

# Lower Thames Crossing

## 6.3 Environmental Statement Appendices Appendix 8.17 - Draft EPS mitigation licence application - great crested newts (Tracked changes version)

(5 of 8)

APFP Regulation 5(2)(a)

Infrastructure Planning (Applications:  
Prescribed Forms and Procedure)  
Regulations 2009

Volume 6

**DATE: December 2023**  
**DEADLINE: 8**

Planning Inspectorate Scheme Ref: TR010032  
Application Document Ref: TR010032/APP/6.3

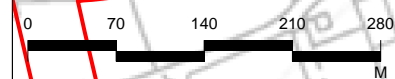
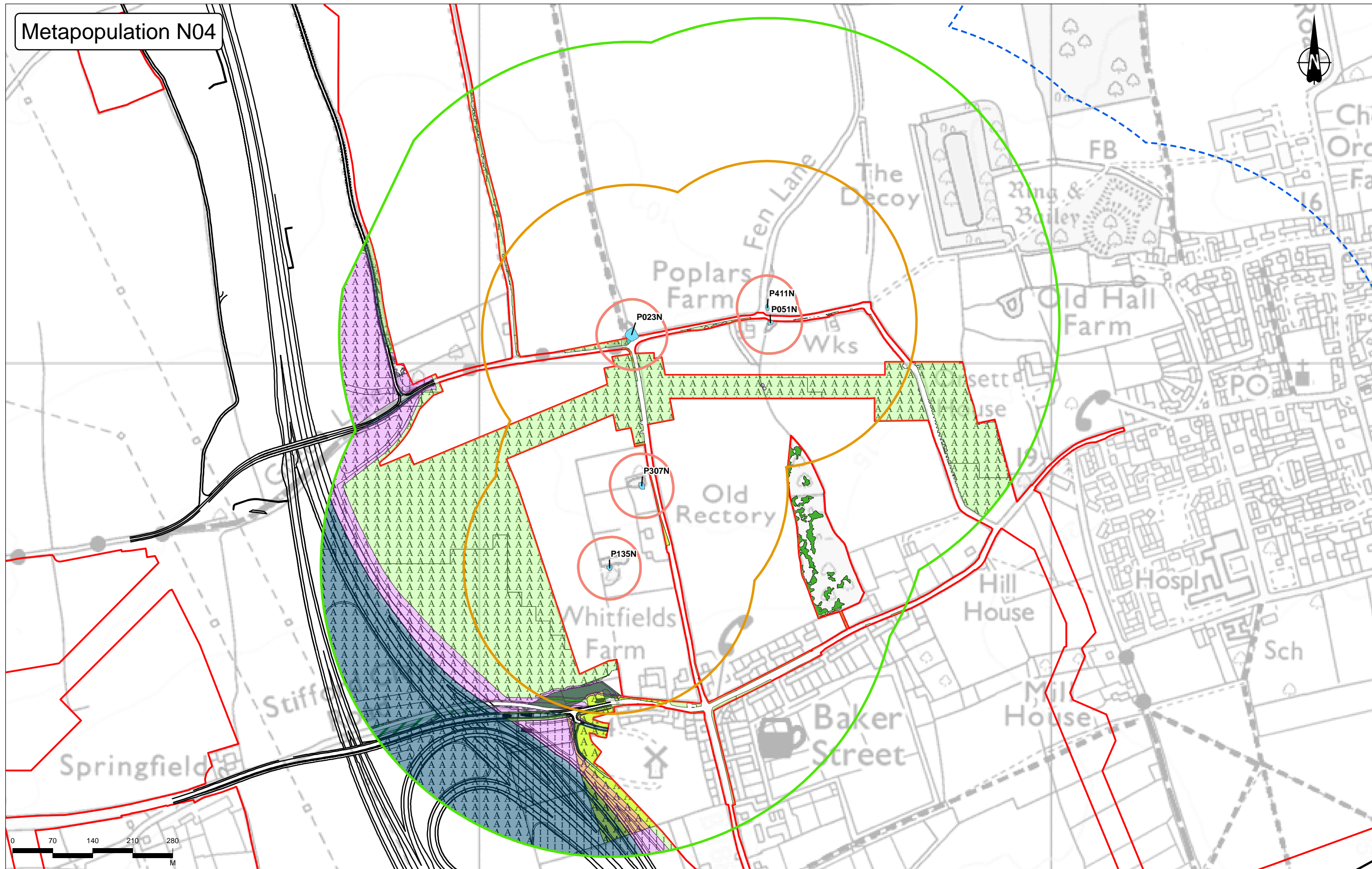
**VERSION: 2.0**

### Revision history

<b>Version</b>	<b>Date</b>	<b>Submitted at</b>
1.0	31 October 2022	DCO Application
2.0	5 December 2023	Deadline 8

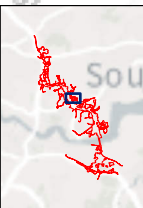


Metapopulation N04



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P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

Legend	
Order Limits	Permanent habitat loss (landscaping)
Route alignment	Broad-leaved semi-natural woodland
GCN survey area	Broad-leaved plantation woodland
Ponds	Dense/continuous scrub
Ponds	Permanent habitat loss (alignment)
50m pond buffer	Temporary habitat loss
250m pond buffer	Phase 1 Habitat
500m pond buffer	Broad-leaved semi-natural woodland
Habitat Impact Category	Broad-leaved plantation woodland
Permanent habitat loss (landscaping)	Standing water
Permanent habitat loss (alignment)	Semi-improved neutral grassland
Temporary habitat loss	Improved grassland
Phase 1 Habitat	Poor semi-improved grassland
Broad-leaved semi-natural woodland	Tall ruderal
Broad-leaved plantation woodland	Standing water
Dense/continuous scrub	Arable
Semi-improved neutral grassland	Buildings
Improved grassland	Bare ground
Poor semi-improved grassland	Other habitat
Tall ruderal	Amenity grassland

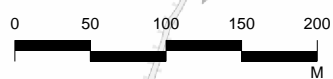
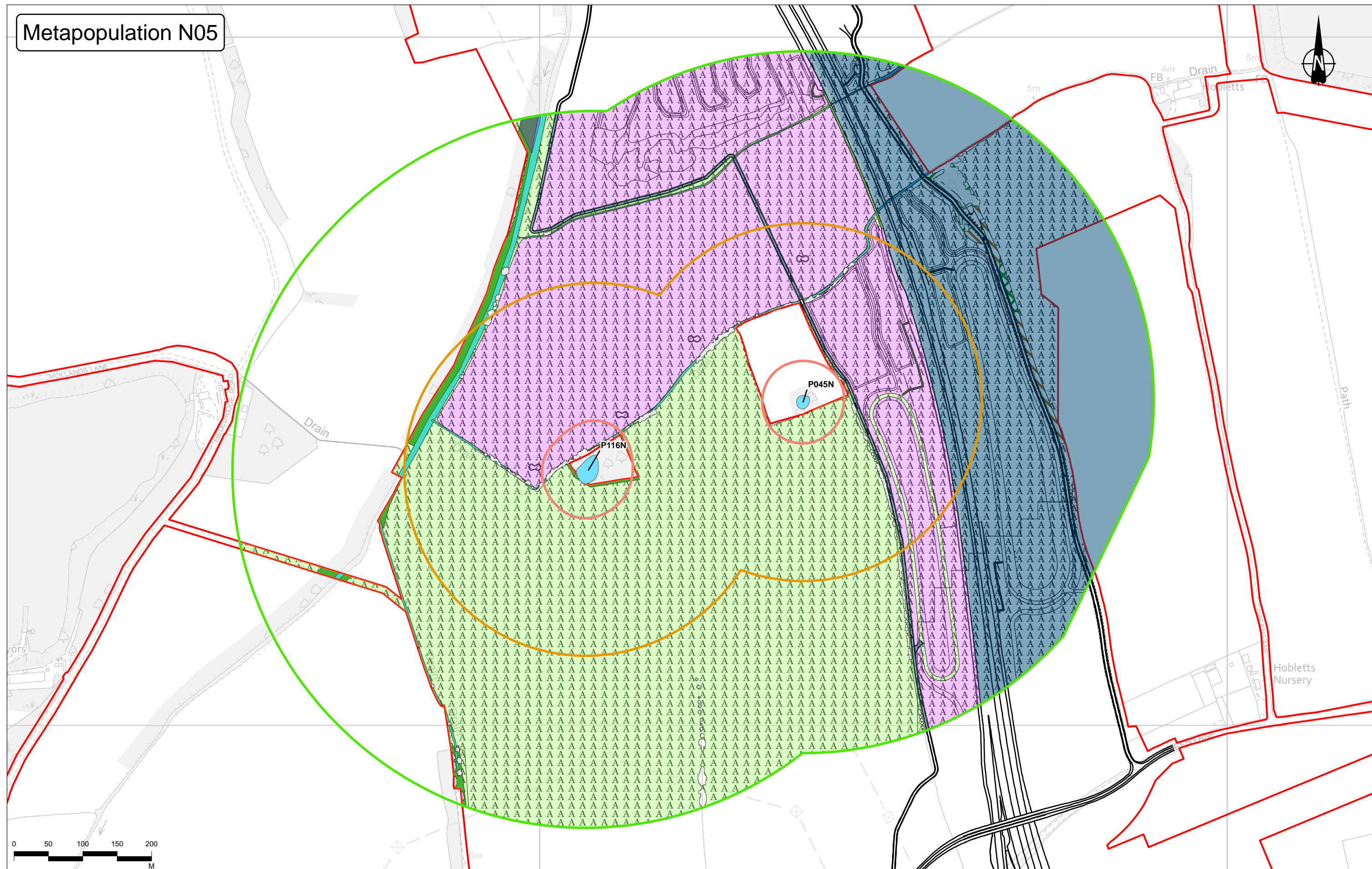


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Metapopulation N04				
	Page 17 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



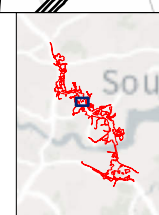
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	<b>Habitat Impact Category</b>
Ponds	Temporary habitat loss
	Permanent habitat loss (landscaping)
	Permanent habitat loss (alignment)
Broad-leaved semi-natural woodland	Tall ruderal
Broad-leaved plantation woodland	Standing water
Dense/continuous scrub	Running water
Poor semi-improved grassland	Spoil with tall ruderal
	Arable
	Bare ground

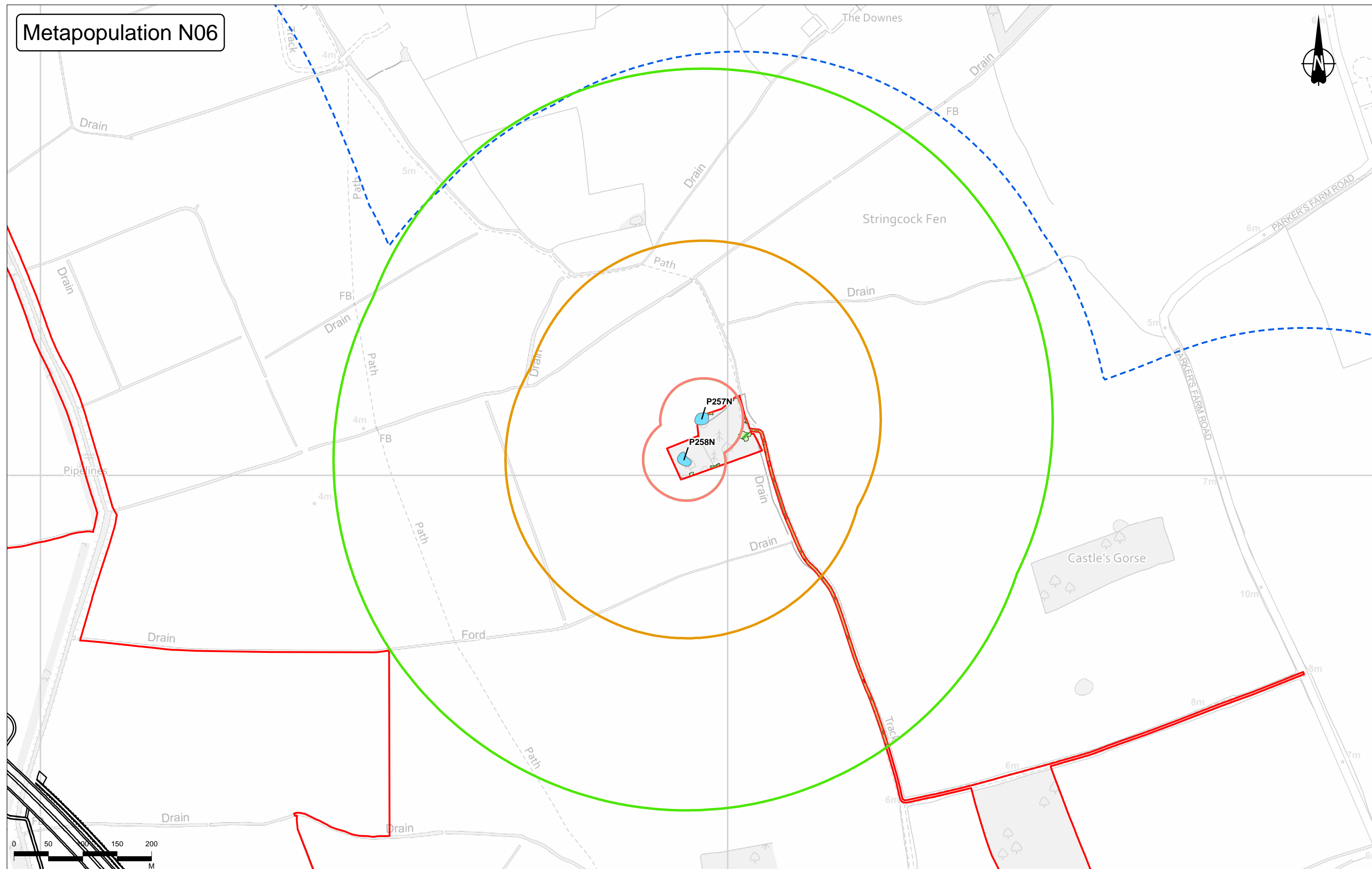


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
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	Page 18 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

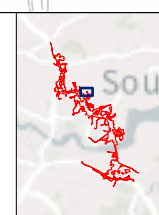
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Broad-leaved plantation woodland
Ponds	Tall ruderal
Permanent habitat loss (alignment)	Temporary habitat loss
Phase 1 Habitat	Standing water
Broad-leaved plantation woodland	Arable
Tall ruderal	Bare ground
Permanent habitat loss (landscaping)	



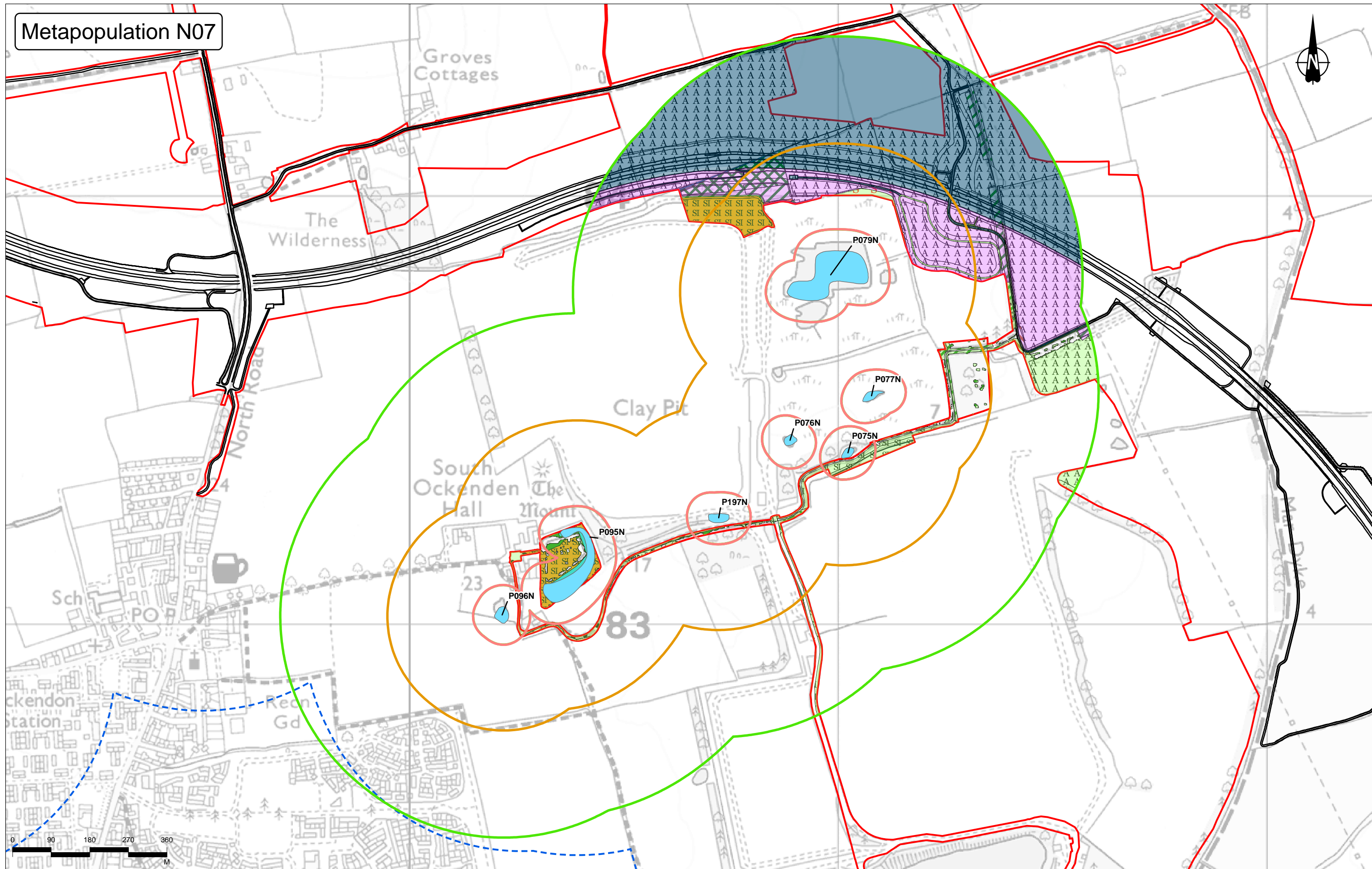
Client: national highways

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Status	DCO APPLICATION	Original Size	A3	Revision	P03
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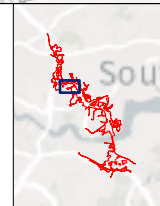
Metapopulation N07



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	Pond buffers
Route alignment	50m pond buffer
GCN survey area	250m pond buffer
Ponds	500m pond buffer
Ponds	<b>Habitat Impact Category</b>
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Temporary habitat loss
Temporary habitat loss	Semi-improved neutral grassland
Phase 1 Habitat	Poor semi-improved grassland
Broad-leaved semi-natural woodland	Tall ruderal
Broad-leaved plantation woodland	Standing water
Dense/continuous scrub	Running water
Spoil with bare ground	Buildings
Arable	Bare ground
Other habitat	Other habitat



