

A sample of Elm branches in reach of the ground were searched. Similar to the 2011 and 2013 searches, we used a long-handled pruner and a pole-grab to enable searches of a sample of some branches not in reach of the ground. This enabled sampling of some branches to a height of 5 metres.

Each sample area was visited and searched for an approximately equal period of time. Where eggs were found the condition of the elm was also recorded. The assessment of condition followed the categorisation established in Goodyear *et al.* 2011, see table below.

QUALITY	DEFINITION
GOOD	Usually a medium to larger tree, maybe with flower buds developing and Wych Elm-like qualities. All trees identified to this level of quality were felt to be able to support White-letter Hairstreak even if eggs weren't found.
MODERATE	A medium sized elm or of sufficient, sheltered quality that could possibly be suitable for egg laying, more so if in a favourable location.
POOR	Tree not favourable for egg-laying due to a combination of small size, poor health (canker, DED), very small leaves and buds, and/or poor, exposed location.
VARIABLE	A group of elms showing a combination of the above qualities.

Blackthorn (which supports Black Hairstreak and Brown Hairstreak) and Oak (which supports Purple Hairstreak) were not targeted for searching.

3. Results

Three White-letter Hairstreak eggs were found and recorded. One egg was intact and two eggs were empty (already hatched)..

All three eggs were recorded in the same sample area (see Figure 1) and all three elms were assessed to be of Moderate condition.

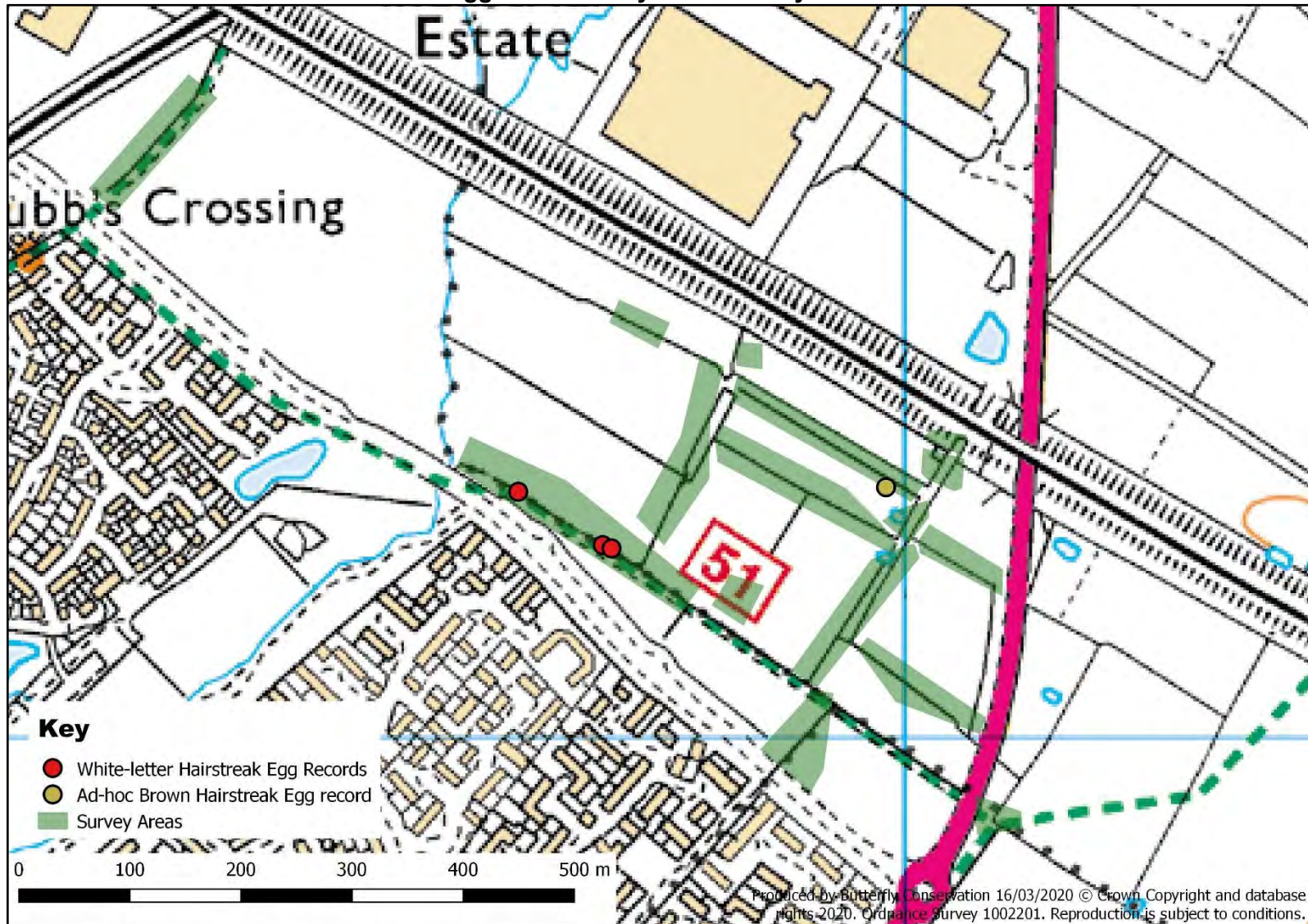
Although we were not targeting Blackthorn for searches, a Brown Hairstreak egg was spotted on a low Blackthorn sucker. This was also recorded (see Figure 1).

All of the sample areas contained elms of Good, Moderate or Variable quality. It was noted that many elms on the site are in Poor condition or dead, presumably as a result of the ongoing presence of Dutch Elm Disease (DED).

Summary of Records

Species	Date	Stage	Grid Reference	Intact	Hatched	Total
Satyrium w-album	03/03/2020	Egg	SP5972922168	0	1	1
Satyrium w-album	03/03/2020	Egg	SP5973722165	0	1	1
Satyrium w-album	27/02/2020	Egg	SP5965322216	1	0	1

Figure 1: Locations of all White-letter Hairstreak eggs from survey 26th February to 2nd March 2020



4. Discussion

The results confirm the continued presence of breeding White-letter Hairstreak on the site. It also confirms the continued presence of breeding Brown Hairstreak on the site (Brown Hairstreak is believed to be widespread on the site).

White-letter Hairstreak eggs are relatively difficult to find and only a small proportion of any elm is usually accessible to search. The discovery of three eggs suggests there are many more on the site. The absence of records from some sample areas does not indicate the absence of White-letter Hairstreak activity from those areas.

The recording of hatched eggs suggests that the surveys were slightly late this season. Hatched eggs are often harder to see. Had the survey been conducted earlier in the year it would likely have been easier to locate more eggs.

White-letter Hairstreak populations are known to fluctuate from year to year depending on a wide variety of factors. The results of any stand-alone egg search cannot therefore provide an indication of population size or of overall distribution; eggs were found in 2013 in areas where eggs were not found in 2011 and vice-versa. In addition, in 2013 adult White-letter Hairstreak was recorded in a sample area where no eggs had been recorded but elms were of suitable quality for egg-laying. The combination of these three surveys indicates there is an established and dynamic population on the site.

It is recommended that a survey of adult White-letter Hairstreak is undertaken in the summer. This is done by scanning the canopy using binoculars and recording the presence of adult butterflies, specifically male activity, from mid-June to mid-August, ideally between 09:00-11:00 or 14:00-17:00.

In England, Section 41 of the NERC Act (2006) gives public bodies a duty to conserve Species of Principal Importance for the purpose of conserving biodiversity. Therefore the presence of White-letter Hairstreak (and Brown Hairstreak) on the site should be taken into consideration by any proposed development and must be taken into account by the planning authority.

Many elms on site were observed to be in Poor condition. A more accurate assessment of elm condition would be better made during the spring or early summer. Retaining good and moderate elms on the site, and managing those elms appropriately, is of increasing importance. White-letter Hairstreak will only lay eggs on elm branches in sunlight and in sheltered positions. Management is required to prevent overshadowing of the elm. Native Elm should be encouraged and allowed to sucker from roots. When this growth reaches 5-10m tall, it should be coppiced. Avoid clipping elm in hedgerows until after July to ensure larvae have a plentiful supply of flowers and young leaves to feed upon.

Planting further elms within the site is recommended, although it has to be considered that a colonisation of a new area would only be likely when the tree becomes sexually viable. The highest priority should be the conservation of the native elms already on the site and, identified through the 2011 and 2013 surveys.

Actions identified by JNCC (2010) include:

- Ensuring the planting of Dutch Elm disease resistant Elm in the English countryside
- Ensuring current management of remaining sites is appropriate (retaining elm trees, coppicing suckering elm on a 10 year cycle, sensitive hedgerow management)

Butterfly Conservation has recently produced a position statement on the planting of Disease Resistant Elms. Whilst planting might be considered, we believe that conserving native and naturalised elm should form the core part of any elm management strategy.

The Gavray Drive site is the only site in Bicester known to support a breeding colony of White-letter Hairstreak. The butterfly has also been recorded on the public footpath crossing the Industrial Estate (2013) and 1.6km to the east (2017). The next nearest known colonies are at Piddington, 6.4km to the south and Calvert Jubilee, 7.5km to the east. A previous experiment has recorded adults regularly moving between trees up to 300m apart (Davies 1985 & 1986). Many colonies are restricted to a small group of trees, but dispersal appears quite common and individuals have been seen several kilometres from known breeding sites.

It remains important to consider the importance of the Gavray Drive site for all five English Hairstreak butterflies, including Brown Hairstreak, Purple Hairstreak, Green Hairstreak and the Black Hairstreak.

5. References

Brookes, A., (2019) Disease-resistant elms. Butterfly Conservation trials report. Butterfly Conservation, Wareham, Dorset.

Davies, M. (1986). *White-letter Hairstreak project annual report 1985*. Butterfly Conservation West Midlands Branch. Butterfly Conservation, Wareham.

Davies, M. (1985). *White-letter Hairstreak project annual report 1984*. Butterfly Conservation West Midlands Branch. Butterfly Conservation, Wareham.

Fox, R., Brereton, T.M., Asher, J., August, T.A., Botham, M.S., Bourn, N.A.D., Cruickshanks, K.L., Bulman, C.R., Ellis, S., Harrower, C.A., Middlebrook, I., Noble, D.G., Powney, G.D., Randle, Z., Warren, M.S. & Roy, D.B. (2015). *The State of the UK's Butterflies 2015*. Butterfly Conservation and the Centre for Ecology & Hydrology, Wareham, Dorset.

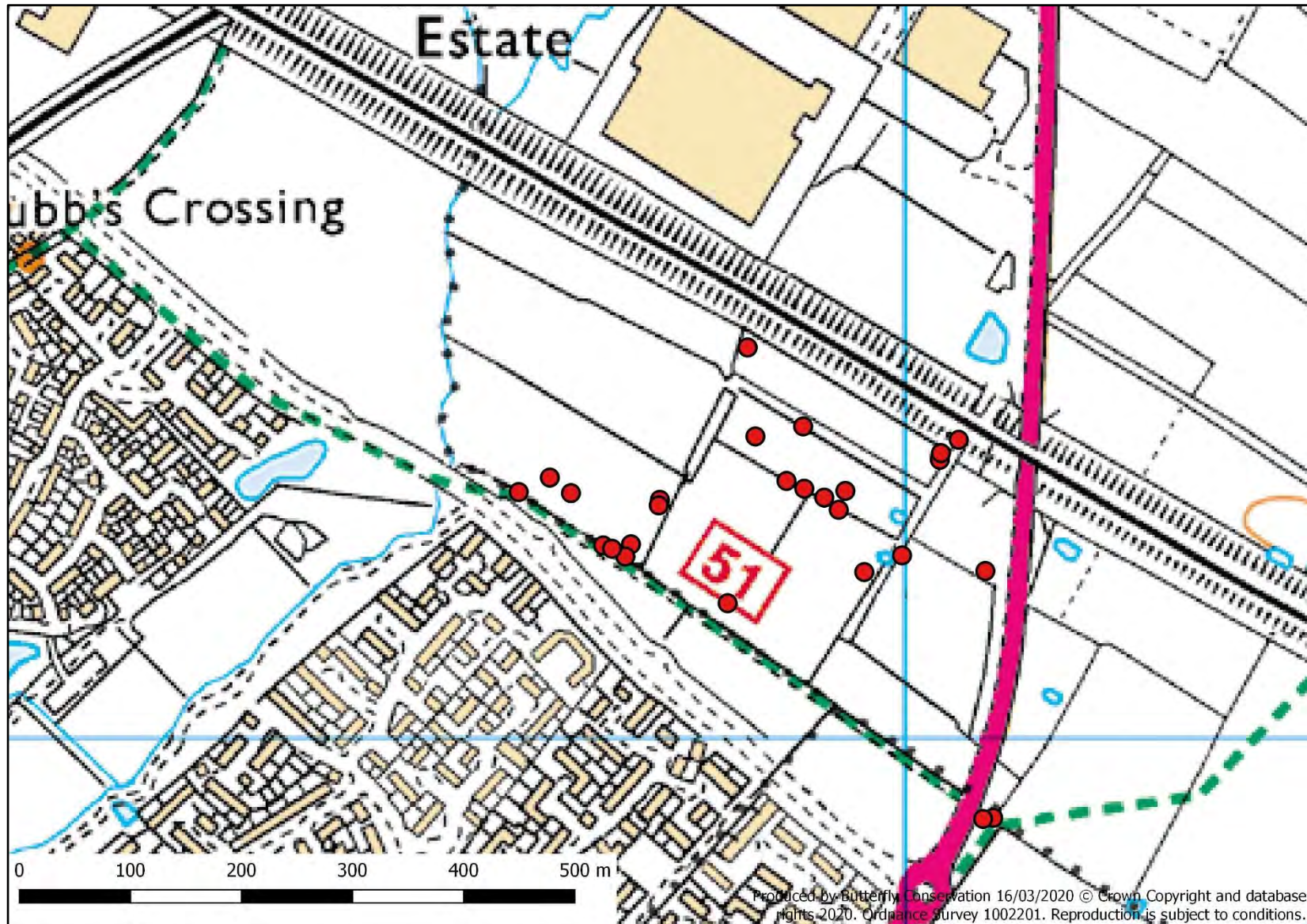
Fox, R., Warren, M.S., and Brereton, T.M. (2010), *A new Red List of British Butterflies, Species Status 12*; 1-32. Joint Nature Conservation Committee, Peterborough.

Goodyear, L., Middleton, A., Jones, R., and Bourn, N., (2013), *Survey for the eggs and adults of the White-letter Hairstreak (Satyrium w-album) Butterfly on land north of Gavray Drive, Bicester, Oxfordshire*. Butterfly Conservation, Wareham.

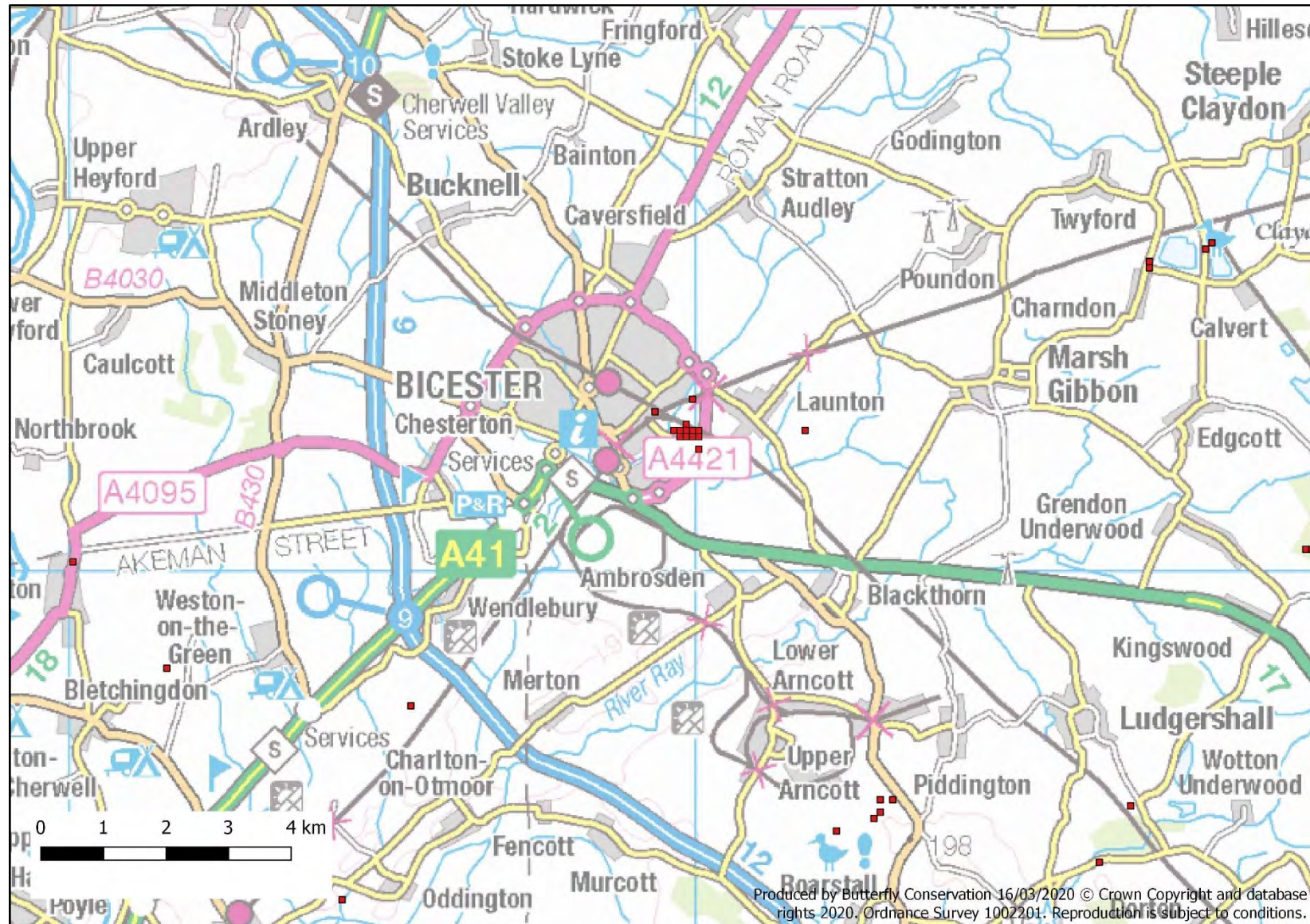
Goodyear, L., Middleton, A., Redhead, D., Kelly, C., Bourn, N., (2011), *Survey for the eggs of the White-letter Hairstreak (Satyrium W-album) butterfly on land north of Gavray drive, Bicester Oxfordshire*. Butterfly Conservation, Wareham, Dorset.

