

# Lower Thames Crossing

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

(4 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

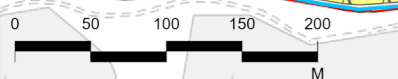
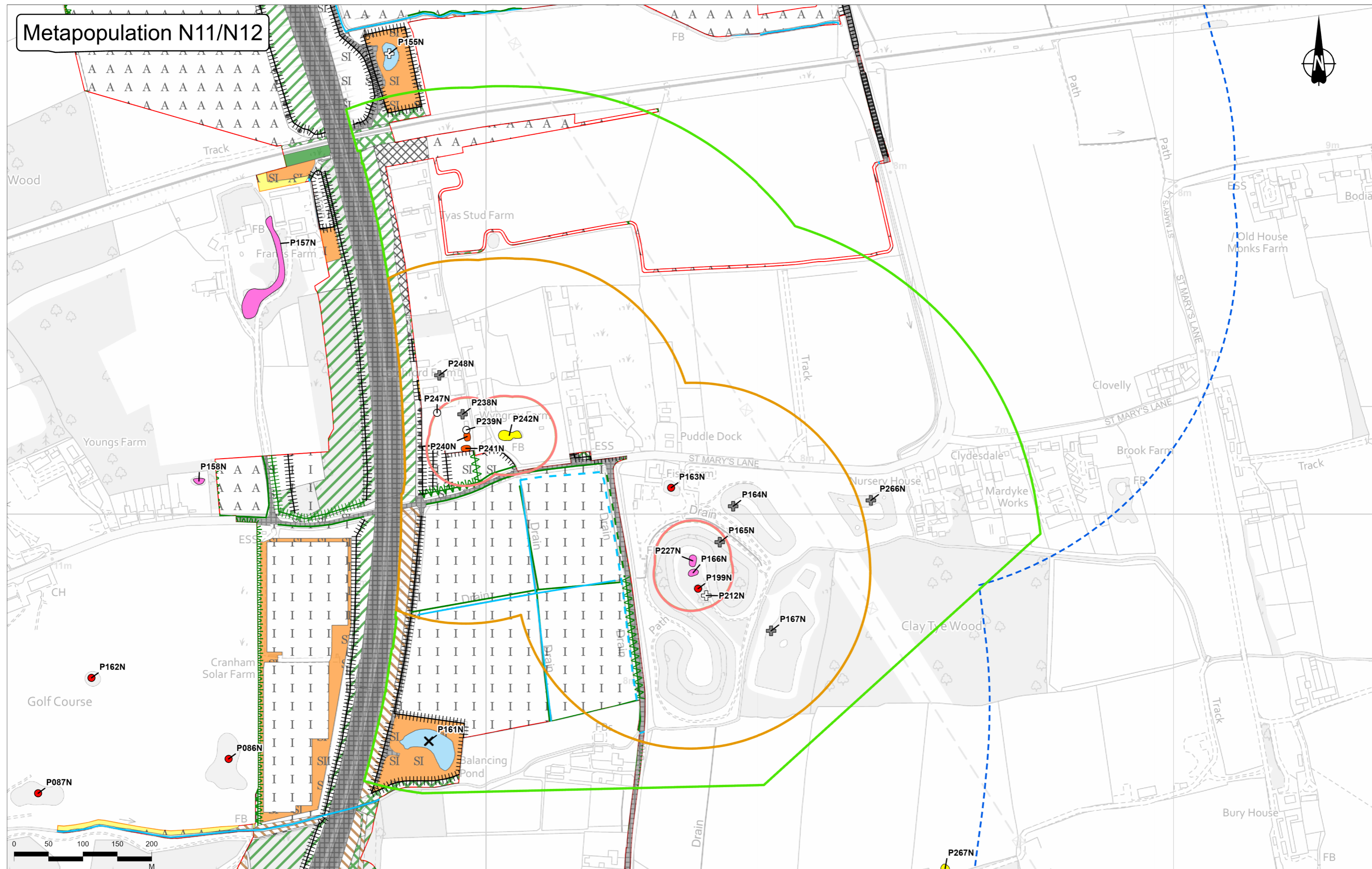
**VERSION: 2.0**

### 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 N11/N12



Legend		Pond Status, Survey Year	
Order Limits	250m pond buffer	Present - eDNA	Absent - eDNA (2018)
GCN Survey Area	500m pond buffer	Assumed present - No access	Dry
50m pond buffer	Present - Conventional	Absent - Conventional (2018)	No pond
	Ponds	Unsuitable	

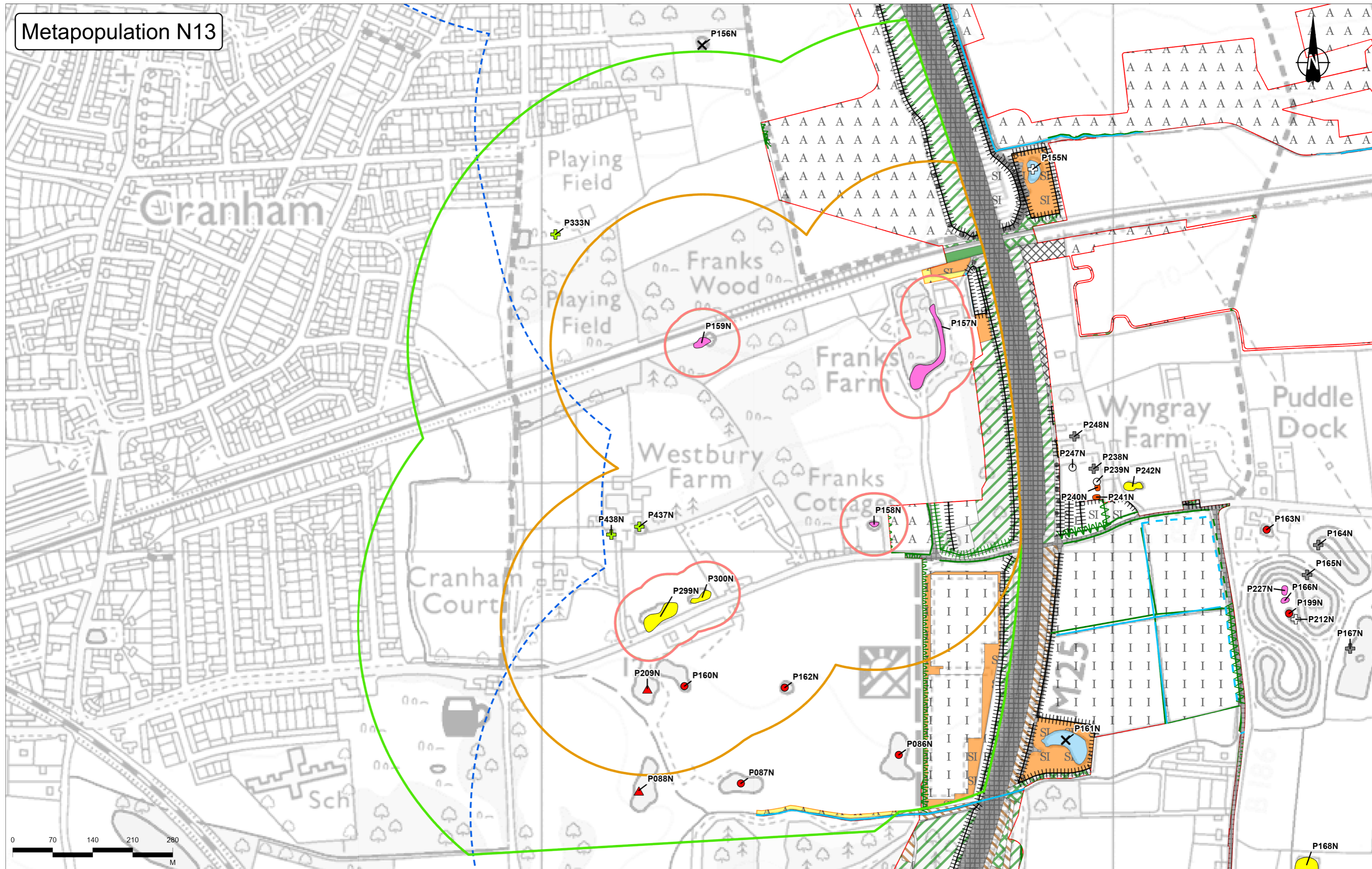
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

	Client	Status	DCO APPLICATION	Original Size	A3	Revision	P02
	Project	Application Document Number	TR010032/APP/6.2	Scale	1:5,000		
		Drawing Title	Figure C3.2c Detailed Metapopulation N11/N12				
			Page 24 of 38				
		Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				

Z:\Environment\Environmental Statement\08\_Terrestrial Biodiversity\Licence\_Figures\HE540039-CJV-EBD-SZP\_EGNE00000000-DR-LE-60034 - Figure C3.2c - Detailed Metapopulation\HE540039-CJV-EBD-SZP\_EGNE00000000-DR-LE-60034 - Figure C3.apr



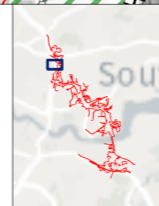
# Metapopulation N13



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprvd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

Legend		Pond Status, Survey Year		Unknown - Scoped out	
	Order Limits		Assumed present - No access		Unknown - Scoped out
	GCN Survey Area		Absent - Conventional (2018)		Dry
	250m pond buffer		Absent - eDNA (2018)		No pond
	500m pond buffer		Assumed absent - Conventional (2018)		Unsuitable
	50m pond buffer		Present - Conventional		
	Ponds		Present - eDNA		



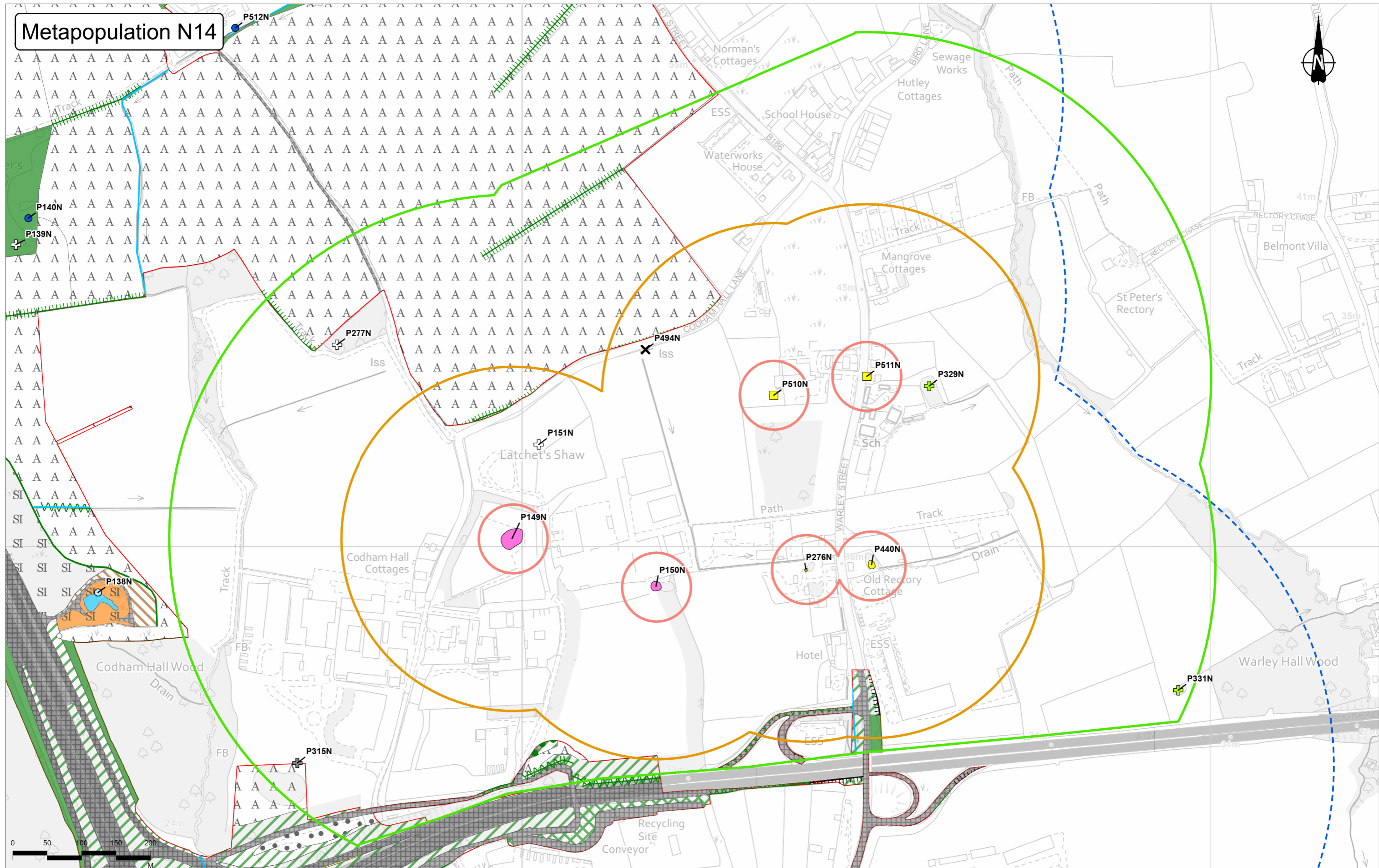
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

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Application Document Number	TR010032/APP/6.2	Scale	1:6,000		
Drawing Title	Figure C3.2c Detailed Metapopulation N13				
	Page 25 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				



# Metapopulation N14



### Legend

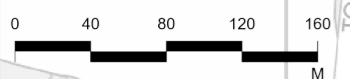
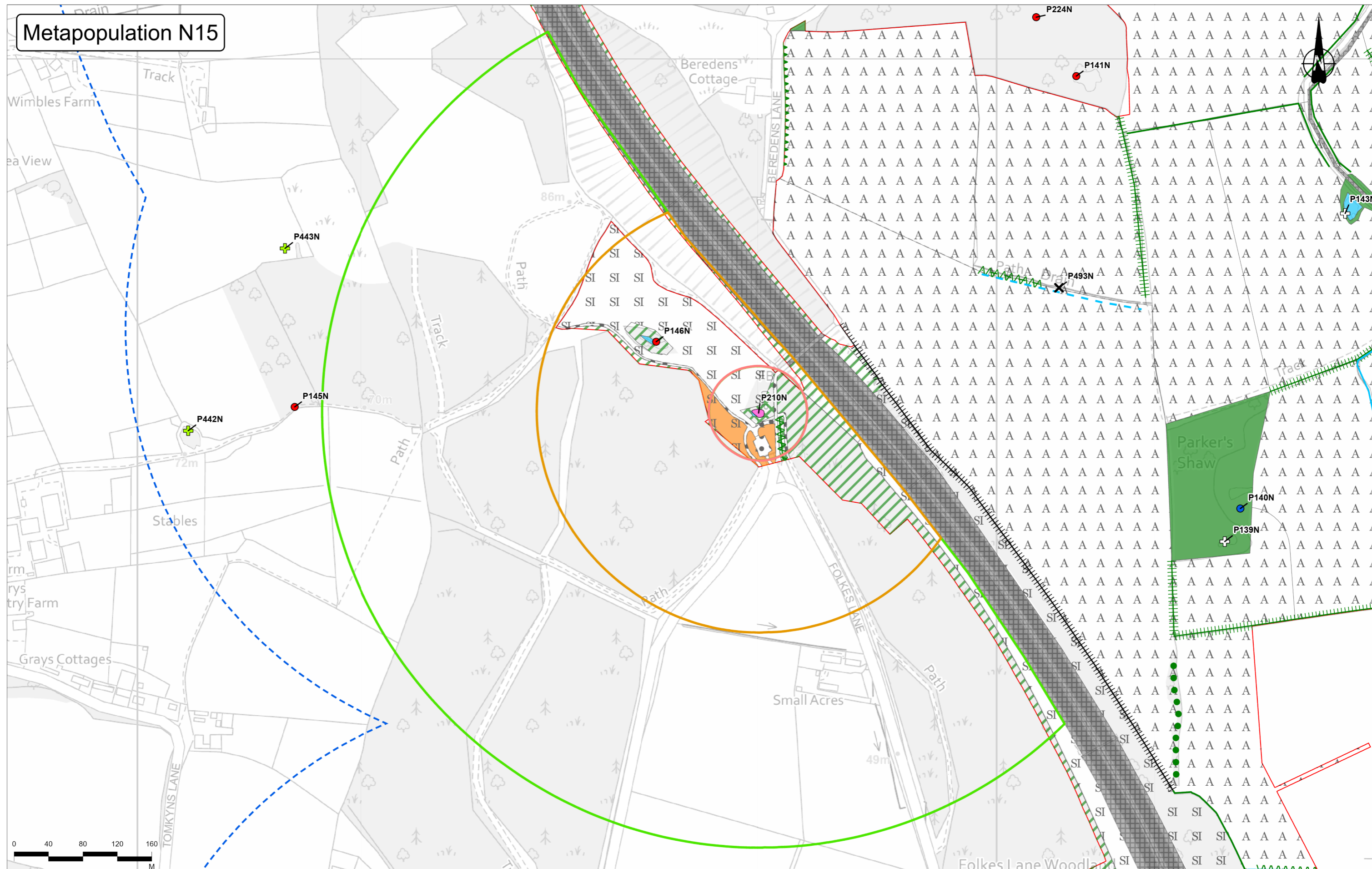
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|---------------------|-----------------------------|---------------------------------|----------------------|
| Order Limits        | 250m pond buffer            | <b>Pond Status, Survey Year</b> | Unknown - Scoped out |
| GCN Survey Area     | 500m pond buffer            | Assumed present - No access     | Dry                  |
| <b>Pond buffers</b> | <b>Ponds</b>                | Absent - eDNA (2019)            | No pond              |
| 50m pond buffer     | Present - Conventional      | Absent - eDNA (2022)            | Unsuitable           |
|                     | Assumed present - No access |                                 |                      |