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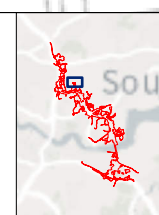
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	Page 20 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

Metapopulation N08



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<b>Legend</b>	<b>Phase 1 Habitat</b>	<b>Habitat Impact Category</b>	<b>Pond buffers</b>
<ul style="list-style-type: none"> <li>Order Limits</li> <li>Route alignment</li> <li>GCN survey area</li> <li>Ponds</li> <li>Ponds</li> <li>50m pond buffer</li> </ul>	<ul style="list-style-type: none"> <li>Broad-leaved plantation woodland</li> <li>Dense/continuous scrub</li> <li>Improved grassland</li> <li>Poor semi-improved grassland</li> <li>Tall ruderal</li> <li>Standing water</li> </ul>	<ul style="list-style-type: none"> <li>Permanent habitat loss (landscaping)</li> <li>Permanent habitat loss (alignment)</li> <li>Temporary habitat loss</li> </ul>	<ul style="list-style-type: none"> <li>250m pond buffer</li> <li>500m pond buffer</li> <li>Arable</li> <li>Amenity grassland</li> <li>Buildings</li> <li>Bare ground</li> <li>Other habitat</li> </ul>



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
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	Page 21 of 38				
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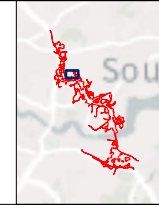
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Permanent habitat loss (alignment)
Ponds	Temporary habitat loss
Ponds	Phase 1 Habitat
Ponds	Broad-leaved plantation woodland
Ponds	Dense/continuous scrub
Ponds	Poor semi-improved grassland
Ponds	Standing water
Ponds	Arable
Ponds	Amenity grassland
Ponds	Bare ground
Ponds	Other habitat



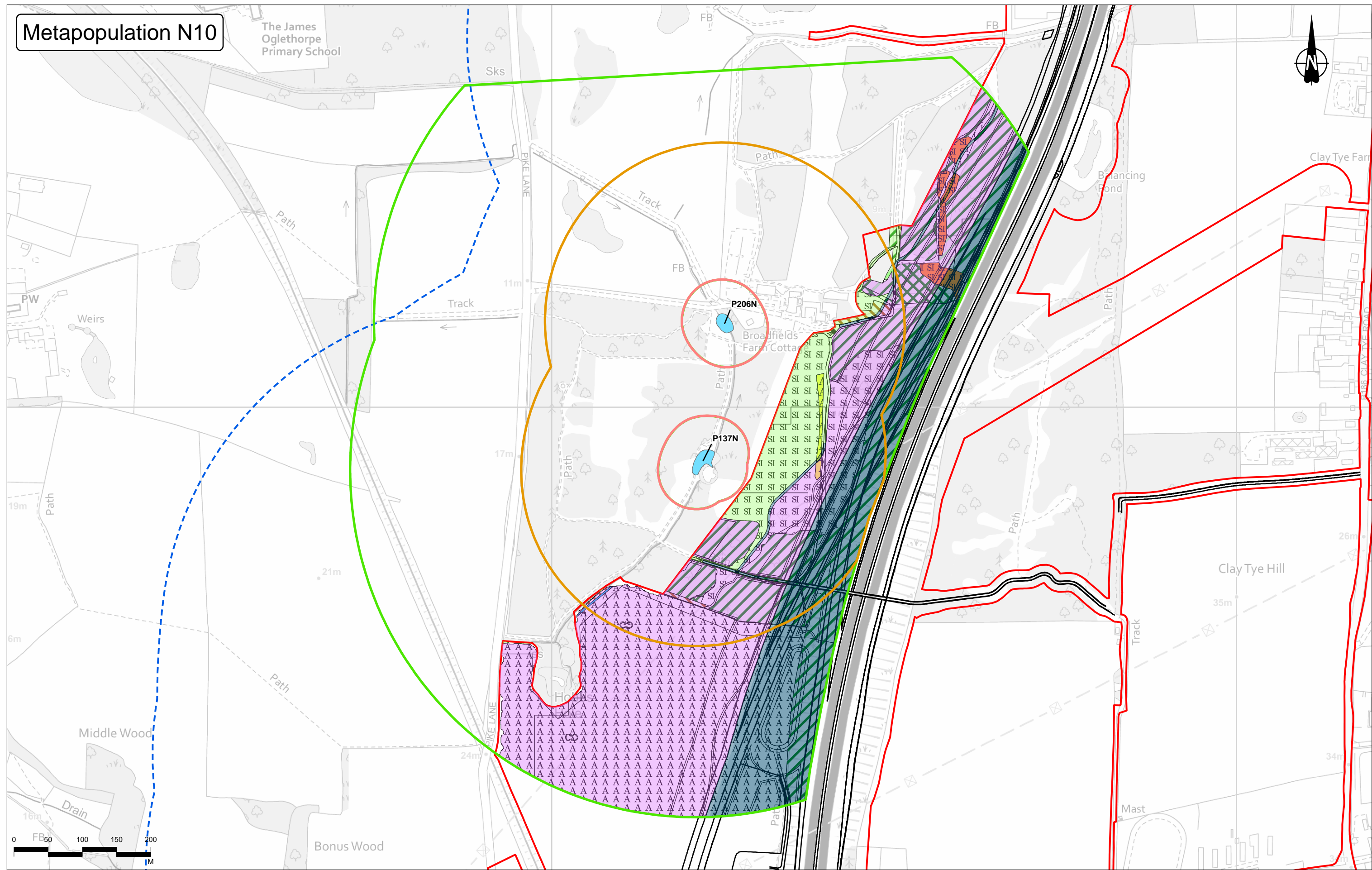
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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
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Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

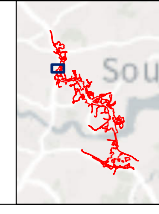
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The James Oglethorpe Primary School



P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

Legend		Pond buffers		Phase 1 Habitat		Habitat Impact Category	
	Order Limits		50m pond buffer		Permanent habitat loss (alignment)		Permanent habitat loss (landscaping)
	Route alignment		250m pond buffer		Temporary habitat loss		Broad-leaved semi-natural woodland
	GCN survey area		500m pond buffer		Broad-leaved plantation woodland		Coniferous plantation woodland
	Ponds		Ponds		Mixed plantation woodland		Dense/continuous scrub
	Ponds		Ponds		Dense/continuous scrub		Improved grassland
			Ponds		Semi-improved neutral grassland		Poor semi-improved grassland
			Ponds		Arable		Bare ground
			Ponds		Amenity grassland		
			Ponds		Tall ruderal		
			Ponds		Running water		



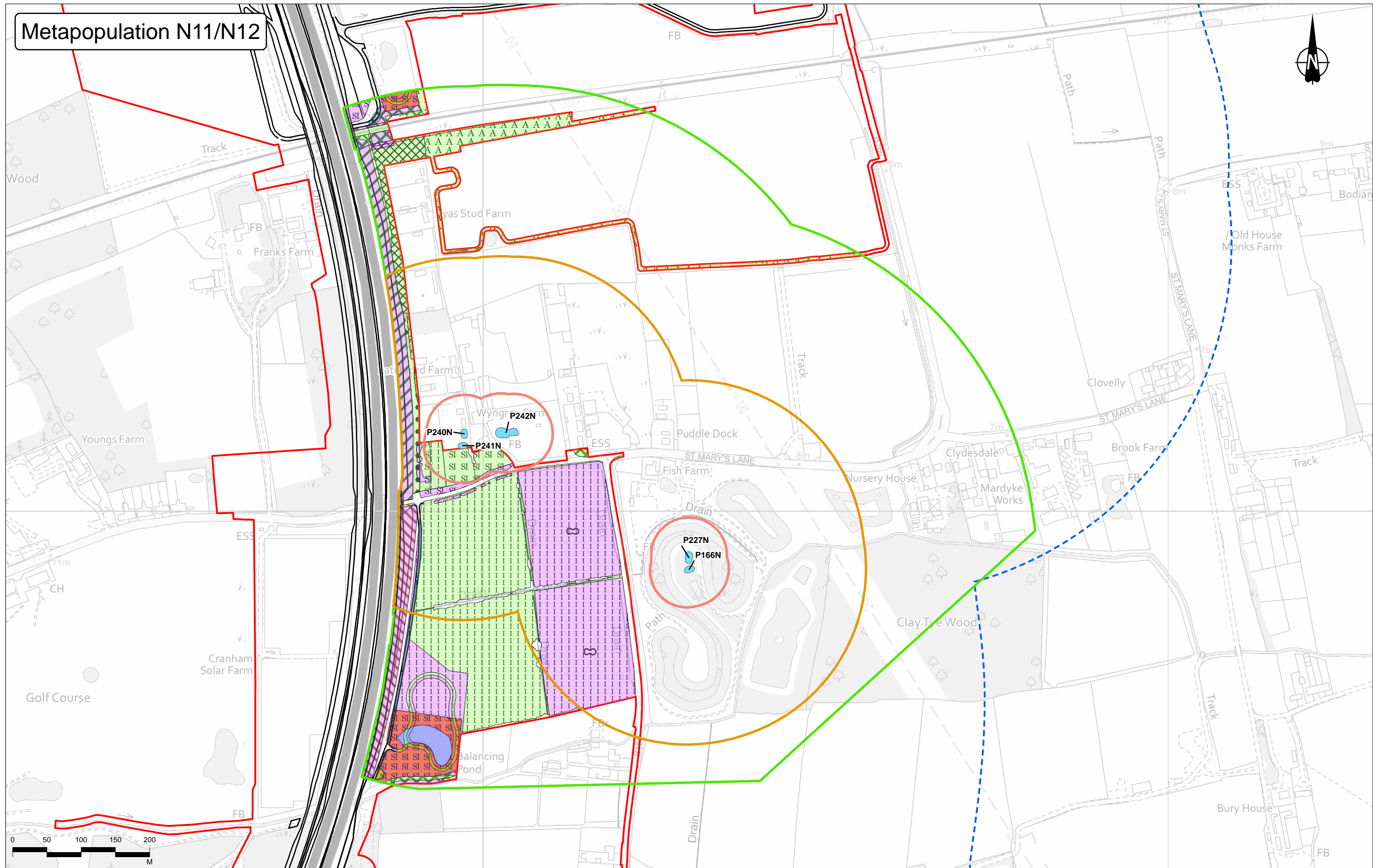
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
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	Page 23 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



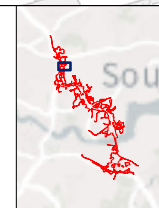
# Metapopulation N11/N12



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Phase 1 Habitat		Other Habitat	
Order Limits	50m pond buffer	Temporary habitat loss	Poor semi-improved grassland	Arable	Buildings
Route alignment	250m pond buffer	Broad-leaved plantation woodland	Tall ruderal	Amenity grassland	Bare ground
GCN survey area	500m pond buffer	Dense/continuous scrub	Swamp	Caravan site	Other habitat
Ponds	<b>Habitat Impact Category</b>	Semi-improved neutral grassland	Standing water	Improved grassland	
Ponds	Permanent habitat loss (landscaping)	Running water	Spoil		
	Permanent habitat loss (alignment)				



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
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Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



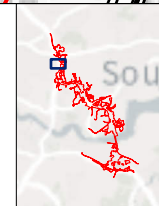
Metapopulation N13



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	Permanent habitat loss (alignment)
Route alignment	Temporary habitat loss
GCN survey area	Phase 1 Habitat
Ponds	Broad-leaved semi-natural woodland
Ponds	Broad-leaved plantation woodland
50m pond buffer	Permanent habitat loss (landscaping)
250m pond buffer	Dense/continuous scrub
500m pond buffer	Semi-improved neutral grassland
Habitat Impact Category	Improved grassland
	Poor semi-improved grassland
	Tall ruderal
	Standing water
	Running water
	Arable
	Amenity grassland
	Bare ground
	Other habitat

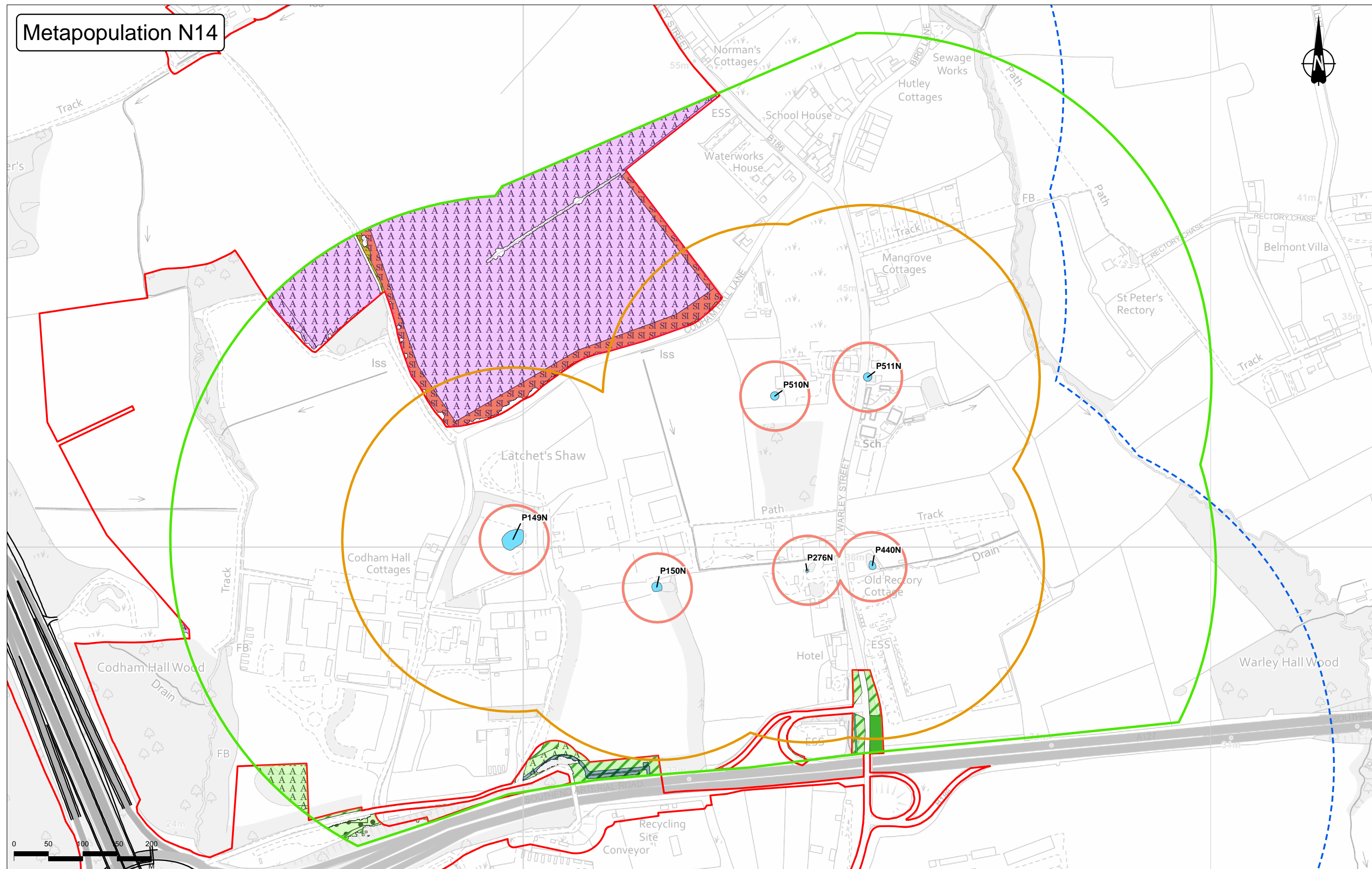


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
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	Page 25 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

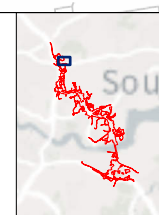


# Metapopulation N14



PO3	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	<b>Habitat Impact Category</b>
Ponds	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Broad-leaved semi-natural woodland
Temporary habitat loss	Broad-leaved plantation woodland
Improved grassland	Semi-improved neutral grassland
Poor semi-improved grassland	Arable
Running water	Bare ground

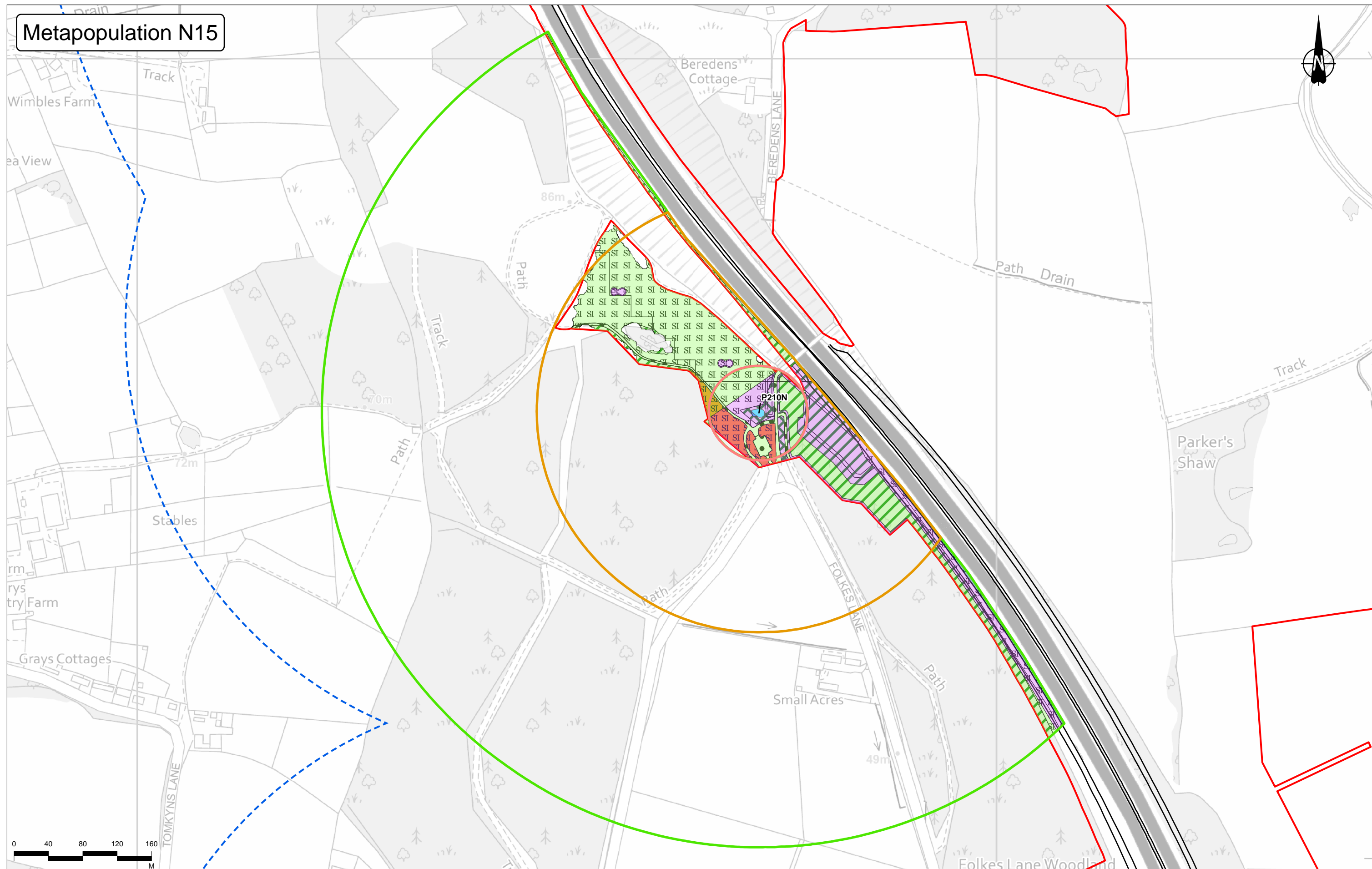


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Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation N14				
	Page 26 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