JNCC (2010) *UK BAP priority species accounts - Satyrium w-album version 2*
<http://archive.jncc.gov.uk/speciespages/2586.pdf>

Appendix A: Locations of all White-letter Hairstreak eggs from surveys 2011, 2013, 2020



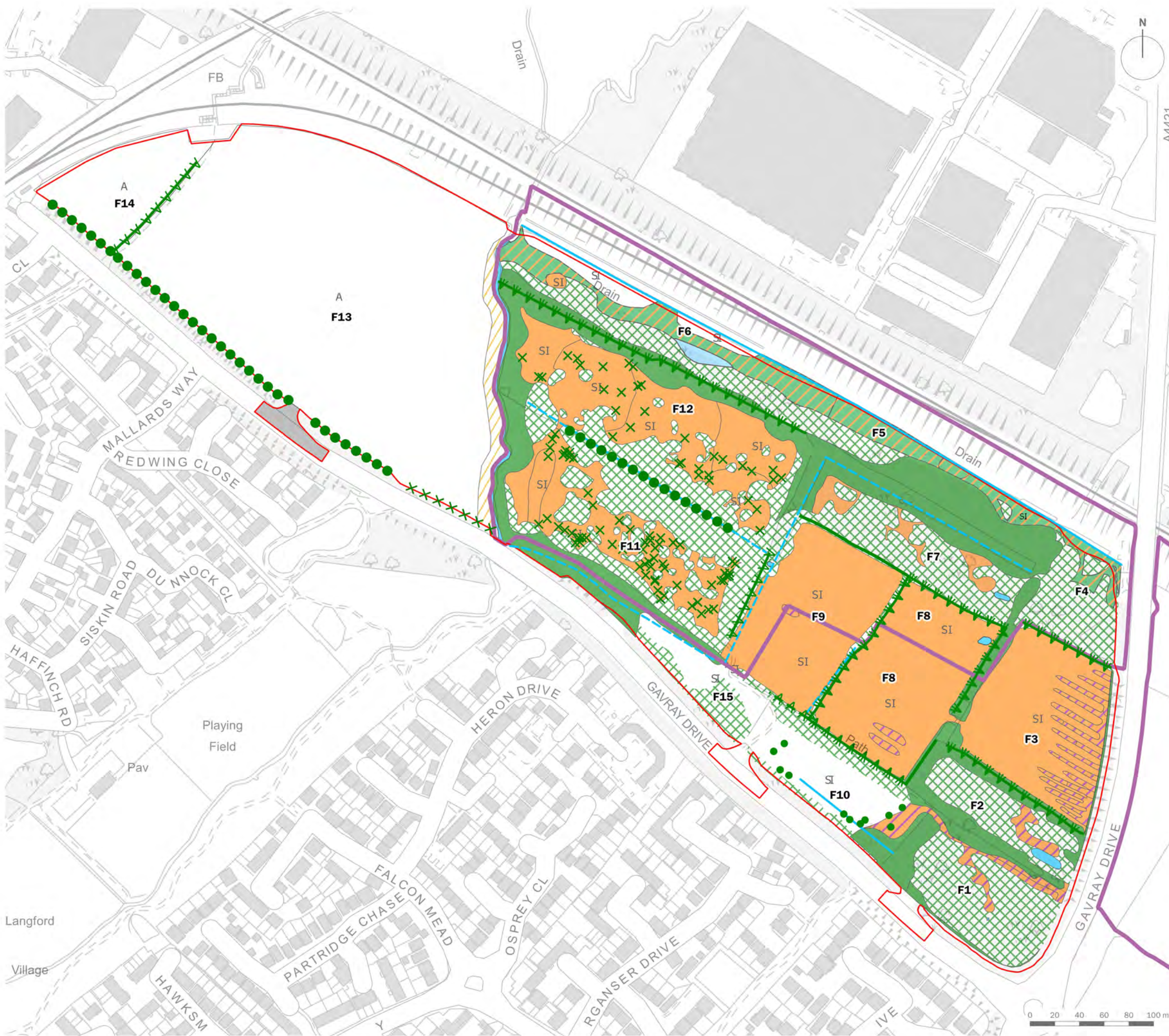
Appendix B – White-letter Hairstreak Records since 2000 in the wider Bicester area



Plans

Plan EDP 1	Extended Phase 1 Habitat Plan (edp0124_d130c 13 July 2021 MJC/WC)
Plan EDP 2	Statutory Designated Sites (edp0124_d155a 13 July 2021 GY/VF)
Plan EDP 3	Non-statutory Designated Sites (edp0124_d156a 13 July 2021 GY/VF)
Plan EDP 4	Hedgerow Plan (edp0124_d158a 13 July 2021 GY/VF)
Plan EDP 5	Langford Brook River Corridor Survey (edp0124_d146a 13 July 2021 MH/ND)
Plan EDP 6	Wintering Bird Survey Results (BOCC only) – December 2019 (edp0124_d142a 13 July 2021 MJC/CL)
Plan EDP 7	Wintering Bird Survey Results (BOCC only) – January 2020 (edp0124_d143a 13 July 2021 MJC/CL)
Plan EDP 8	Wintering Bird Survey Results (BOCC only) – February 2020 (edp0124_d144a 13 July 2021 MJC/CL)
Plan EDP 9	Wintering Bird Survey Results (BOCC only) – March 2020 (edp0124_d145a 13 July 2021 MJC/CL)
Plan EDP 10	Breeding Bird Survey Results (BOCC only) – April 2020 (edp0124_d139a 13 July 2021 MJC/VF)
Plan EDP 11	Breeding Bird Survey Results (BOCC only) – May 2020 (edp0124_d140a 13 July 2021 MJC/VF)
Plan EDP 12	Breeding Bird Survey Results (BOCC only) – June 2020 (edp0124_d141a 13 July 2021 MJC/VF)
Plan EDP 13	Trees with Bat Roost Potential (edp0124_d157a 13 July 2021 GY/VF)
Plan EDP 14	Transect Routes and Anabat Locations (edp0124_d147a 13 July 2021 GY/VF)
Plan EDP 15	Bat Transect Survey Results (Sheets 1 to 6) (edp0124_d148a 13 July 2021 GY/VF)

- Plan EDP 16** Dormouse Survey Plan
(edp0124_d149a 13 July 2021 GY/VF)
- Plan EDP 17** Otter and Water Vole Survey Results
(edp0124_d150a 13 July 2021 GY/VF)
- Plan EDP 18** Great Crested Newt Survey Plan
(edp0124_d151a 13 July 2021 GY/VF)
- Plan EDP 19** Reptile Survey Plan
(edp0124_d152a 13 July 2021 GY/VF)
- Plan EDP 20** Hairstreak Butterfly Records 2020
(edp0124_d154a 13 July 2021 GY/VF)



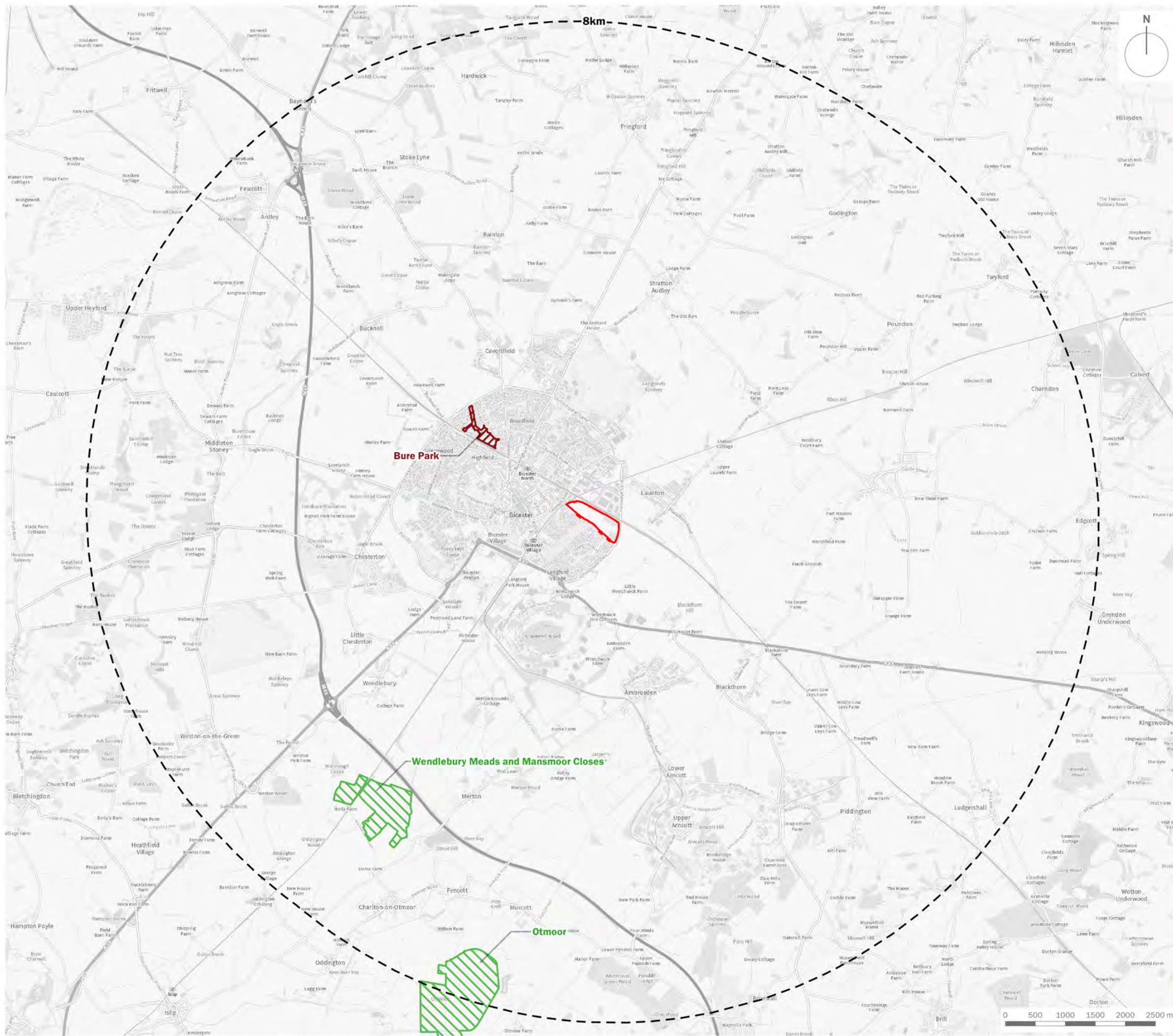
- Site Boundary
- Local Wildlife Site
- Broadleaved Semi-natural Woodland
- Tall Ruderal
- Marshy/Marshy Grassland
- Dense Continuous Scrub
- SI Poor Semi-improved Grassland
- SI Semi-improved Neutral Grassland
- Unimproved Neutral Grassland
- Mosaic of Semi-improved Grassland, Tall Herb/Tall Ruderal; Ephemeral/Short Perennial, Marshy Grassland and Scattered Scrub
- Standing Water
- Swamp
- A Arable
- Hardstanding
- Intact Species-rich Hedgerow and Trees
- Intact Species-rich Hedgerow
- Defunct Species-rich Hedgerow
- Intact Species-poor Hedgerow
- XXXX Scattered Scrub
- Scattered Trees
- Wet Ditch
- Dry Ditch
- F15** Field ID

client
L&Q Estates

project title
Gavray Drive, Bicester

drawing title
Plan EDP 1: Phase 1 Habitat Plan

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drawing number	edp0124_d130c	checked	WC
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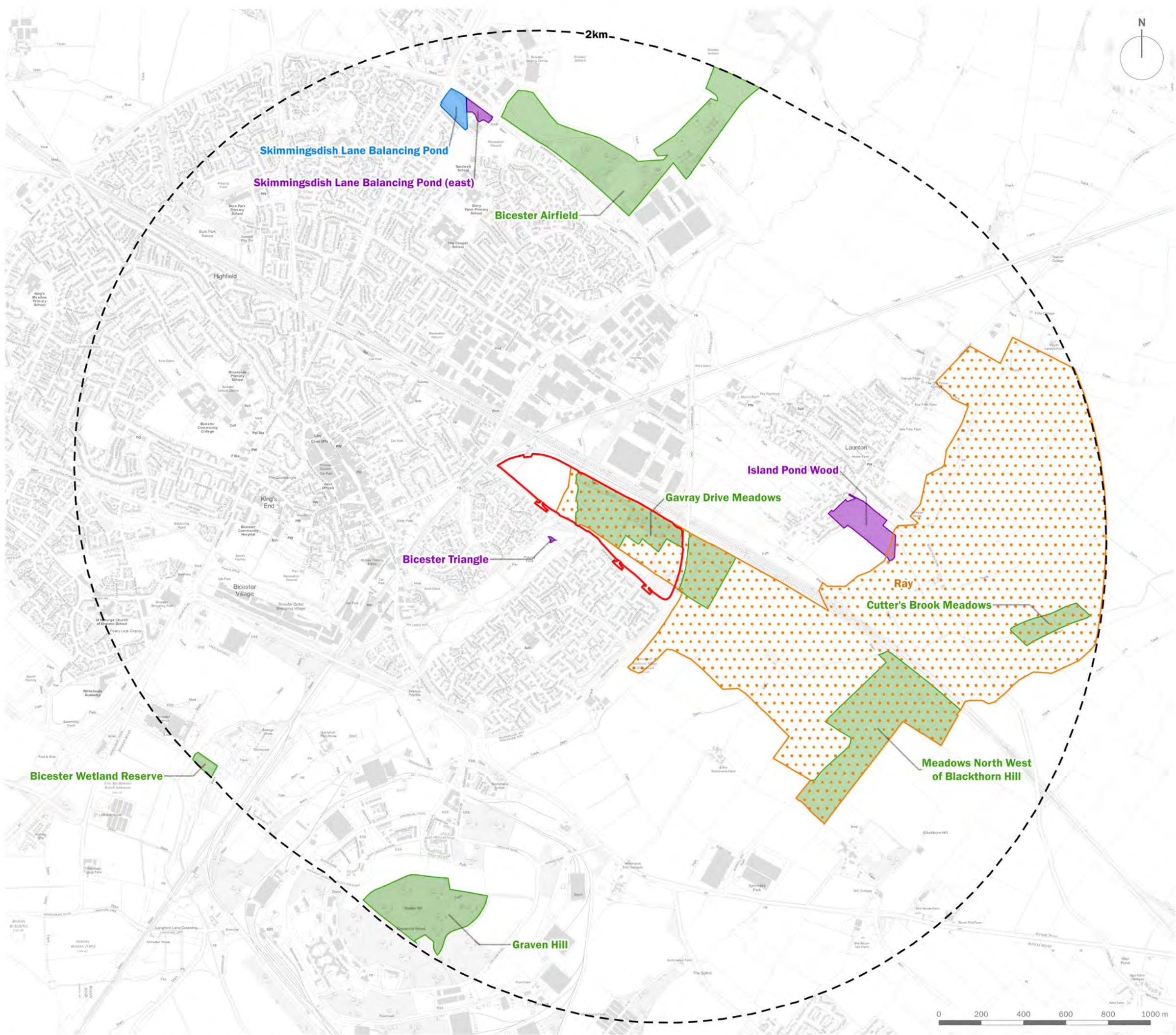