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

	Status	DCO APPLICATION	Original Size	A3	Revision	P02
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		Page 26 of 38				
	Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60034				



# Metapopulation N15



Legend		Pond Status, Survey Year	
Order Limits	250m pond buffer	Absent - Conventional (2018)	Dry
GCN Survey Area	500m pond buffer	Absent - eDNA (2022)	No pond
50m pond buffer	Present - Conventional	Unknown - Scoped out	

	Client	DCO APPLICATION	Original Size	Revision
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Project		Scale	1:4,000	

Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprv'd
P02	S8	19/09/2022	DCO Application	CD	HT	BF



# Metapopulation N16



P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

**Legend**

- Order Limits (Red outline)
- GCN Survey Area (Blue dashed line)
- 50m pond buffer (Red outline)
- 250m pond buffer (Orange outline)
- 500m pond buffer (Green outline)
- Assumed present - eDNA inconclusive (Blue fill)
- Pond Status, Survey Year**
  - Absent - Conventional (2018) (Red circle)
  - Assumed absent - eDNA (2020) (Green triangle)
  - Present - eDNA (Orange fill)
  - Assumed present - No access (Yellow fill)

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: **DCO APPLICATION**

Application Document Number: TR010032/APP/6.2

Drawing Title: **Figure C3.2c Detailed Metapopulation N16**

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Drawing Number: HE540039-CJV-EBD-SZP\_EGNE00000000-DR-LE-60034

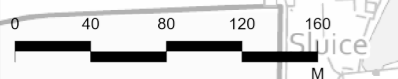
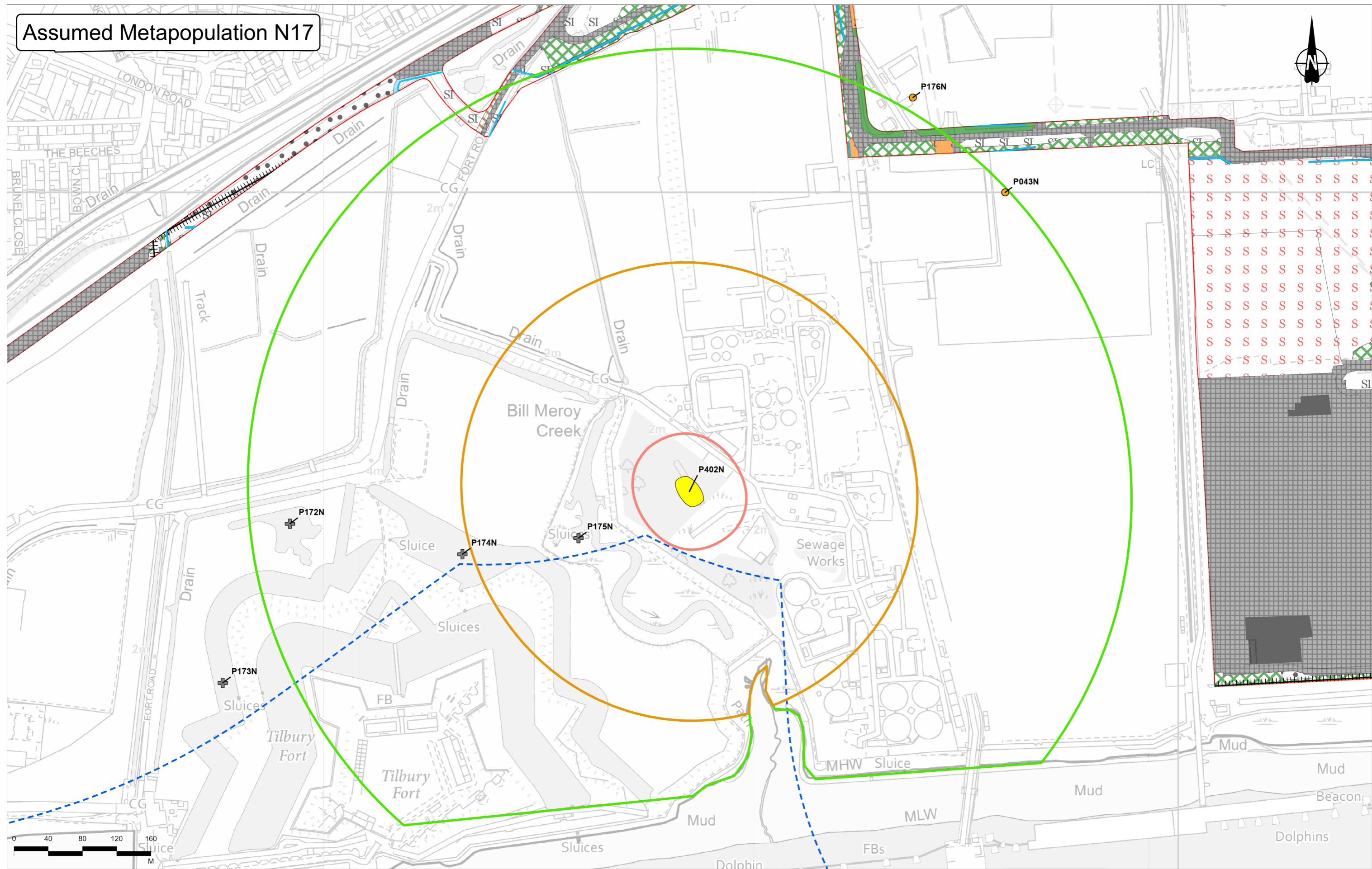
Original Size: **A3**

Revision: **P02**

Scale: 1:5,000



# Assumed Metapopulation N17



- Legend**
- Order Limits (Red dashed line)
  - GCN Survey Area (Blue dashed line)
  - Pond buffers (Orange and Green lines)
  - 50m pond buffer (Red dashed line)
  - 250m pond buffer (Orange line)
  - 500m pond buffer (Green line)
  - Pond Status, Survey Year**
    - Absent - Desk Study (No access) (2016 & 2017) (Orange dot)
    - Unsuitable (Cross symbol)
  - Ponds**
    - Assumed present - No access (Yellow fill)

Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved
P02	S8	19/09/2022	DCO Application	CD	HT	BF

Client: **national highways**

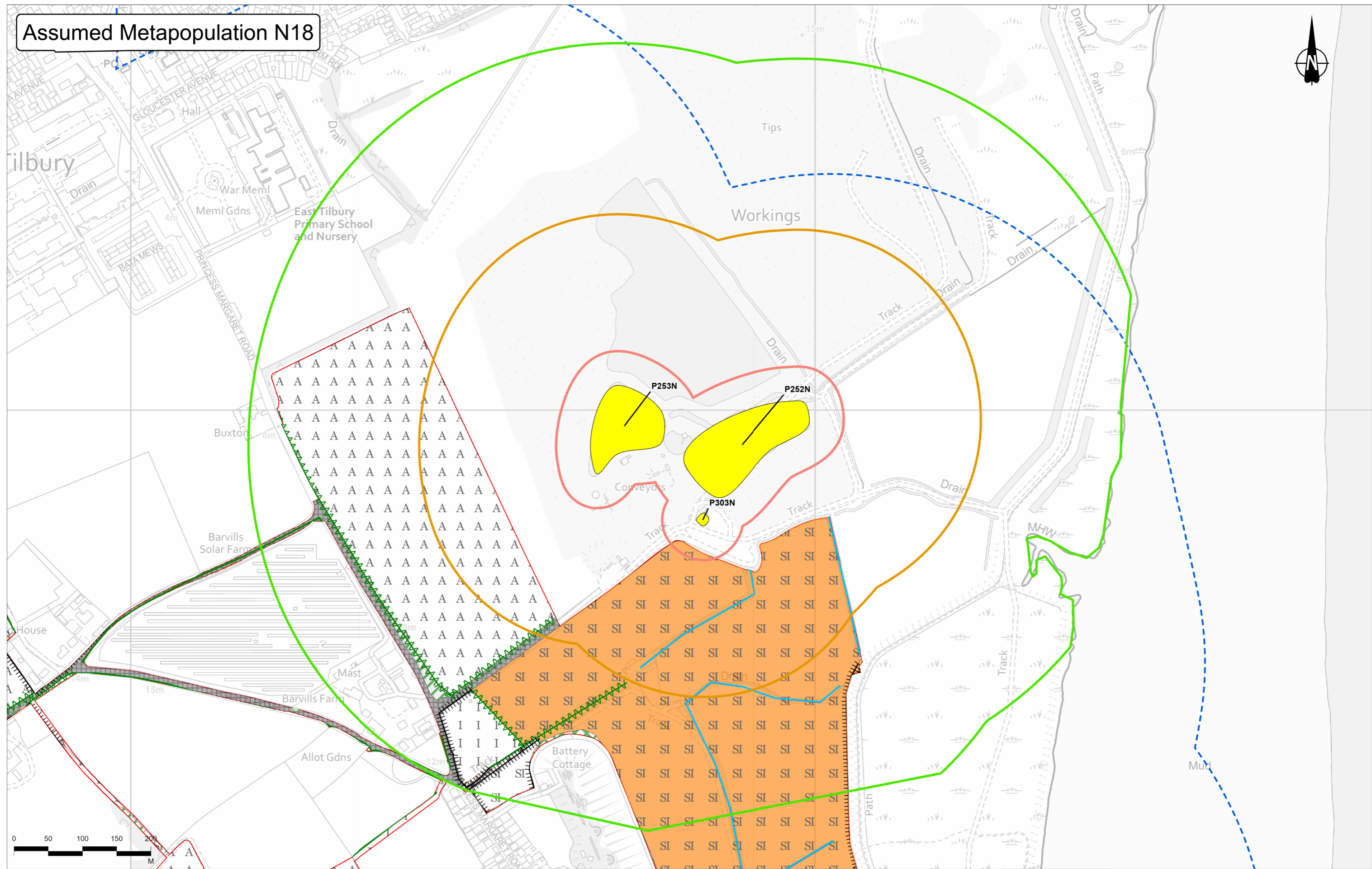
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	Page 29 of 38				
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# Assumed Metapopulation N18



- Legend**
- Order Limits
  - GCN Survey Area
  - 500m pond buffer
  - 50m pond buffer
  - 250m pond buffer
  - Ponds
  - Assumed present - No access

Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprvd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

Client: **national highways**

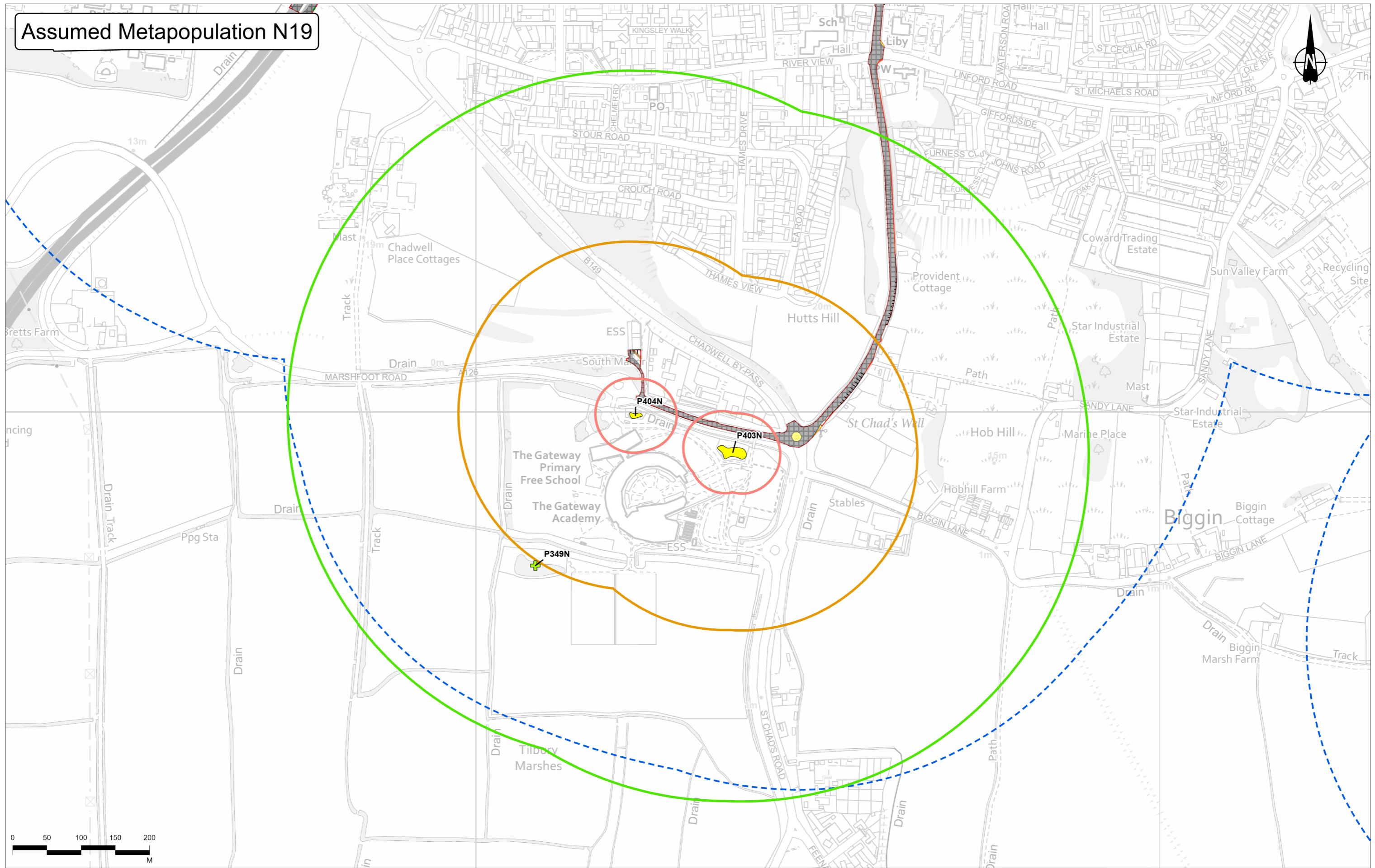
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	Page 30 of 38				
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# Assumed Metapopulation N19