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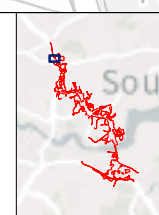


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

Order Limits	50m pond buffer	Permanent habitat loss (alignment)	Poor semi-improved grassland
Route alignment	250m pond buffer	Temporary habitat loss	Standing water
GCN survey area	500m pond buffer	Phase 1 Habitat	Bare ground
Ponds	<b>Habitat Impact Category</b>	Broad-leaved plantation woodland	
Ponds	Permanent habitat loss (landscaping)	Dense/continuous scrub	
	Semi-improved neutral grassland		



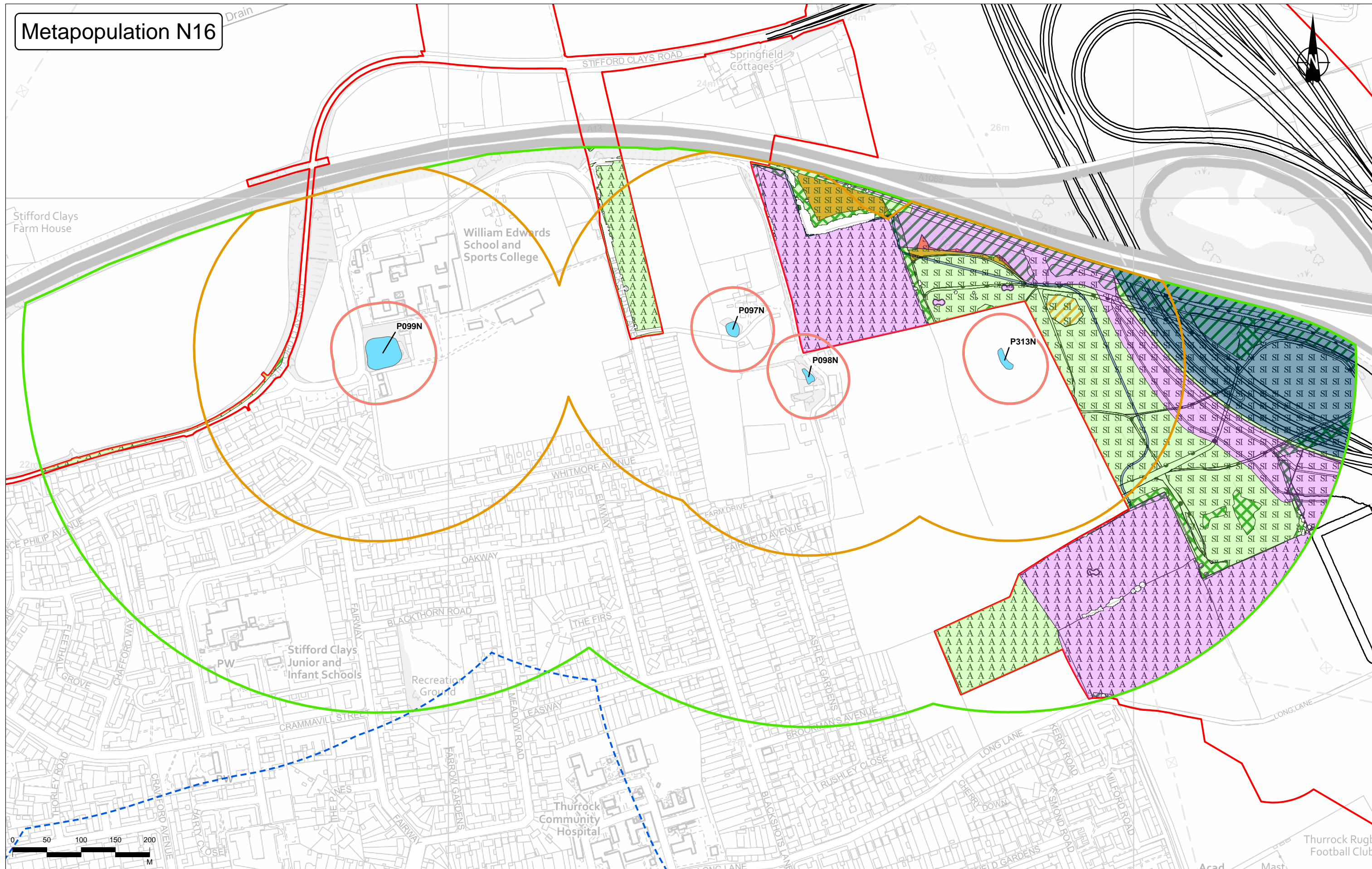
Client: national highways

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Status	DCO APPLICATION	Original Size	A3	Revision	P03
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Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				



# Metapopulation N16



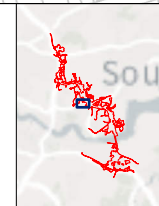
P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

Order Limits	250m pond buffer	Broad-leaved plantation woodland	Non-ruderal tall herb and fern
Route alignment	500m pond buffer	Arable	Buildings
GCN survey area	<b>Habitat Impact Category</b>	Dense/continuous scrub	Bare ground
Ponds	Permanent habitat loss (landscaping)	Semi-improved acid grassland	Other habitat
Ponds	Permanent habitat loss (alignment)	Semi-improved neutral grassland	
<b>Pond buffers</b>	Temporary habitat loss	Poor semi-improved grassland	
50m pond buffer		Tall ruderal	

Broad-leaved plantation woodland	Non-ruderal tall herb and fern
Arable	Buildings
Dense/continuous scrub	Bare ground
Semi-improved acid grassland	Other habitat
Semi-improved neutral grassland	
Poor semi-improved grassland	
Tall ruderal	

Non-ruderal tall herb and fern	Buildings
Arable	Bare ground
Buildings	Other habitat
Bare ground	
Other habitat	

Buildings	Bare ground
Bare ground	Other habitat
Other habitat	



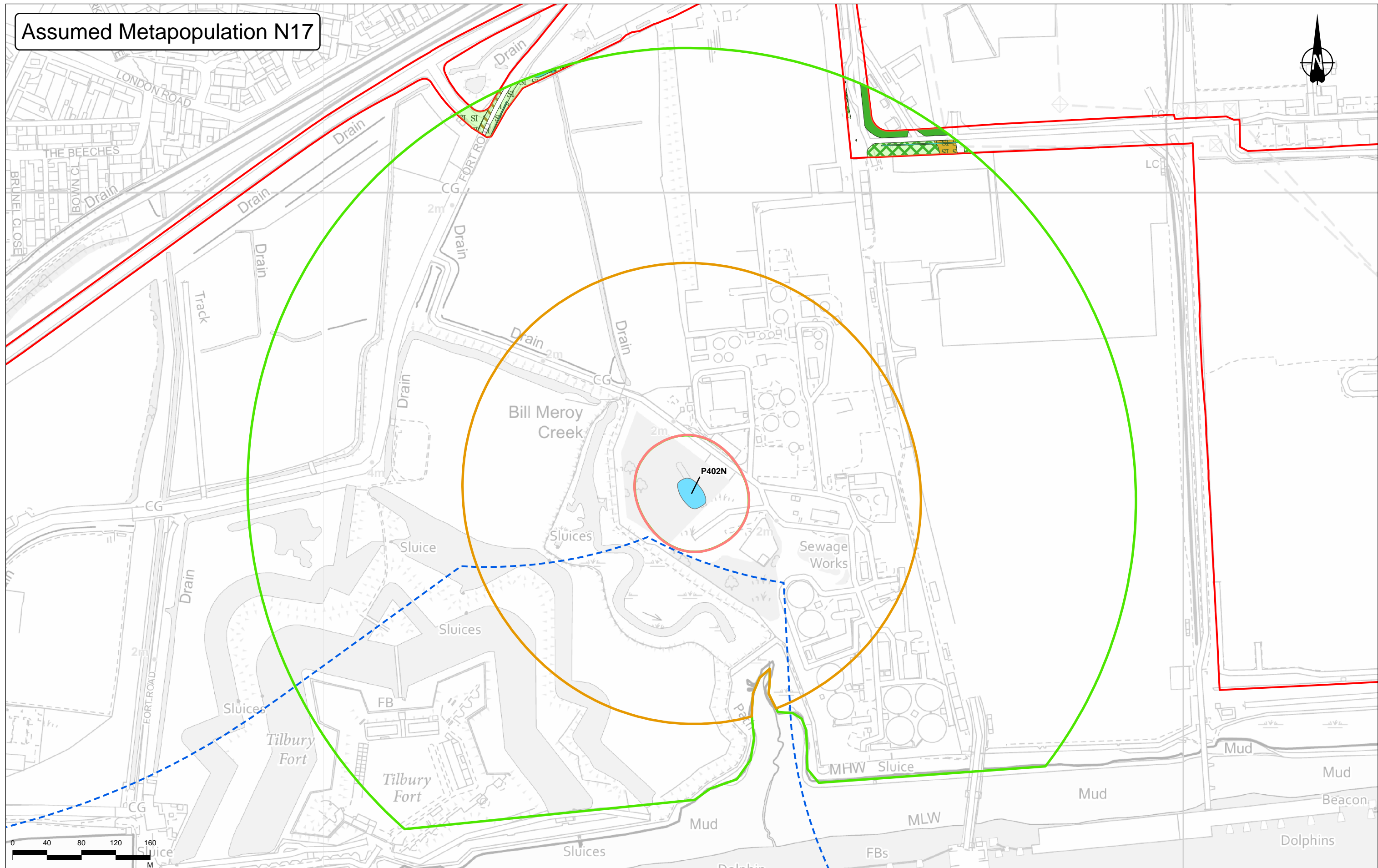
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Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation N16				
	Page 28 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



# Assumed Metapopulation N17

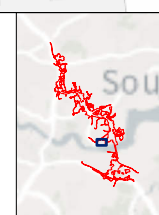


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

Order Limits	Pond buffers	Permanent habitat loss (alignment)	Poor semi-improved grassland
Route alignment	50m pond buffer	Temporary habitat loss	Tall ruderal
GCN survey area	250m pond buffer	Phase 1 Habitat	Standing water
Ponds	500m pond buffer	Broad-leaved semi-natural woodland	Dense/continuous scrub
Ponds	<b>Habitat Impact Category</b>	Semi-improved neutral grassland	
	Permanent habitat loss (landscaping)		

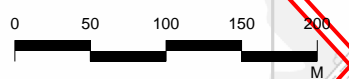
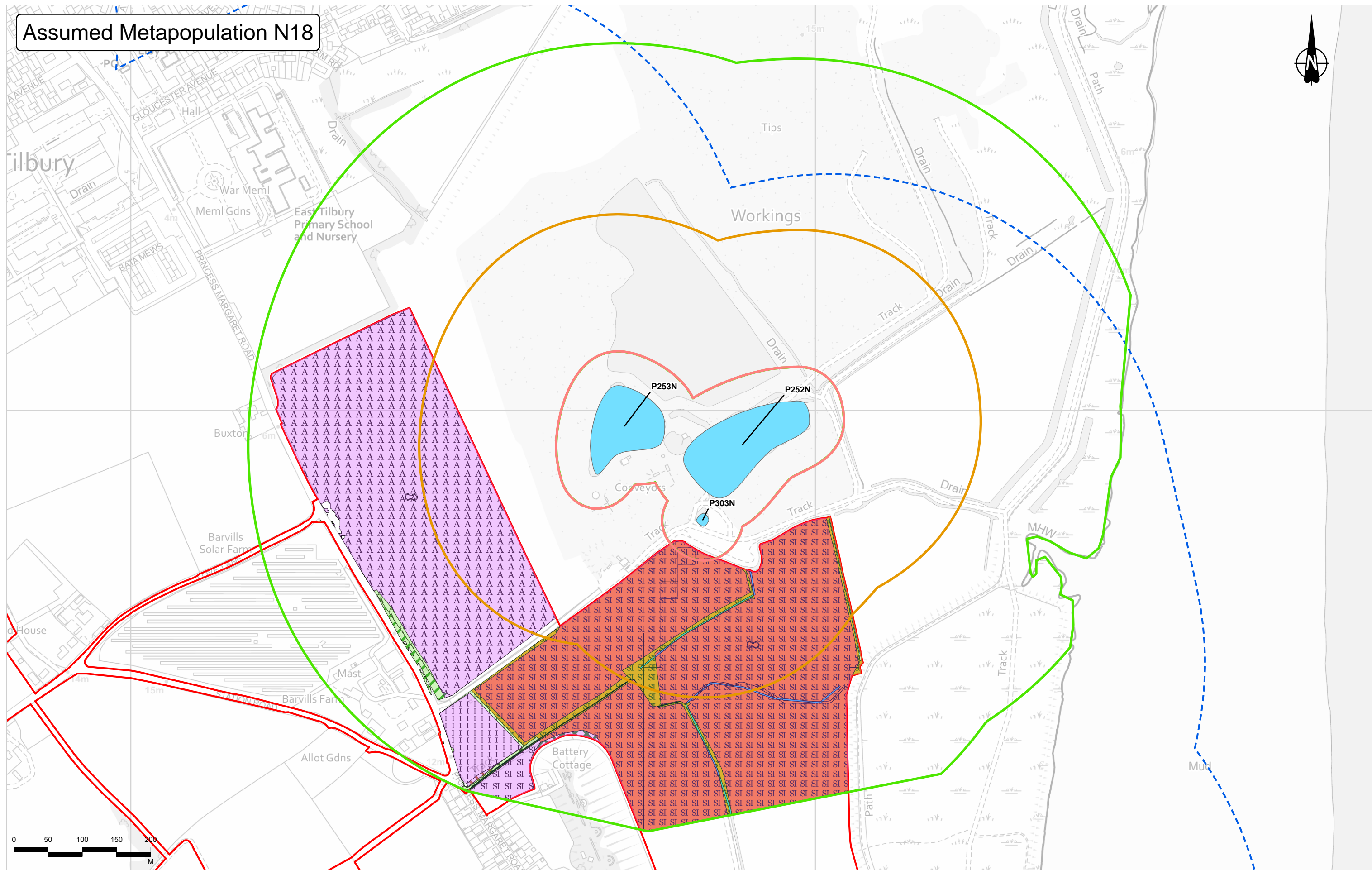


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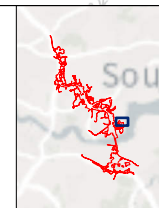
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Drawing Title	Figure D - Impact Map Assumed Metapopulation N17 Page 29 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				


# Assumed Metapopulation N18



### Legend

- Order Limits
- 250m pond buffer
- 500m pond buffer
- Route alignment
- GCN survey area
- Ponds
- Ponds
- 50m pond buffer
- Permanent habitat loss (landscaping)
- Permanent habitat loss (alignment)
- Temporary habitat loss
- Phase 1 Habitat
- Broad-leaved plantation woodland
- Dense/continuous scrub
- Semi-improved neutral grassland
- Improved grassland
- Poor semi-improved grassland
- Tall ruderal
- Standing water
- Refuse tip with bare ground
- Arable
- Bare ground
- Other habitat



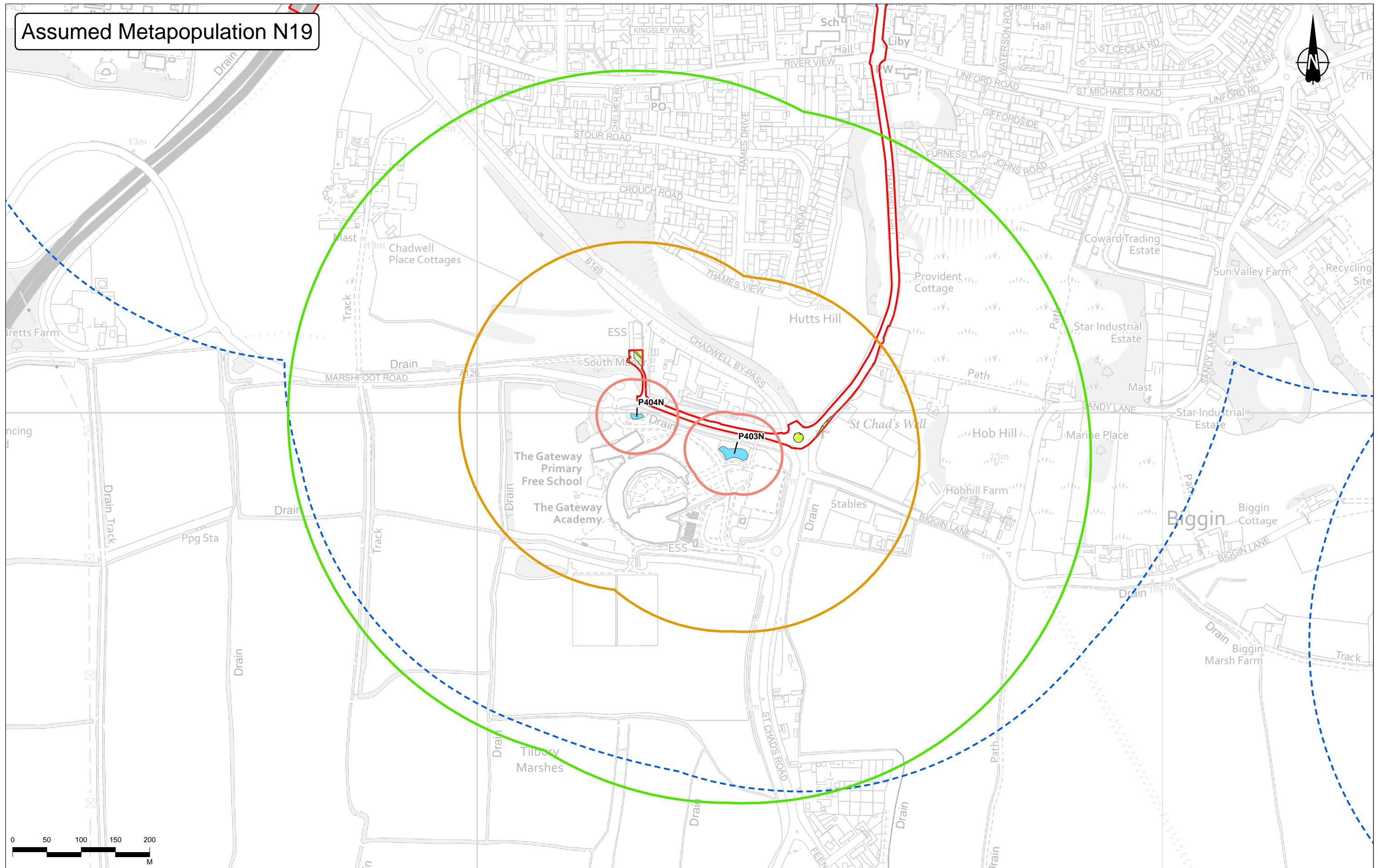
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Status	DCO APPLICATION	Original Size	Revision
Application Document Number	TR010032/APP/6.3	A3	P03
Drawing Title	Figure D - Impact Map Assumed Metapopulation N18		
	Page 30 of 38		
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026		