-  Site Boundary
-  8km Range Rings
-  Local Nature Reserve (LNR)
-  Site of Special Scientific Interest (SSSI)

client	L&Q Estates	
project title	Gavray Drive, Bicester	
drawing title	Plan EDP 2: Statutory Designations	
date	13 JULY 2021	drawn by GY
drawing number	edp0124_d155a	checked VF
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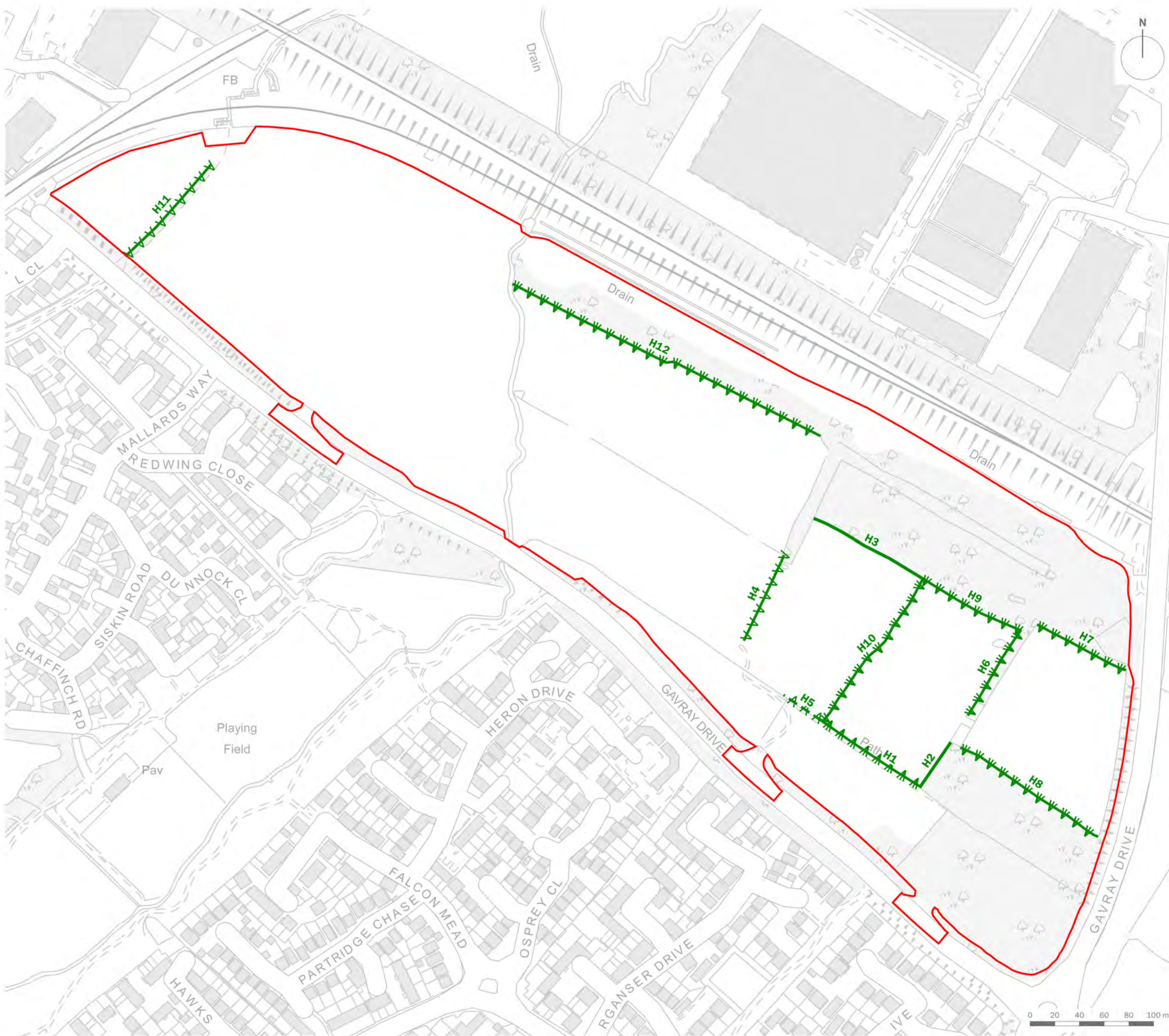


- Site Boundary
- 2km Range Ring
- Local Wildlife Site
- Cherwell District Wildlife Site
- Conservation Target Area
- Proposed Cherwell District Wildlife Site

client	L&Q Estates	
project title	Gavray Drive, Bicester	
drawing title	Plan EDP 3: Non-statutory Designations	
date	13 JULY 2021	drawn by GY
drawing number	edp0124_d156a	checked VF
scale	1:17,500 @ A3	QA JTF



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- Site Boundary
- ▼▼▼▼ Intact Species-rich Hedgerow and Trees
- ▼▼▼▼ Intact Species-rich Hedgerow
- ▼▼▼▼ Defunct Species-rich Hedgerow
- Intact Species-poor Hedgerow



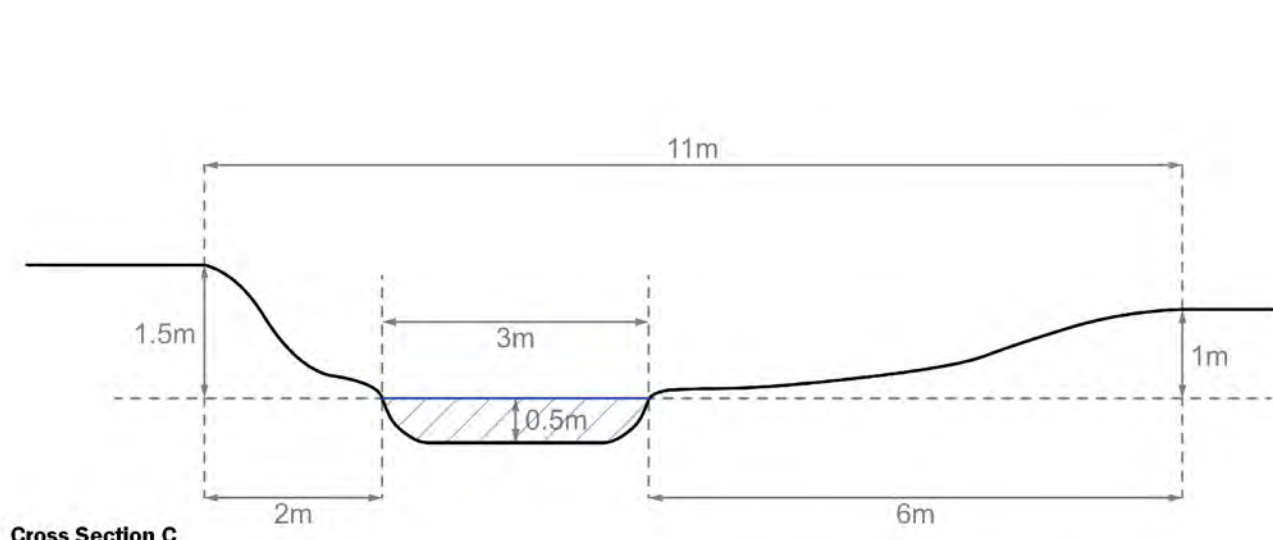
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project title
Gavray Drive, Bicester

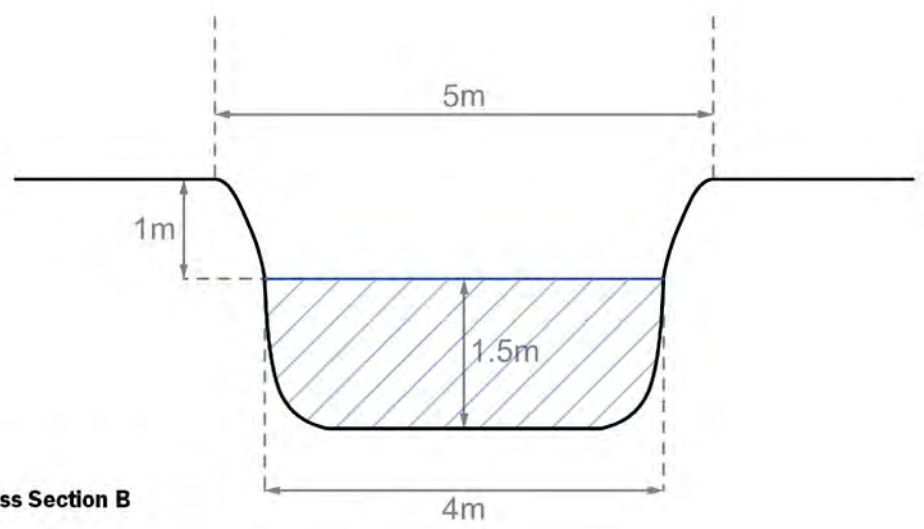
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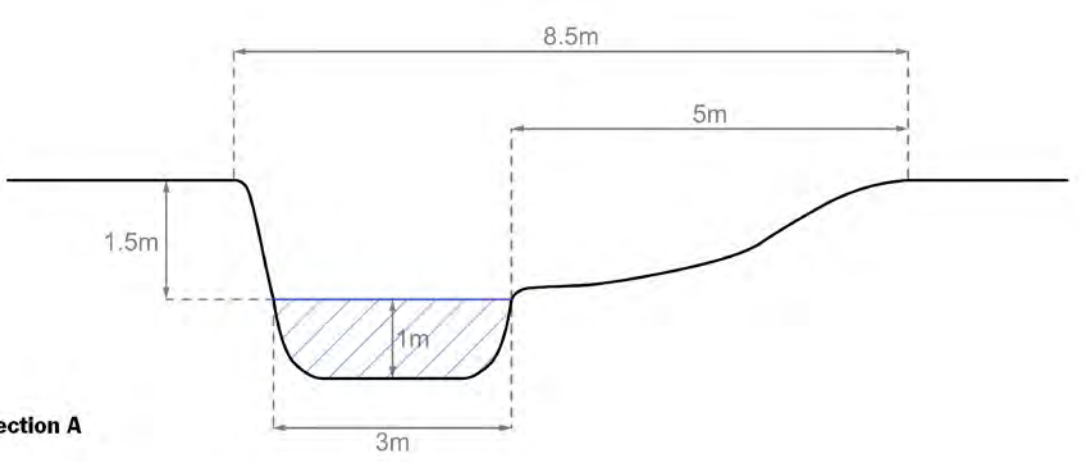




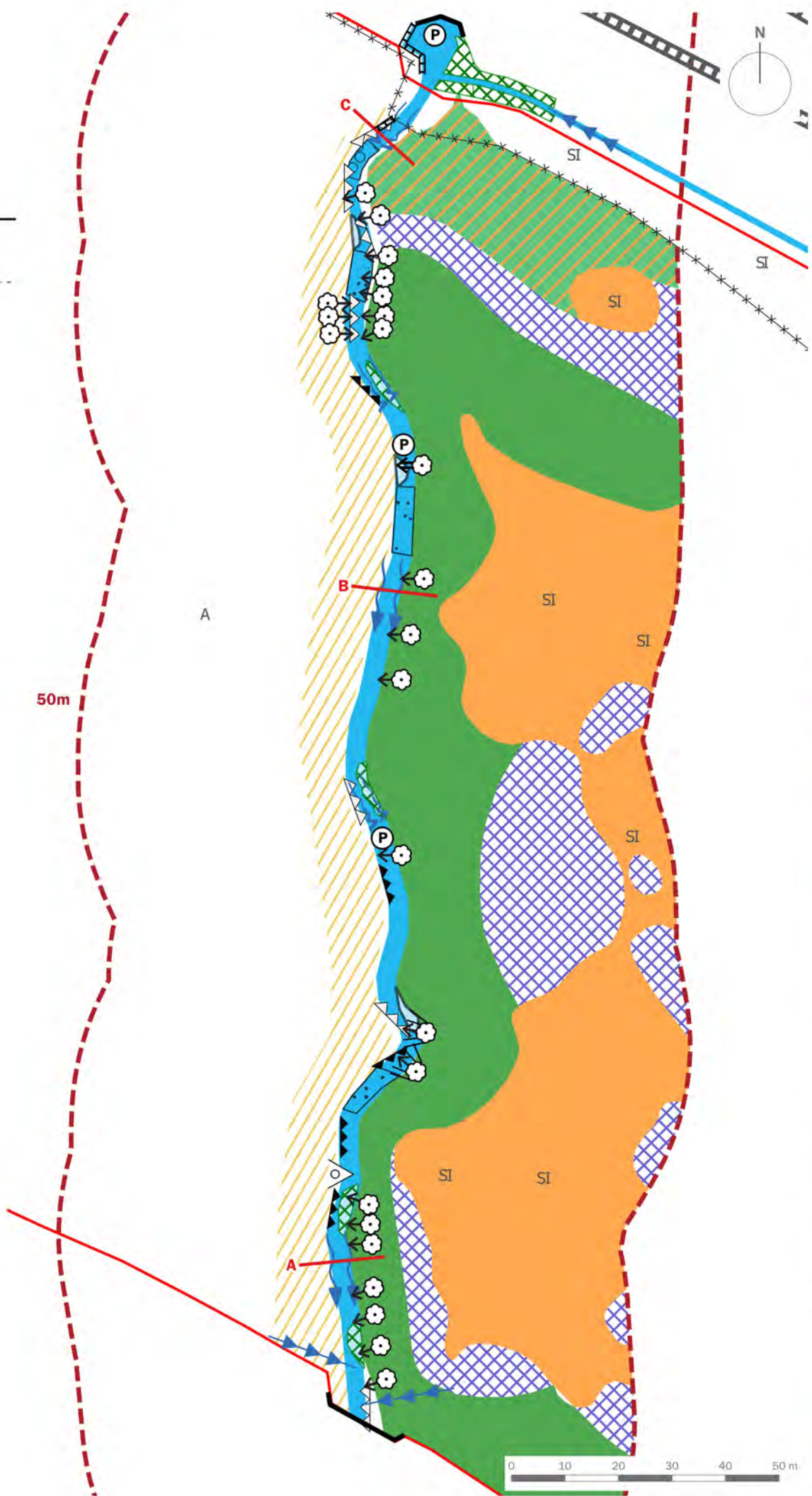
Cross Section C



Cross Section B



Cross Section A



- Site Boundary
- Disused Cattle Drink
- Exposed Root
- Eroding Cliff
- Fallen Tree
- Overhanging Tree
- Pool
- Riffle
- Run
- Inflow - Ditch
- Stable Cliff
- Artificial Bank Protection
- Bridge
- Cross Section
- Fence
- Railway
- River Boundary
- Broadleaved Semi-natural Woodland
- Shelf
- Dense Continuous Scrub
- Emergent Monocots
- Bare Gravel
- Cobbles
- SI Semi-improved Neutral Grassland
- SI Poor Semi-improved Grassland
- A Arable
- Tall Ruderal
- Mosaic of Semi-improved Grassland, Tall Herb/Tall Ruderal; Ephemeral/Short Perennial, Marshy Grassland and Scattered Scrub

client
L&Q Estates

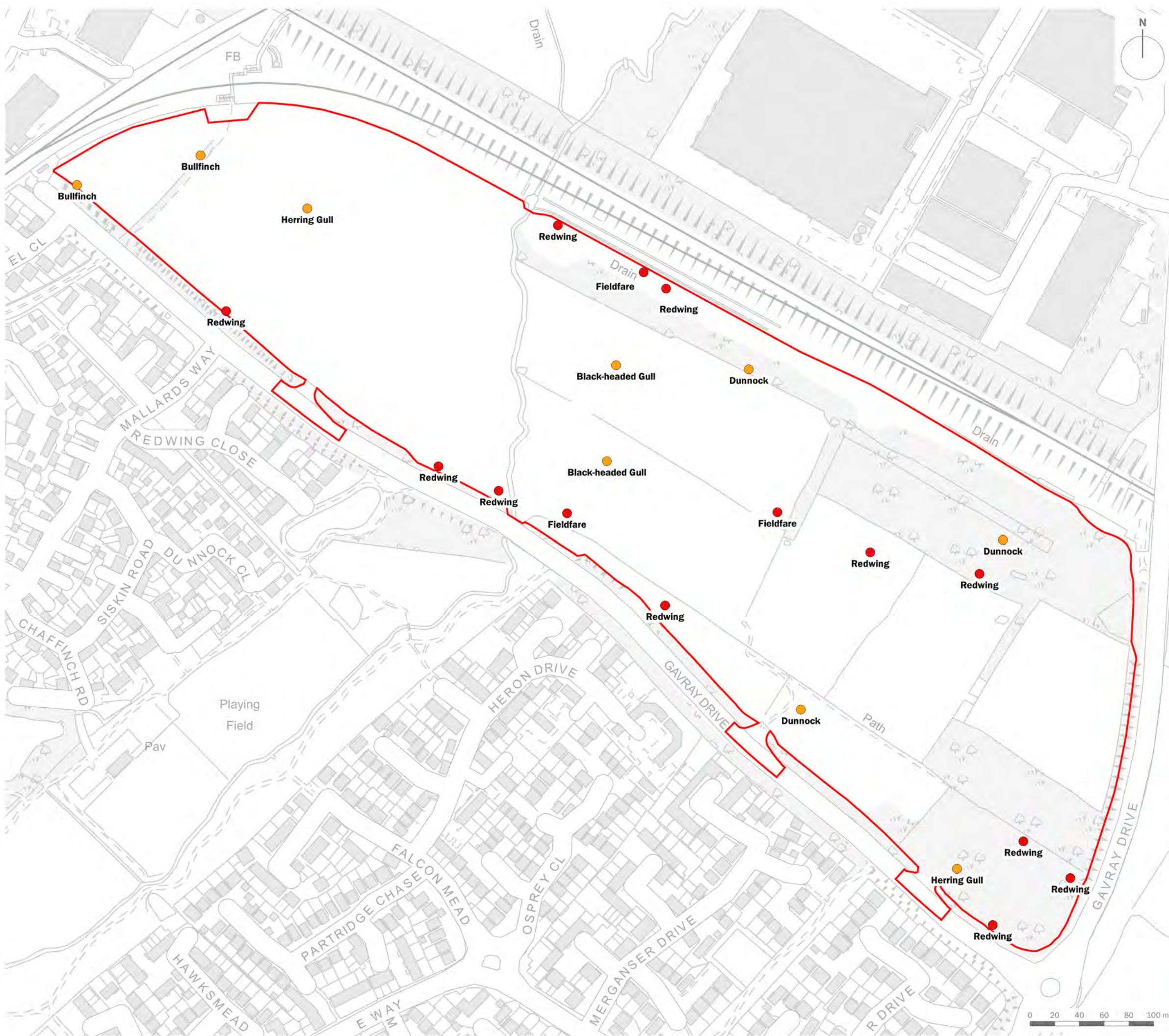
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Gavray Drive, Bicester