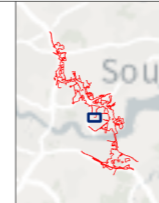


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P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

- Legend**
- Order Limits (Red dashed line)
  - GCN Survey Area (Blue dashed line)
  - Pond buffers (Red solid line)
  - 50m pond buffer (Red solid line)
  - 250m pond buffer (Orange solid line)
  - 500m pond buffer (Green solid line)
  - Ponds (Yellow solid area)
  - Assumed present - No access (Yellow solid area)

- Pond Status, Survey Year**
- Unknown - Scoped out (Green cross symbol)



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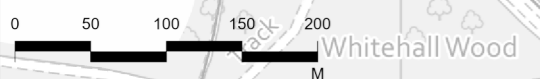
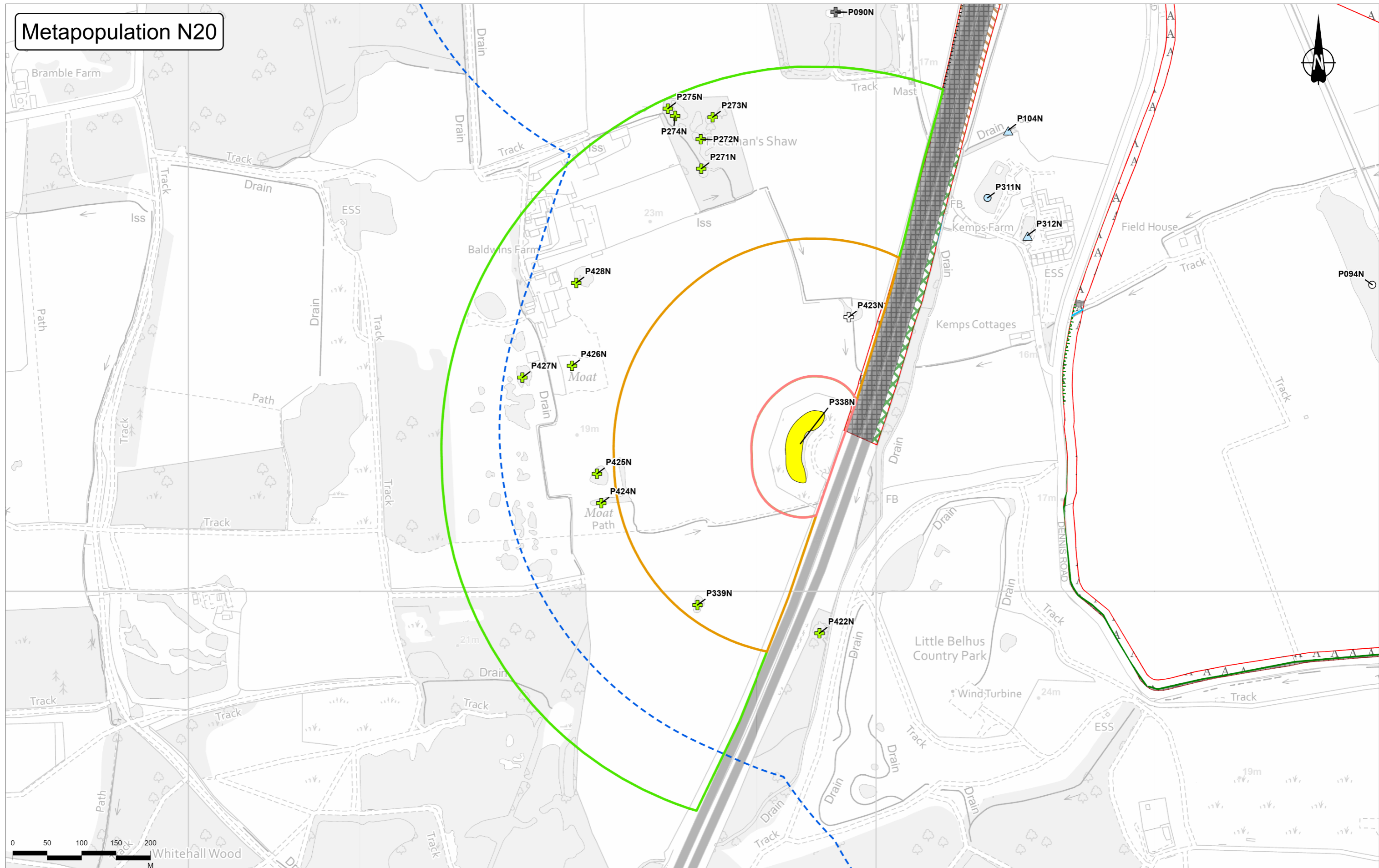
Project: **LOWER THAMES CROSSING**

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# Metapopulation N20



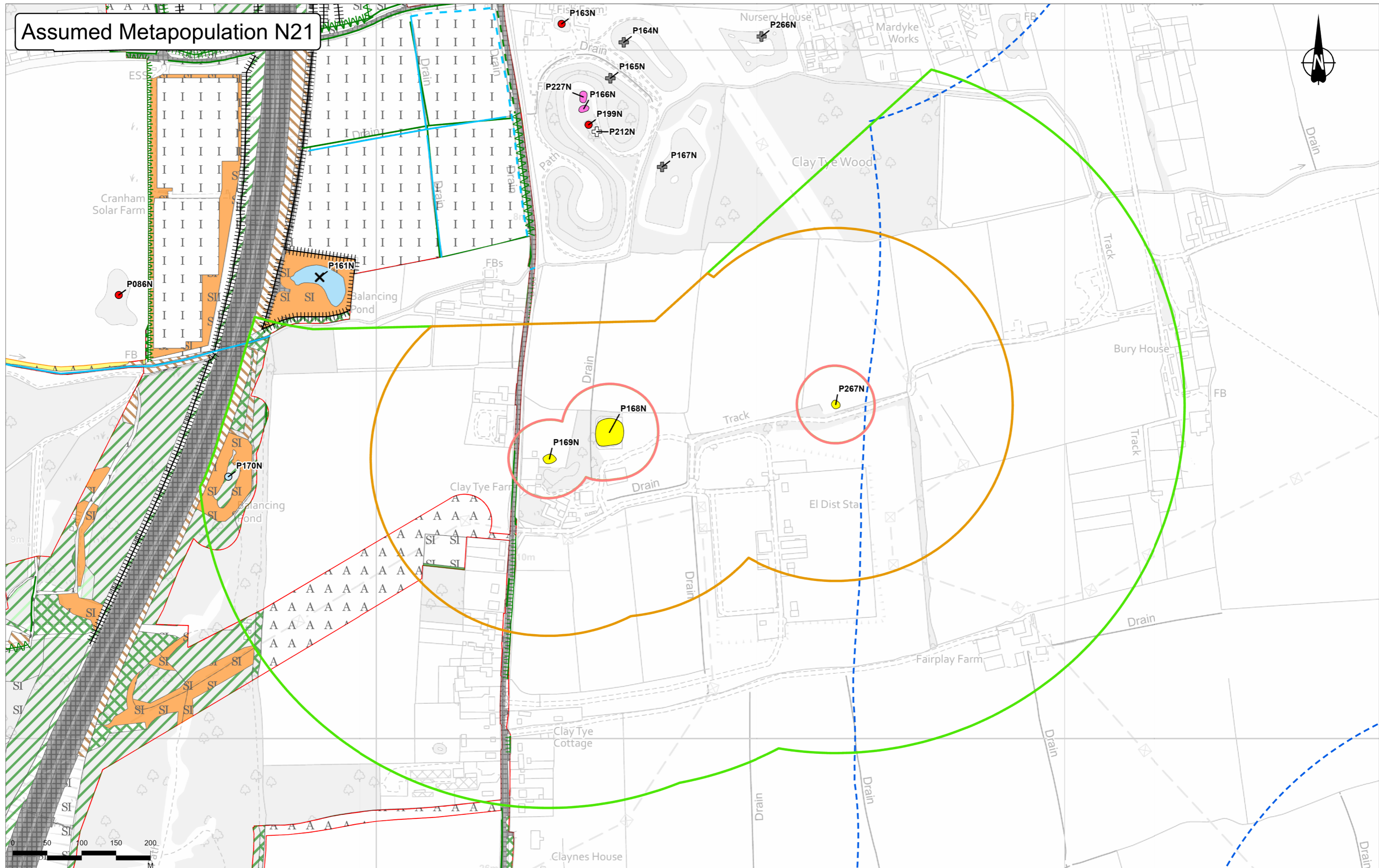
### Legend

- Order Limits
- GCN Survey Area
- Pond buffers**
- 250m pond buffer
- 500m pond buffer
- 50m pond buffer
- Ponds
- Assumed present - No access
- Pond Status, Survey Year**
- Absent - eDNA (2018)
- Absent - eDNA (2019)
- Assumed absent - eDNA (2019)
- + Unknown - Scoped out
- + Dry
- + Unsuitable

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

	Client	DCO APPLICATION	Original Size	Revision
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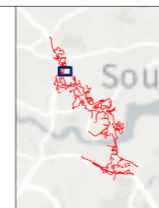
# Assumed Metapopulation N21



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

Legend		Pond Status, Survey Year	
	Order Limits		Assumed present - No access
	GCN Survey Area		Absent - Conventional (2018)
	250m pond buffer		Absent - eDNA (2019)
	500m pond buffer		Dry
	50m pond buffer		No pond
	Present - Conventional		Unsuitable



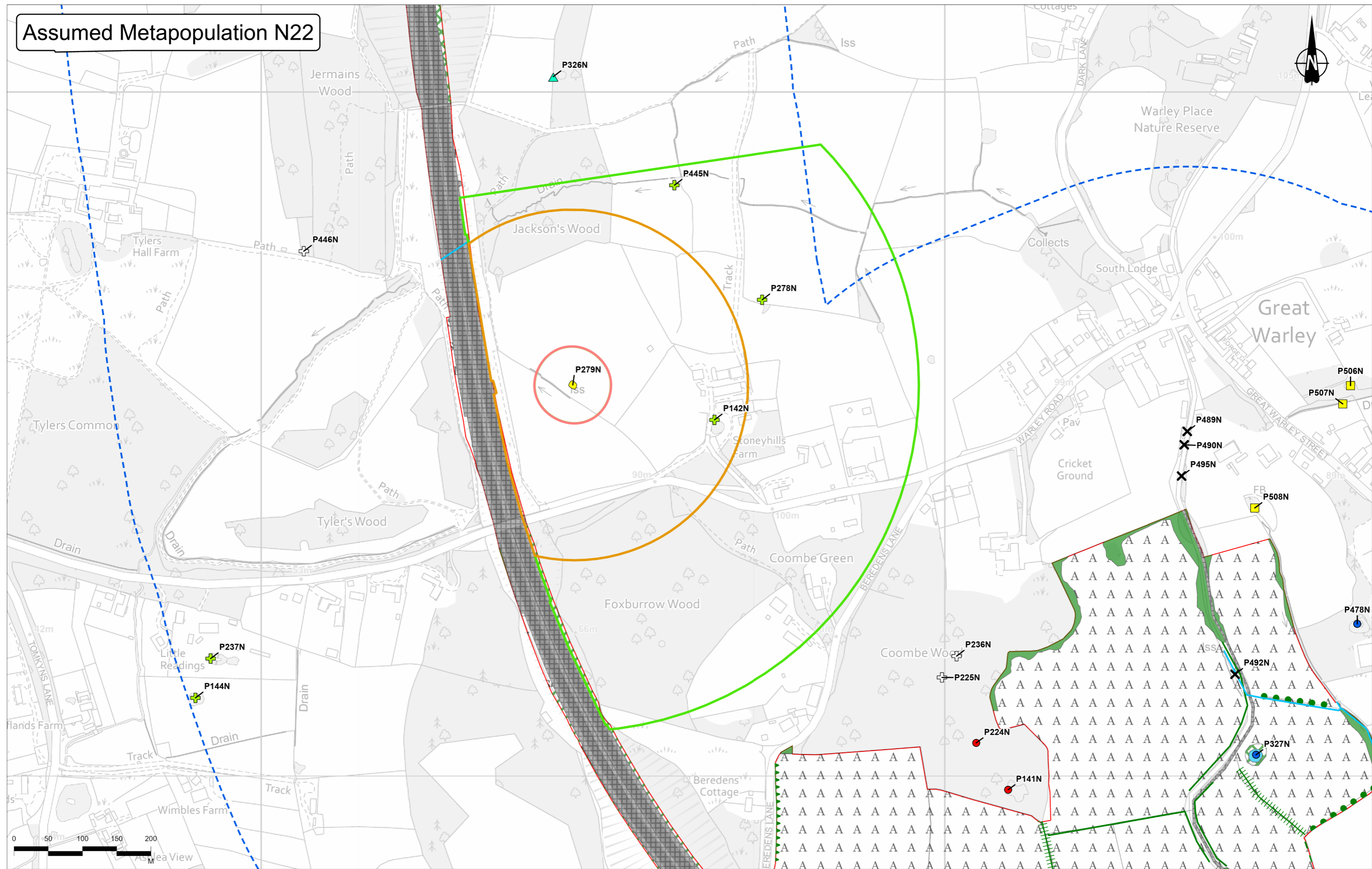
Client: national highways

Project: LOWER THAMES CROSSING

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	Page 33 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				



# Assumed Metapopulation N22



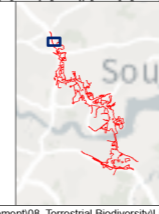
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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved
P02	S8	19/09/2022	DCO Application	CD	HT	BF

Legend	
	Order Limits
	GCN Survey Area
	50m pond buffer
	250m pond buffer
	500m pond buffer
	Assumed present - No access
	Assumed present - No access

Pond Status, Survey Year	
	Assumed present - No access
	Absent - Conventional (2018)
	Absent - eDNA (2022)