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF



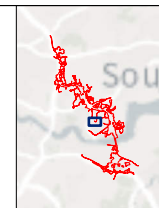
# Assumed Metapopulation N19



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Ponds
Ponds	Ponds
Permanent habitat loss (alignment)	Temporary habitat loss
Phase 1 Habitat	Dense/continuous scrub
Improved grassland	Poor semi-improved grassland
Tall ruderal	Amenity grassland
Other habitat	

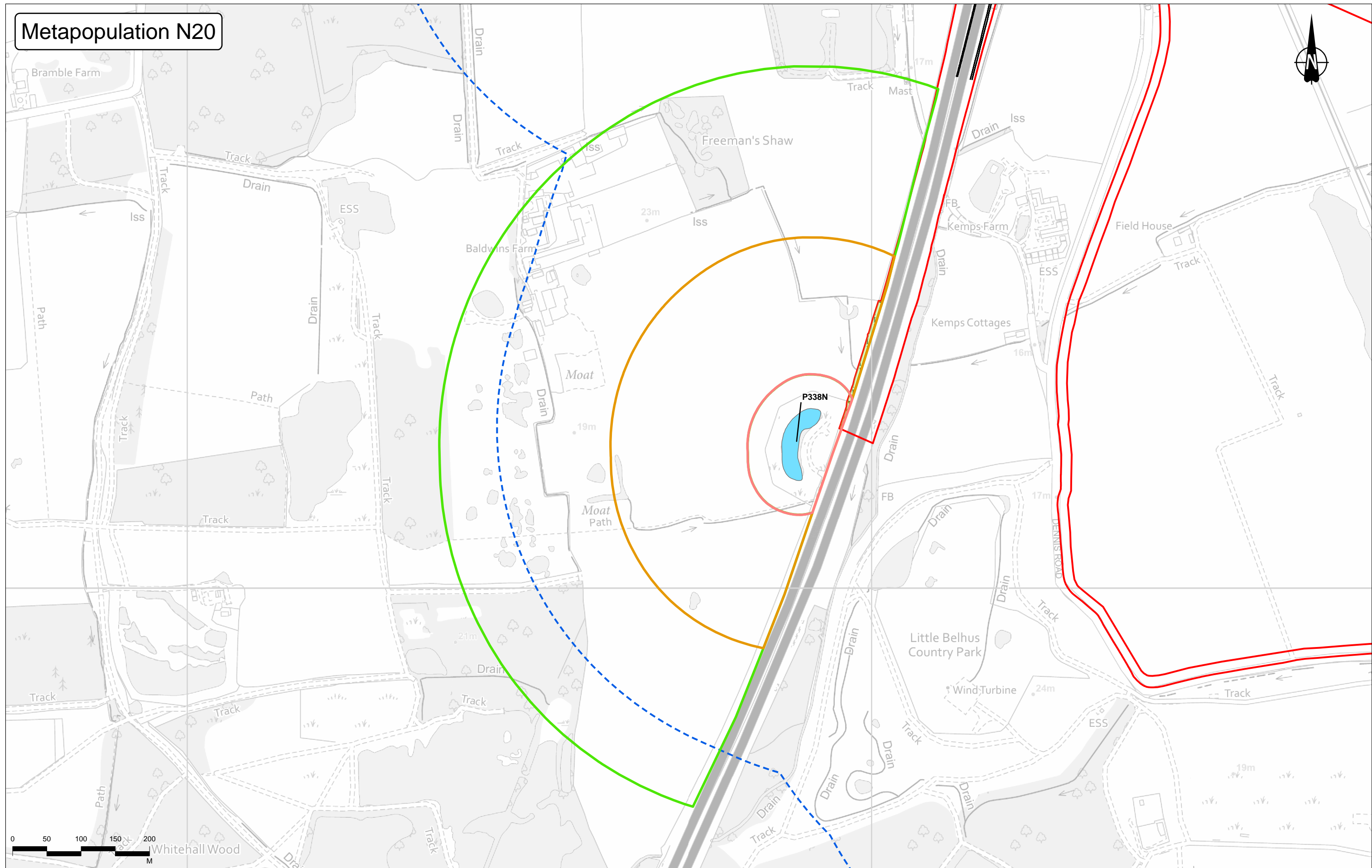


Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N19 Page 31 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

# Metapopulation N20

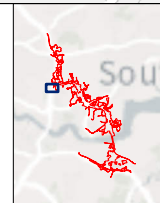


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

### Legend

- |                 |                     |                                      |                                 |
|-----------------|---------------------|--------------------------------------|---------------------------------|
| Order Limits    | Ponds               | <b>Habitat Impact Category</b>       | Phase 1 Habitat                 |
| Route alignment | <b>Pond buffers</b> | Permanent habitat loss (landscaping) | Semi-improved neutral grassland |
| GCN survey area | 50m pond buffer     | Permanent habitat loss (alignment)   | Improved grassland              |
| Ponds           | 250m pond buffer    | Temporary habitat loss               | Tall ruderal                    |
|                 | 500m pond buffer    |                                      | Running water                   |



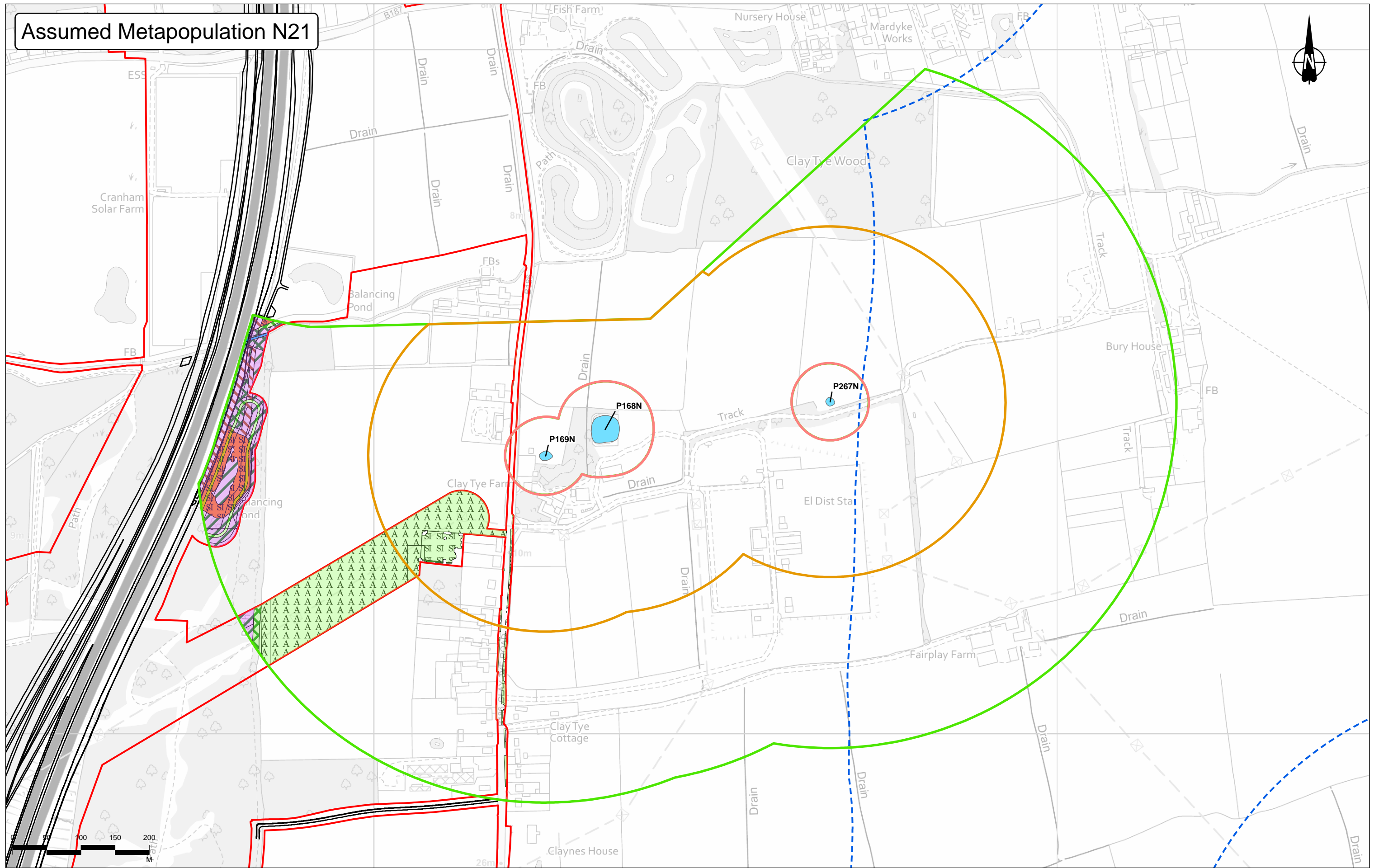
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation N20				
	Page 32 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

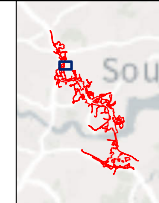


# Assumed Metapopulation N21



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<table border="1"> <tr> <th>Rev</th> <th>Status</th> <th>Rev. Date</th> <th>Purpose of revision</th> <th>Drawn</th> <th>Chkd</th> <th>Appr'd</th> </tr> <tr> <td>P03</td> <td>S9</td> <td>10/05/2023</td> <td>Natural England comments</td> <td>CD</td> <td>SM</td> <td>BF</td> </tr> </table>	Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd	P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd								
P03	S9	10/05/2023	Natural England comments	CD	SM	BF								

<b>Legend</b> <ul style="list-style-type: none"> <li>Order Limits</li> <li>Route alignment</li> <li>GCN survey area</li> <li>Ponds</li> <li>Ponds</li> <li>50m pond buffer</li> </ul>	<ul style="list-style-type: none"> <li>250m pond buffer</li> <li>500m pond buffer</li> </ul> <b>Habitat Impact Category</b> <ul style="list-style-type: none"> <li>Permanent habitat loss (landscaping)</li> <li>Permanent habitat loss (alignment)</li> <li>Temporary habitat loss</li> </ul>	<b>Phase 1 Habitat</b> <ul style="list-style-type: none"> <li>Broad-leaved semi-natural woodland</li> <li>Broad-leaved plantation woodland</li> <li>Dense/continuous scrub</li> <li>Semi-improved neutral grassland</li> <li>Improved grassland</li> <li>Poor semi-improved grassland</li> </ul>	<ul style="list-style-type: none"> <li>Tall ruderal</li> <li>Running water</li> <li>Arable</li> <li>Caravan site</li> <li>Other habitat</li> </ul>
--	--	--	--

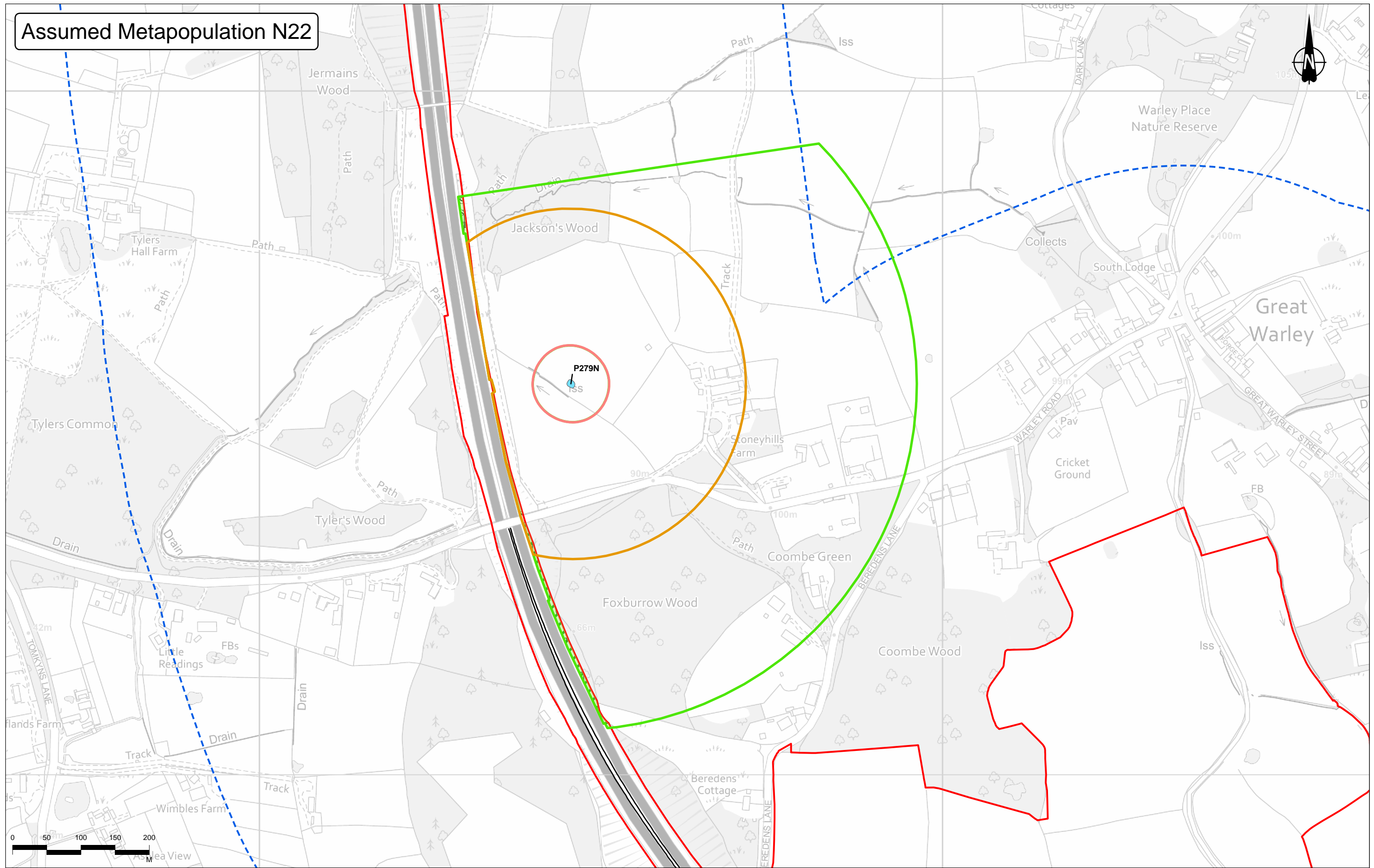


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**LOWER THAMES CROSSING**

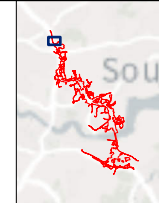
Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N21 Page 33 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

# Assumed Metapopulation N22



P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd

Legend		Habitat Impact Category	Phase 1 Habitat
	Order Limits		Permanent habitat loss (landscaping)
	Route alignment		Permanent habitat loss (alignment)
	GCN survey area		Temporary habitat loss
	Ponds		Broad-leaved semi-natural woodland
	Ponds		Broad-leaved plantation woodland
	50m pond buffer		Poor semi-improved grassland
	250m pond buffer		
	500m pond buffer		



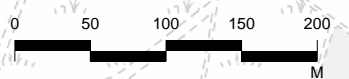
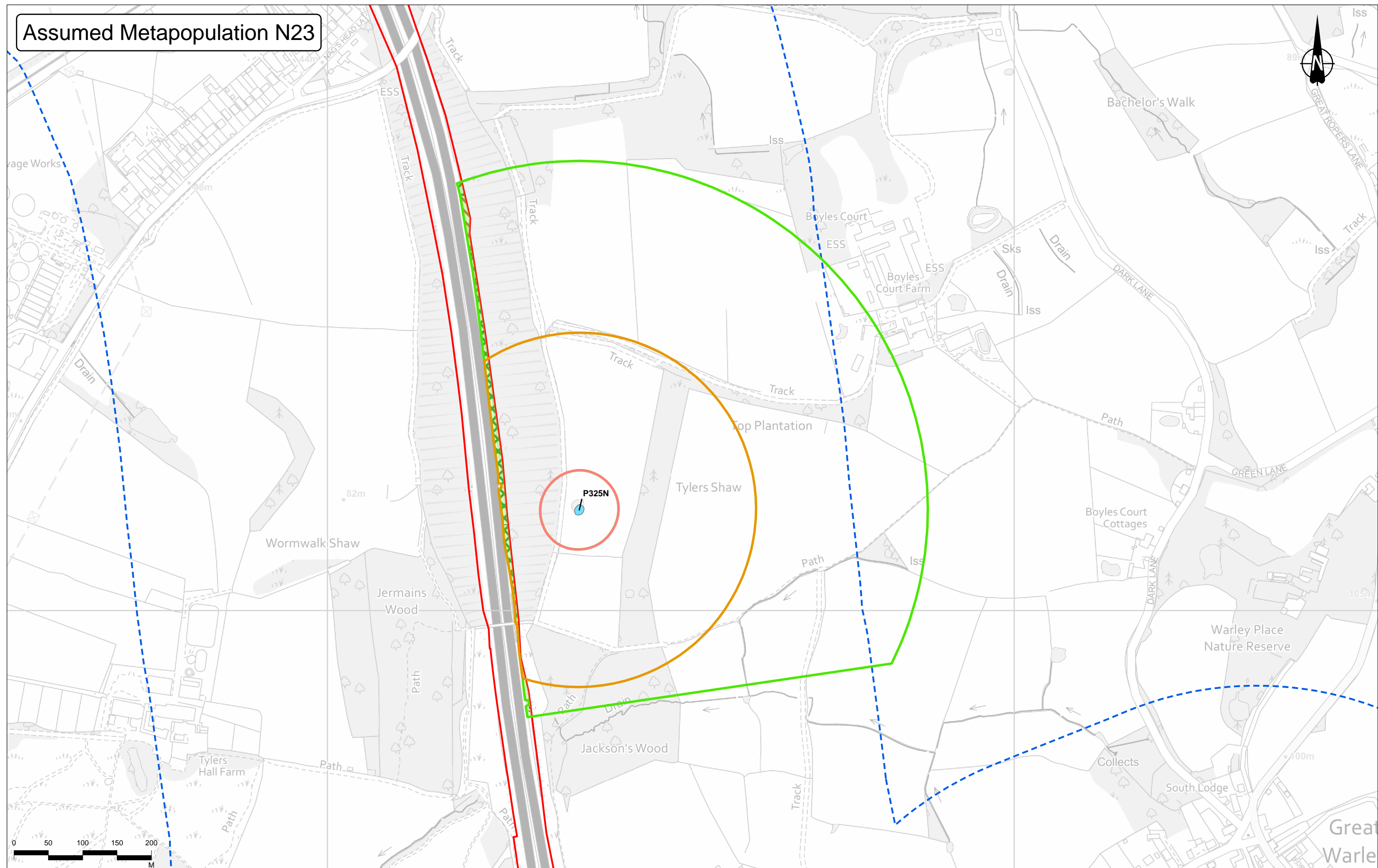
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N22				
	Page 34 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