drawing title
Plan EDP 5: Langford Brook River Corridor Survey

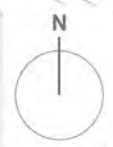
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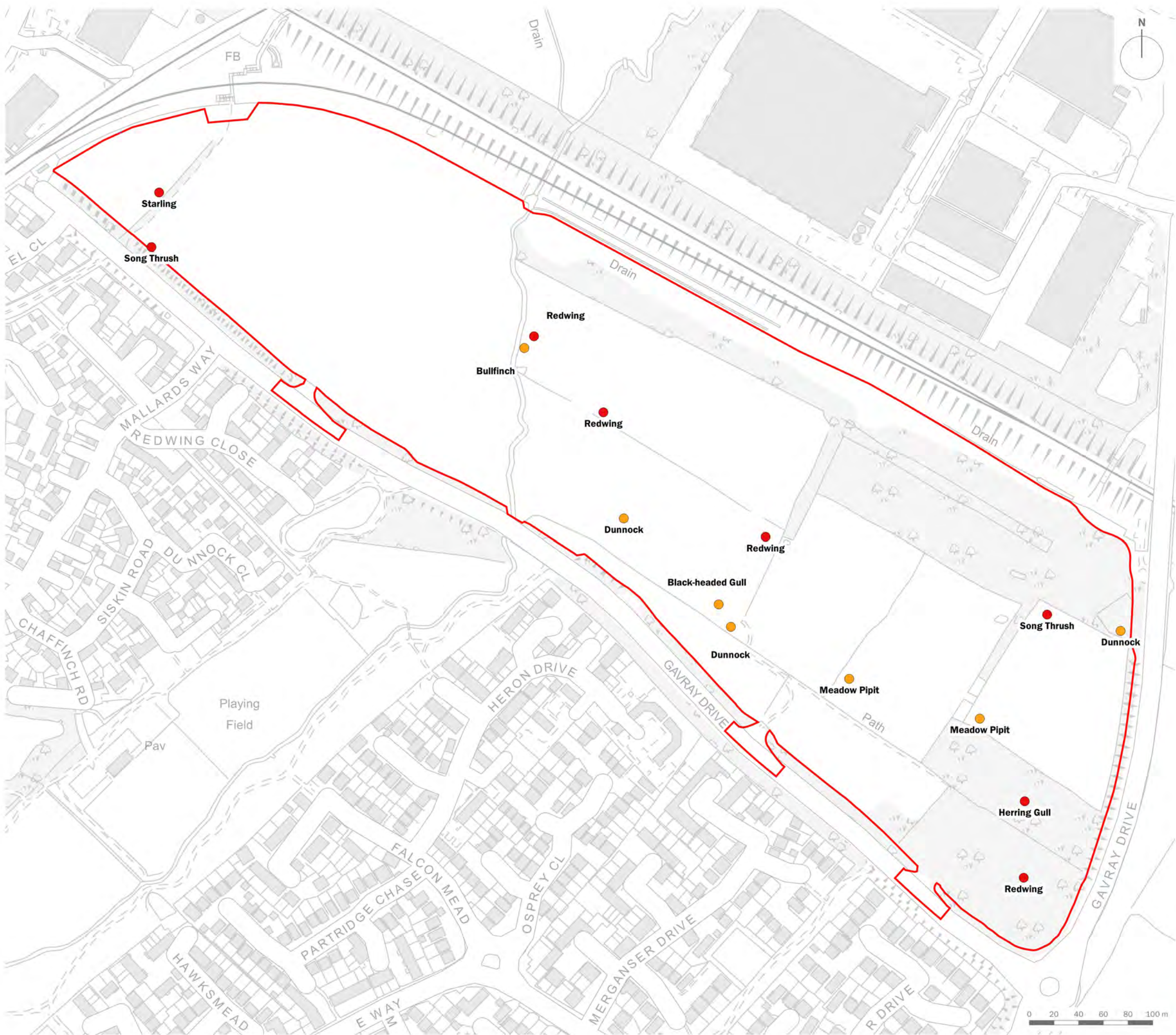


- Site Boundary
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- Amber Listed Bird

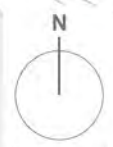


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project title	Gavray Drive, Bicester	
drawing title	Plan EDP 6: Winter Bird Survey Results (BOCC only) – December 2019	
date	13 JULY 2021	drawn by MJC
drawing number	edp0124_d142a	checked CL
scale	1:3,000 @ A3	QA GY





- Site Boundary
- Red Listed Bird
- Amber Listed Bird

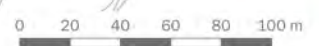


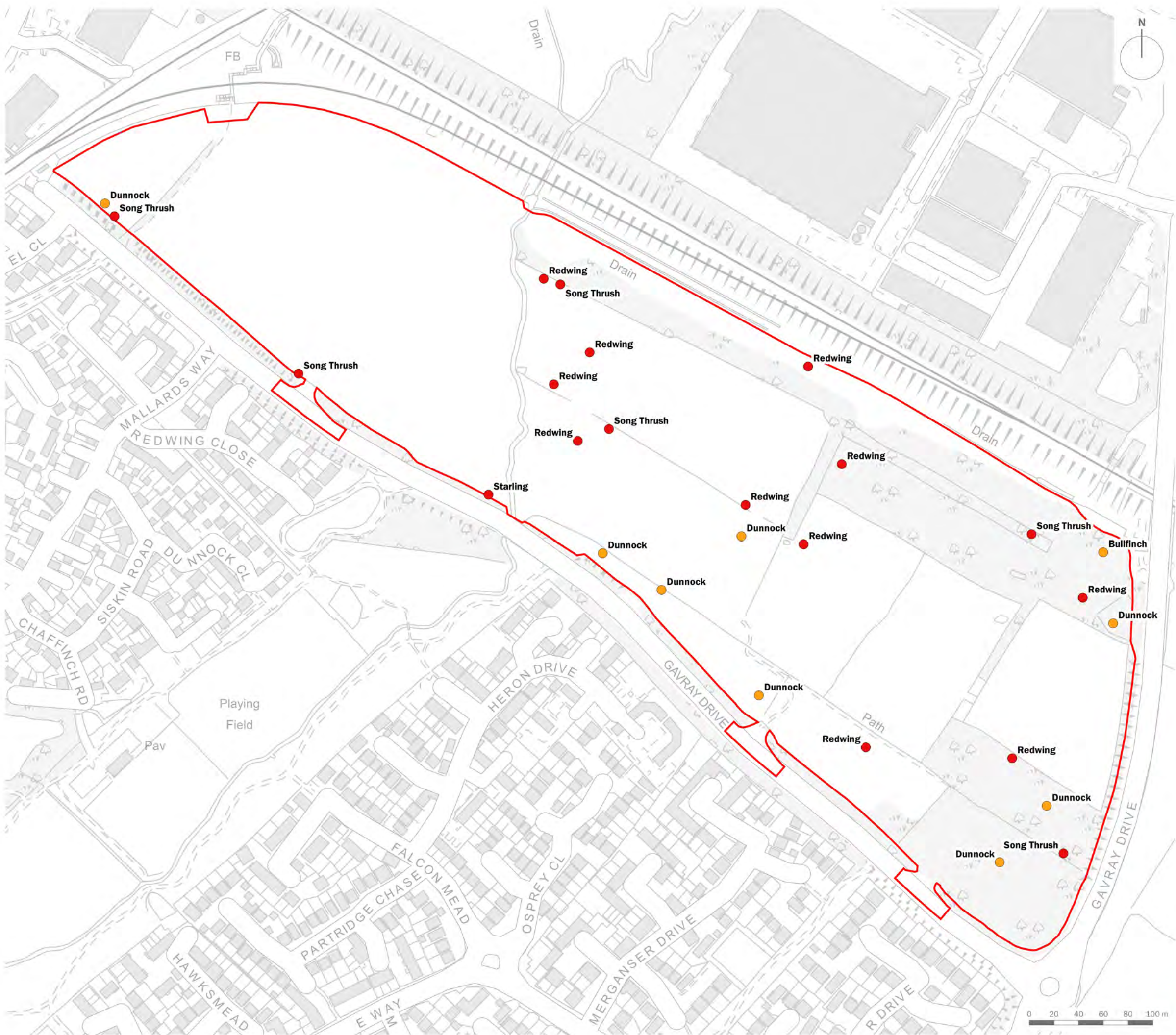
client
L&Q Estates

project title
Gavray Drive, Bicester

drawing title
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date	13 JULY 2021	drawn by	MJC
drawing number	edp0124_d143a	checked	CL
scale	1:3,000 @ A3	QA	GY





- Site Boundary
- Red Listed Bird
- Amber Listed Bird

client
L&Q Estates

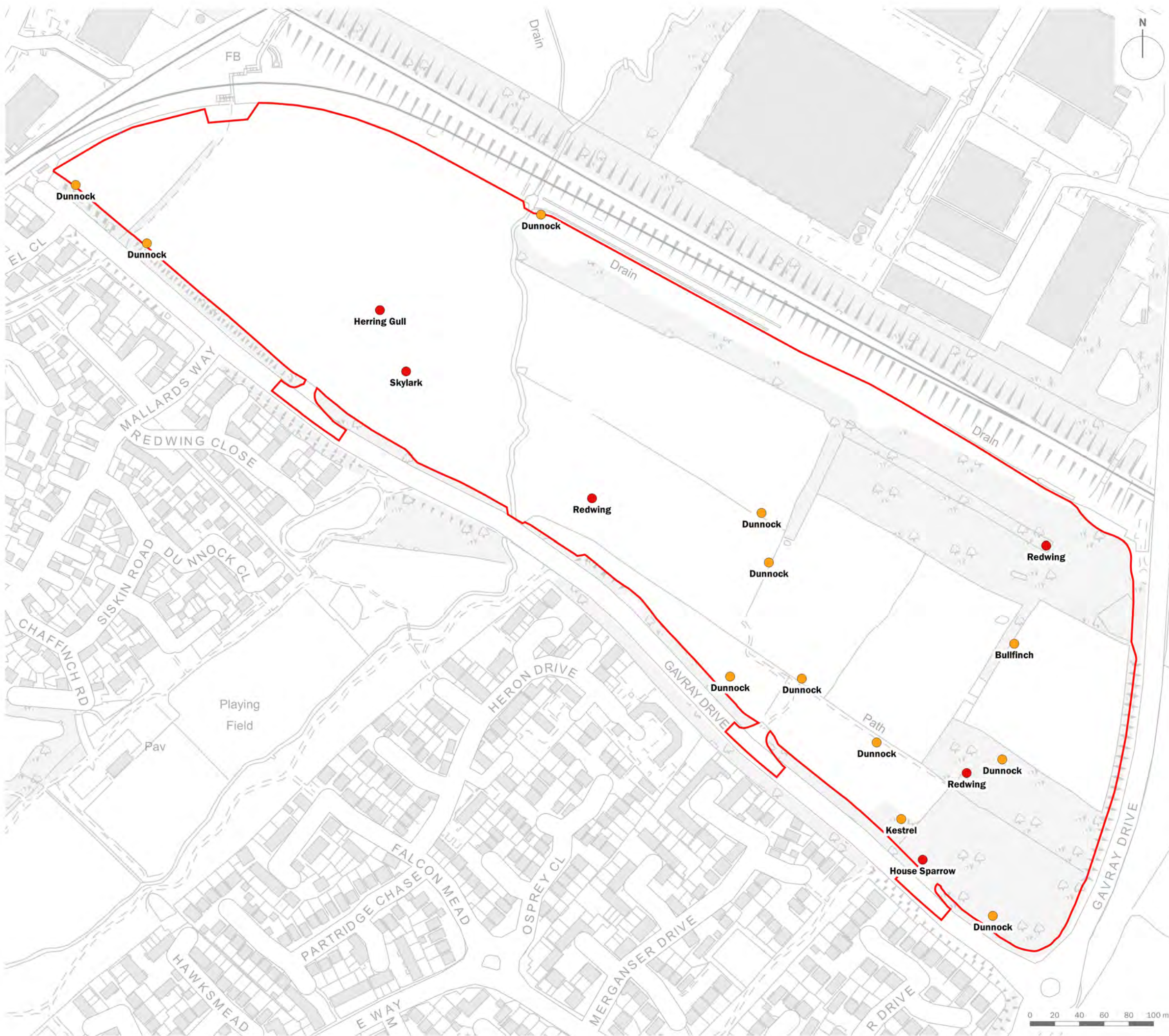
project title
Gavray Drive, Bicester

drawing title
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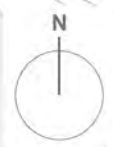
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scale	1:3,000 @ A3	QA	GY



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- Site Boundary
- Red Listed Bird
- Amber Listed Bird

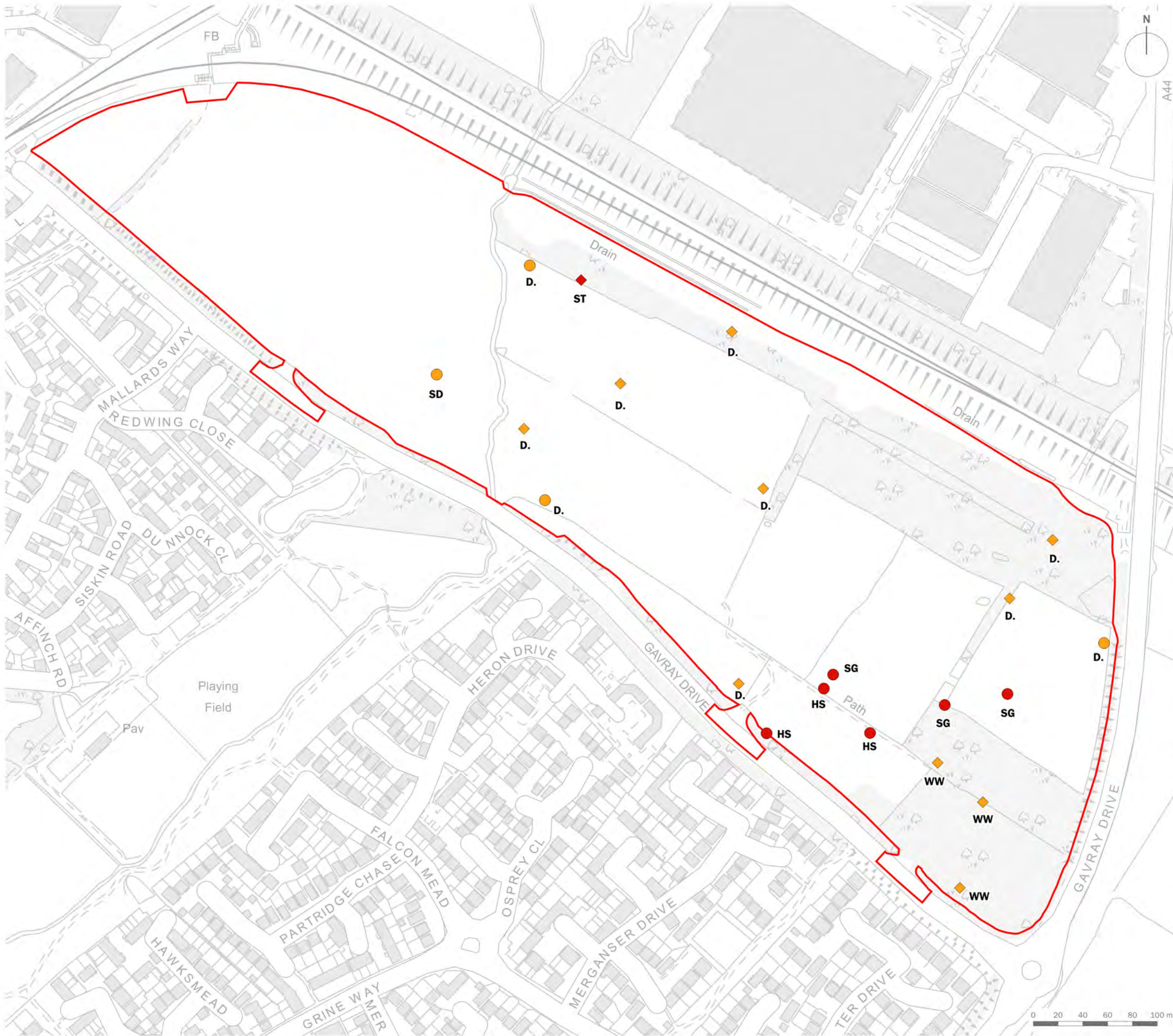


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project title	Gavray Drive, Bicester	
drawing title	Plan EDP 9: Winter Bird Survey Results (BOCC only) – March 2020	
date	13 JULY 2021	drawn by MJC
drawing number	edp0124_d145a	checked CL
scale	1:3,000 @ A3	QA GY