	Assumed absent - eDNA (2020)
	Unknown - Scoped out
	Dry
	No pond

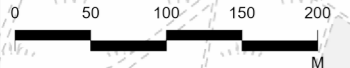
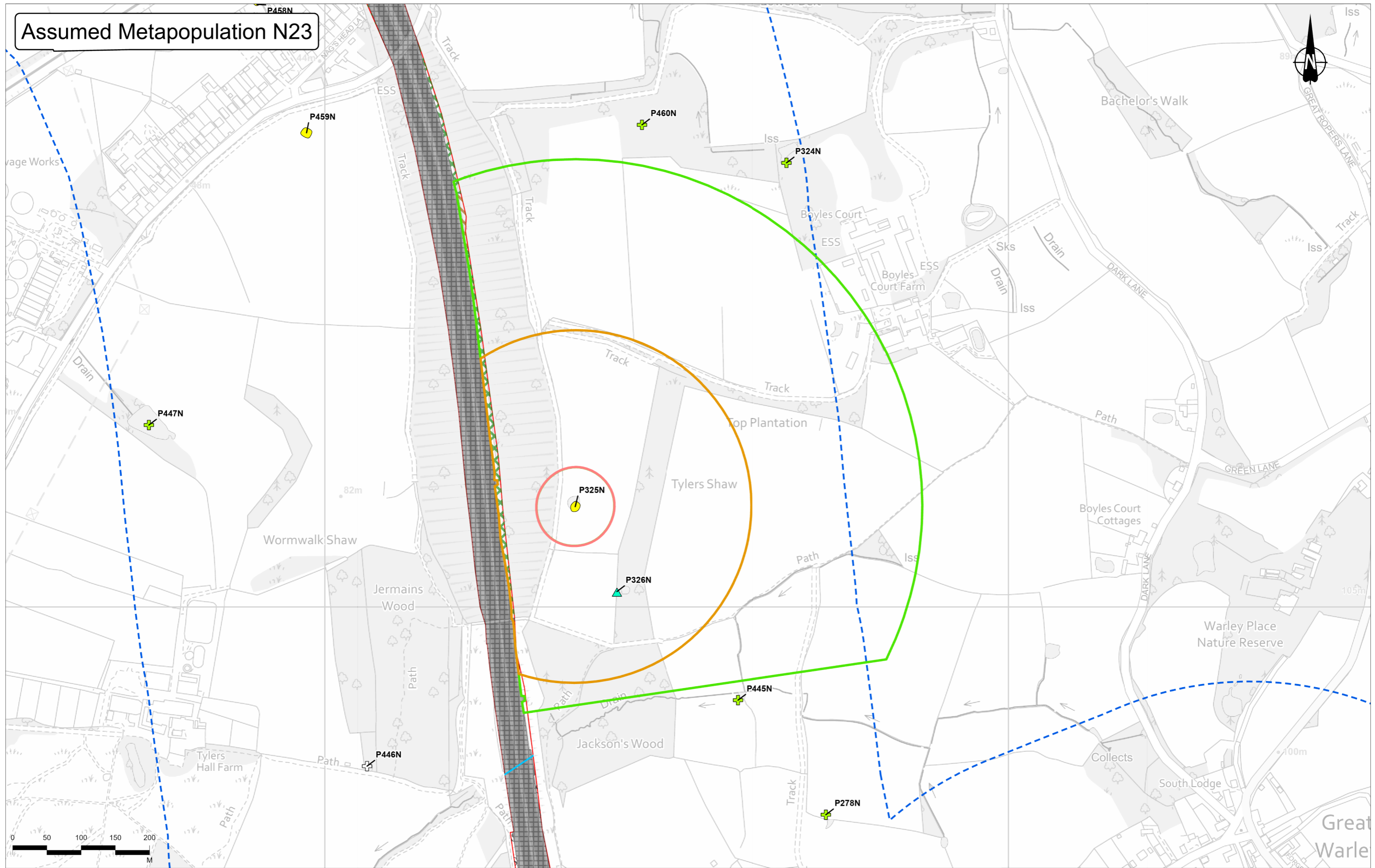


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Project: LOWER THAMES CROSSING

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Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				

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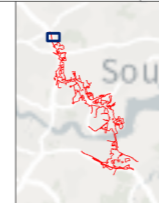


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Checkd	Apprvd
P02	S8	19/09/2022	DCO Application	CD	HT	BF

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

- Pond Status, Survey Year**
- Assumed absent - eDNA (2020)
  - Unknown - Scoped out
  - Dry



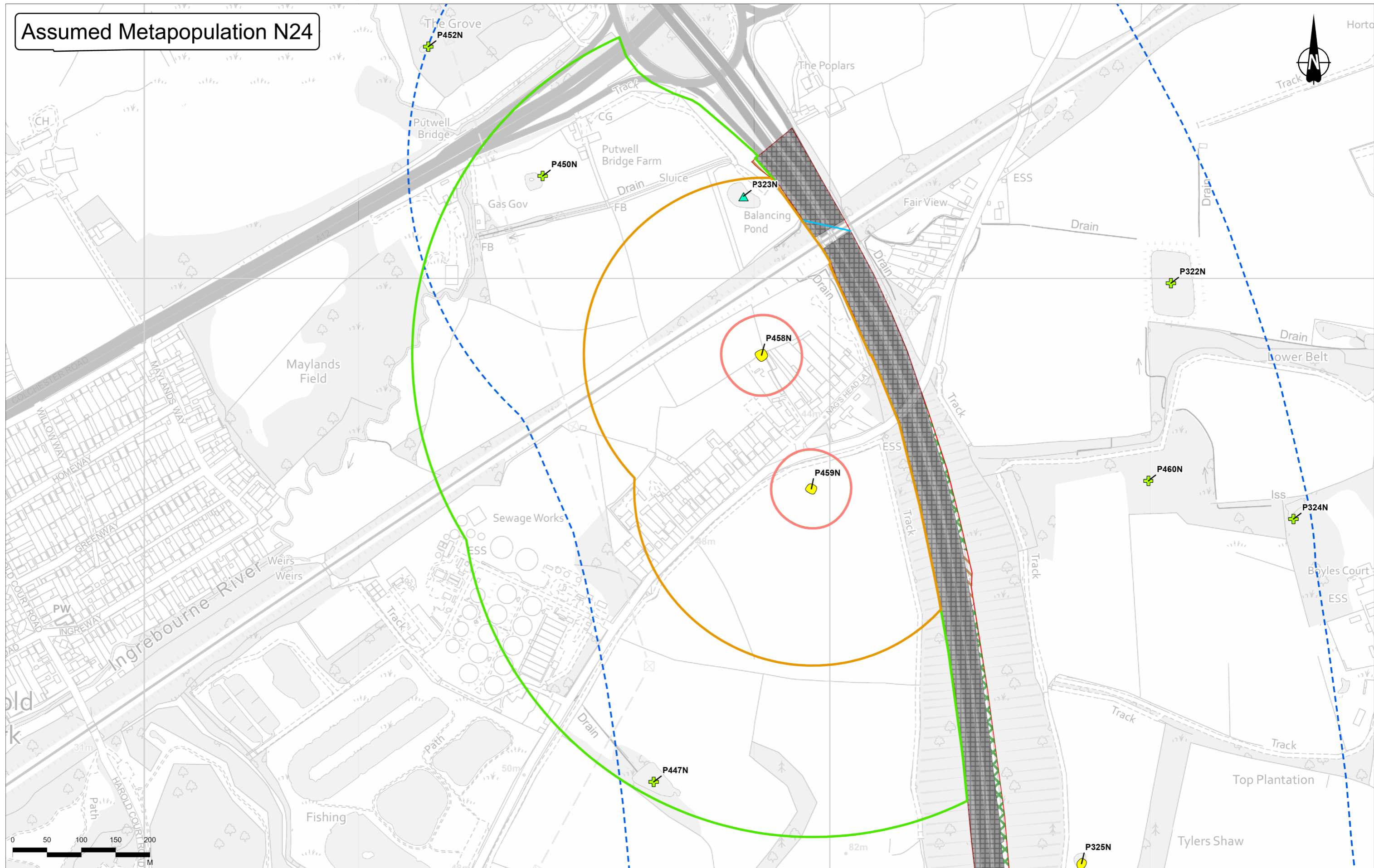
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Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P02
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	Page 35 of 38				
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# Assumed Metapopulation N24

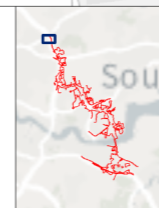


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P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

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

- Pond Status, Survey Year**
- ▲ Assumed absent - eDNA (2020)
  - + Unknown - Scoped out



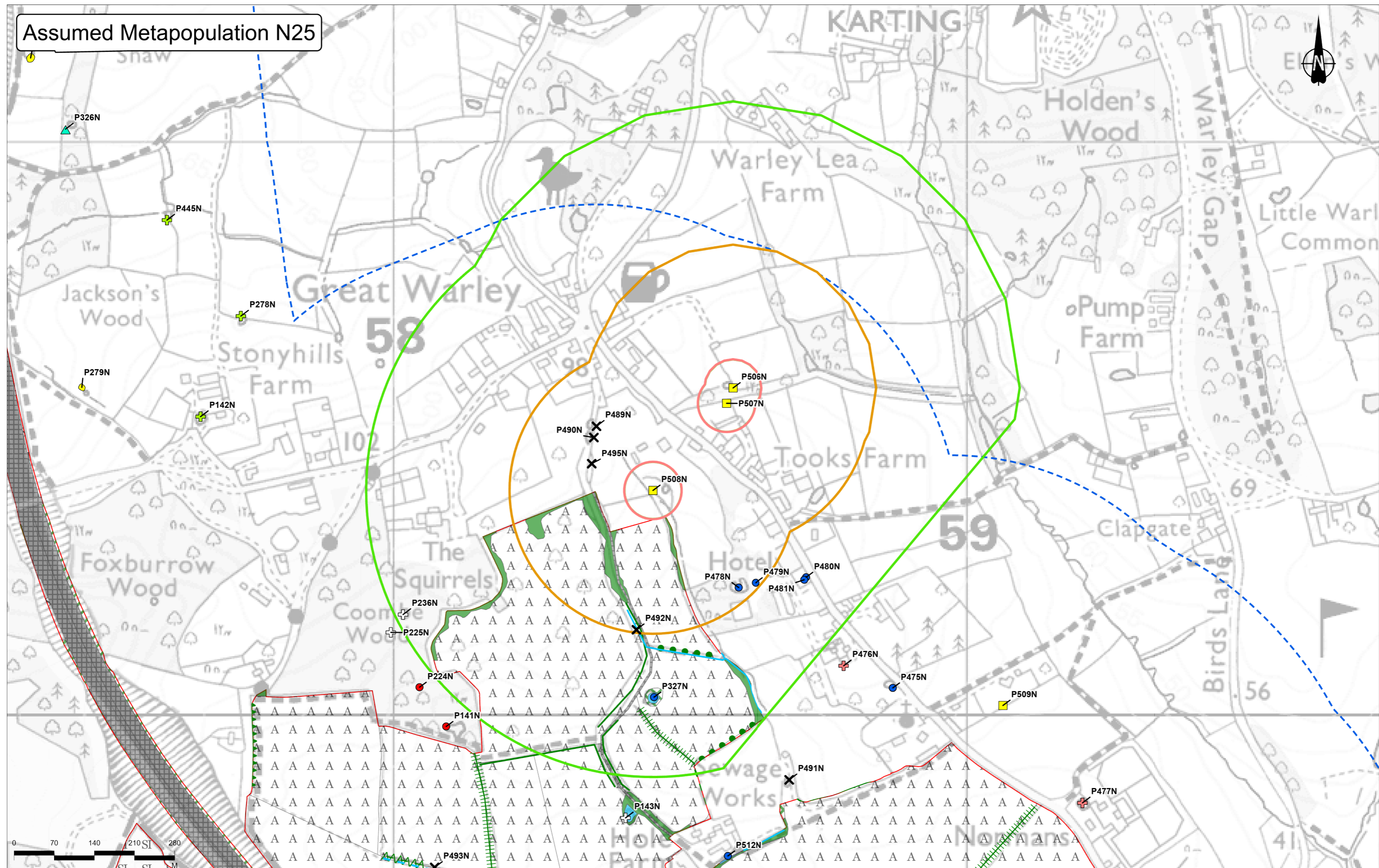
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Project  
**LOWER THAMES CROSSING**

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Drawing Title	Figure C3.2c Detailed Assumed Metapopulation N24				
	Page 36 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60034				



# Assumed Metapopulation N25



### Legend

- Order Limits
- GCN Survey Area
- Pond buffers**
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer
- Ponds**
- Assumed present - No access
- Assumed present - No access
- Pond Status, Survey Year**
- Absent - Conventional (2018)
- Absent - eDNA (2022)
- ▲ Assumed absent - eDNA (2020)
- + Unknown - Scoped out
- + Dry
- ✕ No pond
- + Scoped out - unsuitable (2022)

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

Client

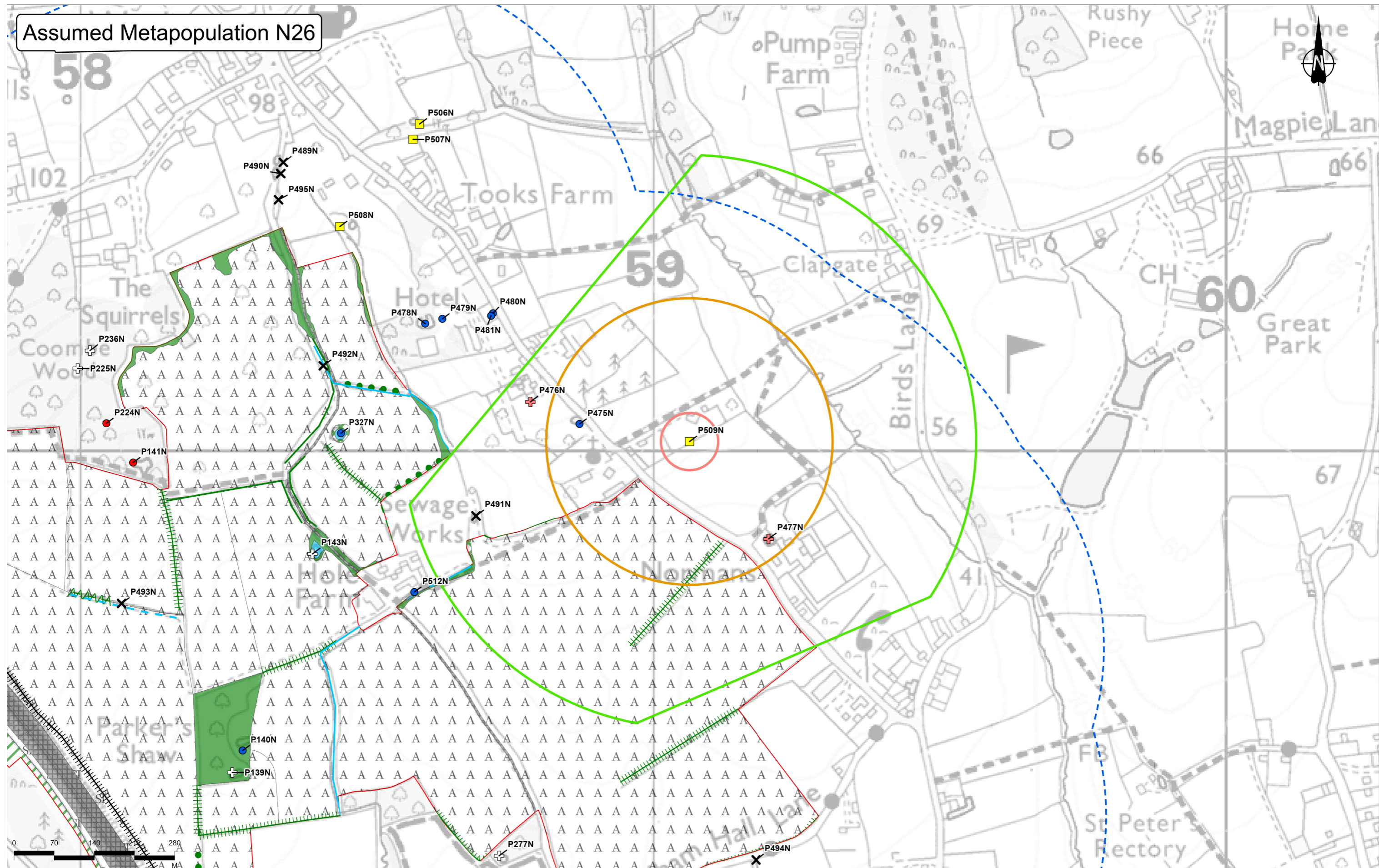
Project

**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P02
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Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60034				