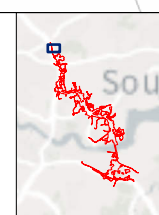
# Assumed Metapopulation N23



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Habitat Impact Category	Phase 1 Habitat
	Order Limits		
	Route alignment		
	GCN survey area		
	Ponds		
	50m pond buffer		
	250m pond buffer		
	500m pond buffer		



Client: national highways

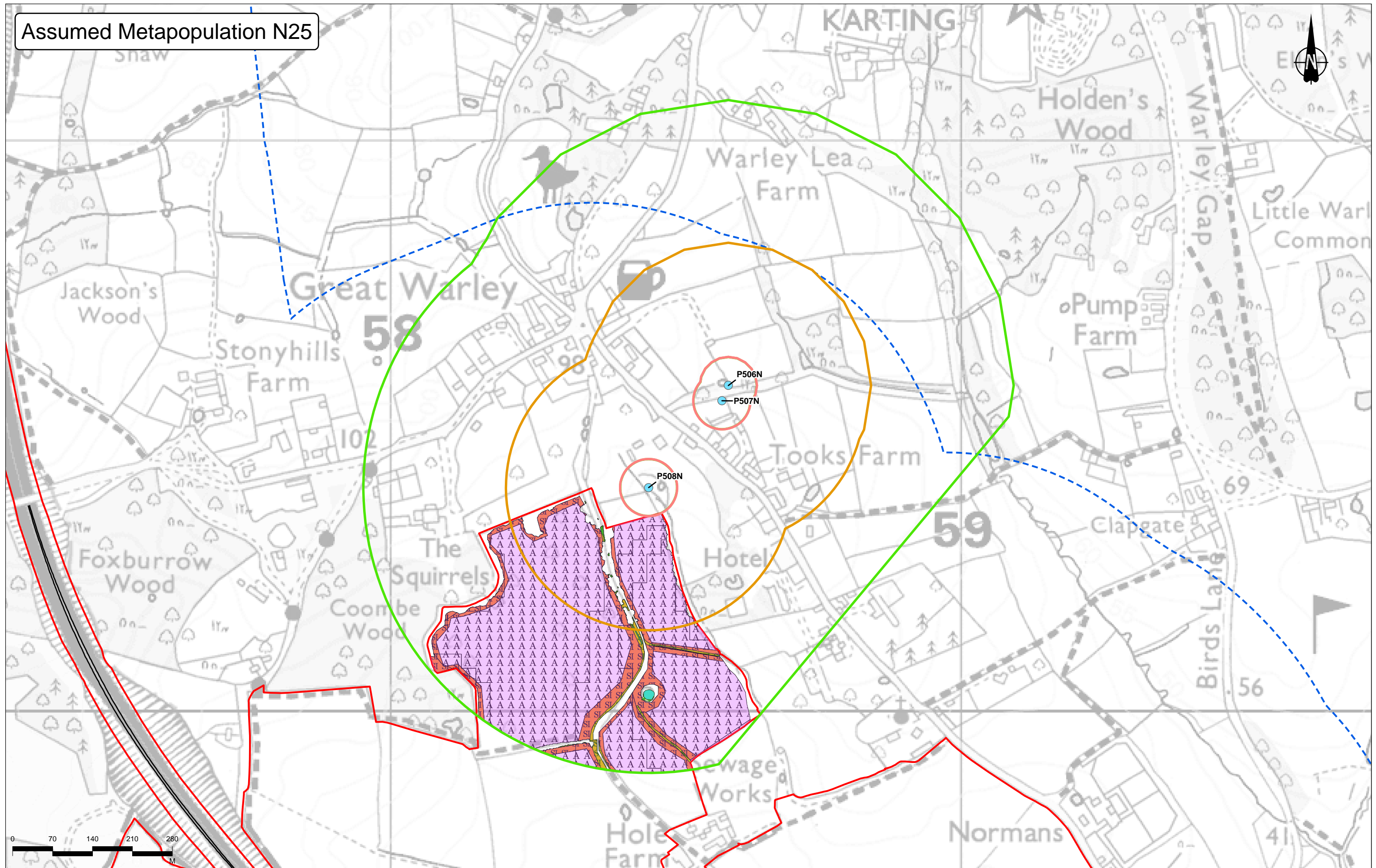
Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N23 Page 35 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				





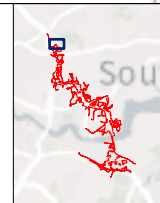
Assumed Metapopulation N25



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

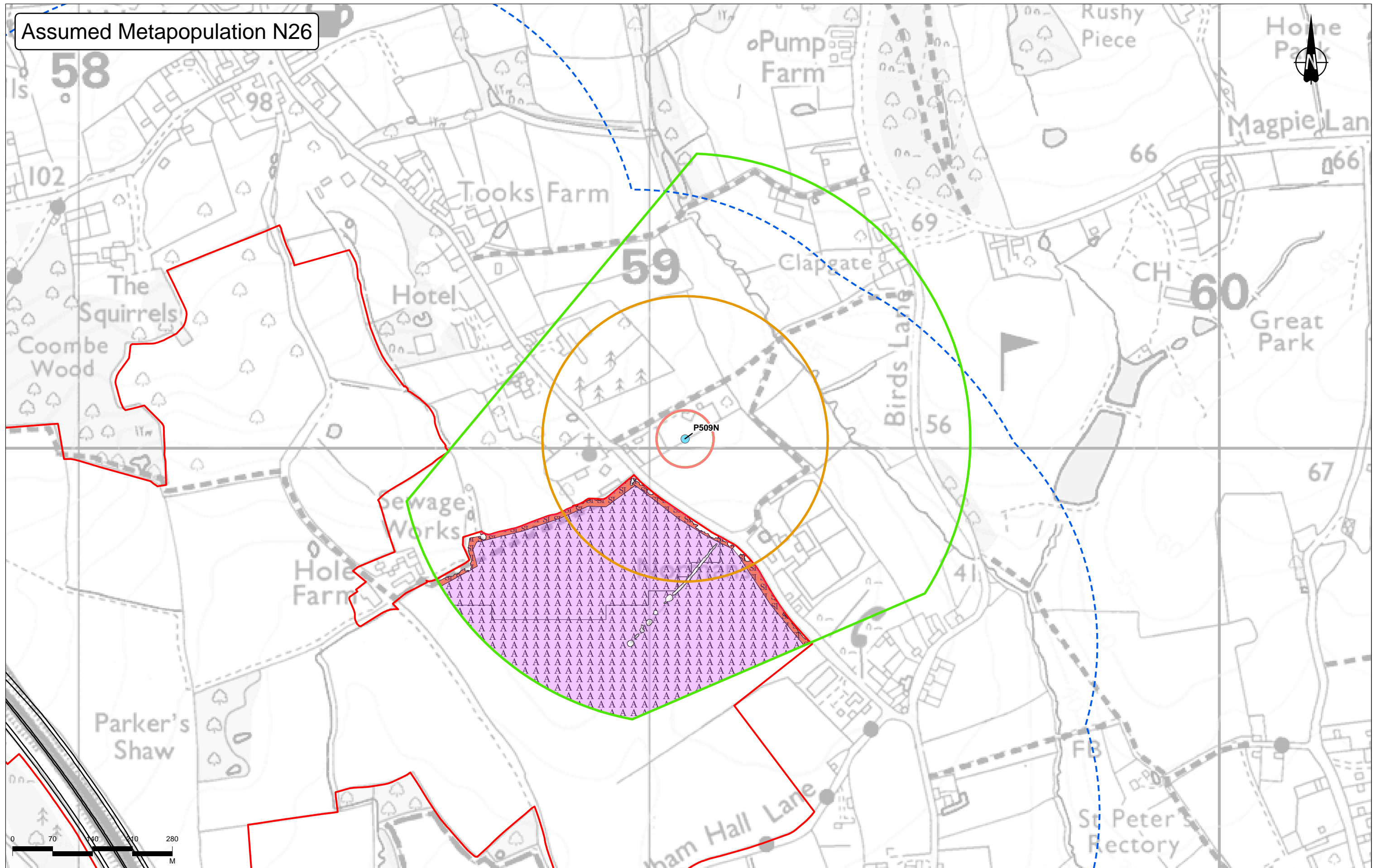
Legend	
Order Limits	50m pond buffer
Route alignment	250m pond buffer
GCN survey area	500m pond buffer
Ponds	Permanent habitat loss (landscaping)
Ponds	Semi-improved neutral grassland
Permanent habitat loss (alignment)	Standing water
Temporary habitat loss	Running water
<b>Phase 1 Habitat</b>	Arable
Broad-leaved semi-natural woodland	
Dense/continuous scrub	



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 Project  
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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N25				
	Page 37 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

Assumed Metapopulation N26

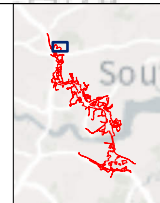


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Legend

- |                 |                     |                                      |                                 |
|-----------------|---------------------|--------------------------------------|---------------------------------|
| Order Limits    | Ponds               | <b>Habitat Impact Category</b>       | <b>Phase 1 Habitat</b>          |
| Route alignment | <b>Pond buffers</b> | Permanent habitat loss (landscaping) | Semi-improved neutral grassland |
| GCN survey area | 50m pond buffer     | Permanent habitat loss (alignment)   | Improved grassland              |
| Ponds           | 250m pond buffer    | Temporary habitat loss               | Arable                          |
|                 | 500m pond buffer    |                                      |                                 |

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF



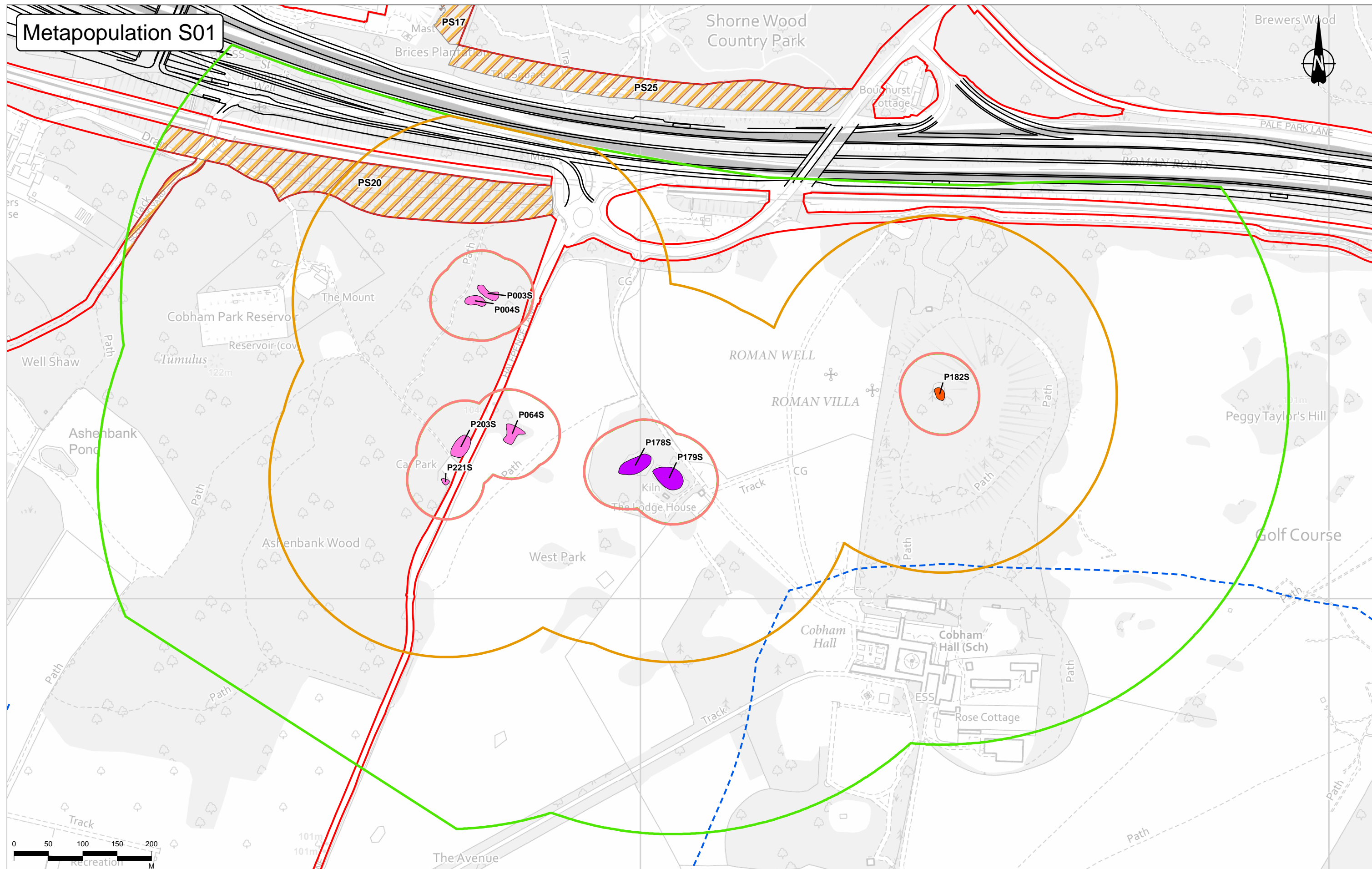
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation N26				
	Page 38 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



# Metapopulation S01

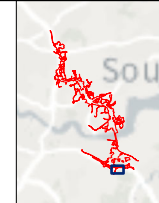


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
	Order Limits
	Route Alignment
	GCN Survey Area
	Mitigation Receptor Areas
	Mitigation Area
	Receptor Site
	Ponds Present - Conventional
	Present - eDNA
	Assumed present - Desk Study (No access)

Pond buffers	
	50m pond buffer
	250m pond buffer
	500m pond buffer



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation S01 Page 1 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



Metapopulation S02



Legend		Pond buffers	
Order Limits	Receptor Site	50m pond buffer	
Route Alignment	<b>Ponds</b>	250m pond buffer	
GCN Survey Area	Present - Conventional	500m pond buffer	
<b>Mitigation Receptor Areas</b>	Assumed present - Conventional		
Mitigation Area			

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

	Client	DCO APPLICATION	Original Size	A3	Revision	P03
	Project	LOWER THAMES CROSSING	Application Document Number	TR010032/APP/6.3	Scale	1:6,000
Drawing Title		Figure E2 - Receptor Map Metapopulation S02 Page 2 of 21				
Drawing Number		HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



# Metapopulation S04

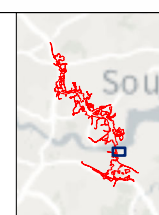


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
	Order Limits
	Route Alignment
	GCN Survey Area
	Mitigation Area

Pond Status, Survey Year		Pond buffers	
	Present - Incidental sighting (2017 & 2018)		50m pond buffer
			250m pond buffer
			500m pond buffer

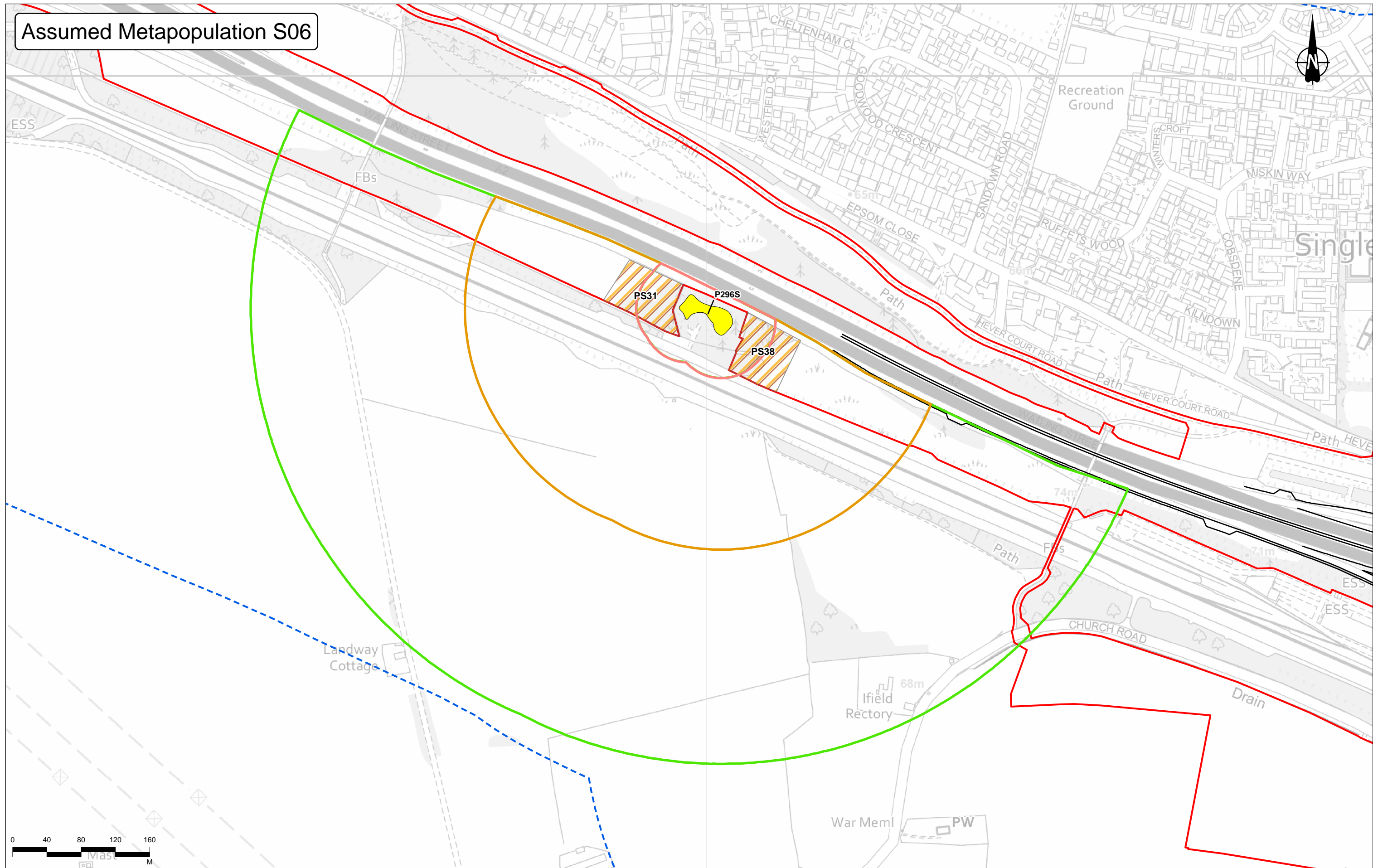


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Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation S04 Page 3 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				