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- Site Boundary
- Red Listed Bird
- Amber Listed Bird
- ◇ Singing Bird

Label	Species
D.	Dunnock (<i>Prunella modularis</i>)
HS	House Sparrow (<i>Passer domesticus</i>)
SD	Stock Dove (<i>Columba oenas</i>)
SG	Starling (<i>Sturnus vulgaris</i>)
ST	Song Thrush (<i>Turdus philomelos</i>)
WW	Willow Warbler (<i>Phylloscopus trochilus</i>)

client
L&Q Estates

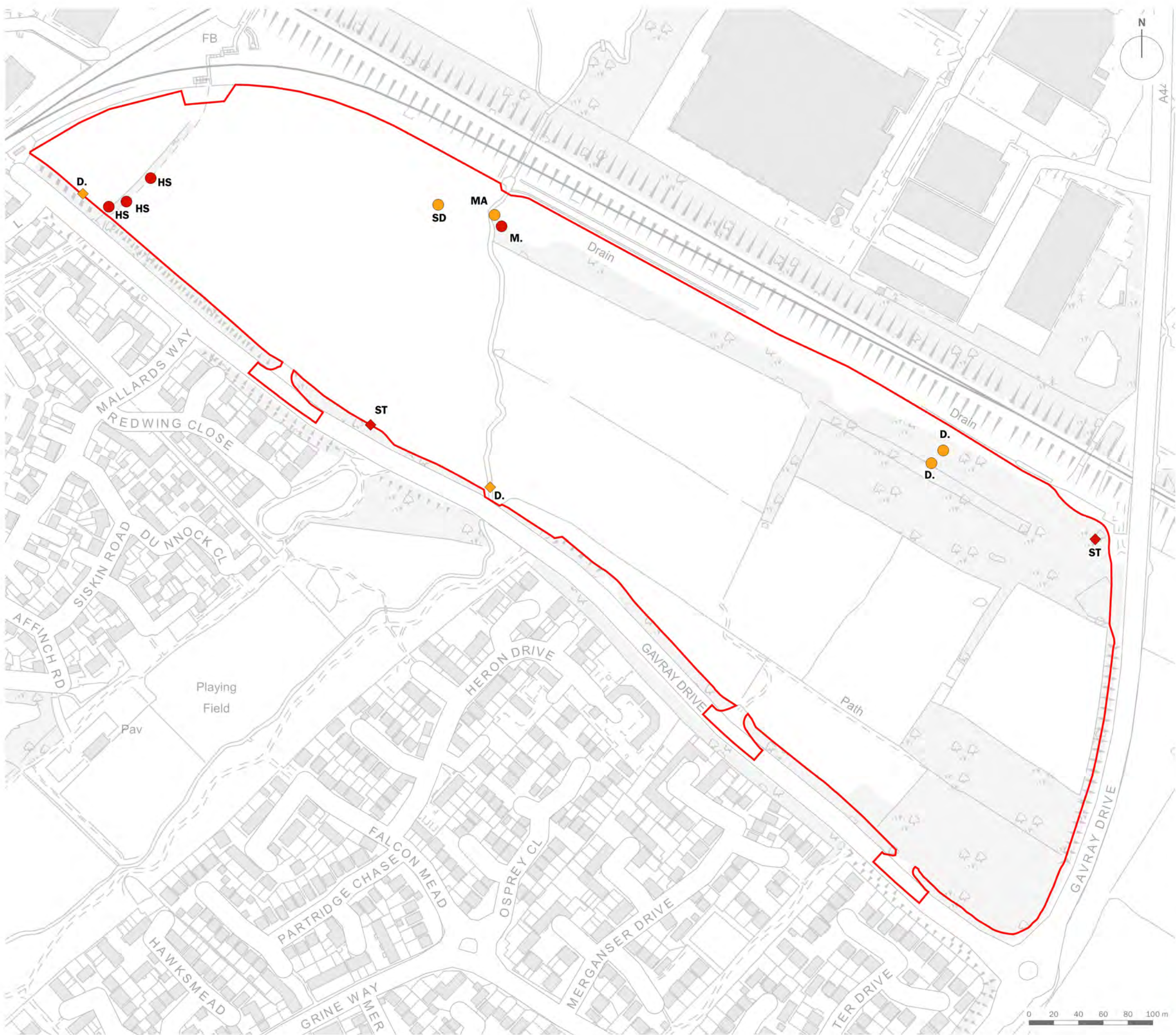
project title
Gavray Drive, Bicester

drawing title
Plan EDP 10: Breeding Bird Survey Results (BOCC only) - April 2020

date **13 JULY 2021** drawn by **MJC**
drawing number **edp0124_d139a** checked **VF**
scale **1:3,000 @ A3** QA **GY**



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- Site Boundary
- Red Listed Bird
- Amber Listed Bird
- ◇ Singing Bird

Label	Species
D.	Dunnock (<i>Prunella modularis</i>)
HS	House Sparrow (<i>Passer domesticus</i>)
M.	Mistle Thrush (<i>Turdus viscivorus</i>)
MA	Mallard (<i>Anas platyrhynchos</i>)
SD	Stock Dove (<i>Columba oenas</i>)
ST	Song Thrush (<i>Turdus philomelos</i>)

client
L&Q Estates

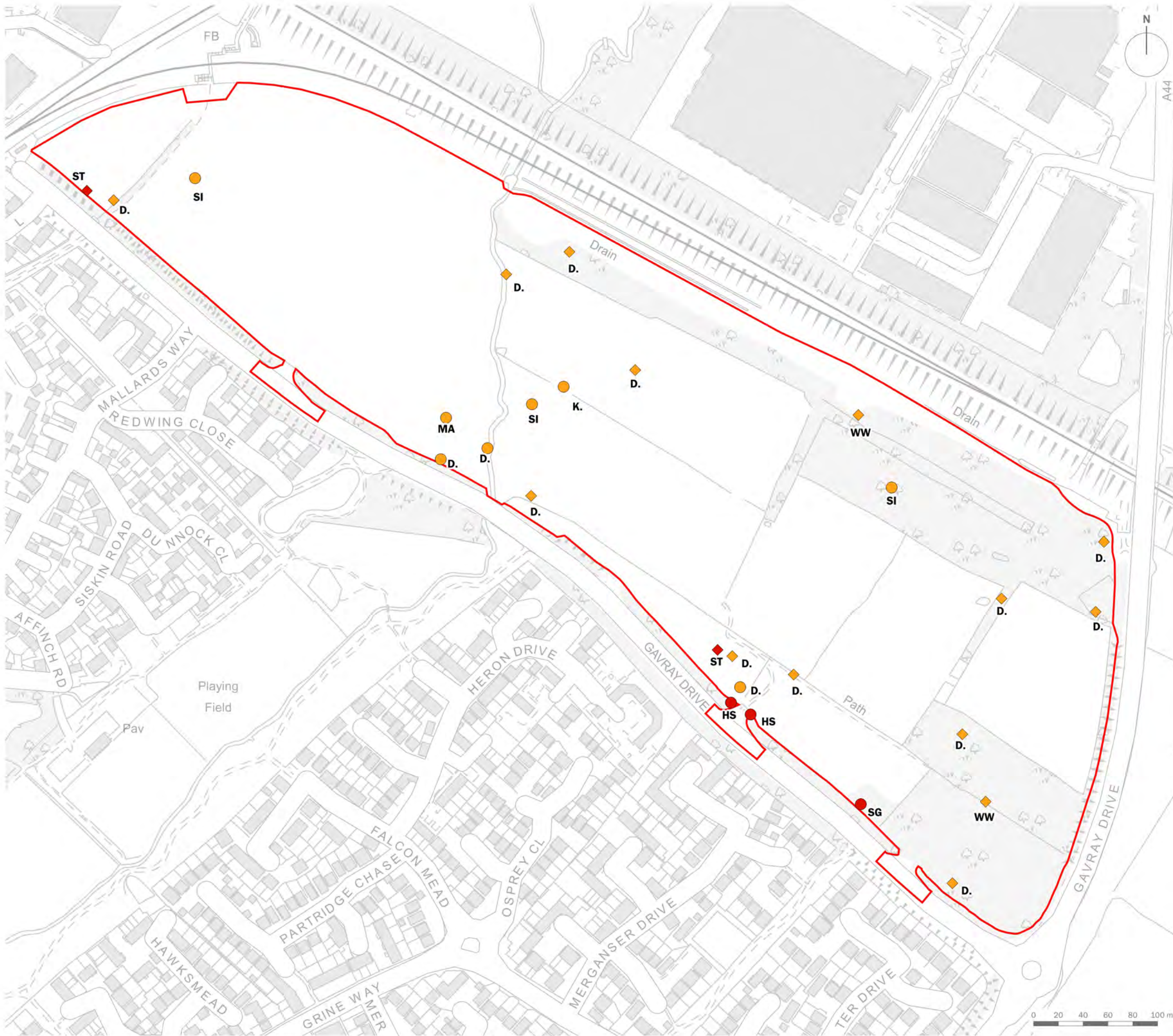
project title
Gavray Drive, Bicester

drawing title
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date **13 JULY 2021** drawn by **MJC**
drawing number **edp0124_d140a** checked **VF**
scale **1:3,000 @ A3** QA **GY**



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- Site Boundary
- Red Listed Bird
- Amber Listed Bird
- ◇ Singing Bird

Label	Species
D.	Dunnock (<i>Prunella modularis</i>)
HS	House Sparrow (<i>Passer domesticus</i>)
K.	Kestrel (<i>Falco tinnunculus</i>)
MA	Mallard (<i>Anas platyrhynchos</i>)
SG	Starling (<i>Sturnus vulgaris</i>)
SI	Swift (<i>Apus apus</i>)
ST	Song Thrush (<i>Turdus philomelos</i>)
WW	Willow Warbler (<i>Phylloscopus trochilus</i>)

client
L&Q Estates

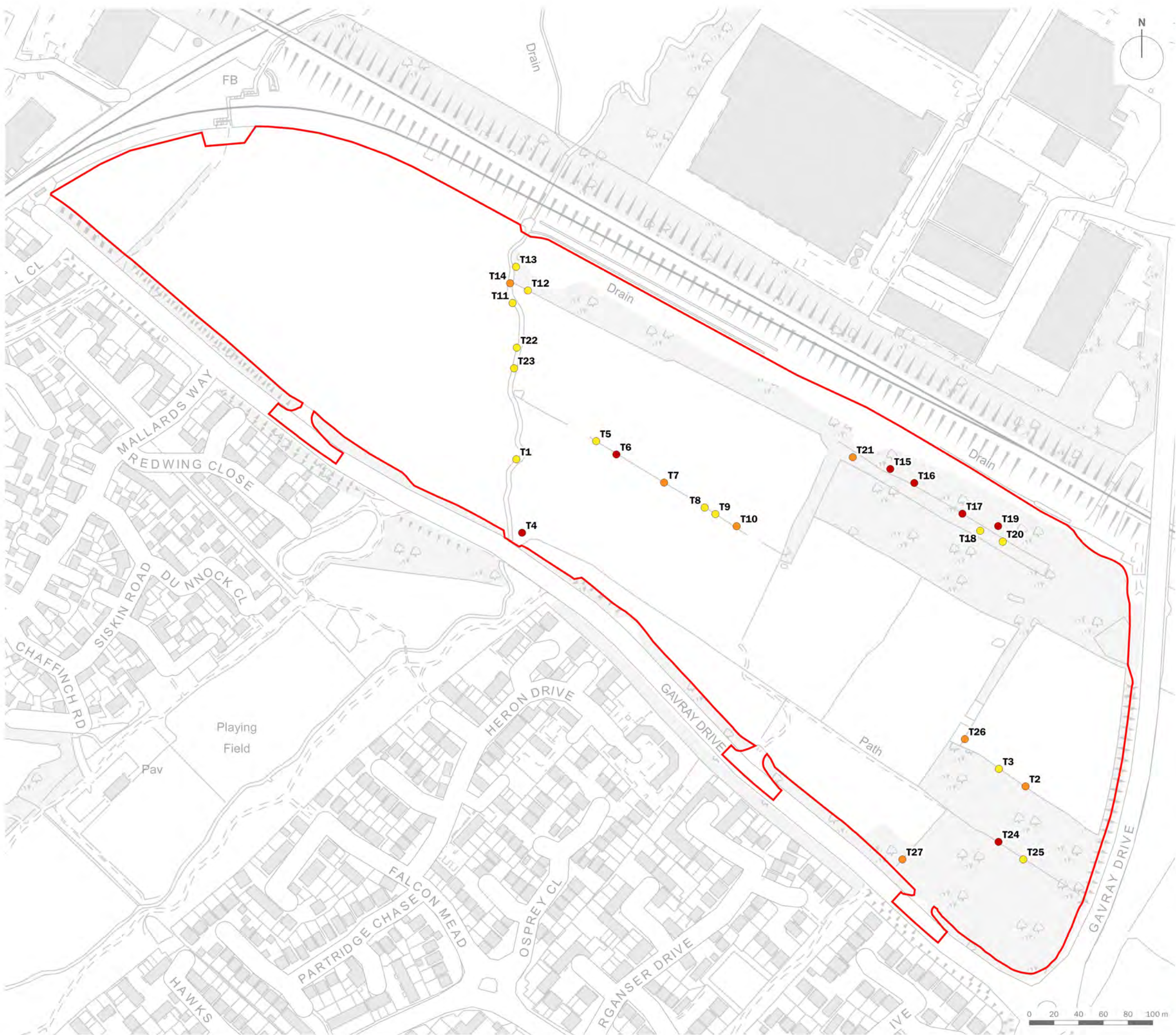
project title
Gavray Drive, Bicester

drawing title
Plan EDP 12: Breeding Bird Survey Results (BOCC only) - June 2020

date **13 JULY 2021** drawn by **MJC**
drawing number **edp0124_d141a** checked **VF**
scale **1:3,000 @ A3** QA **GY**



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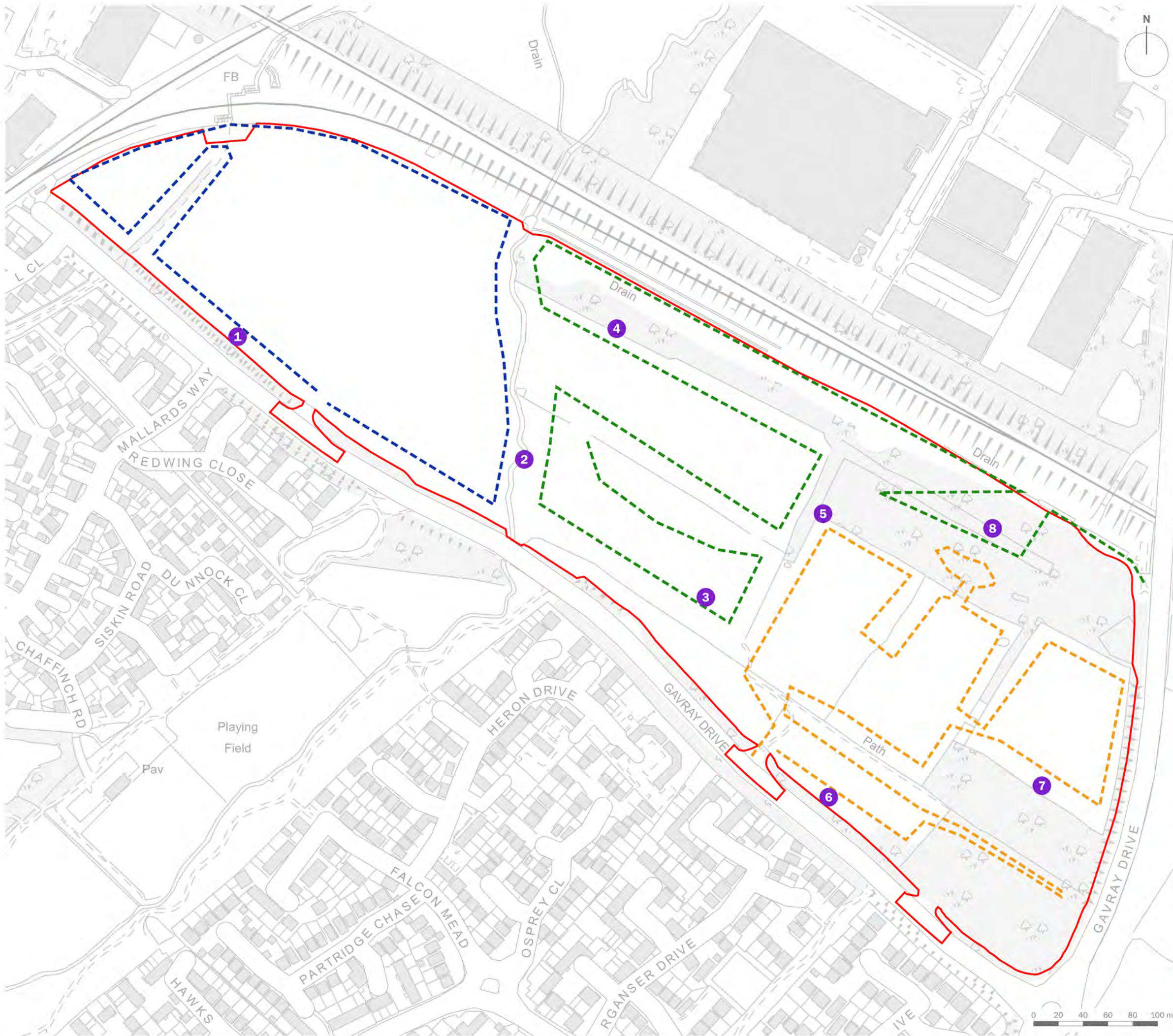


