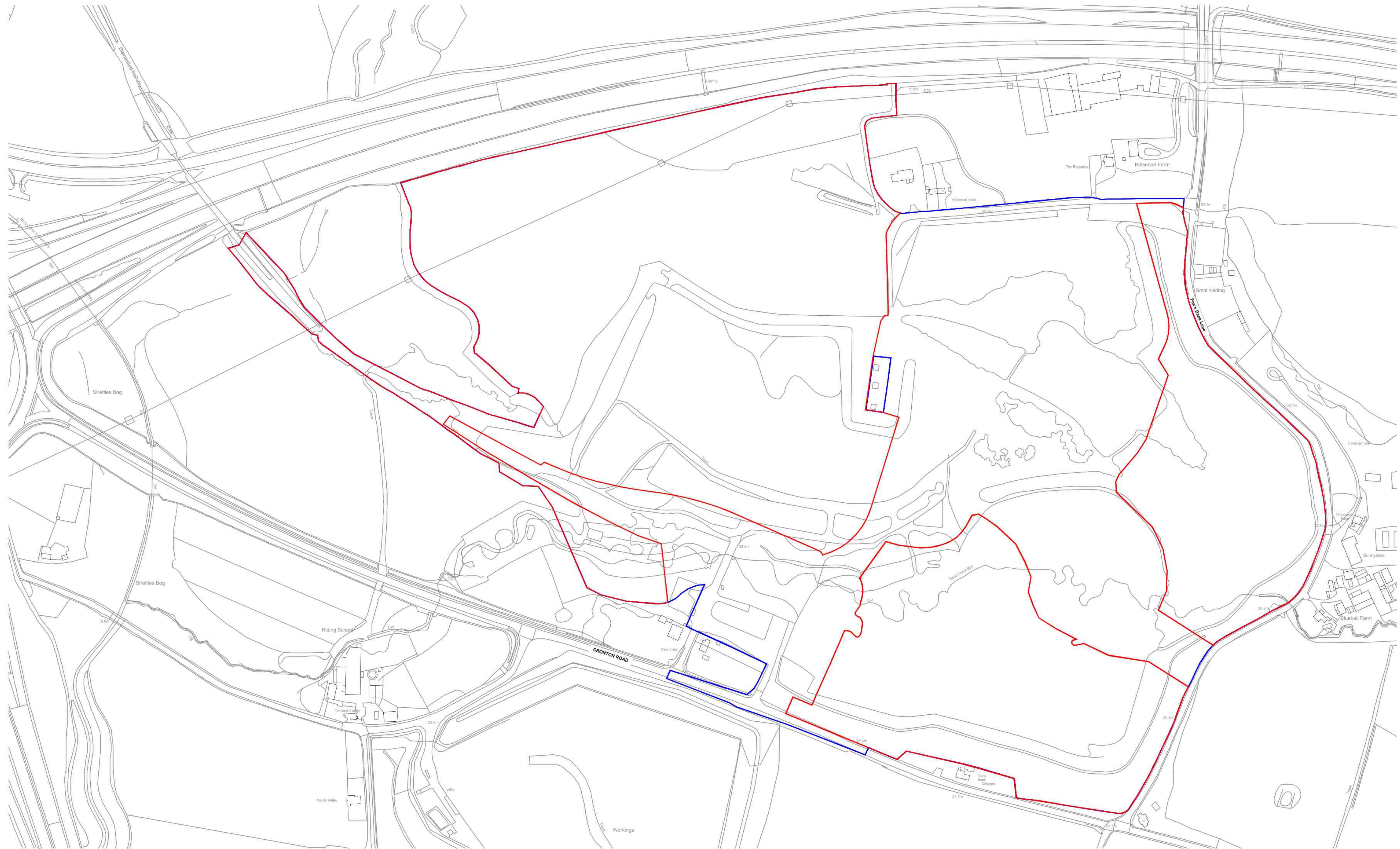
DRAWINGS

Location Plan (22604-UMC-XXXX-SI-DR-A-0601-Location Plan_P05)