# Assumed Metapopulation N26



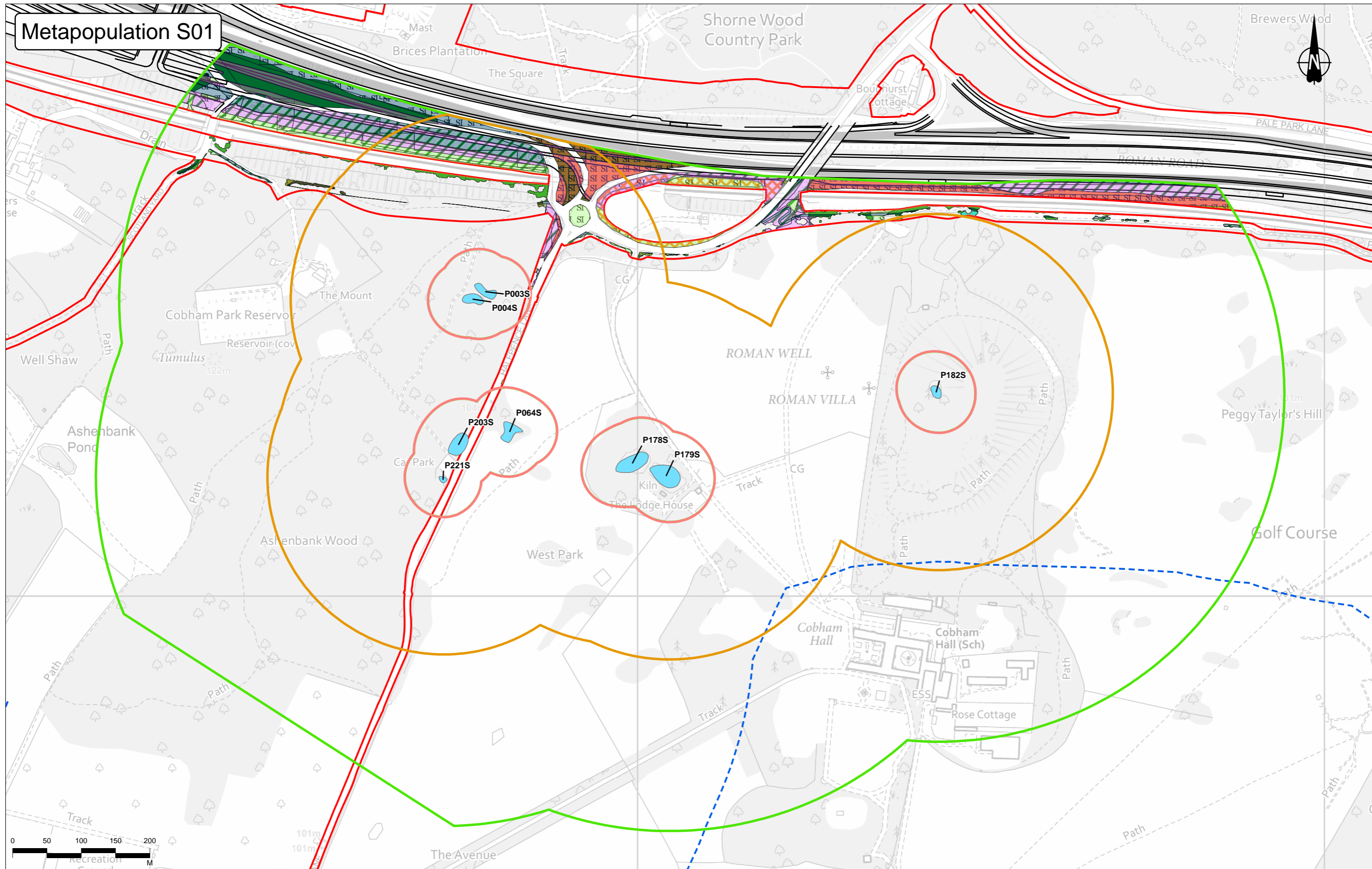
- Legend**
- Order Limits
  - GCN Survey Area
  - 50m pond buffer
  - 250m pond buffer
  - 500m pond buffer
  - Absent - Conventional (2018)
  - Absent - eDNA (2022)
  - + Dry
  - ✕ No pond
  - + Scoped out - unsuitable (2022)
  - Assumed present - No access

P02	S8	19/09/2022	DCO Application	CD	HT	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

 <b>national highways</b>	Client	Status	DCO APPLICATION	Original Size	A3	Revision	P02	
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LOWER THAMES CROSSING		Page 38 of 38						

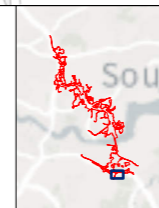


# Metapopulation S01



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	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Broad-leaved semi-natural woodland
Temporary habitat loss	Broad-leaved plantation woodland
Semi-improved neutral grassland	Dense/continuous scrub
Unimproved calcareous grassland	Continuous bracken
Semi-improved calcareous grassland	Tall ruderal
Poor semi-improved grassland	Standing water
Amenity grassland	Arable
Bare ground	Other habitat



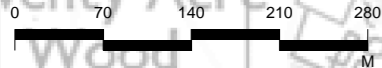
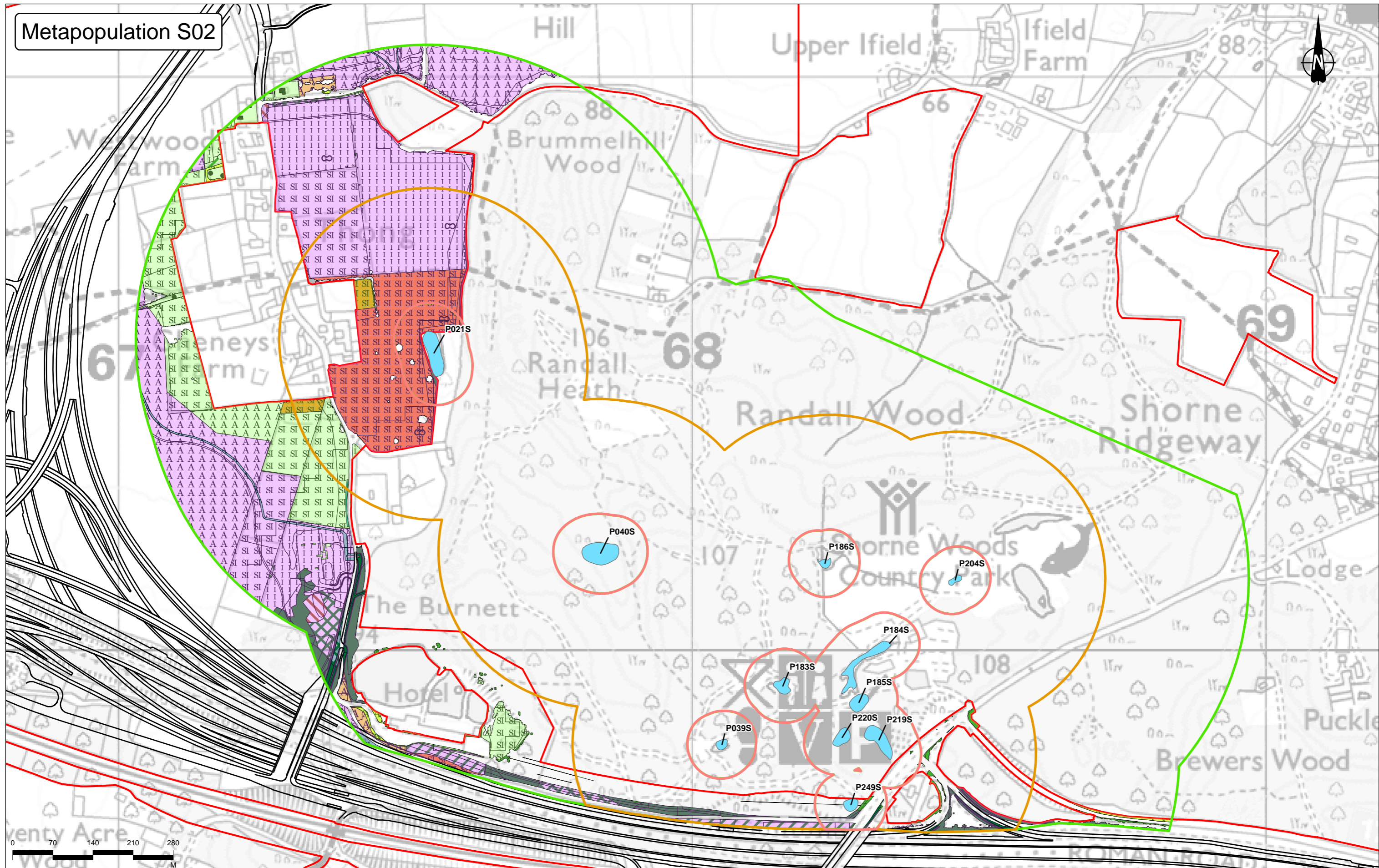
Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
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Page 1 of 38					
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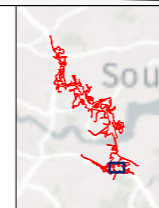
# Metapopulation S02



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
- Ponds
- Ponds
- Pond buffers
- 50m pond buffer
- 250m pond buffer
- 500m pond buffer
- Habitat Impact Category**
- Permanent habitat loss (landscaping)
- Permanent habitat loss (alignment)
- Temporary habitat loss
- Phase 1 Habitat
- Broad-leaved semi-natural woodland
- Broad-leaved plantation woodland
- Dense/continuous scrub
- Semi-improved neutral grassland
- Improved grassland
- Poor semi-improved grassland
- Tall ruderal
- Standing water
- Arable
- Amenity grassland
- Buildings
- Bare ground
- 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	1:6,000		
Drawing Title	Figure D - Impact Map Metapopulation S02				
Page 2 of 38					
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



Metapopulation S03



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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**

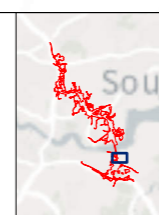
- Order Limits
- Route alignment
- GCN survey area
- Ponds
- Ponds

**Pond buffers**

- 50m pond buffer
- 250m pond buffer
- 500m pond buffer

**Habitat Impact Category**

- Permanent habitat loss (alignment)
- Temporary habitat loss
- Phase 1 Habitat
- Arable
- Permanent habitat loss (landscaping)

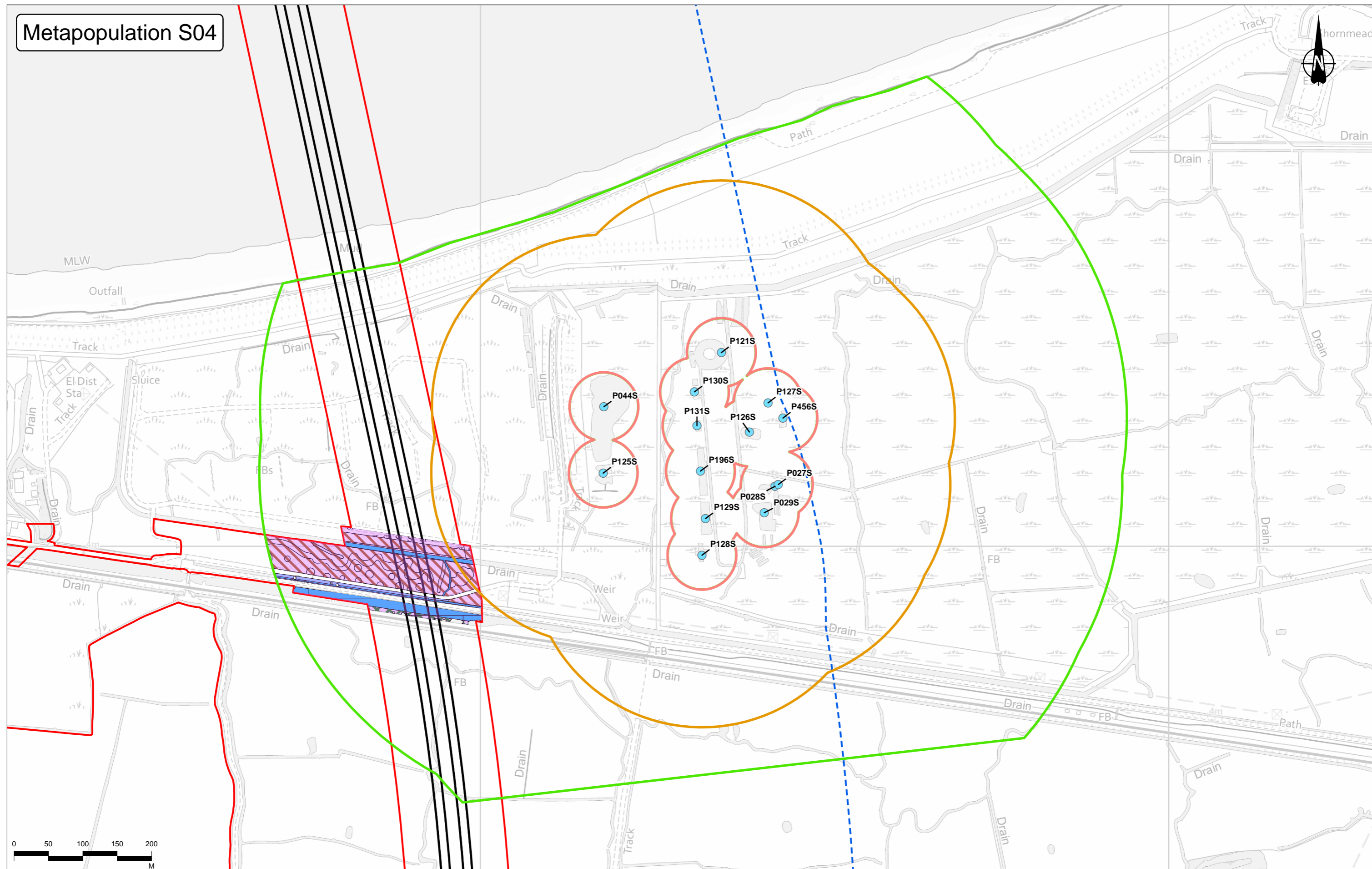


Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

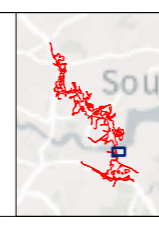
Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Metapopulation S03 Page 3 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

# Metapopulation S04



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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

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



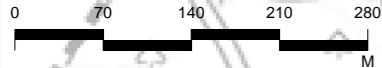
Client  
**national highways**

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 S04				
	Page 4 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



Assumed Metapopulation S05

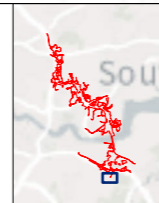


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

- |                 |                     |                                      |                                 |
|-----------------|---------------------|--------------------------------------|---------------------------------|
| Order Limits    | 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)   | Poor semi-improved grassland    |
| Ponds           | 250m pond buffer    | Temporary habitat loss               | Arable                          |
|                 | 500m pond buffer    |                                      | Other habitat                   |