- Site Boundary
- High Bat Roost Potential
- Moderate Bat Roost Potential
- Low Bat Roost Potential
- T1** Tree Number

client		
L&Q Estates		
project title		
Gavray Drive, Bicester		
drawing title		
Plan EDP 13: Trees with Bat Roost Potential		
date	13 JULY 2021	drawn by GY
drawing number	edp0124_d157a	checked VF
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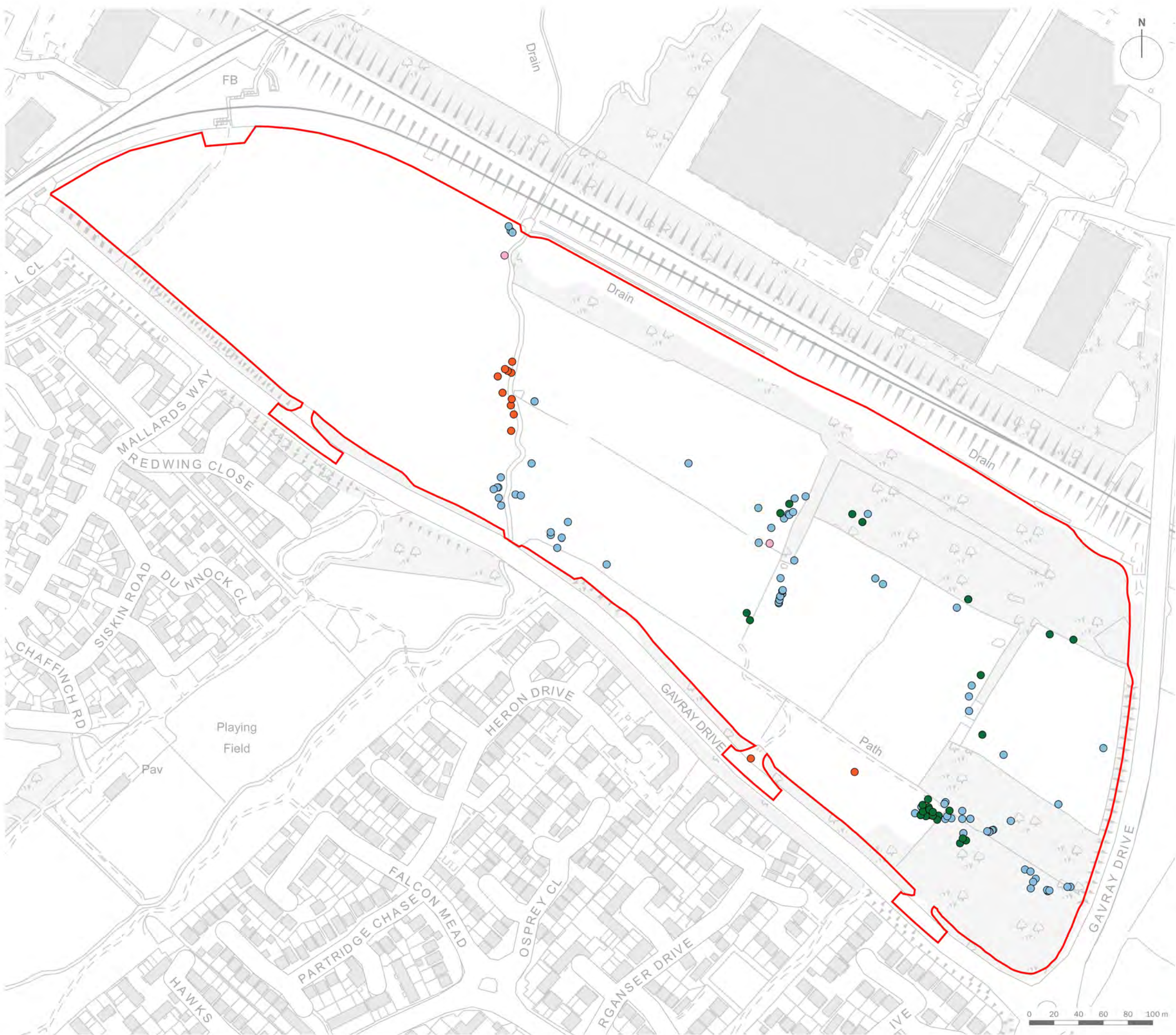


- Site Boundary
- Transect Route 1
- Transect Route 2
- Transect Route 3
- 1 Anabat Location

client		
L&Q Estates		
project title		
Gavray Drive, Bicester		
drawing title		
Plan EDP 14: Bat Transect Routes and Anabat Locations		
date	13 JULY 2021	drawn by GY
drawing number	edp0124_d147a	checked VF
scale	1:3,000 @ A3	QA JTF



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- Site Boundary
- Common Pipistrelle
- Soprano Pipistrelle
- Myotis Sp.
- Noctule



client
L&Q Estates

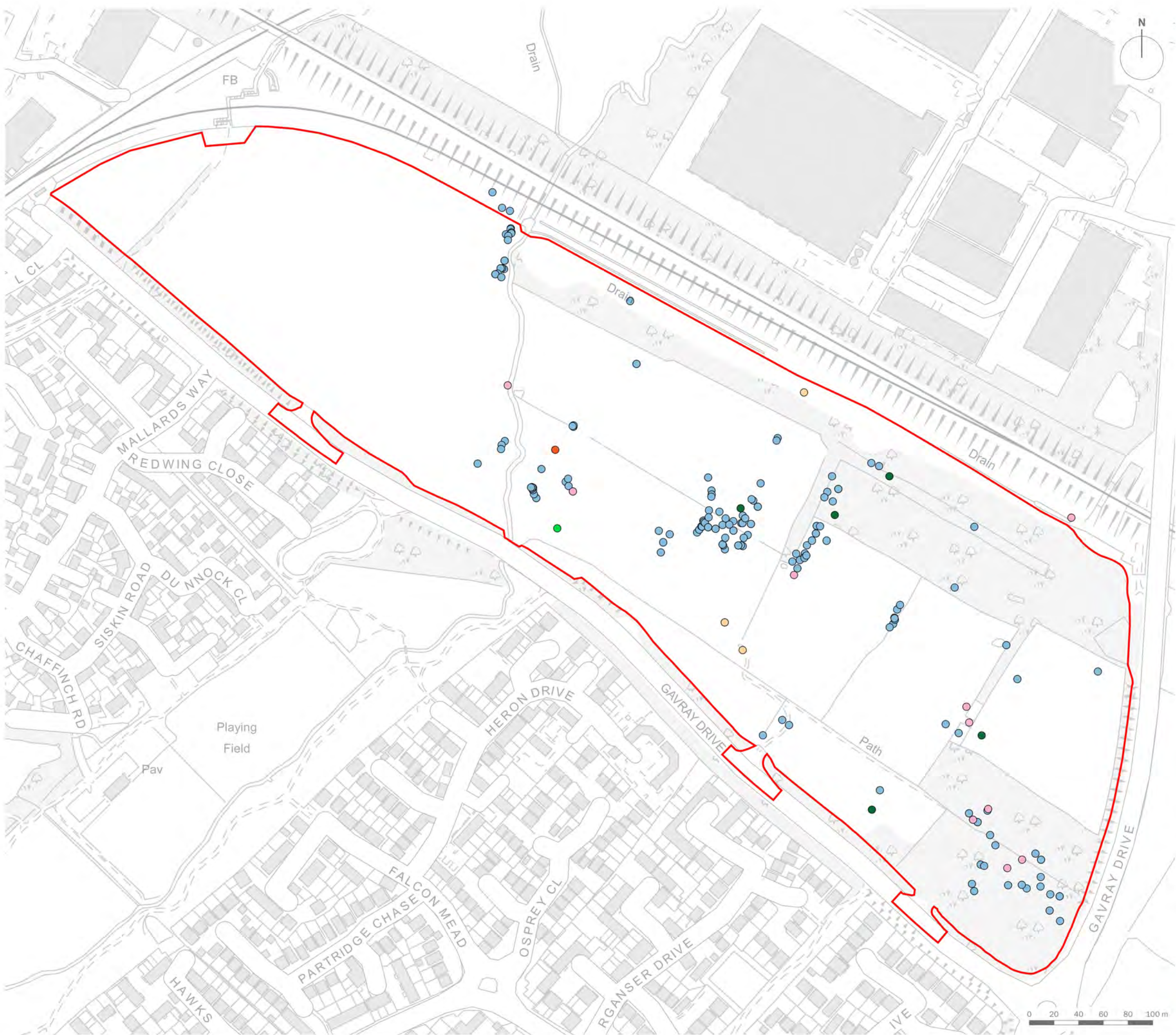
project title
Gavray Drive, Bicester

drawing title
Plan EDP 15: Bat Transect Survey Results - May (Sheet 1 of 6)

date	13 JULY 2021	drawn by	GY
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scale	1:3,000 @ A3	QA	JTF



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- Site Boundary
- Common Pipistrelle
- Soprano Pipistrelle
- Myotis Sp.
- Noctule
- Leisler's Bat
- Long-eared Bat

client
L&Q Estates

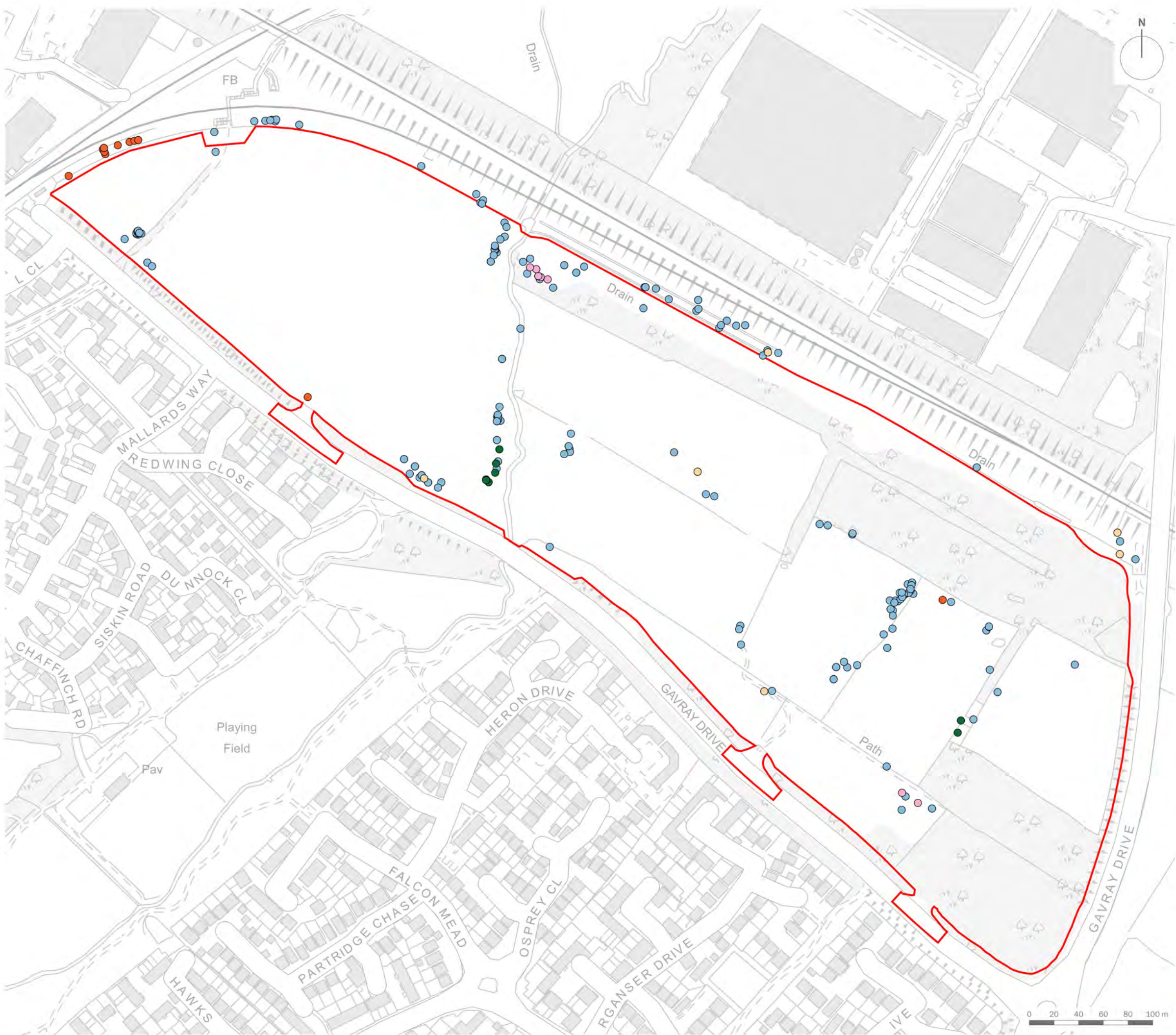
project title
Gavray Drive, Bicester

drawing title
Plan EDP 15: Bat Transect Survey Results - June (Sheet 2 of 6)

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d148a	checked	VF
scale	1:3,000 @ A3	QA	JTF



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- Site Boundary
- Common Pipistrelle
- Soprano Pipistrelle
- Myotis Sp.
- Noctule
- Leisler's Bat



client
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project title
Gavray Drive, Bicester

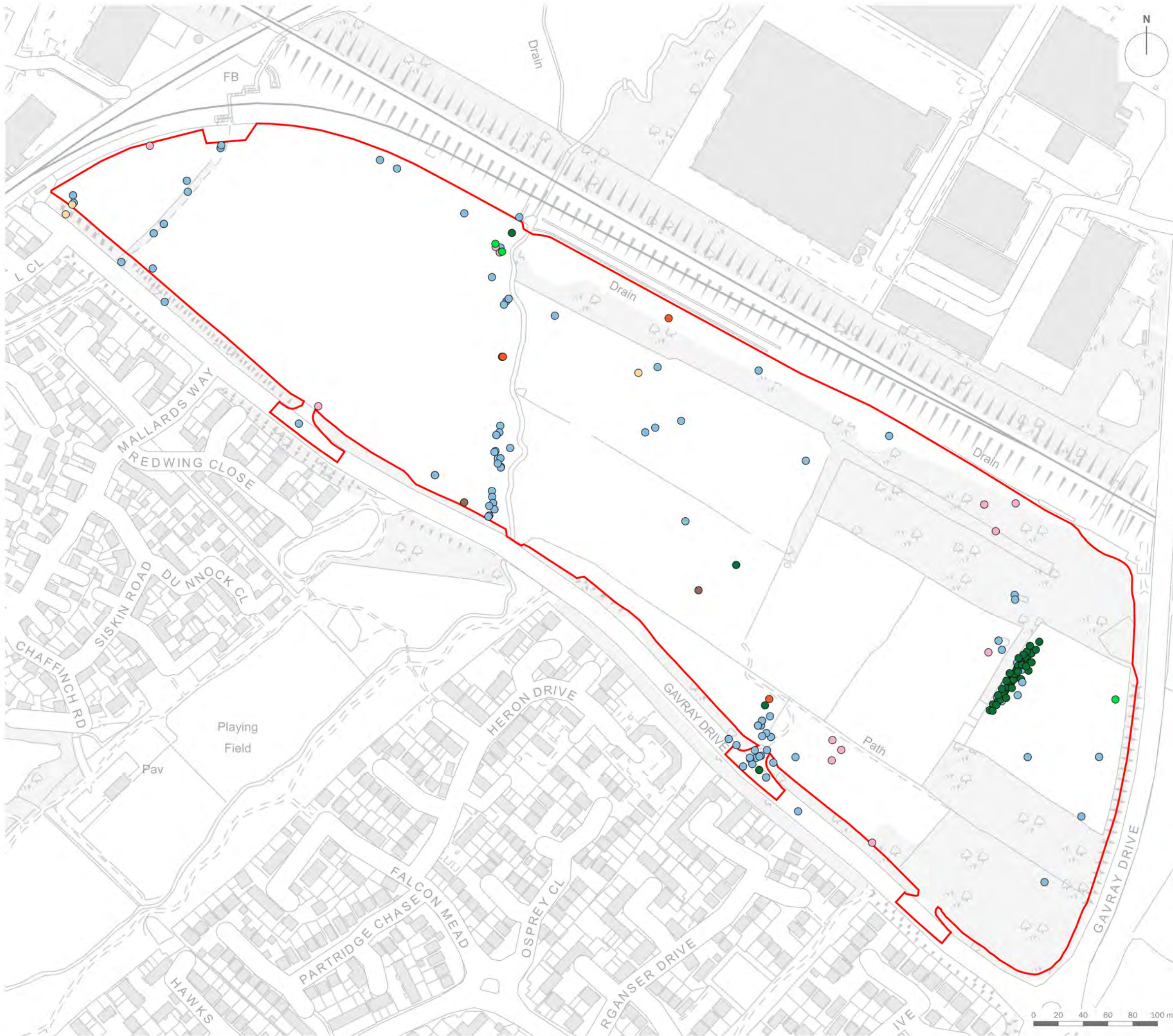
drawing title
Plan EDP 15: Bat Transect Survey Results - July (Sheet 3 of 6)