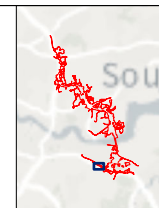
# Assumed Metapopulation S06



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend	
	Order Limits
	Route Alignment
	GCN Survey Area
	Mitigation Receptor Areas
	Mitigation Area
	Receptor Site
	Ponds
	Assumed present - No access
	Pond buffers
	50m pond buffer
	250m pond buffer
	500m pond buffer

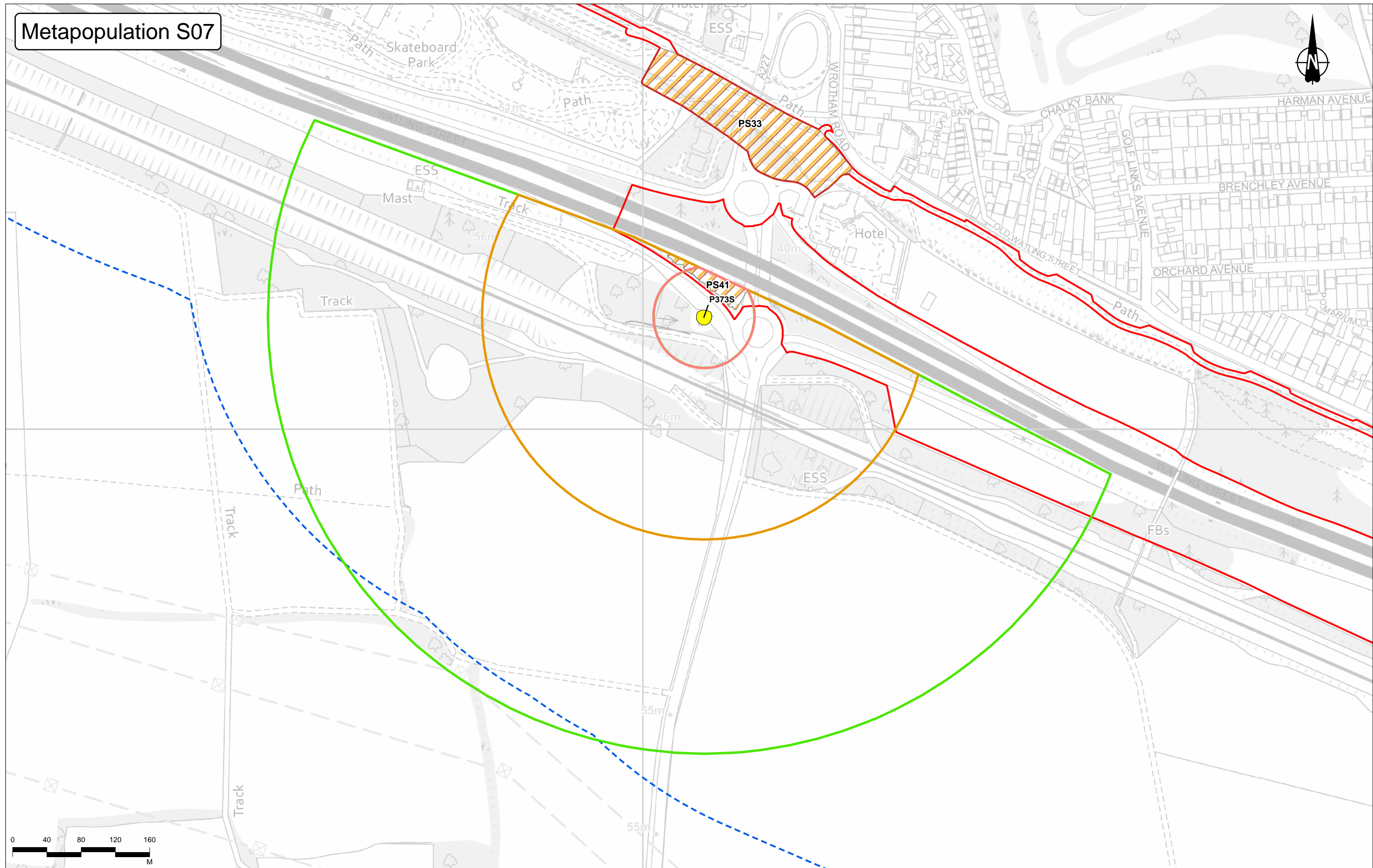


Client  
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 Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Assumed Metapopulation S06 Page 4 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



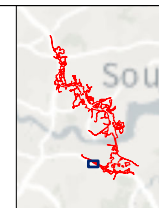
# Metapopulation S07



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Pond buffers	
	Order Limits		Receptor Site
	GCN Survey Area		Assumed present - No access
	Mitigation Receptor Areas		50m pond buffer
	Mitigation Area		250m pond buffer
			500m pond buffer



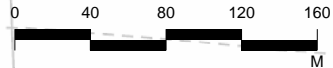
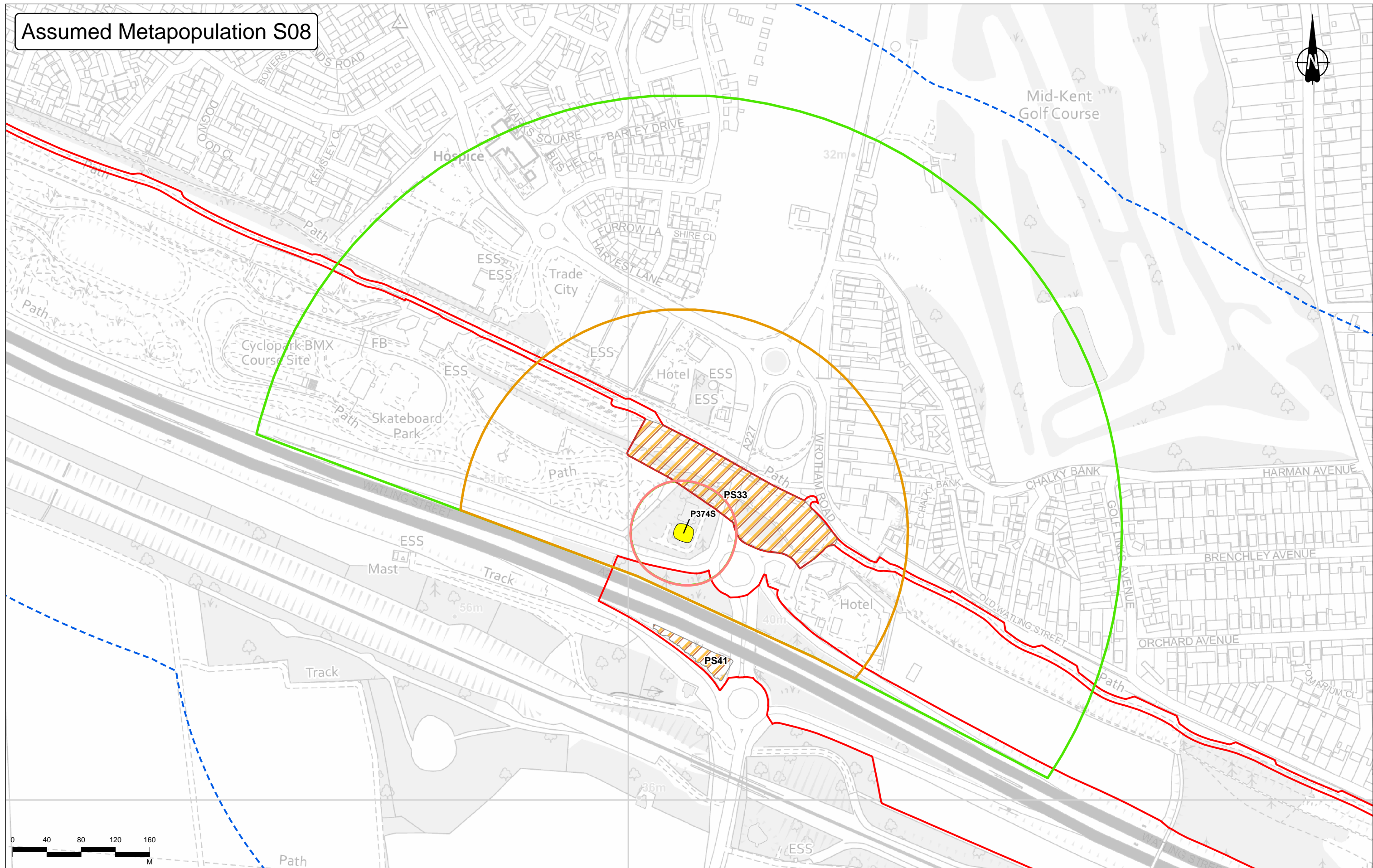
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation S07 Page 5 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				



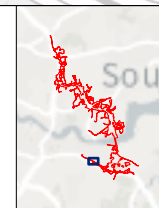
# Assumed Metapopulation S08



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Pond buffers	
Order Limits	Receptor Site	50m pond buffer	
GCN Survey Area	Ponds	250m pond buffer	
Mitigation Receptor Areas	Assumed present - No access	500m pond buffer	
Mitigation Area			



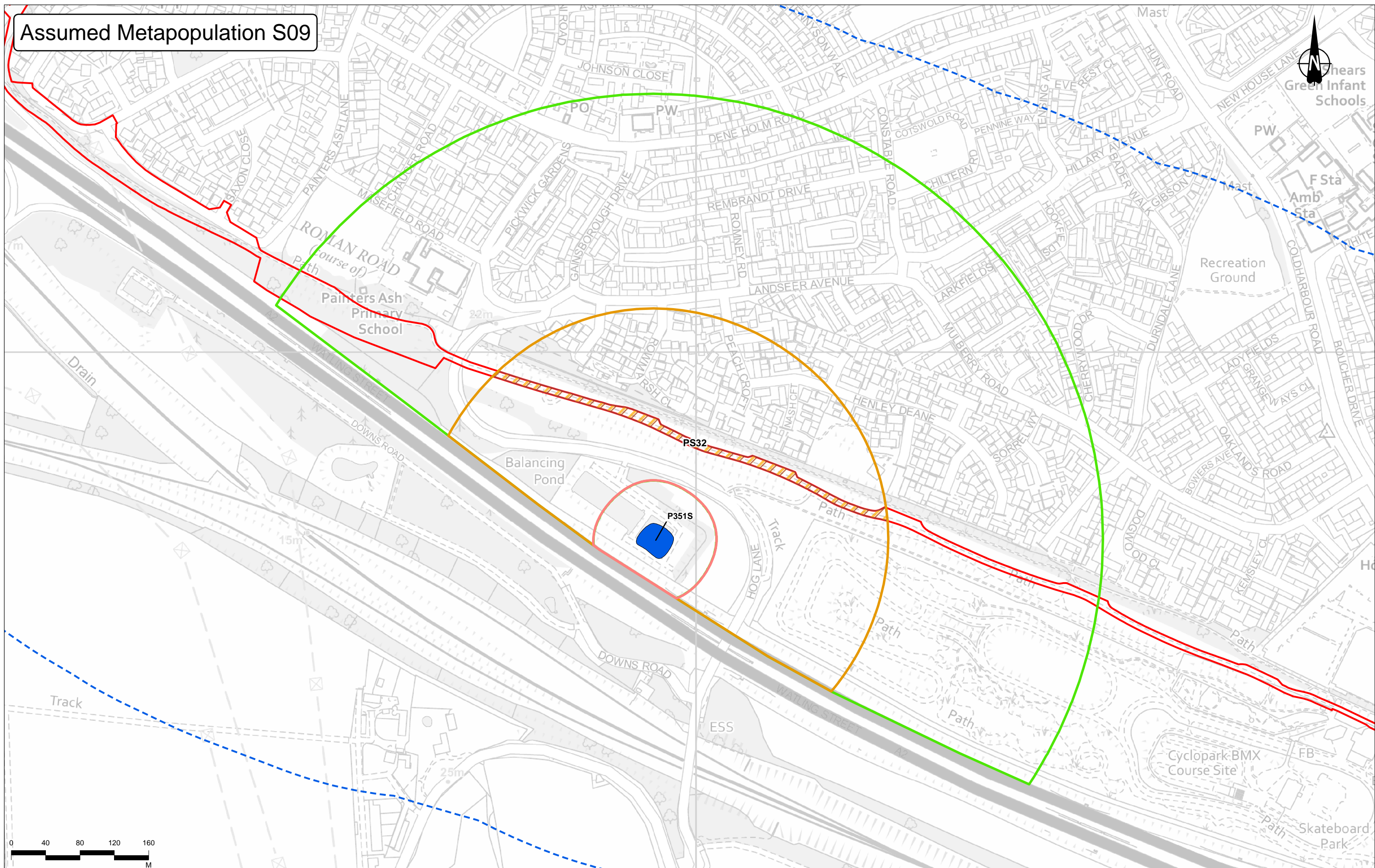
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Assumed Metapopulation S08 Page 6 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				



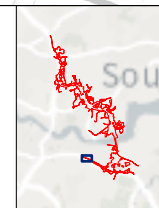
# Assumed Metapopulation S09



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Pond buffers	
	Order Limits		50m pond buffer
	GCN Survey Area		250m pond buffer
	Assumed present - eDNA inconclusive		500m pond buffer
	Receptor Site		
	Mitigation Area		



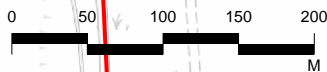
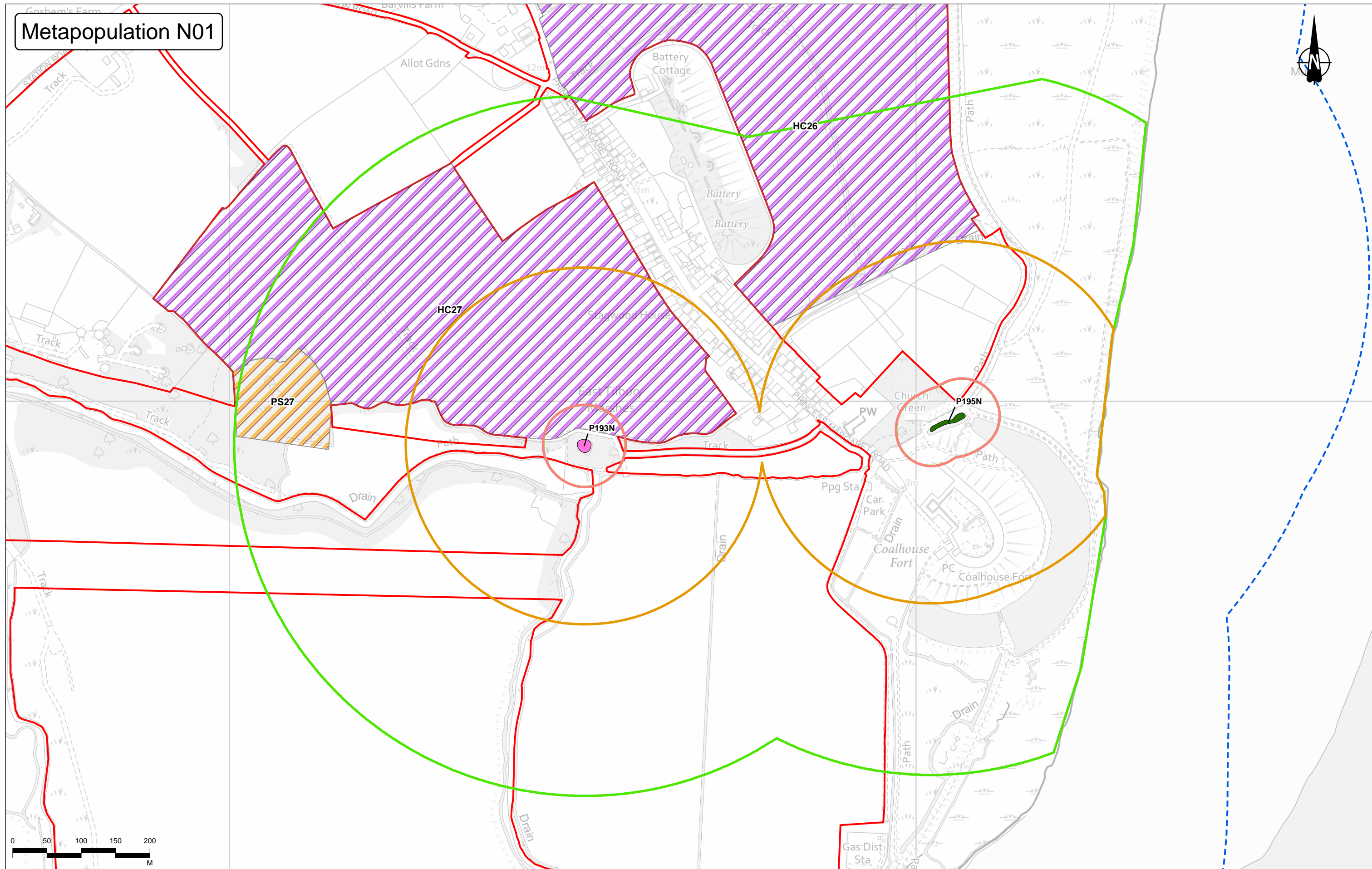
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Assumed Metapopulation S09 Page 7 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				



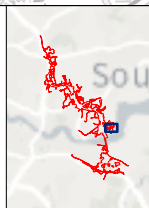
# Metapopulation N01



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Pond buffers	
	Order Limits		50m pond buffer
	GCN Survey Area		250m pond buffer
	Mitigation Receptor Areas		500m pond buffer
	Receptor Site		
	Ponds		
	Present - Conventional		
	Assumed present - Unsurveyed		