**Illustrative Masterplan (22604-UMC-XXXX-SI-DR-A-0602-Illustrative
Masterplan_P08)**

**Figure 8.14 Bat Tree Location Plan
G7367.055A Bat and Bird Box Plan**

Application Boundary
83.77 Acres/33.90 Ha



50m SCALE 1:2500

PLANNING

THIS DRAWING IS TO BE USED FOR THE STATED PURPOSE
ONLY AND SHOULD NOT BE USED FOR ANY OTHER

Unit 02, Symmetry Park, Merseyside

LOD 1	LOI 1
-------	-------



RIBA PoW Stage:	2 - Concept Design	
Document Suitability:	S2	
Drawn / Checked:	MY / DEB	
Date:	30/01/2023	
Scale:	As Noted @ A1	
UMC Project Number:	22604	
Document Reference:	Drawing no:	Revision:
22604 - UMC - XXXX - SI - DR - A	0601	P05



Illustrative Masterplan

- Dimensions are in millimeters, unless stated otherwise.
- Scaling of this drawing is not recommended.
- It is the recipient's responsibility to print this document to the correct scale.
- All relevant drawings and specifications should be read in conjunction with this drawing.



SCHEDULE OF ACCOMMODATION
(Gross Internal Area unless otherwise stated)

Unit 1 - Let to Yodel	
Warehouse Area	- 153,100 sq ft (14,223m ²)
Office (Core, FF & SF)	- 8,500 sq ft (790m ²)
Gatehouse	- 300 sq ft (28m ²)
Total Area (GIA)	- 161,900 sq ft (15,041m²)
Net Plot Area	- 7.97 Acres (3.23 Hectares)

Unit 2	
Warehouse Area	- 254,420 sq ft (23,636m ²)
Office GF Core	- 1,357 sq ft (126m ²)
(Inc. FE Core)	
Office FF & SF	- 13,014 sq ft (1,209m ²)
Transport Office (2 St.)	- 3,000 sq ft (279m ²)
Gatehouse	- 300 sq ft (28m ²)
Total Area	- 272,091 sq ft (25,278m²)
Net Plot Area	- 13.25 Acres (5.36 Hectares)

Loading Docks	- 25 (Inc No.10 Euro Docks)
Level Access	- 4 (Inc No.1 Jumbo Door)
HGV Parking	- 38
Car Parking	- 244 (Inc. 15 Acc.+ 50 EV)
Cycle Parking	- 100 (10 Shelters)
Motorcycle Parking	- 13

- Masterplan Boundary
- Application Boundary
- Existing Overhead Power Lines
- 15m Wood Offset Zone
- TPO Woodland
- Woodland Retention
- Temporary works - Full Landscaping/
Planting Details to Follow

rev	amendments	by	ckd	date

Unit 02, Symmetry Park, Merseyside

Illustrative Masterplan	
LOD 1	LOI 1

TRITAX SYMMETRY
A TRITAX BIG BOX COMPANY



RIBA PoW Stage:	2 - Concept Design
Document Suitability:	S2
Drawn / Checked:	MY / DEB
Date:	30/01/2023
Scale:	As Noted @ A1
UMC Project Number:	22604
Document Reference:	Drawing no: Revision:
22604 - UMC - XXXX - SI - DR - A	0602 P09

PLANNING
THIS DRAWING IS TO BE USED FOR THE STATED PURPOSE
ONLY AND SHOULD NOT BE USED FOR ANY OTHER

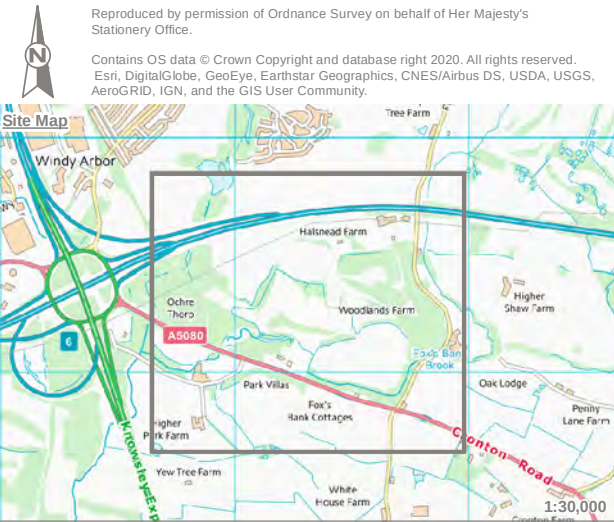


KEY

- Application boundary
- Development zone
- Full application boundary

Tree Roost Suitability

- Broad-leaved tree with low bat potential
- Broad-leaved tree with moderate bat potential
- Broad-leaved tree with high bat potential