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d148a	checked	VF
scale	1:3,000 @ A3	QA	JTF



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- Site Boundary
- Common Pipistrelle
- Soprano Pipistrelle
- Myotis Sp.
- Noctule
- Leisler's Bat
- Long-eared Bat
- Serotine

client
L&Q Estates

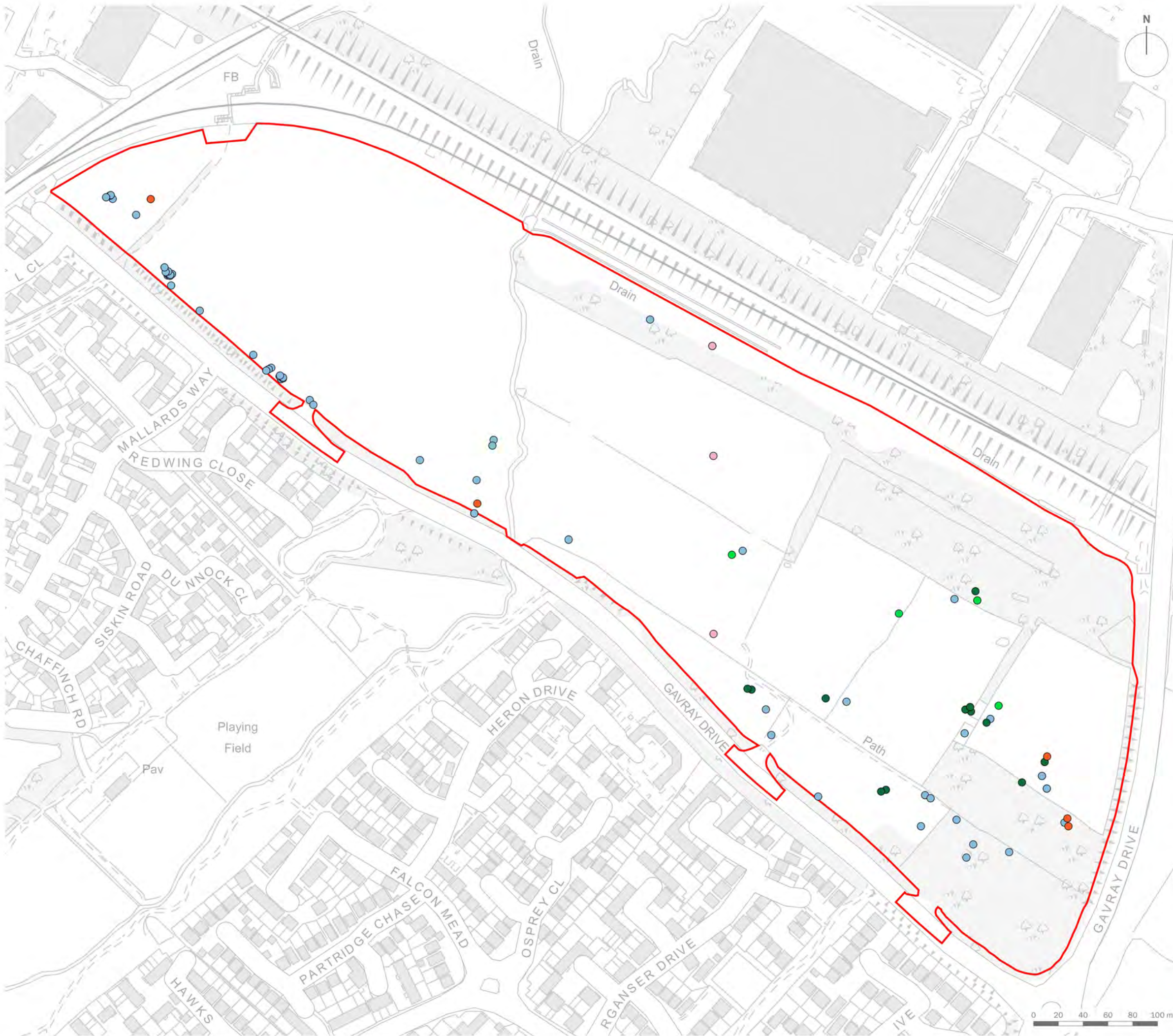
project title
Gavray Drive, Bicester

drawing title
Plan EDP 15: Bat Transect Survey Results - August (Sheet 4 of 6)

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d148a	checked	VF
scale	1:3,000 @ A3	QA	JTF



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- Site Boundary
- Common Pipistrelle
- Soprano Pipistrelle
- Myotis Sp.
- Noctule
- Long-eared Bat

client
L&Q Estates

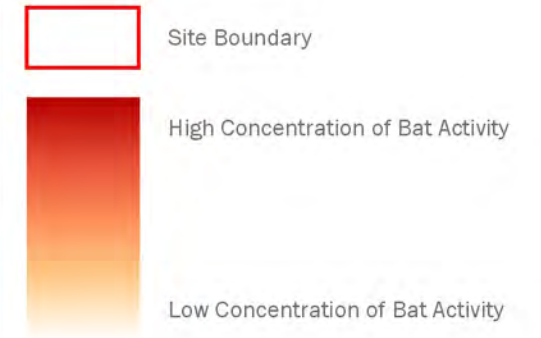
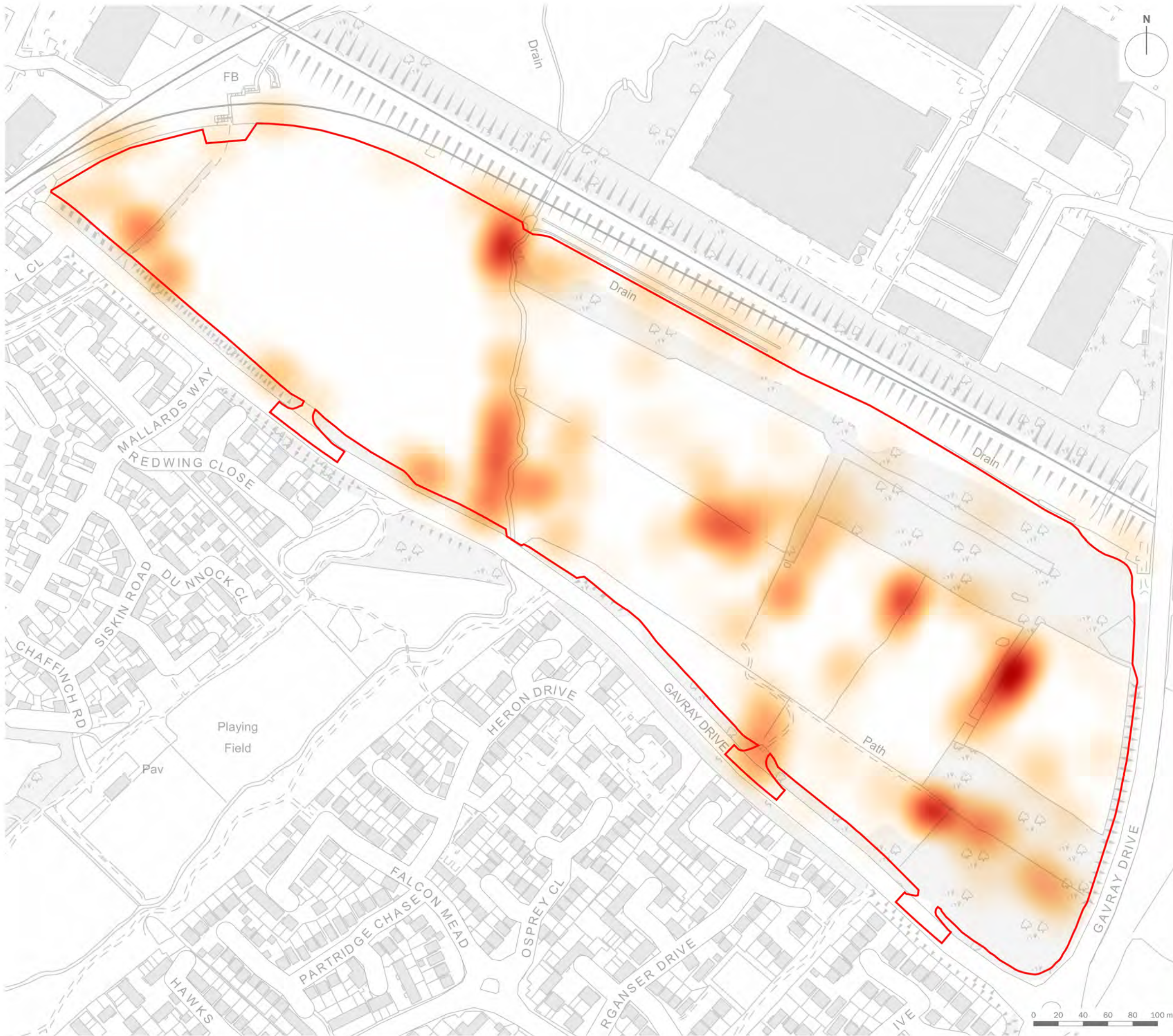
project title
Gavray Drive, Bicester

drawing title
Plan EDP 15: Bat Transect Survey Results - September (Sheet 5 of 6)

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d148a	checked	VF
scale	1:3,000 @ A3	QA	JTF



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client
L&Q Estates

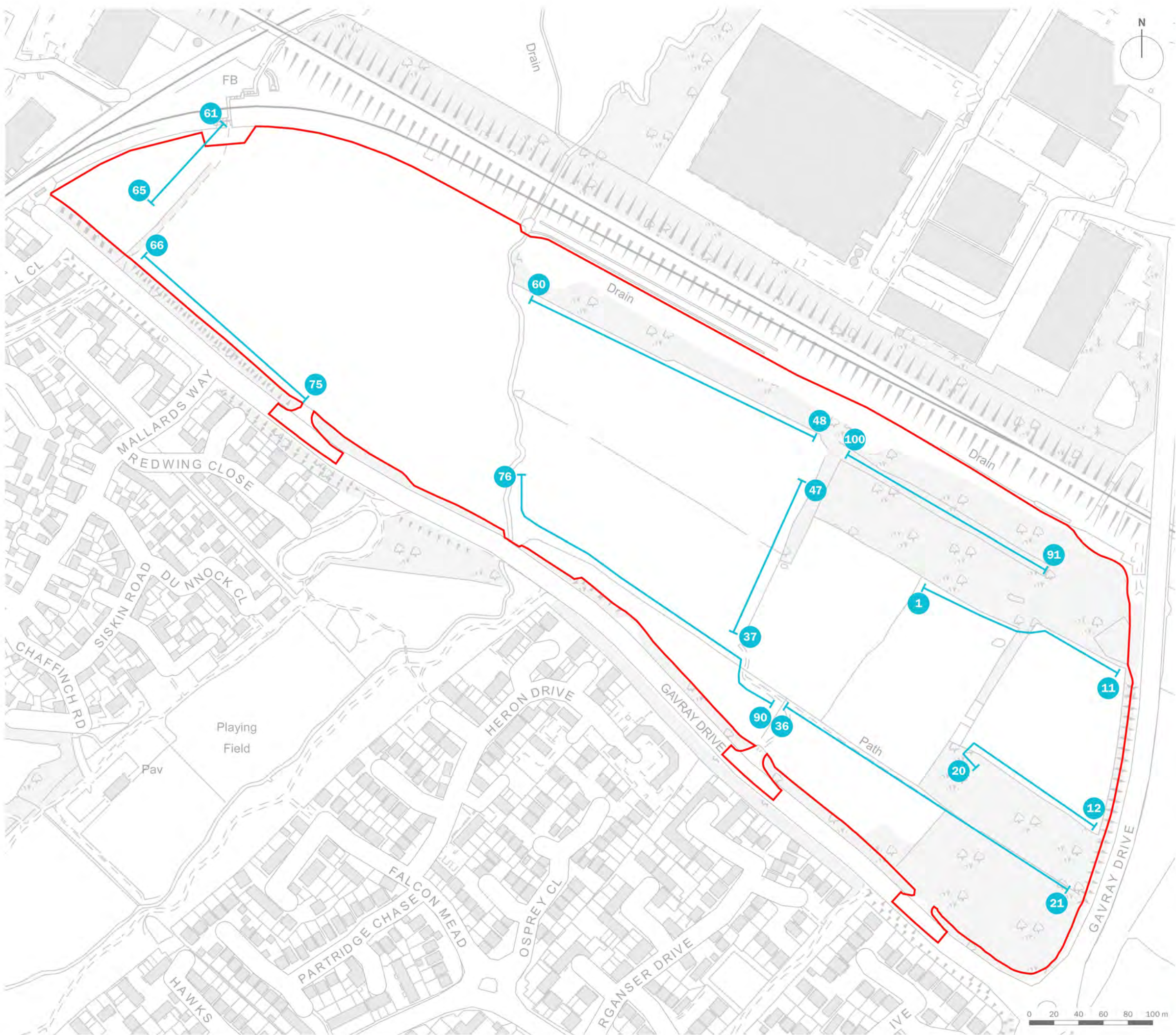
project title
Gavray Drive, Bicester

drawing title
Plan EDP 15: Bat Transect Survey Results - Combined (Sheet 6 of 6)

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d148a	checked	VF
scale	1:3,000 @ A3	QA	JTF



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Site Boundary
 Dormouse Tubes

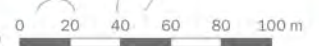


client
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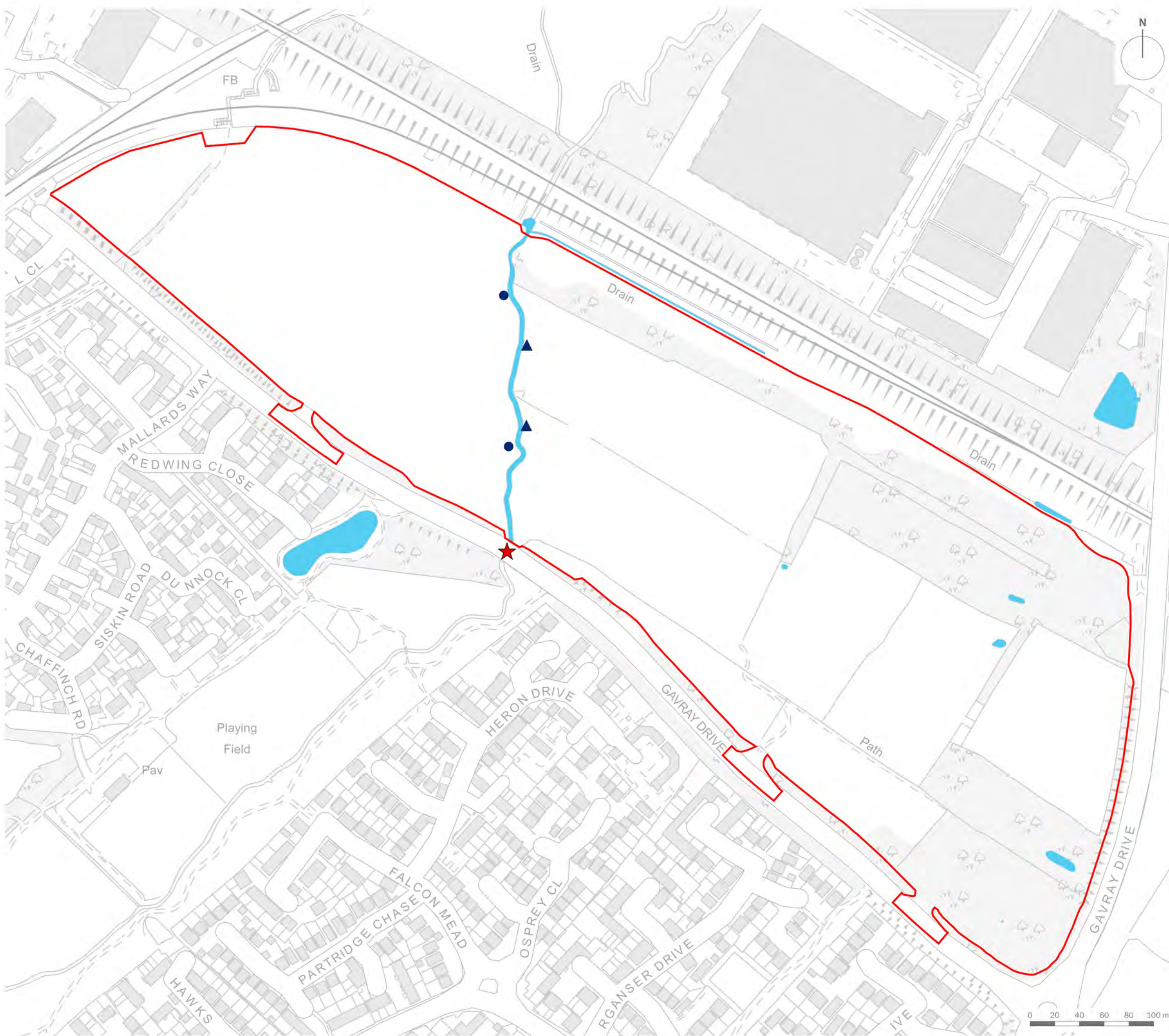
project title
Gavray Drive, Bicester

drawing title
Plan EDP 16: Dormouse Survey Plan

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d149a	checked	VF
scale	1:3,000 @ A3	QA	JTF