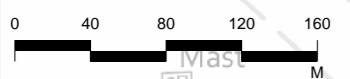
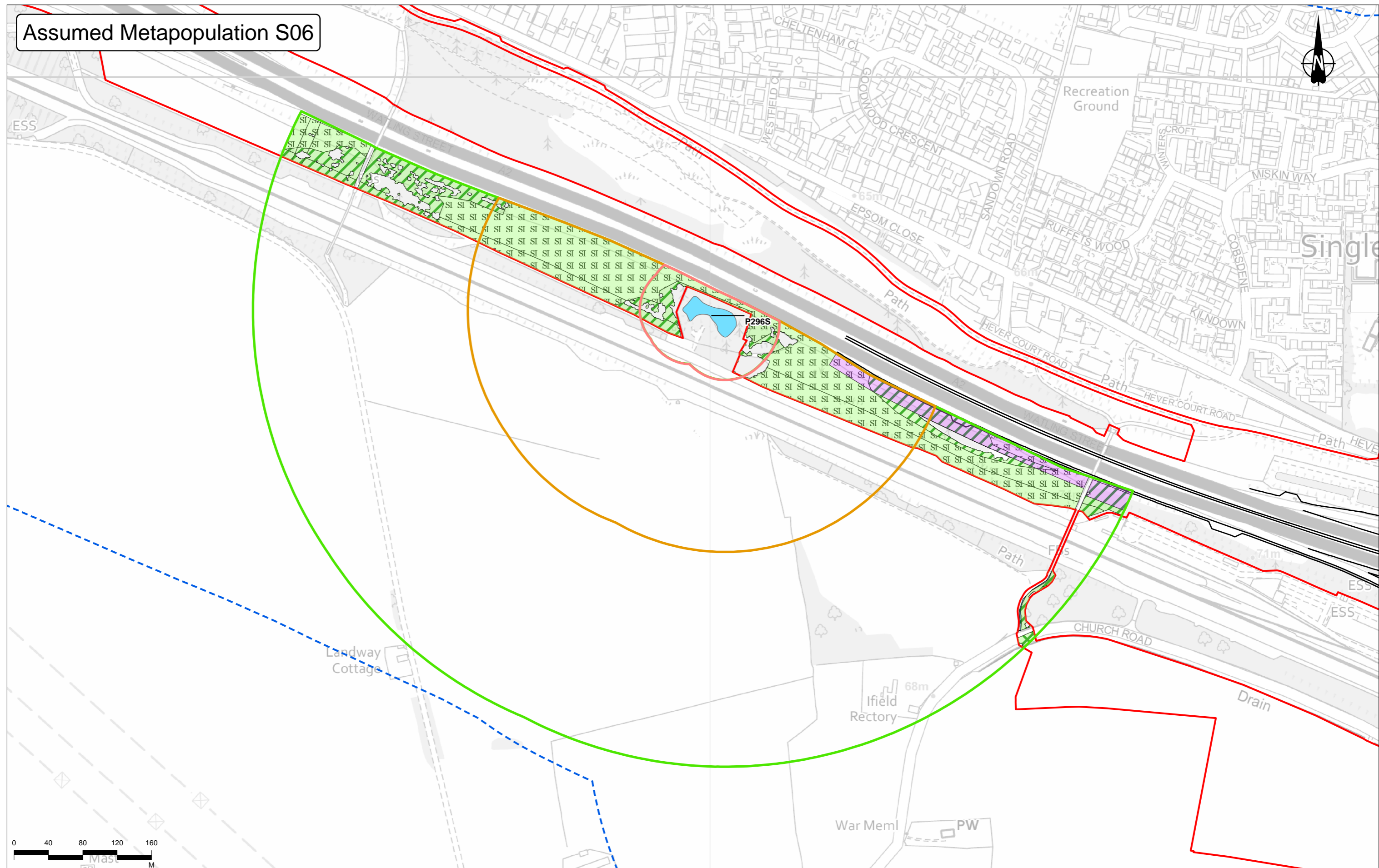


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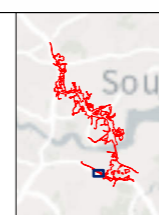
Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:6,000		
Drawing Title	Figure D - Impact Map Assumed Metapopulation S05 Page 5 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

# Assumed Metapopulation S06



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

Order Limits	Ponds	<b>Habitat Impact Category</b>	Broad-leaved plantation woodland
Route alignment	<b>Pond buffers</b>	Permanent habitat loss (landscaping)	Dense/continuous scrub
GCN survey area	50m pond buffer	Permanent habitat loss (alignment)	Poor semi-improved grassland
Ponds	250m pond buffer	Temporary habitat loss	Arable
	500m pond buffer		



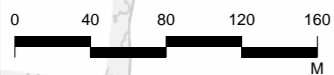
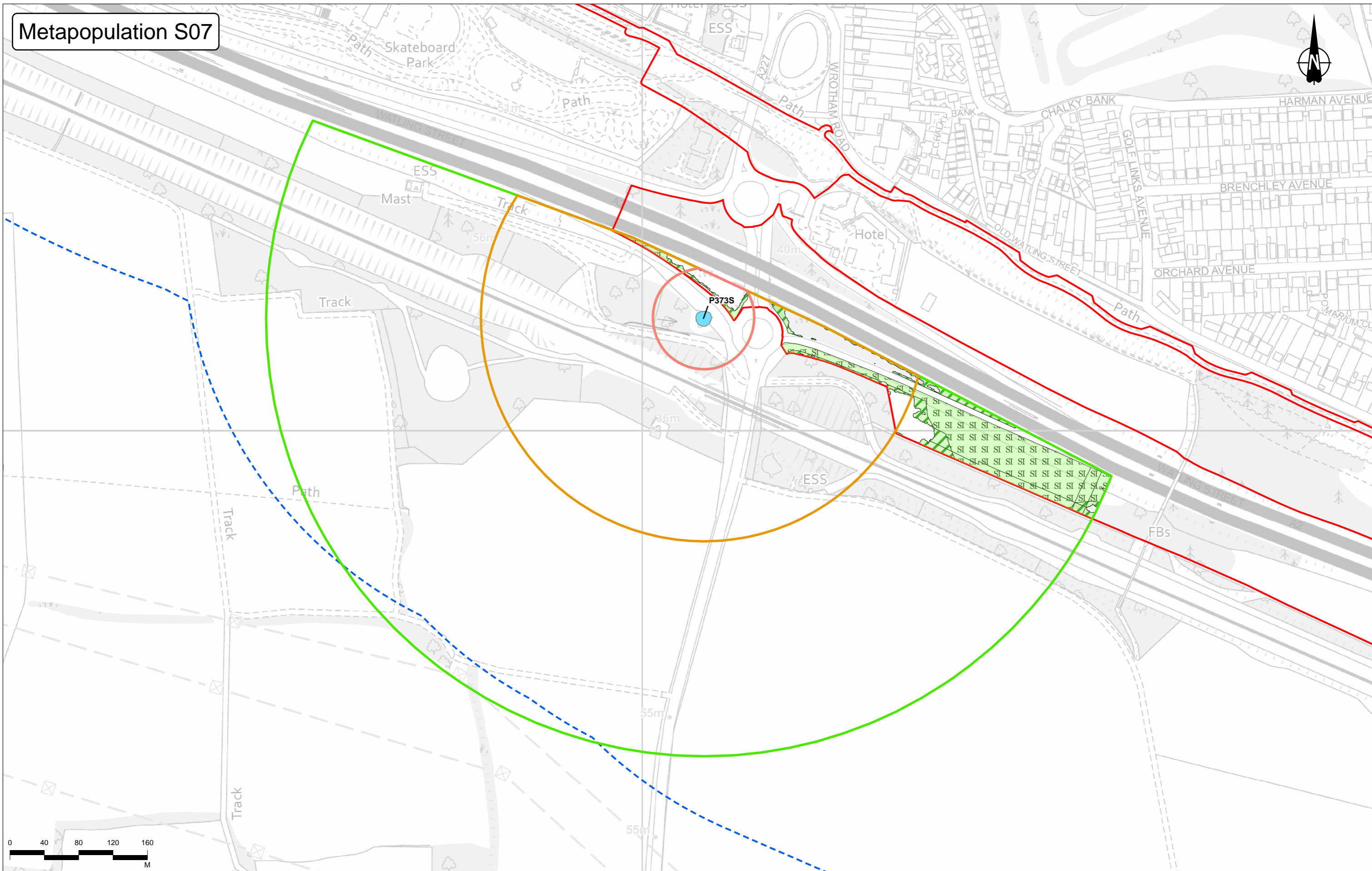
Client  
 national highways

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 D - Impact Map Assumed Metapopulation S06 Page 6 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



Metapopulation S07

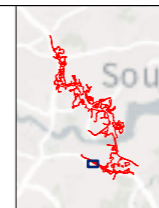


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprv'd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

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



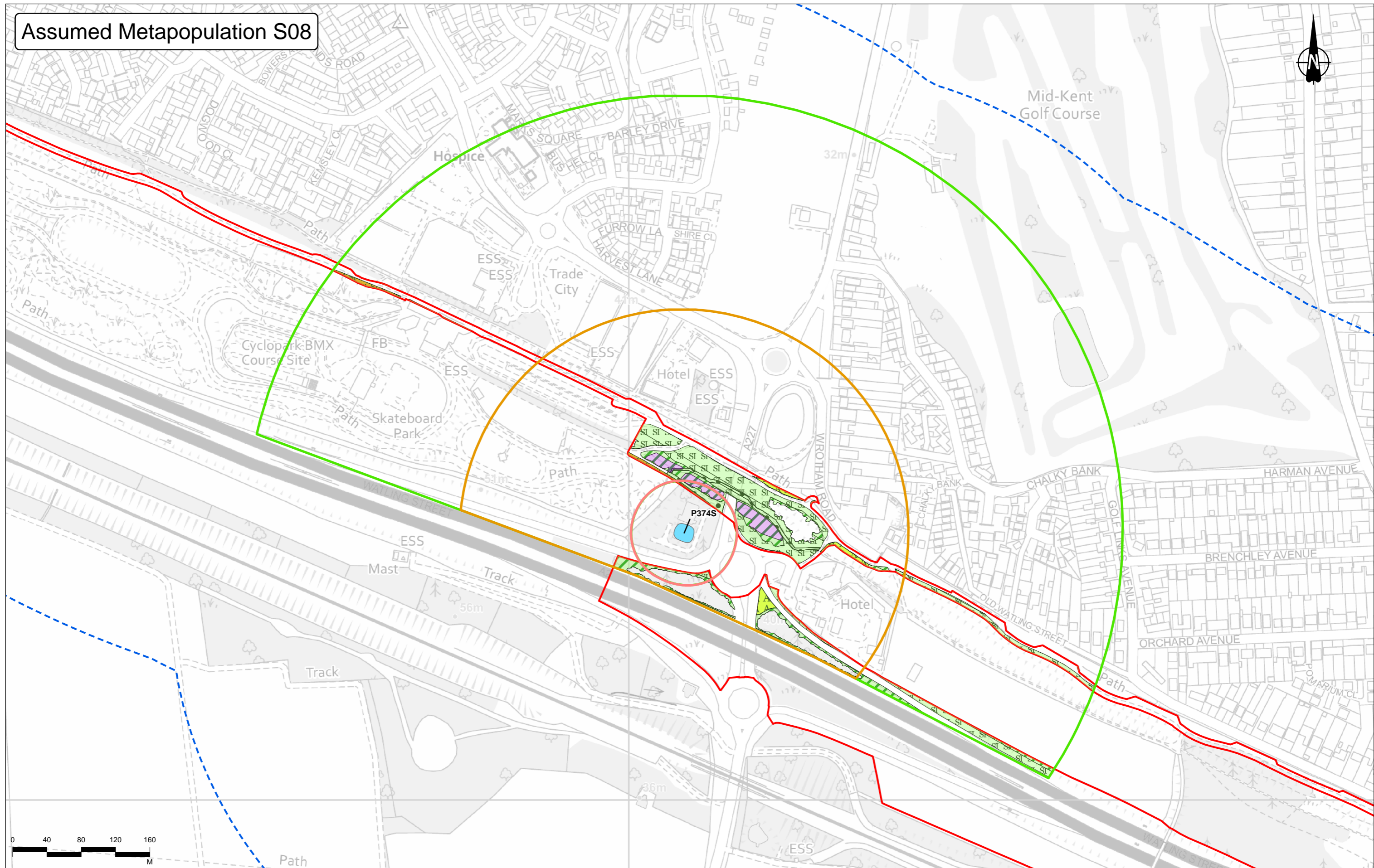
Client  
**national highways**

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 D - Impact Map Metapopulation S07 Page 7 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



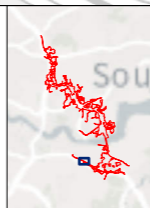
# Assumed Metapopulation S08



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Appvd
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	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Temporary habitat loss
Phase 1 Habitat	Broad-leaved plantation woodland
Semi-improved neutral grassland	Improved grassland
Poor semi-improved grassland	Buildings
Amenity grassland	Bare ground



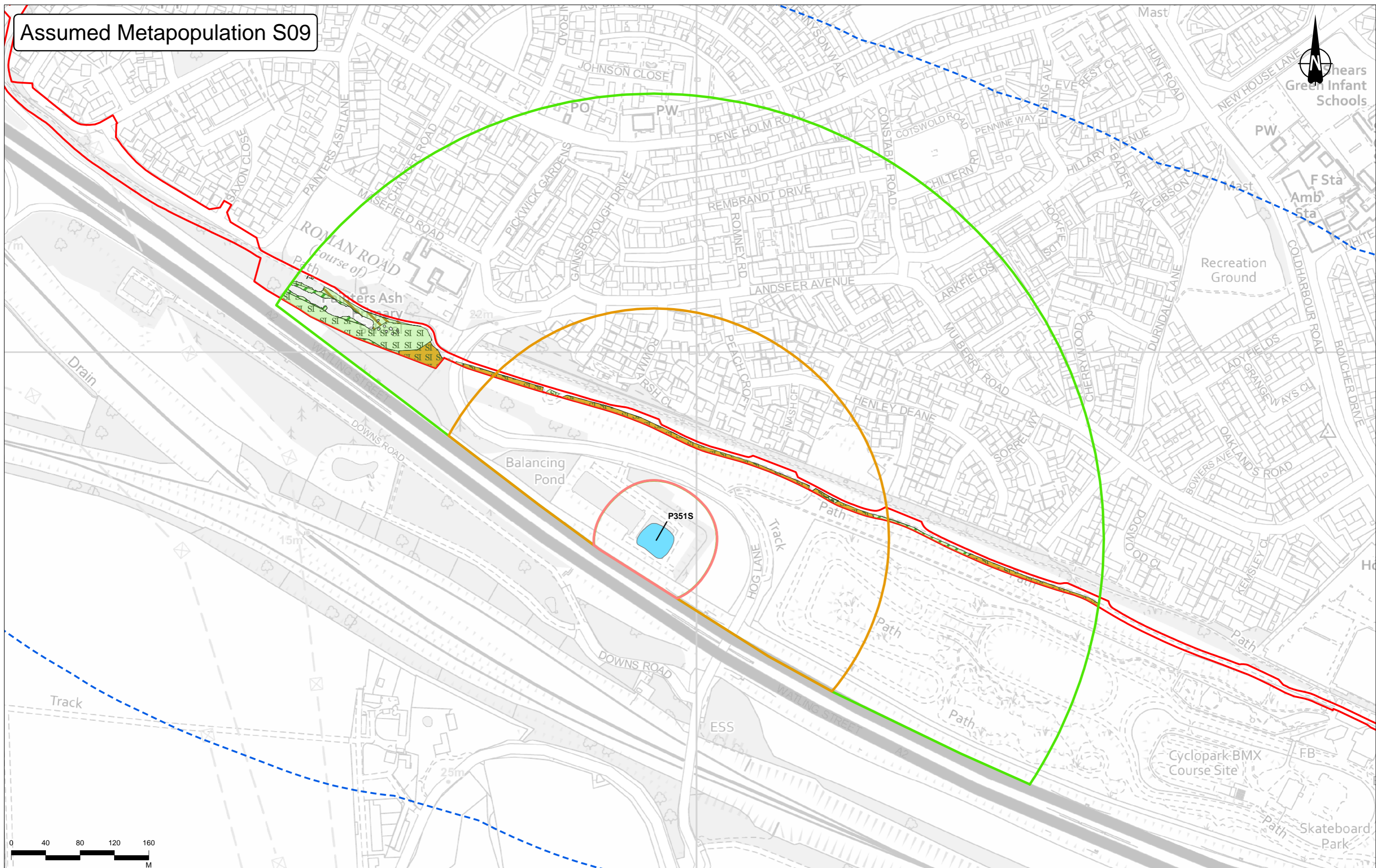
Client: national highways

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 D - Impact Map Assumed Metapopulation S08 Page 8 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