Rev	Description	Drawn	Approved	Date



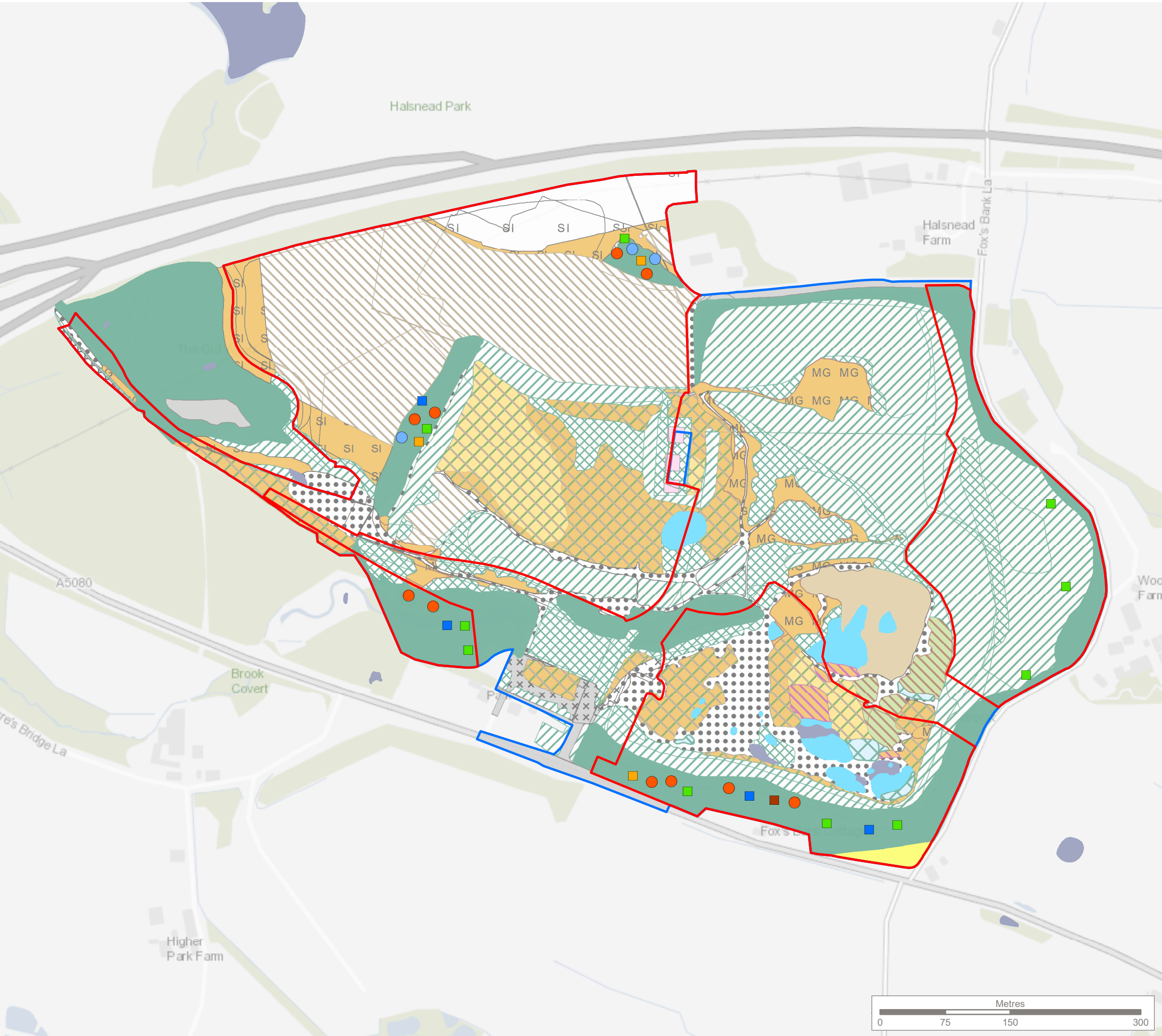
Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Symmetry Park, Merseyside