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- Site Boundary
- Possible Water Vole Burrow
- ▲ Possible Water Vole Feeding Sign
- ★ Otter Spraint and Footprint Under Bridge
- Water

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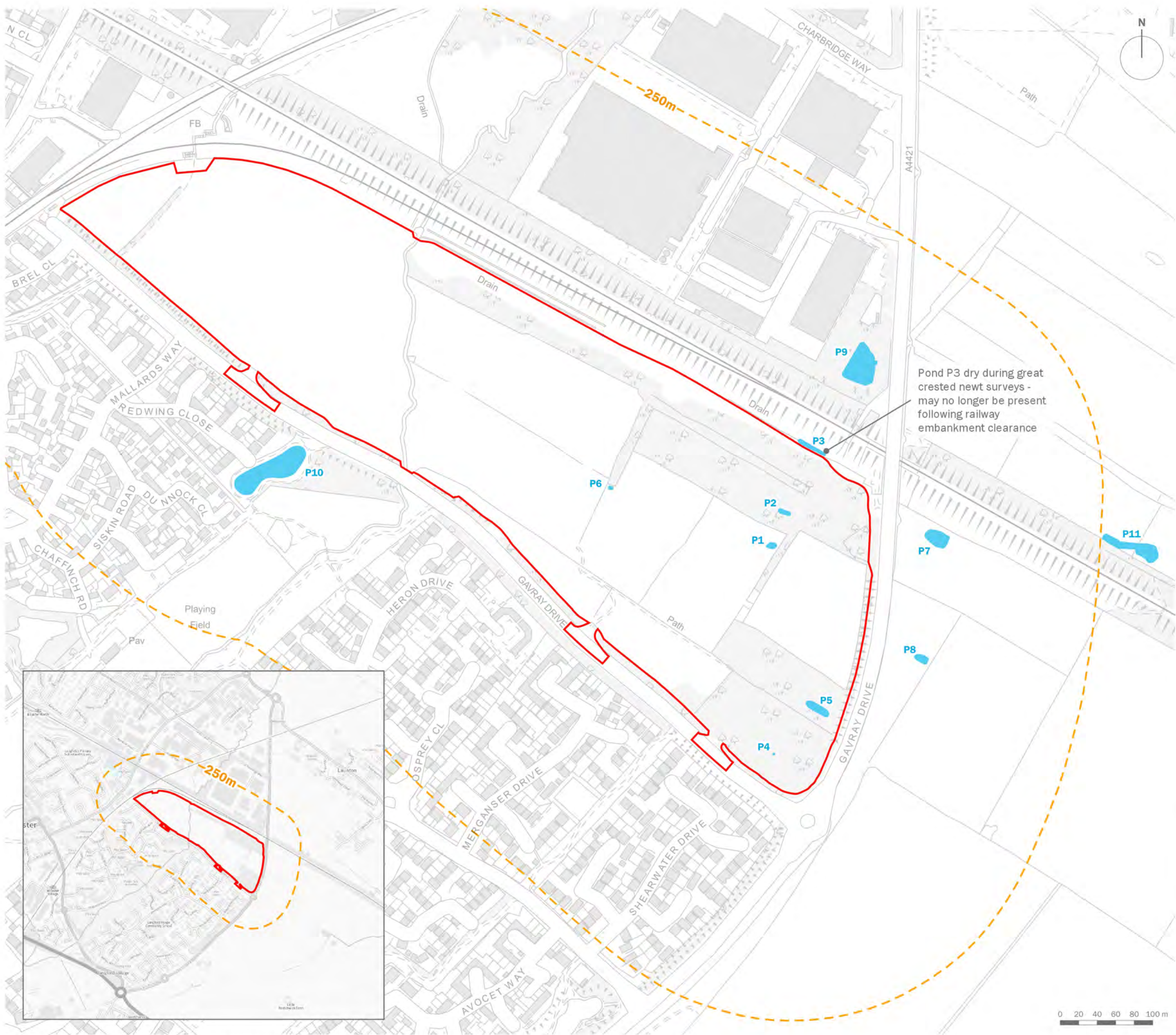
project title
Gavray Drive, Bicester

drawing title
Plan EDP 17: Otter and Water Vole Survey Results

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d150a	checked	VF
scale	1:3,000 @ A3	QA	JTF

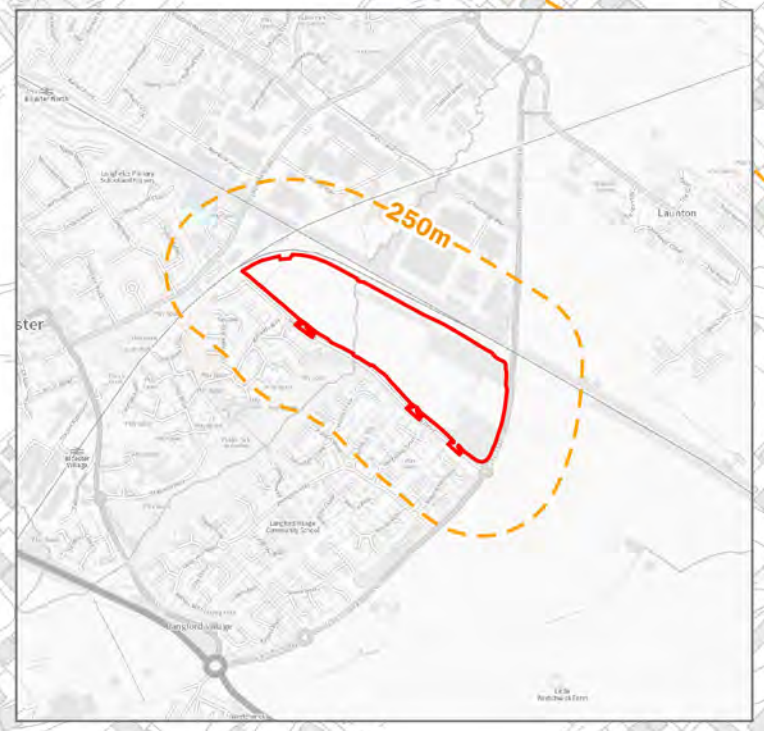


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- Site Boundary
- 250m Site Radius
- Ponds

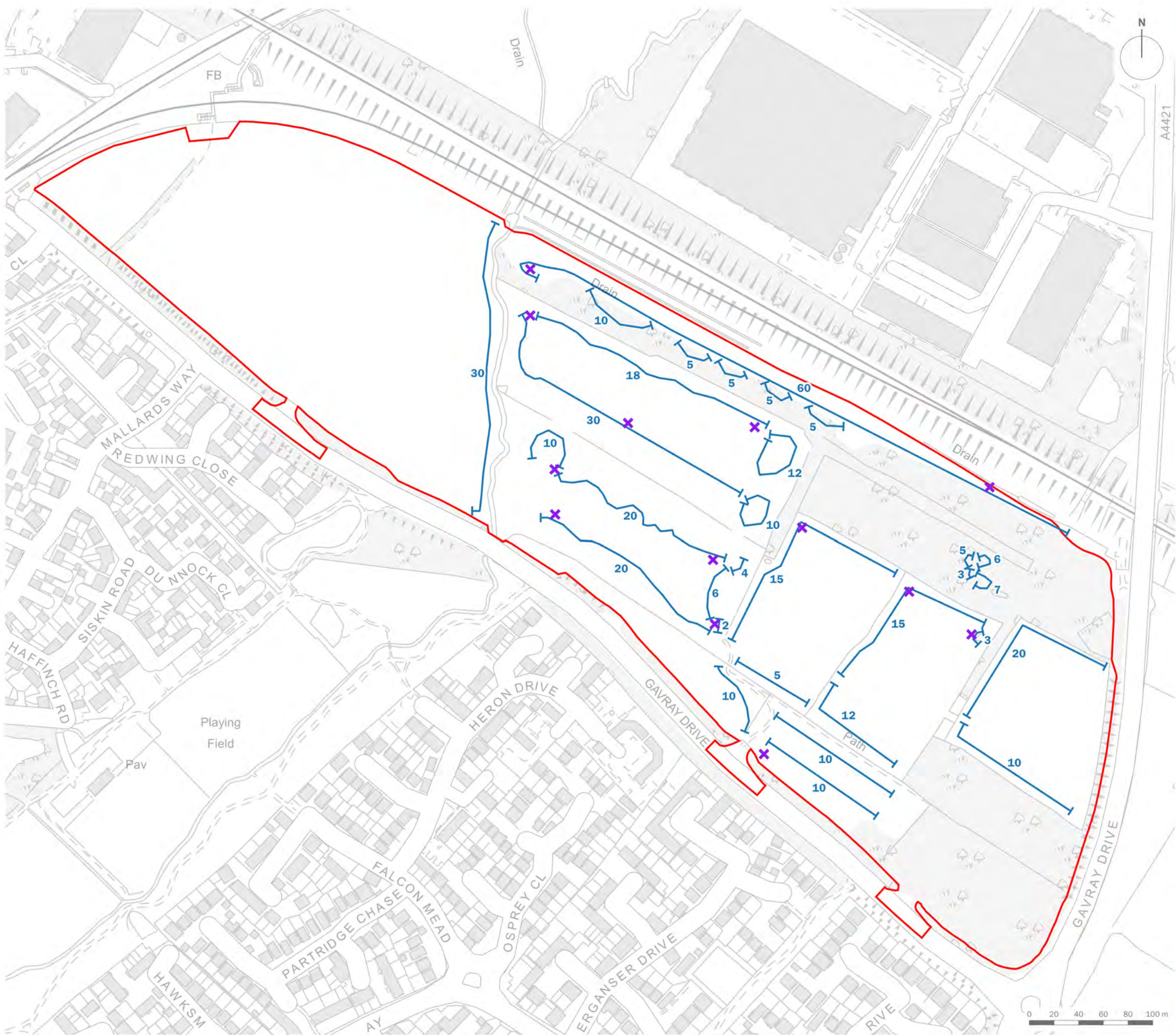
Pond P3 dry during great crested newt surveys - may no longer be present following railway embankment clearance



client	L&Q Estates	
project title	Gavray Drive, Bicester	
drawing title	Plan EDP 18: Great Crested Newt Survey Plan	
date	13 JULY 2021	drawn by GY
drawing number	edp0124_d151a	checked VF
scale	1:4,000 @ A3	QA JTF



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- Site Boundary
- Reptile Refugia
- Roofing Felt Refugia
- x Corrugated Metal Sheetting Refugia



A4421

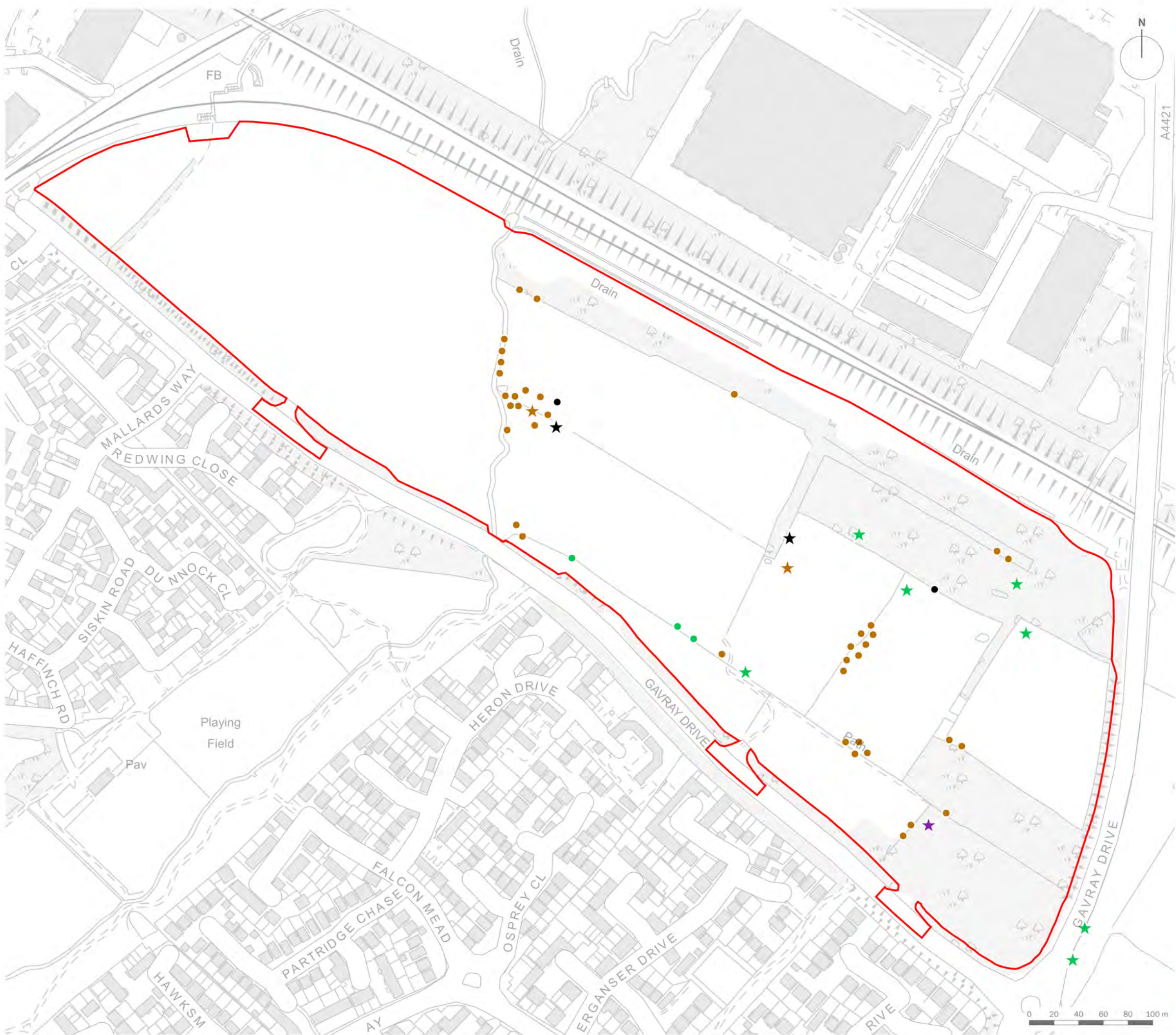
client
L&Q Estates

project title
Gavray Drive, Bicester

drawing title
Plan EDP 19: Reptile Survey Plan

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d152a	checked	VF
scale	1:3,000 @ A3	QA	JTF





- Site Boundary

- Black Hairstreak
- ★ Adult
- Eggs

- Brown Hairstreak
- ★ Adult
- Eggs

- White-letter Hairstreak
- ★ Adult
- Eggs

- Purple Hairstreak
- ★ Adult

client
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project title
Gavray Drive, Bicester

drawing title
Plan EDP 20: Hairstreak Butterfly Records 2020

date	13 JULY 2021	drawn by	GY
drawing number	edp0124_d154a	checked	VF
scale	1:3,000 @ A3	QA	JTF



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the environmental
dimension partnership

CARDIFF
02921 671900

CHELtenham
01242 903110

CIRENCESTER
01285 740427

info@edp-uk.co.uk
www.edp-uk.co.uk

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