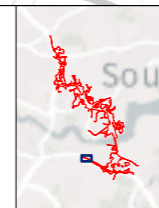
# Assumed Metapopulation S09



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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	
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)	Temporary habitat loss
Phase 1 Habitat	Broad-leaved plantation woodland
Semi-improved neutral grassland	Poor semi-improved grassland
Tall ruderal	Bare ground



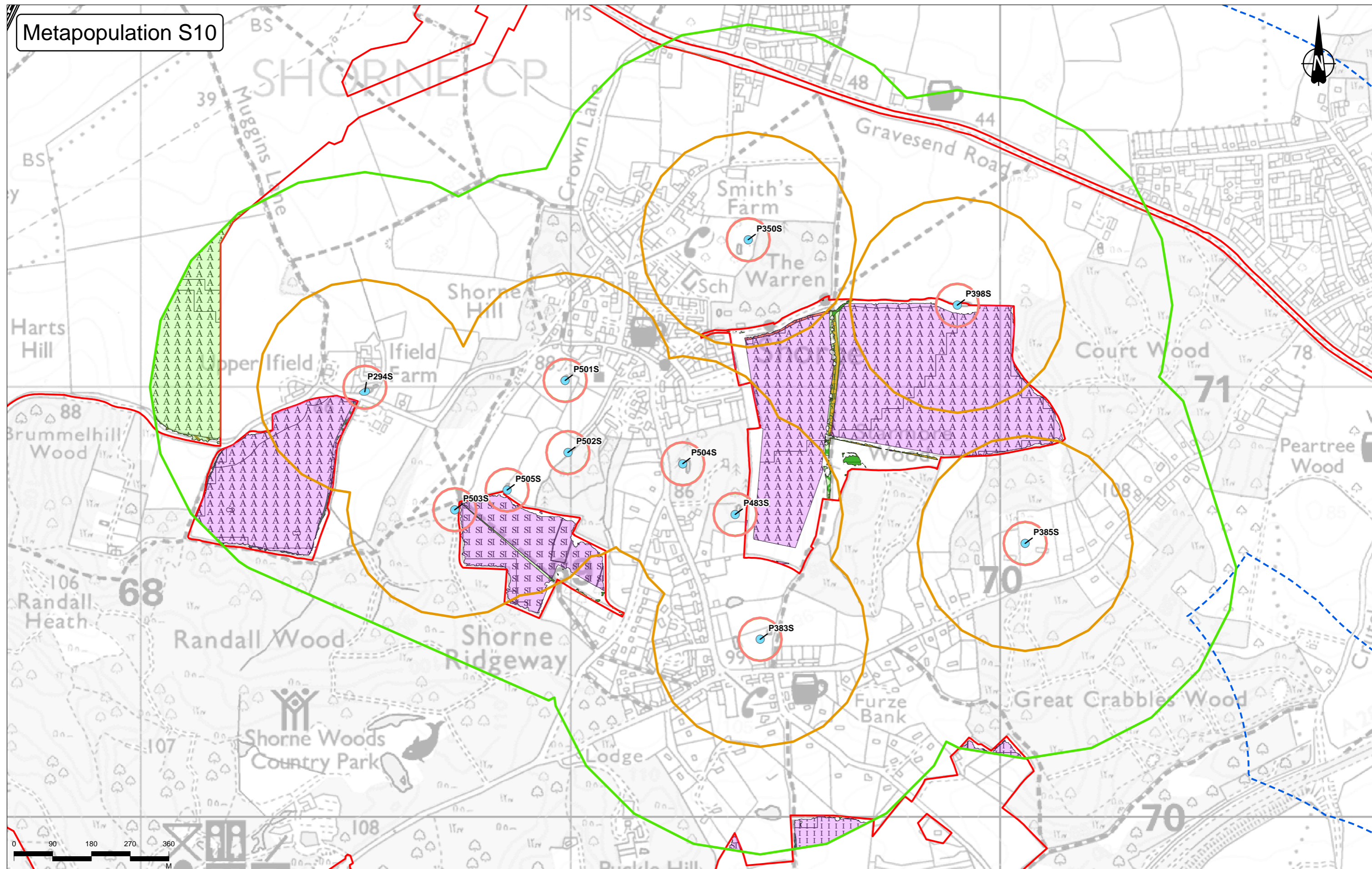
Client: **national highways**

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 D - Impact Map Assumed Metapopulation S09 Page 9 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



# Metapopulation S10

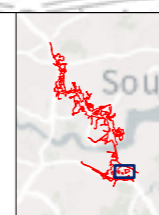


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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P03	S9	10/05/2023	Natural England comments	CD	SM	BF

**Legend**

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



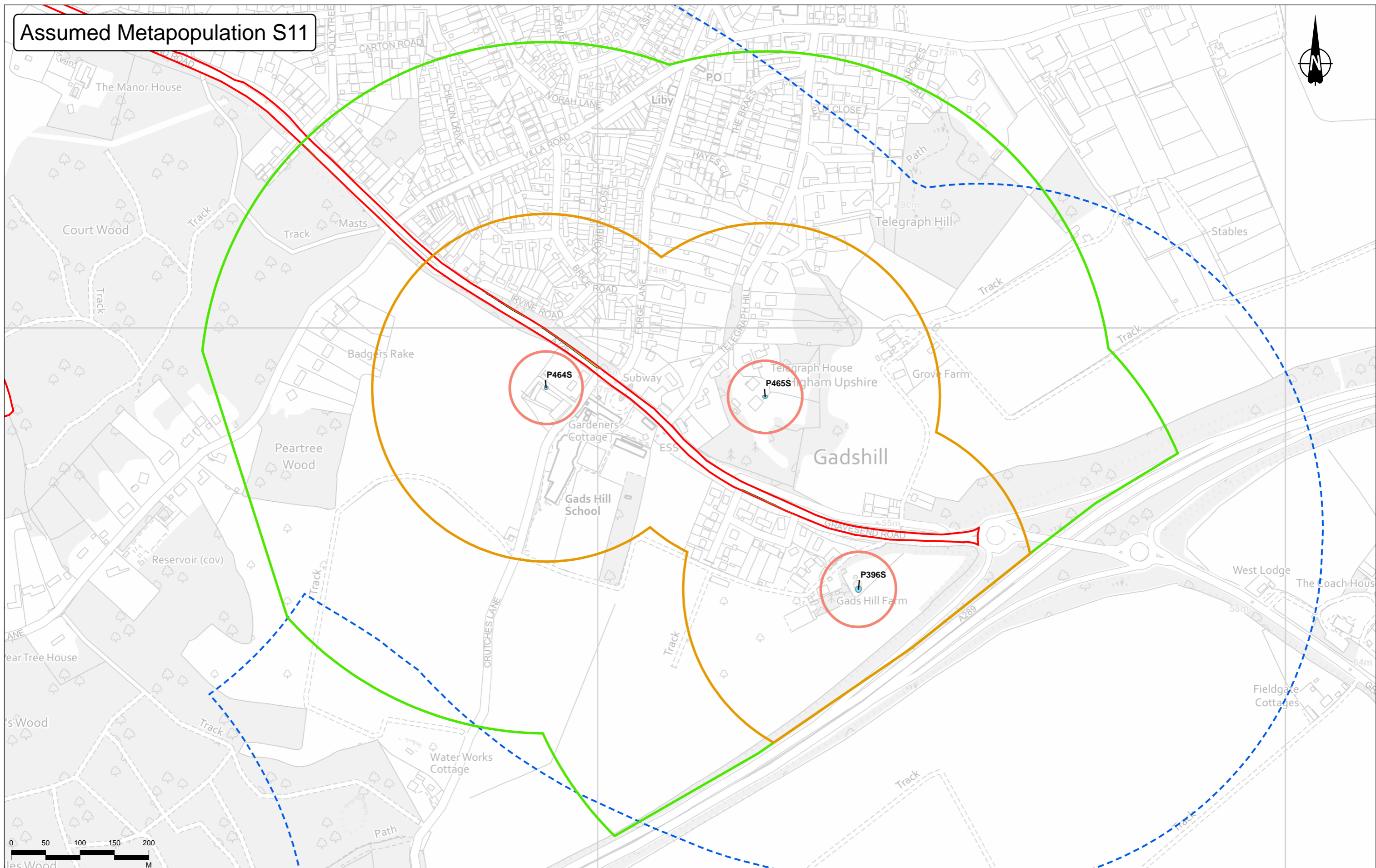
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:8,000		
Drawing Title	Figure D - Impact Map Metapopulation S10				
	Page 10 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



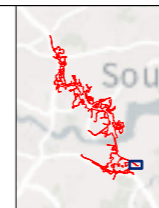
# Assumed Metapopulation S11



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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	Permanent habitat loss (alignment)
Broad-leaved plantation woodland	Temporary habitat loss
Improved grassland	Poor semi-improved grassland
Permanent habitat loss (landscaping)	Amenity grassland
	Introduced shrub



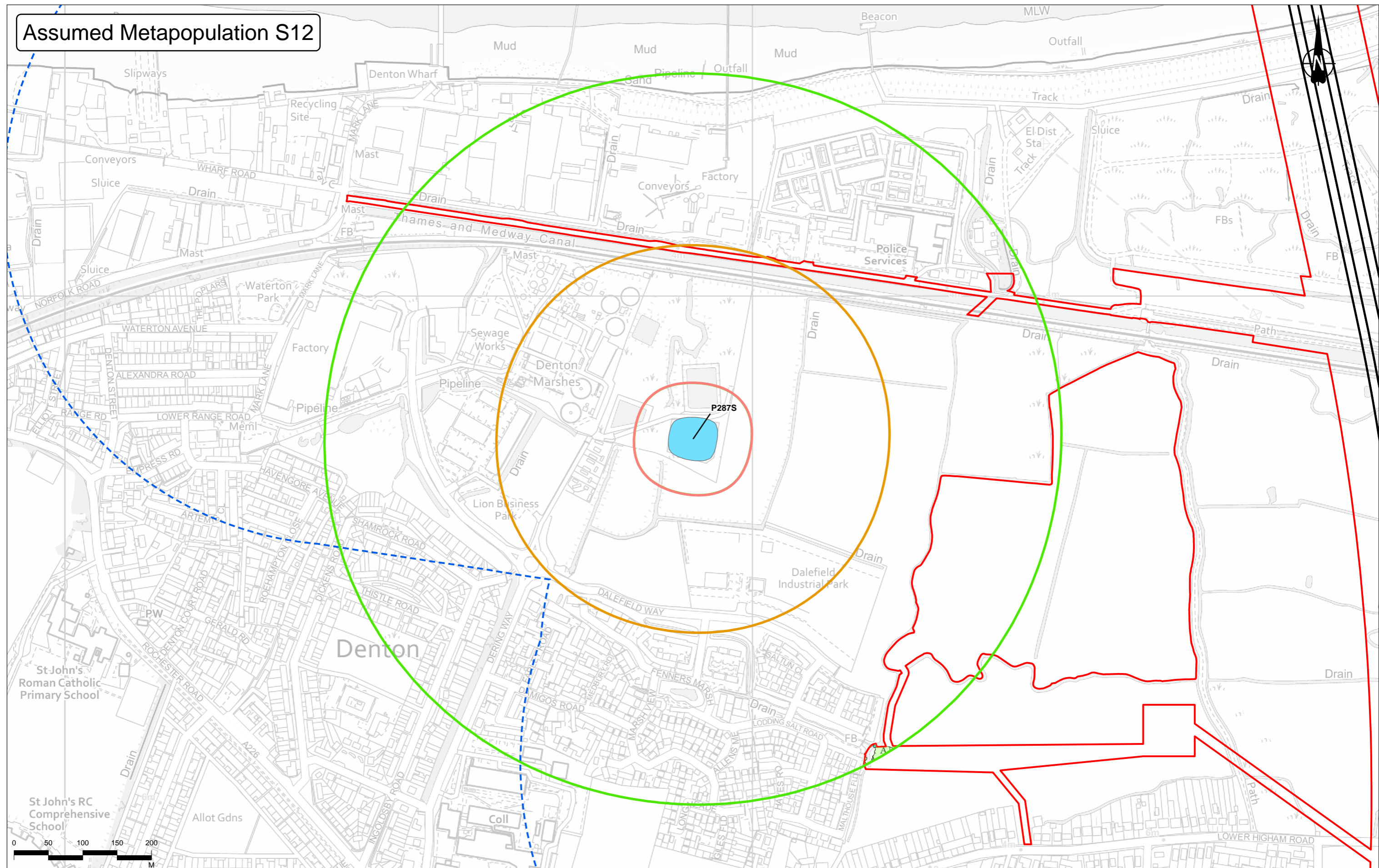
Client: **national highways**

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 S11				
	Page 11 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				



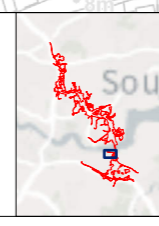
# Assumed Metapopulation S12



PO3	S9	10/05/2023	Natural England comments	CD	SM	BF
Rev	Status	Rev. Date	Purpose of revision	Drawn	Checked	Approved

**Legend**

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



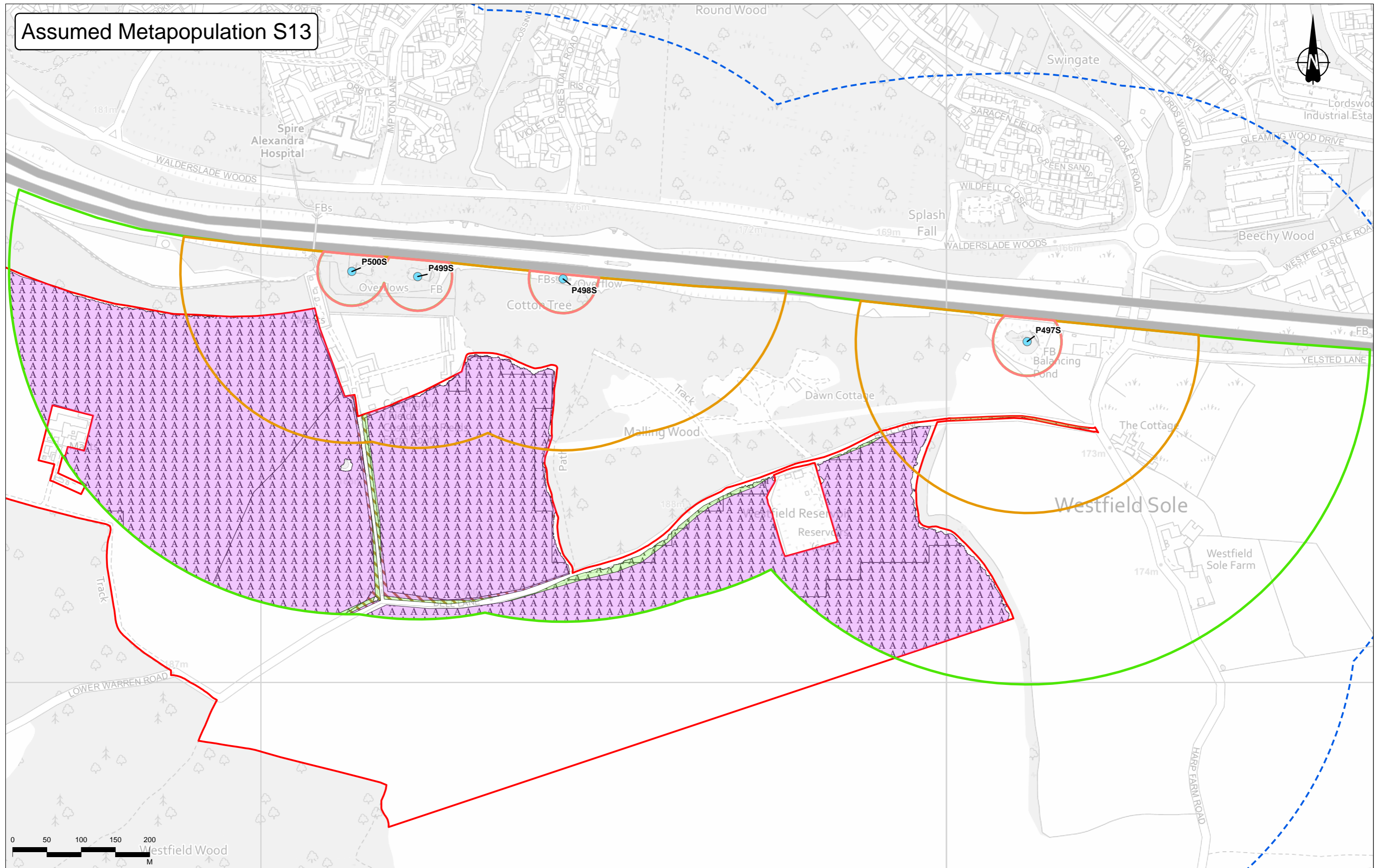
Client: national highways

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 Assumed Metapopulation S12				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				
Page 12 of 38					