Title
Figure 8.14 Bat Tree Location Plan

Drawing Number
G7367.036

Drawn	Checked	Approved	Scale	Date
CW	MK	LR	1:4,500 @ A3	10/09/2020



KEY

Application Boundary

Masterplan Boundary

Bat Boxes

Schwegler 1FD triple front panel

Schwegler 2F universal

Bird Boxes

Barcelona open nest box

Bilbao nest box 28mm

Bilbao nest box 32mm

Pine woodpecker nest box

Phase 1 Habitat Areas

Mosaic (A) of tree/scrub regen with a mix of reed and modified neutral grassland and marshy grassland

Semi-natural broad-leaved woodland

Plantation broad-leaved woodland

Dense/continuous scrub

Mosaic (B) of tree/scrub regen with reed, modified neutral grassland and some marshy grassland

Semi-improved neutral grassland

MG

MG

Modified neutral grassland

Marsh/marshy grassland

SI

SI

Poor semi-improved grassland

Mosaic (C) of scrub/tree regen with marshy grassland

Tall ruderal

Mosaic (D) of scrub/tree regen with neutral grassland

Swamp and dense scrub

Swamp

Standing water

Infrastructure - gas pipeline

Amenity grassland

Bare ground with ephemeral/short perennial

Hardstanding with ephemeral/short perennial

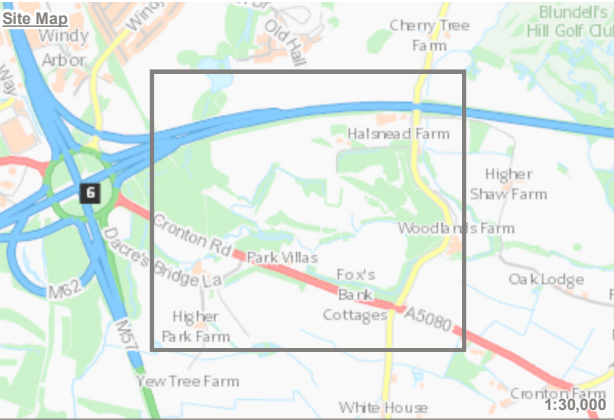
Bare ground

Hardstanding

Not surveyed

Note:
The locations of habitats, habitat features and bat/bird boxes are indicative.

 Reproduced by permission of Ordnance Survey on behalf of HMSO.
Contains OS data © Crown Copyright and database right 2023. All rights reserved.
Topographic survey received from the client.



A	Updated site boundaries.	CW	ACP	13/07/2023
Rev	Description	Drawn	Approved	Date

TEP

THE ENVIRONMENT PARTNERSHIP

Genesis Centre, Birchwood Science Park, Warrington WA3 7BH
Tel 01925 844004 e-mail tep@tep.uk.com www.tep.uk.com

Project
Symmetry Park, Merseyside

Title
Bat and Bird Box Plan
Reserved Matters Application 2

Drawing Number
G7367.055A

Drawn	Checked	Approved	Scale	Date
ET	MK	ACP	1:4,500 @ A3	13/07/2023



HEAD OFFICE

Genesis Centre,
Birchwood Science Park,
Warrington
WA3 7BH

Tel: 01925 844004
E-mail: tep@tep.uk.com

**MARKET
HARBOROUGH**

The Reynard Suite,
Bowden Business Village,
Market Harborough,
Leicestershire,
LE16 7SA

Tel: 01858 383120
E-mail: mh@tep.uk.com

GATESHEAD

Office 26, Gateshead
International Business
Centre,
Mulgrave Terrace,
Gateshead
NE8 1AN

Tel: 0191 605 3340
E-mail: gateshead@tep.uk.com

LONDON

8 Trinity Street,
London,
SE1 1DB

Tel: 020 3096 6050
E-mail: london@tep.uk.com

CORNWALL

4 Park Noweth,
Churchtown,
Cury,
Helston
Cornwall
TR12 7BW

Tel: 01326 240081
E-mail: cornwall@tep.uk.com