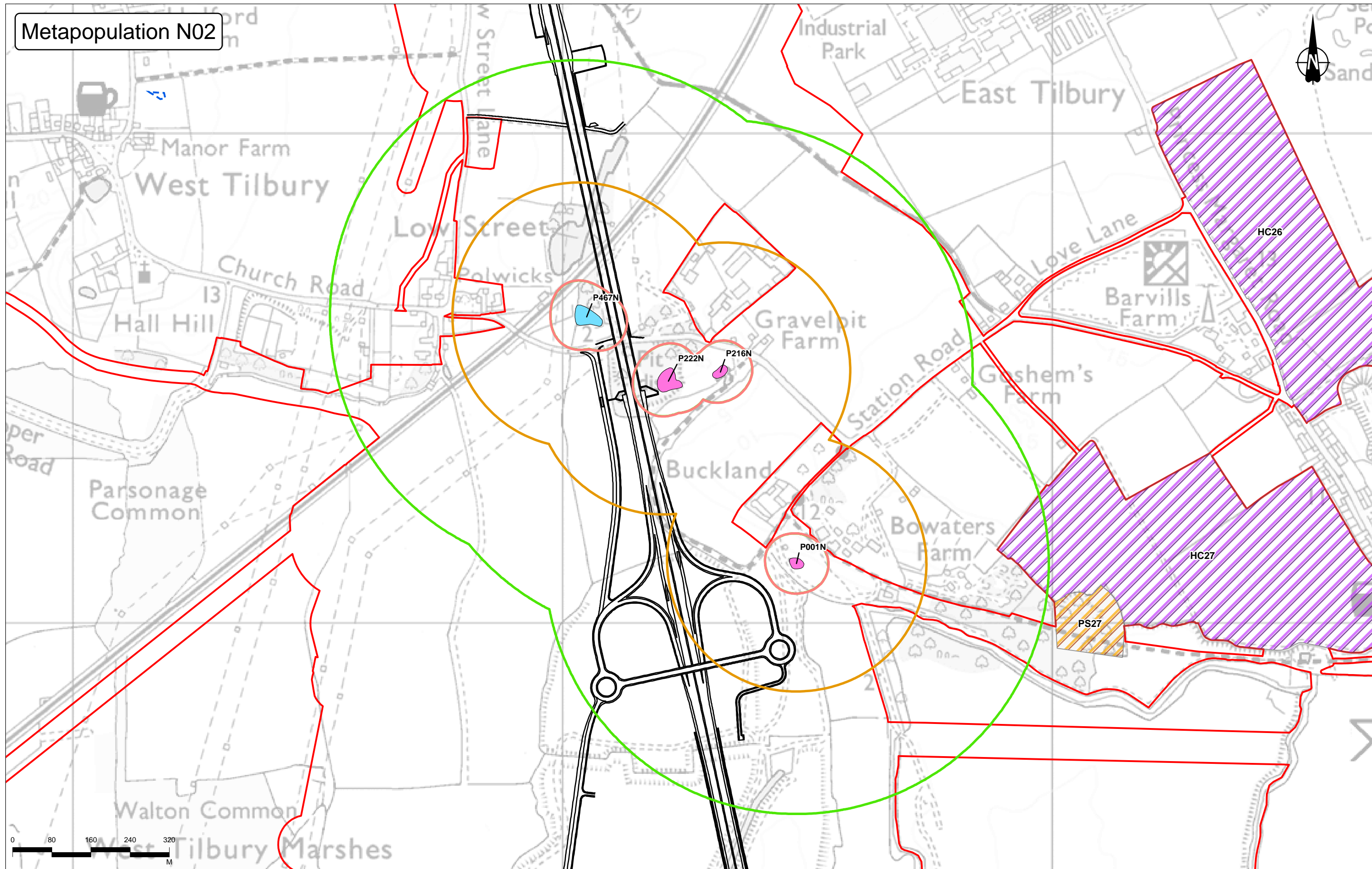


Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N01 Page 8 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

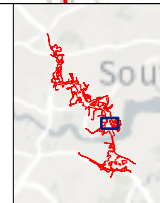
Metapopulation N02



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Mitigation Receptor Areas	Ponds	Pond buffers
	Order Limits			
	Route Alignment			
	GCN Survey Area			

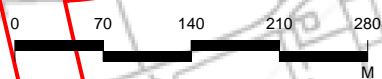
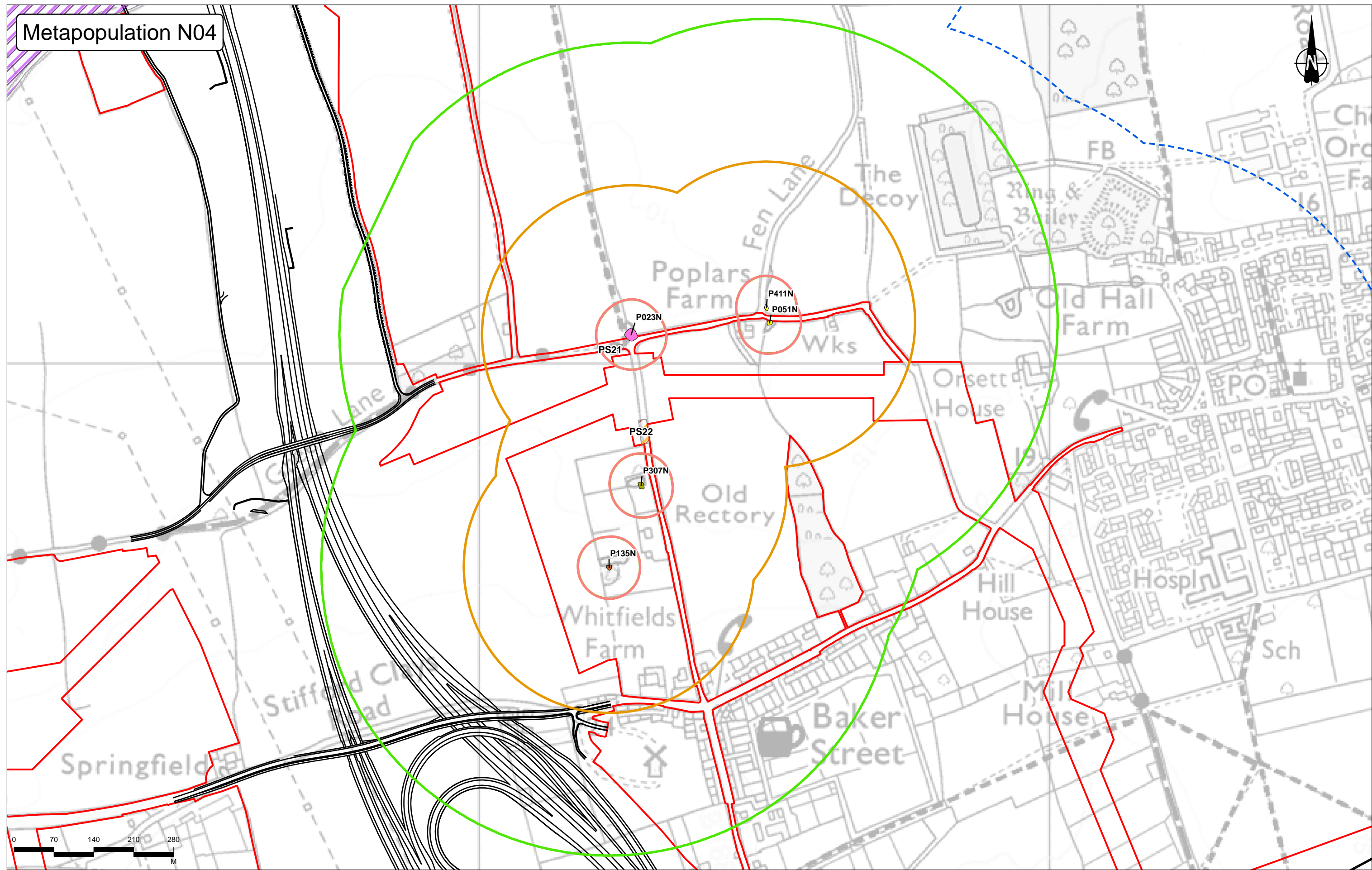


Client  
 national highways  
 Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N02 Page 9 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



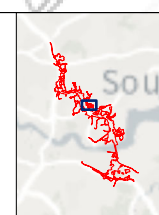
Metapopulation N04



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Pond buffers	
	Order Limits		Present - Desk Study
	Route Alignment		Present - Incidental sighting
	GCN Survey Area		Assumed present - No access
	Mitigation Area		50m pond buffer
	Receptor Site		250m pond buffer
	Ponds		500m pond buffer



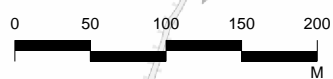
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N04 Page 10 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



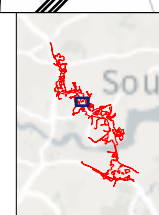
# Metapopulation N05



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

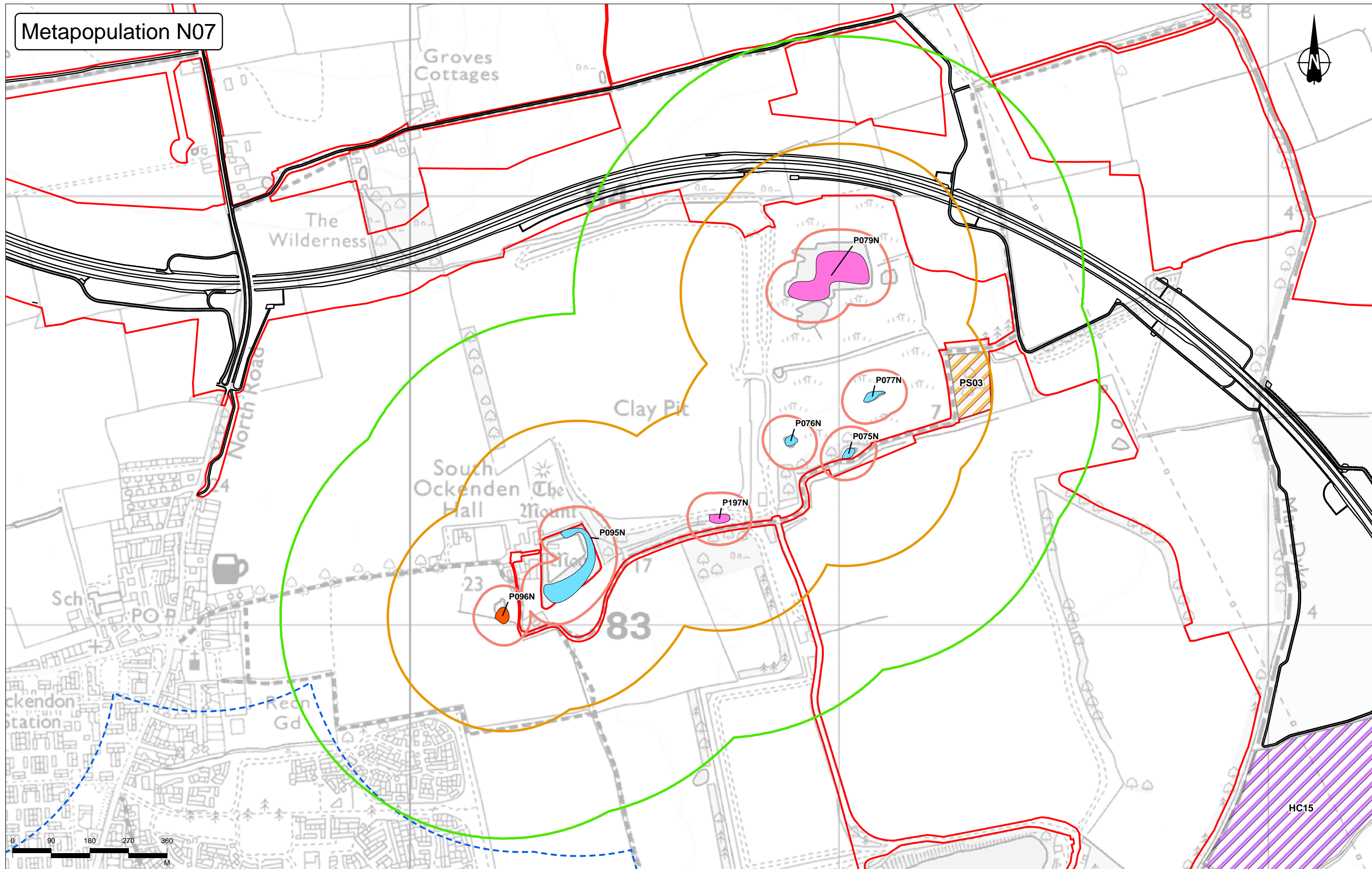
Legend		Mitigation Receptor Areas	Ponds	Pond buffers
	Order Limits			
	Route Alignment			
	GCN Survey Area			



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N05 Page 11 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

# Metapopulation N07

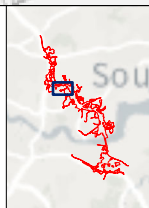


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

Order Limits	Mitigation Area	Ponds	50m pond buffer
Route Alignment	Receptor Site	Present - eDNA	250m pond buffer
GCN Survey Area		Assumed present - eDNA	500m pond buffer

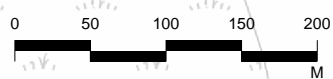
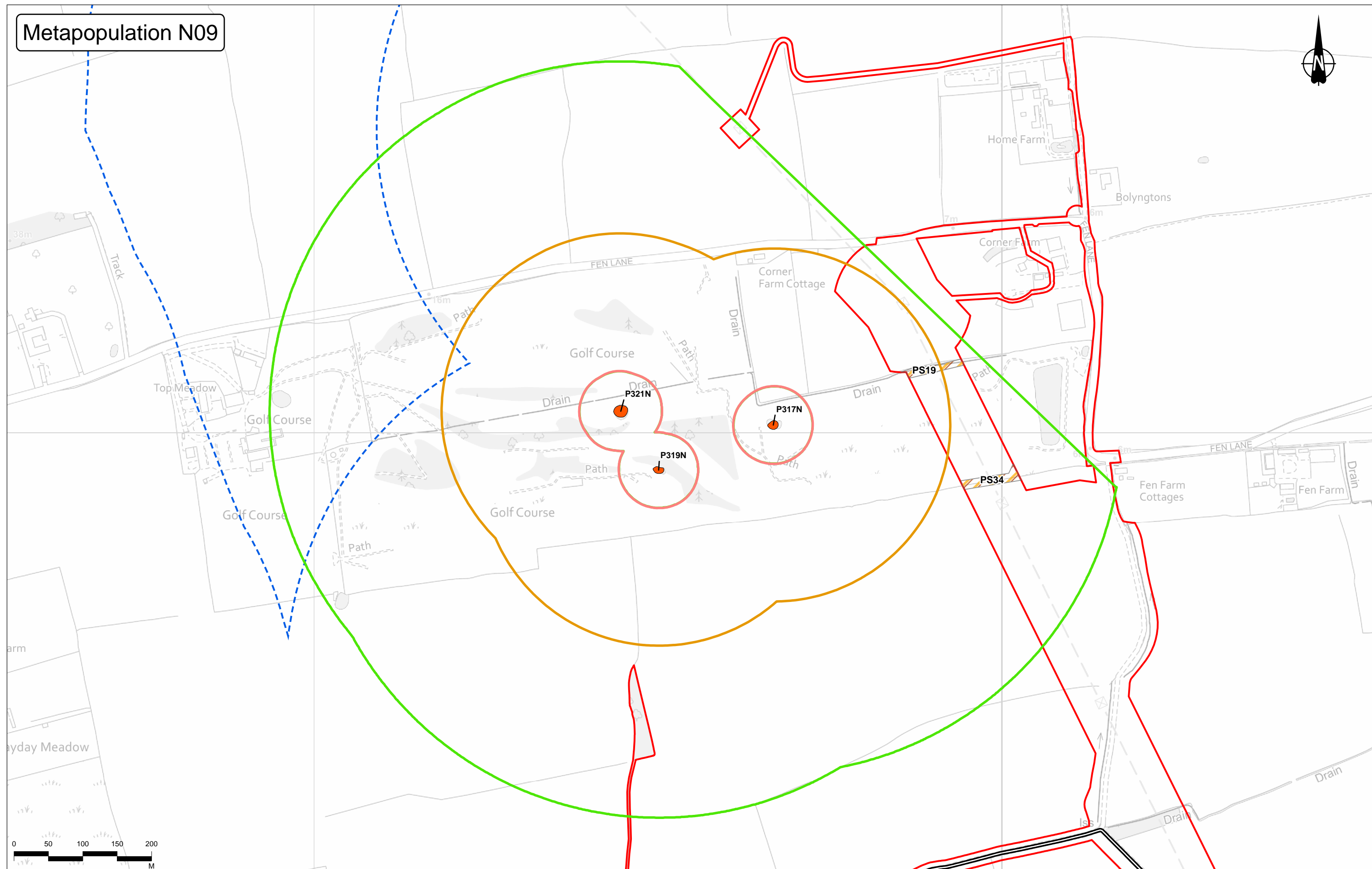


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:8,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N07 Page 12 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

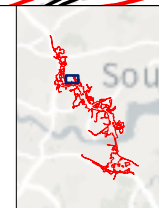


# Metapopulation N09



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Legend		Mitigation Receptor Areas		Ponds		Pond buffers	
	Order Limits		Mitigation Area		Present - eDNA		250m pond buffer
	Route Alignment		Receptor Site		500m pond buffer		50m pond buffer
	GCN Survey Area						



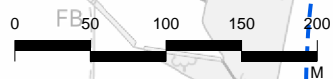
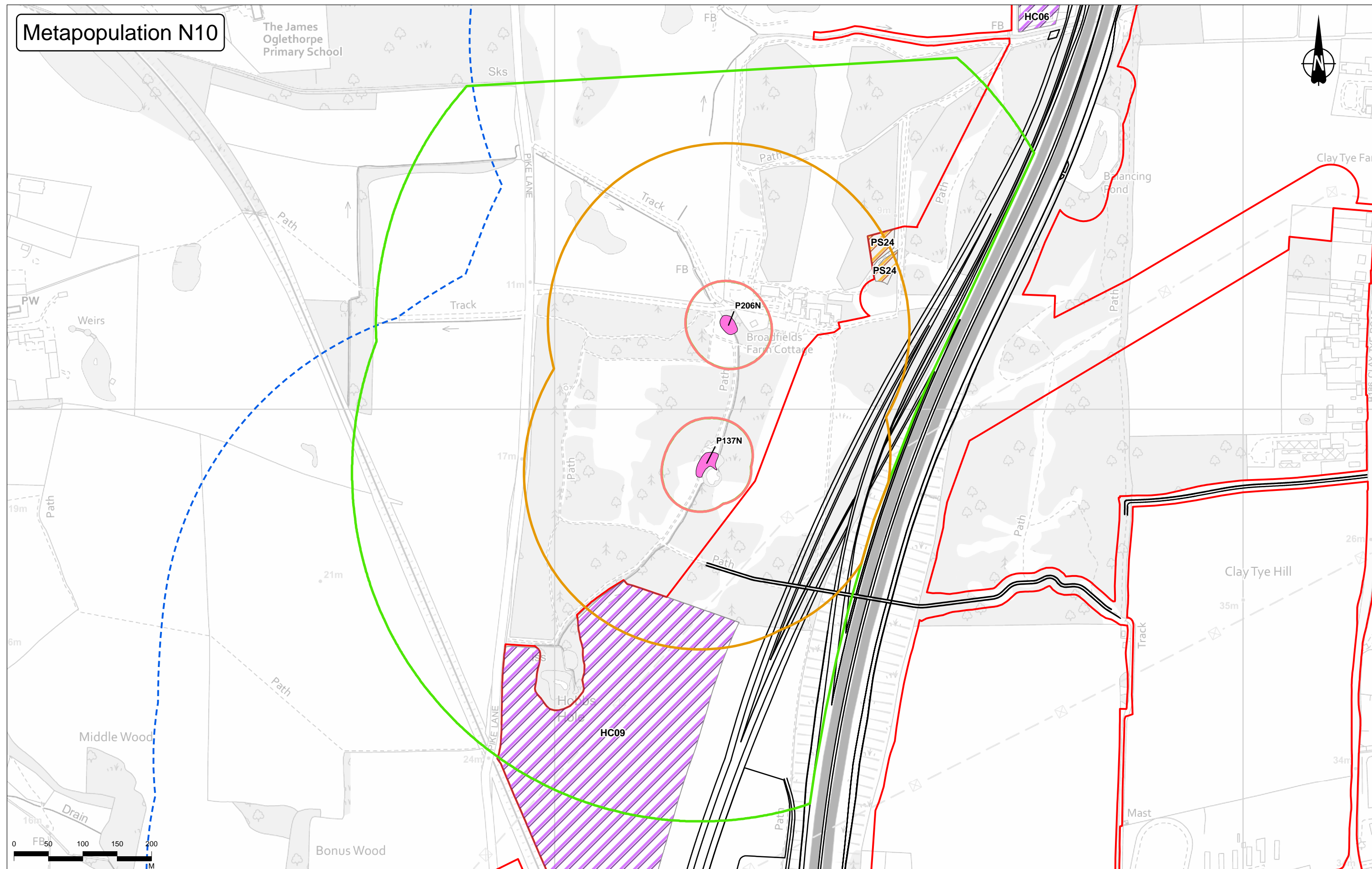
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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N09 Page 13 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60027				