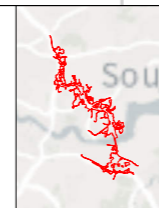
# Assumed Metapopulation S13



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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	Permanent habitat loss (landscaping)
Route alignment	Temporary habitat loss
GCN survey area	Phase 1 Habitat
Ponds	Broad-leaved semi-natural woodland
Ponds	Poor semi-improved grassland
50m pond buffer	Tall ruderal
250m pond buffer	Arable
500m pond buffer	Amenity grassland
Habitat Impact Category	Buildings
	Bare ground



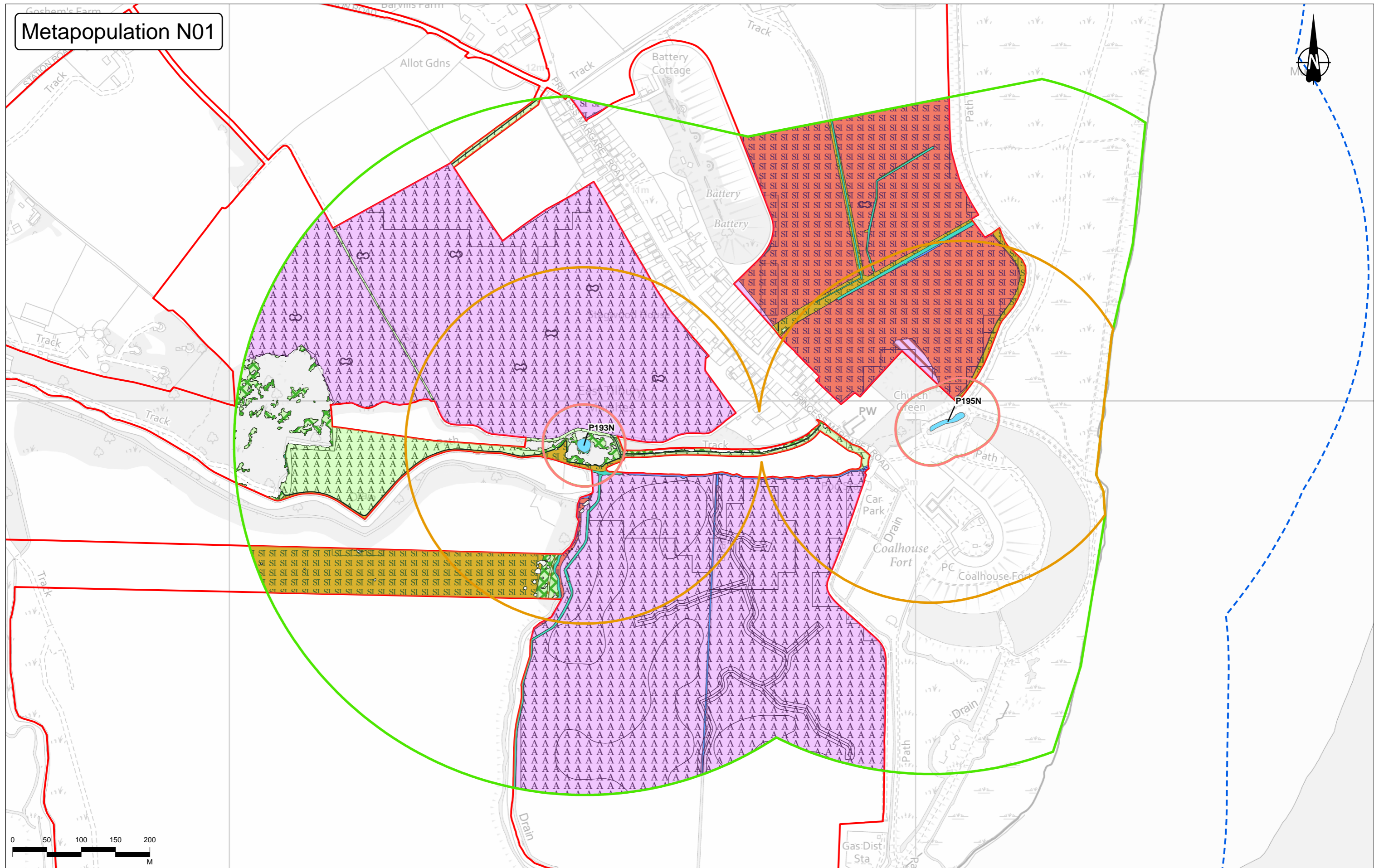
Client  
**national highways**

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 S13 Page 13 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE00000000-DR-LE-60026				

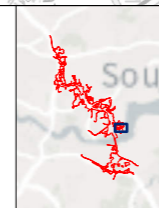


# Metapopulation N01



0	50	100	150	200
M				

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

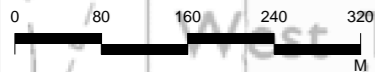
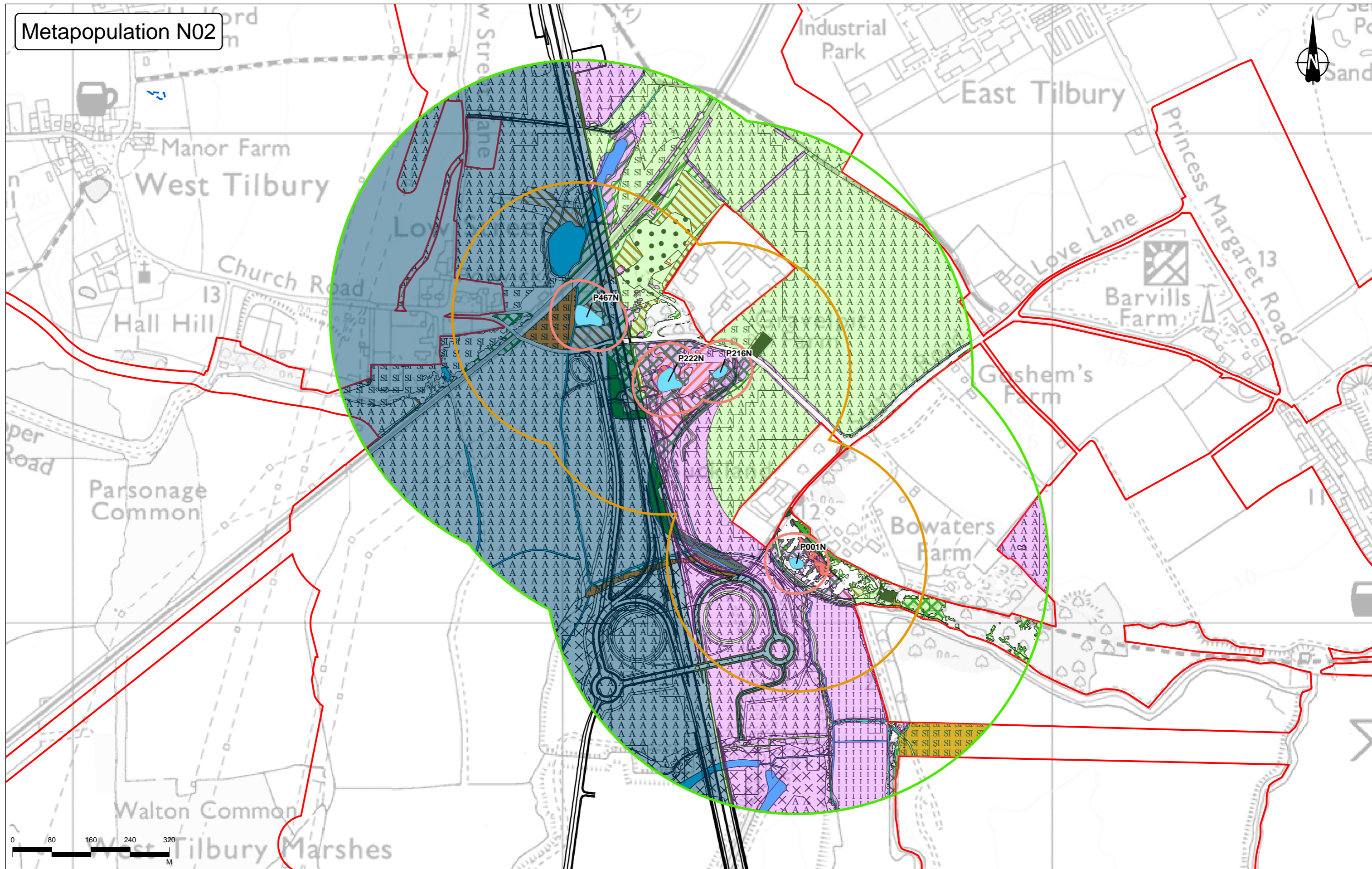


Client  
 national highways  
 Project  
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Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:5,000		
Drawing Title	Figure D - Impact Map Metapopulation N01				
	Page 14 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



# Metapopulation N02



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
- Route alignment
- GCN survey area
- Ponds
- Ponds
- 50m pond buffer

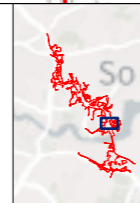
- 250m pond buffer
- 500m pond buffer
- Habitat Impact Category**
- Permanent habitat loss (landscaping)
- Permanent habitat loss (alignment)
- Temporary habitat loss

### Phase 1 Habitat

- Broad-leaved semi-natural woodland
- Broad-leaved plantation woodland
- Dense/continuous scrub
- Unimproved acid grassland
- Semi-improved neutral grassland
- Improved grassland

- Marsh/marshy grassland
- Poor semi-improved grassland
- Tall ruderal
- Standing water
- Running water
- Spoil
- Arable

- Amenity grassland
- Ephemeral/short perennial
- Buildings
- Bare ground
- Other habitat



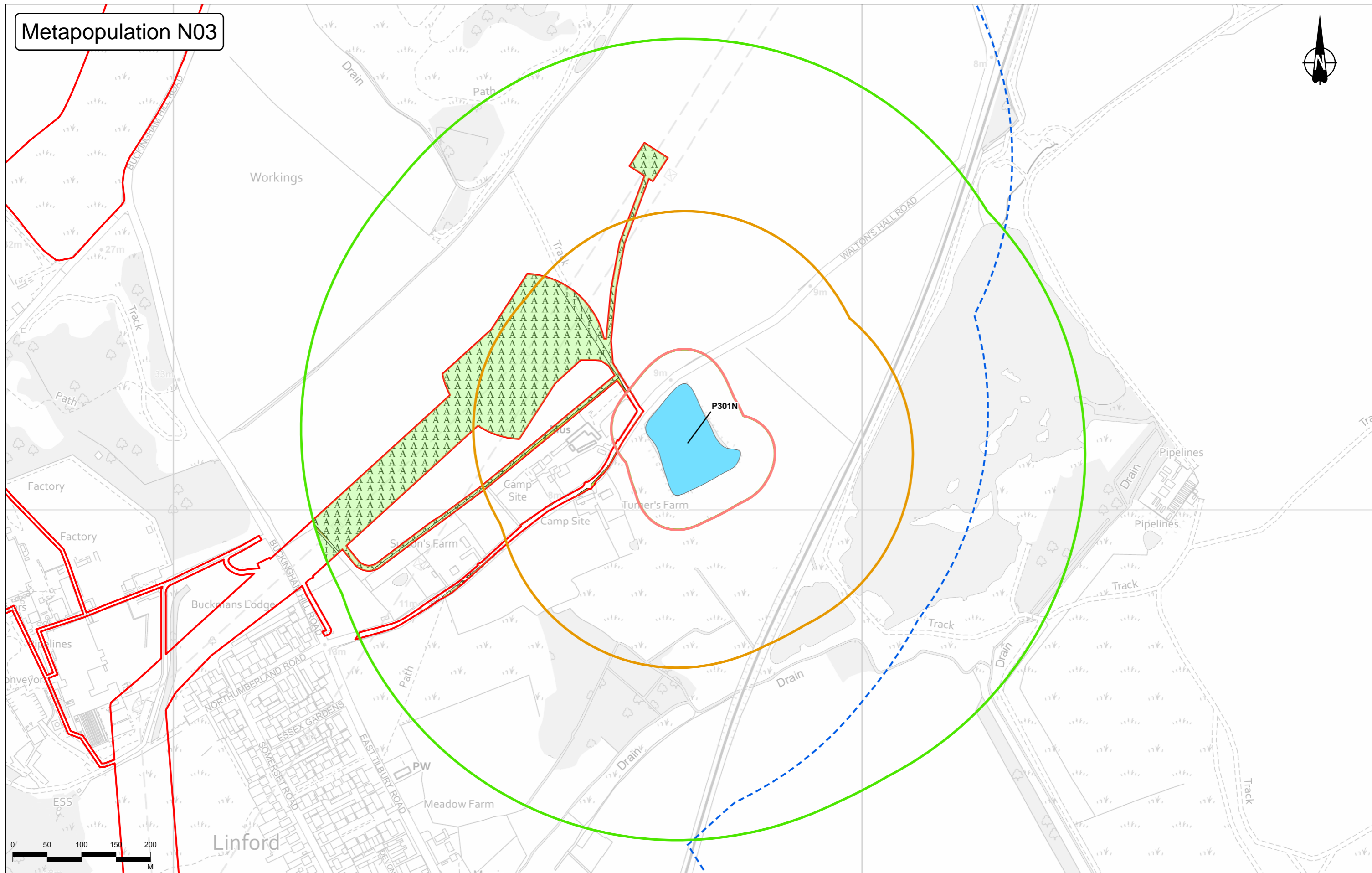
Client  
**national highways**

Project  
**LOWER THAMES CROSSING**

Status	DCO APPLICATION	Original Size	A3	Revision	P03
Application Document Number	TR010032/APP/6.3	Scale	1:7,000		
Drawing Title	Figure D - Impact Map Metapopulation N02				
	Page 15 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				



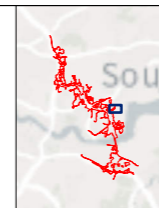
# Metapopulation N03



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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	Permanent habitat loss (landscaping)
Permanent habitat loss (alignment)	Broad-leaved plantation woodland
Temporary habitat loss	Dense/continuous scrub
Phase 1 Habitat	Semi-improved neutral grassland
Improved grassland	Standing water
Poor semi-improved grassland	Arable
Tall ruderal	Amenity grassland



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 N03 Page 16 of 38				
Drawing Number	HE540039-CJV-EBD-SZP_EGNE0000000-DR-LE-60026				

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