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

# Metapopulation N10

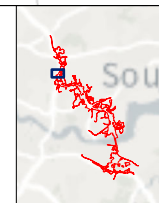


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### Legend

- Order Limits
- Route Alignment
- GCN Survey Area
- Mitigation Area
- Mitigation Receptor Areas
- Receptor Site
- Ponds
- Present - Conventional
- Pond buffers
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

P03	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd



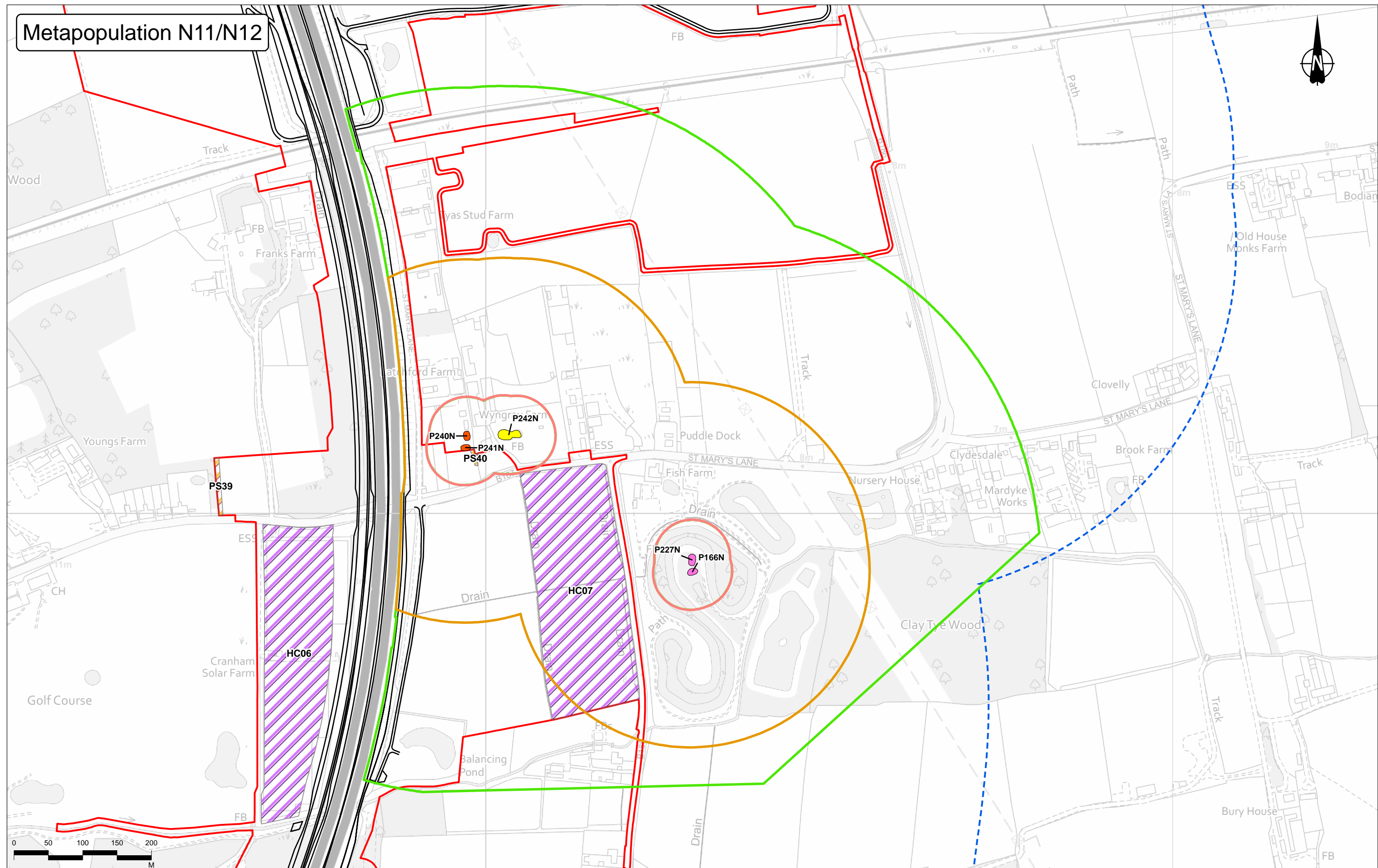
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N10 Page 14 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



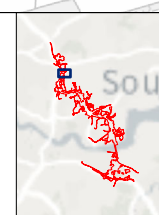
# Metapopulation N11/N12



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Mitigation Receptor Areas	Ponds	Pond buffers
	Order Limits			
	Route Alignment			
	GCN Survey Area			



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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N11/N12 Page 15 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

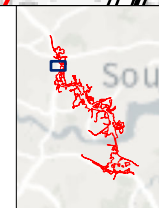
Metapopulation N13



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appr'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Pond buffers	
	Order Limits		50m pond buffer
	Route Alignment		250m pond buffer
	GCN Survey Area		500m pond buffer
	Mitigation Area		Present - Conventional
	Receptor Site		Assumed present - No access

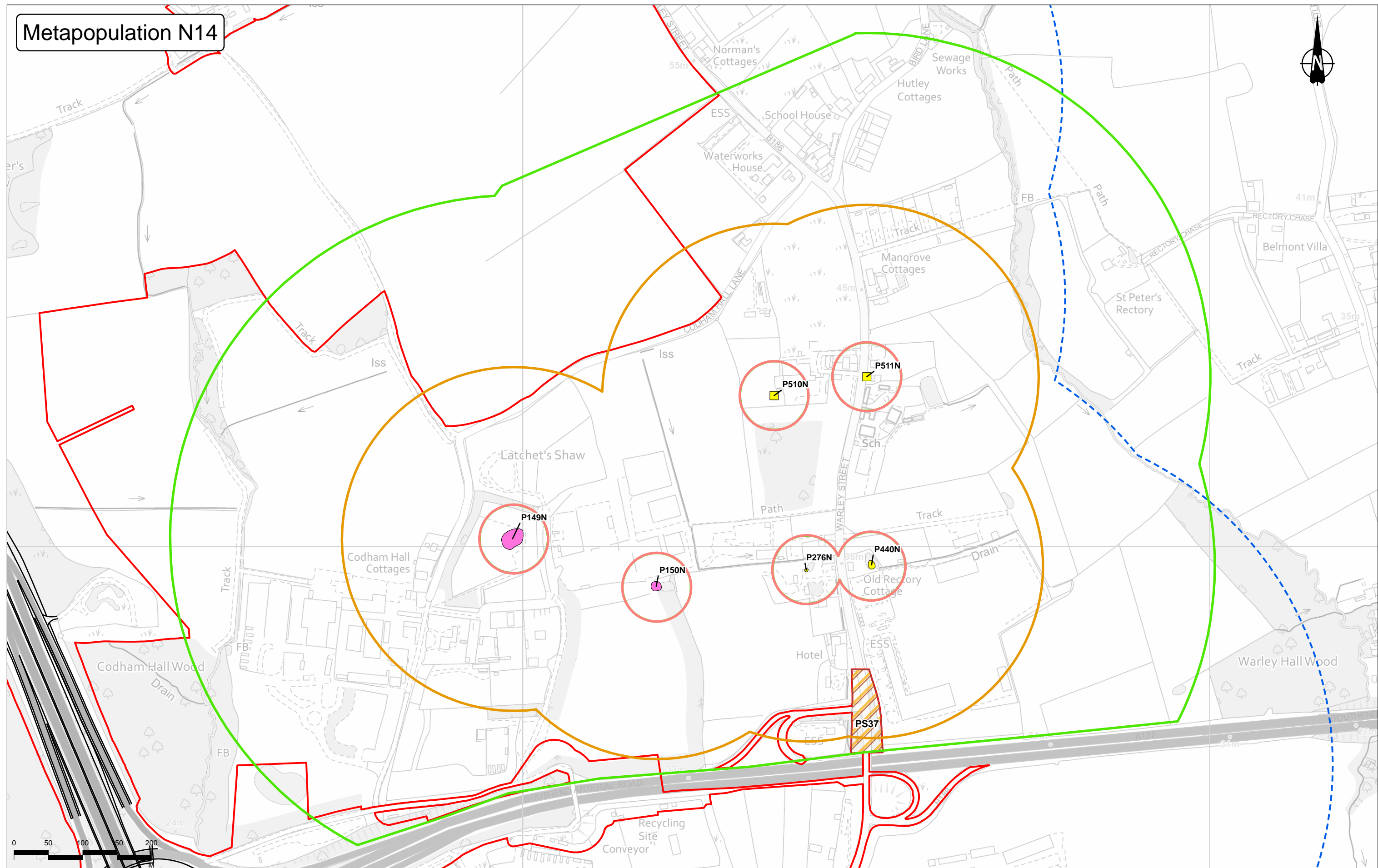


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N13 Page 16 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



# Metapopulation N14

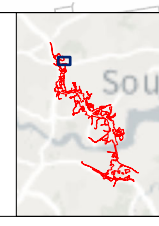


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

- Order Limits (Red outline)
- Route Alignment (Black line)
- GCN Survey Area (Blue dashed line)
- Mitigation Receptor Areas (Purple hatched area)
- Mitigation Area (Purple outline)
- Receptor Site (Orange hatched area)
- Pond Status, Survey Year**
  - Assumed present - No access (Yellow square)
  - Present - Conventional (Pink circle)
- Pond buffers**
  - 50m pond buffer (Red outline)
  - 250m pond buffer (Orange outline)
- 500m pond buffer (Green outline)

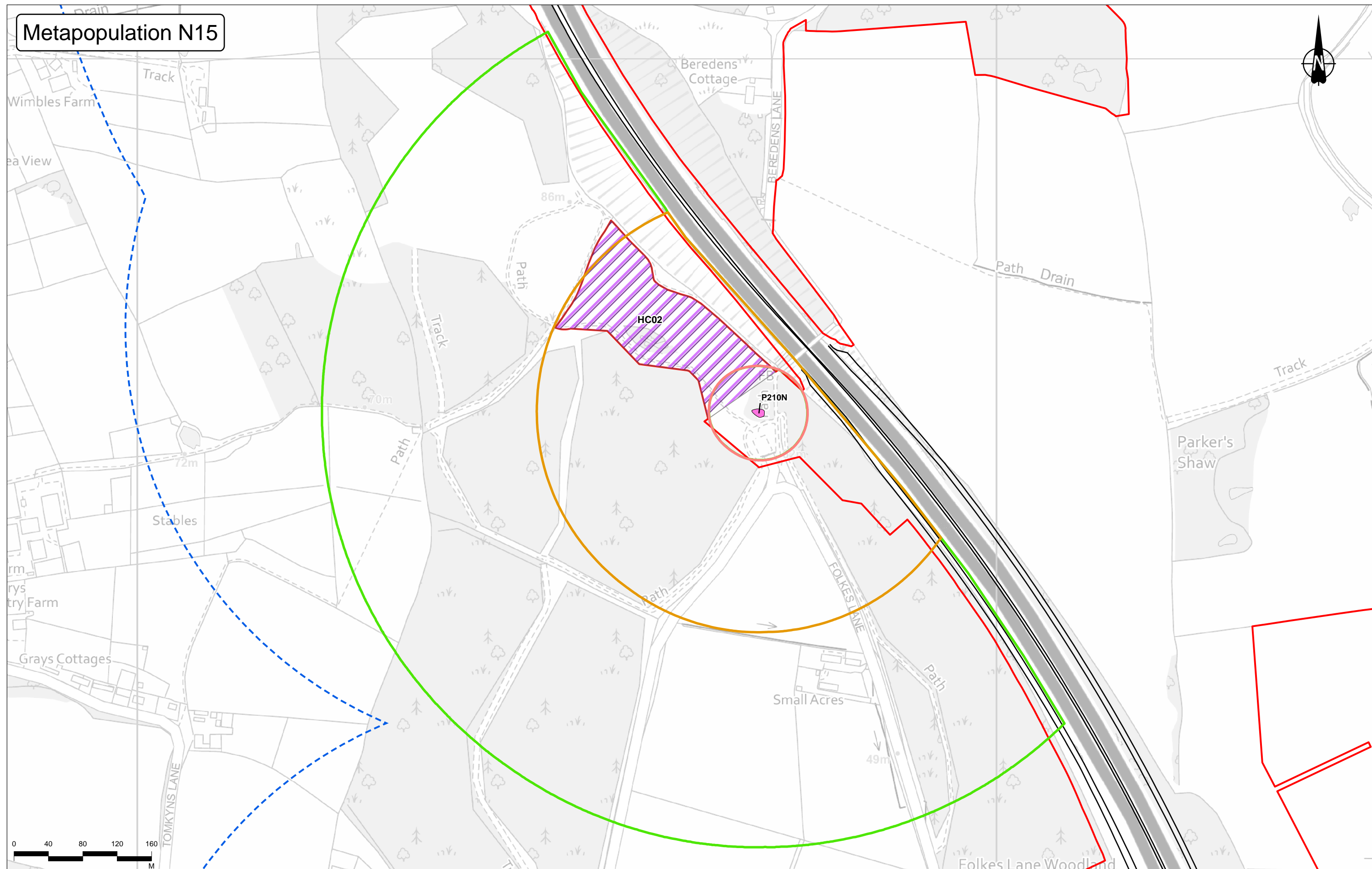


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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N14 Page 17 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

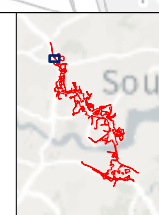
# Metapopulation N15



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

Legend		Mitigation Receptor Areas	Ponds	Pond buffers
	Order Limits			
	Route Alignment			
	GCN Survey Area			



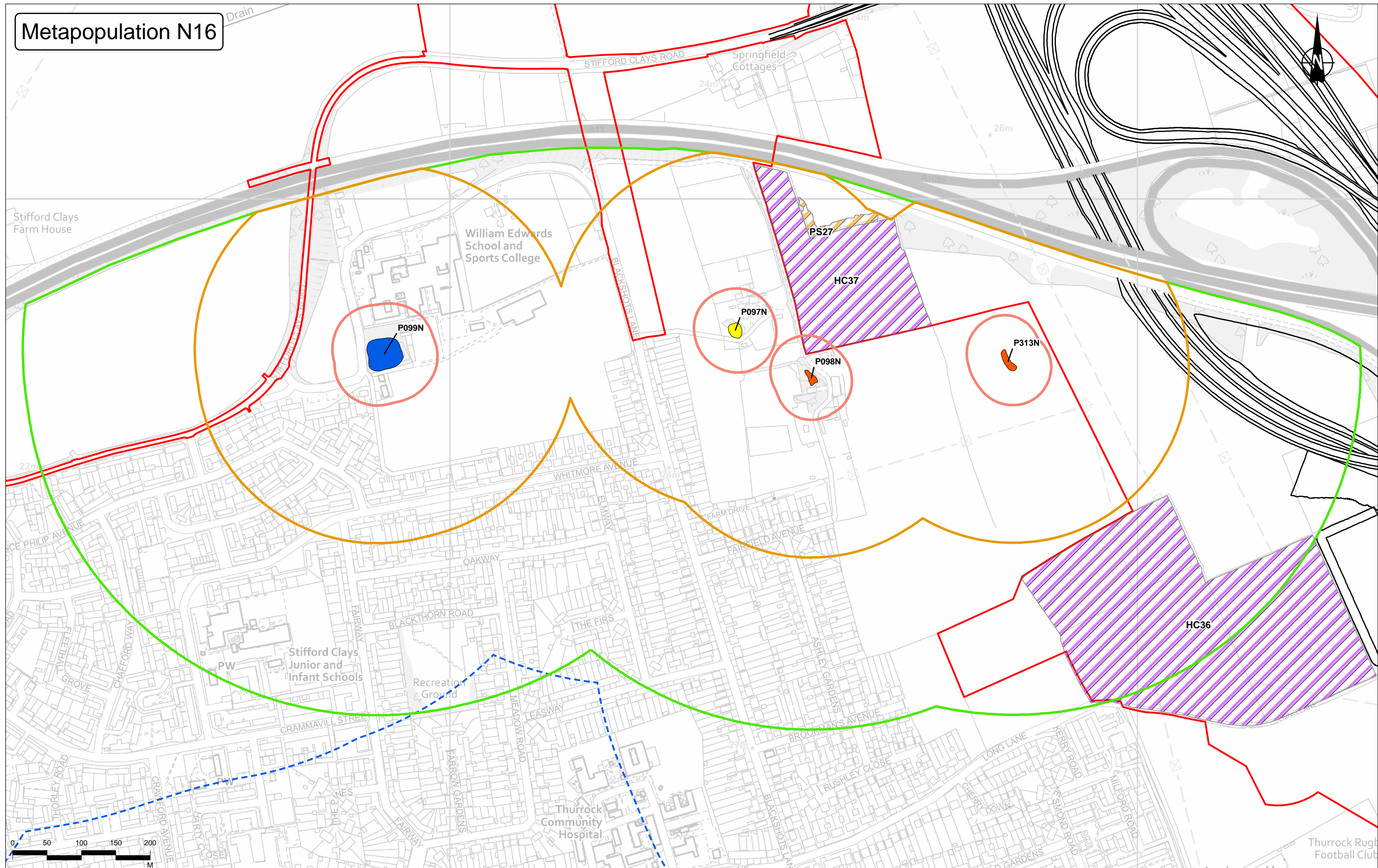
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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:4,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N15 Page 18 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				



# Metapopulation N16

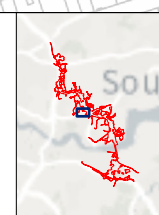


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

- Order Limits
- Route Alignment
- GCN Survey Area
- Mitigation Receptor Areas
- Mitigation Area
- Receptor Site
- Ponds**
- Present - eDNA
- Assumed present - No access
- Assumed present - eDNA inconclusive
- Pond buffers**
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer



Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure E2 - Receptor Map Metapopulation N16 Page 19 of 21				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60027				

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