

Lower Thames Crossing
6.2 Environmental Statement
Figure 2.4 - Environmental
Masterplan Sections 1 and 1A
(1 of 10)
(Tracked changes version)

APFP Regulation 5(2)(a)

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

Volume 6

DATE: ~~September~~ **December** 2023
DEADLINE: ~~9~~

Deleted: September

Deleted: 4

Planning Inspectorate Scheme Ref: TR010032
Application Document Ref: TR010032/APP/6.2

VERSION: ~~3~~ **4.0**

Deleted: 3

Revision history

Version	Date	Submitted at
1.0	31 October 2022	DCO Application
2.0	3 August 2023	Deadline 2
3.0	19 September 2023	Deadline 4
4.0	11 December 2023	Deadline 9

Lower Thames Crossing
6.2 Environmental Statement
Figure 2.4 - Environmental Masterplan Sections 1 and
1A
(1 of 10)
(Tracked changes version)

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1 Environmental Masterplan: Sections 1 and 1A

1.1 Schedule of Plans included in this application document

1.2 Section 1 (Sheets 1-8)

Drawing Number and Title	Application Document Ref	Revision
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00001 – Section 1 Overview	TR010032/APP/6.2	P0 3
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00002 - Section 1 Sheet 1	TR010032/APP/6.2	P0 3
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00003 - Section 1 Sheet 2	TR010032/APP/6.2	P0 3
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00004 - Section 1 Sheet 3	TR010032/APP/6.2	P0 3
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00005 - Section 1 Sheet 4	TR010032/APP/6.2	P0 2
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00006 - Section 1 Sheet 5	TR010032/APP/6.2	P0 2
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00007 - Section 1 Sheet 6	TR010032/APP/6.2	P0 2
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00009 - Section 1 Sheet 8	TR010032/APP/6.2	P0 2

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1.3 Section 1A (Sheets 1-3)

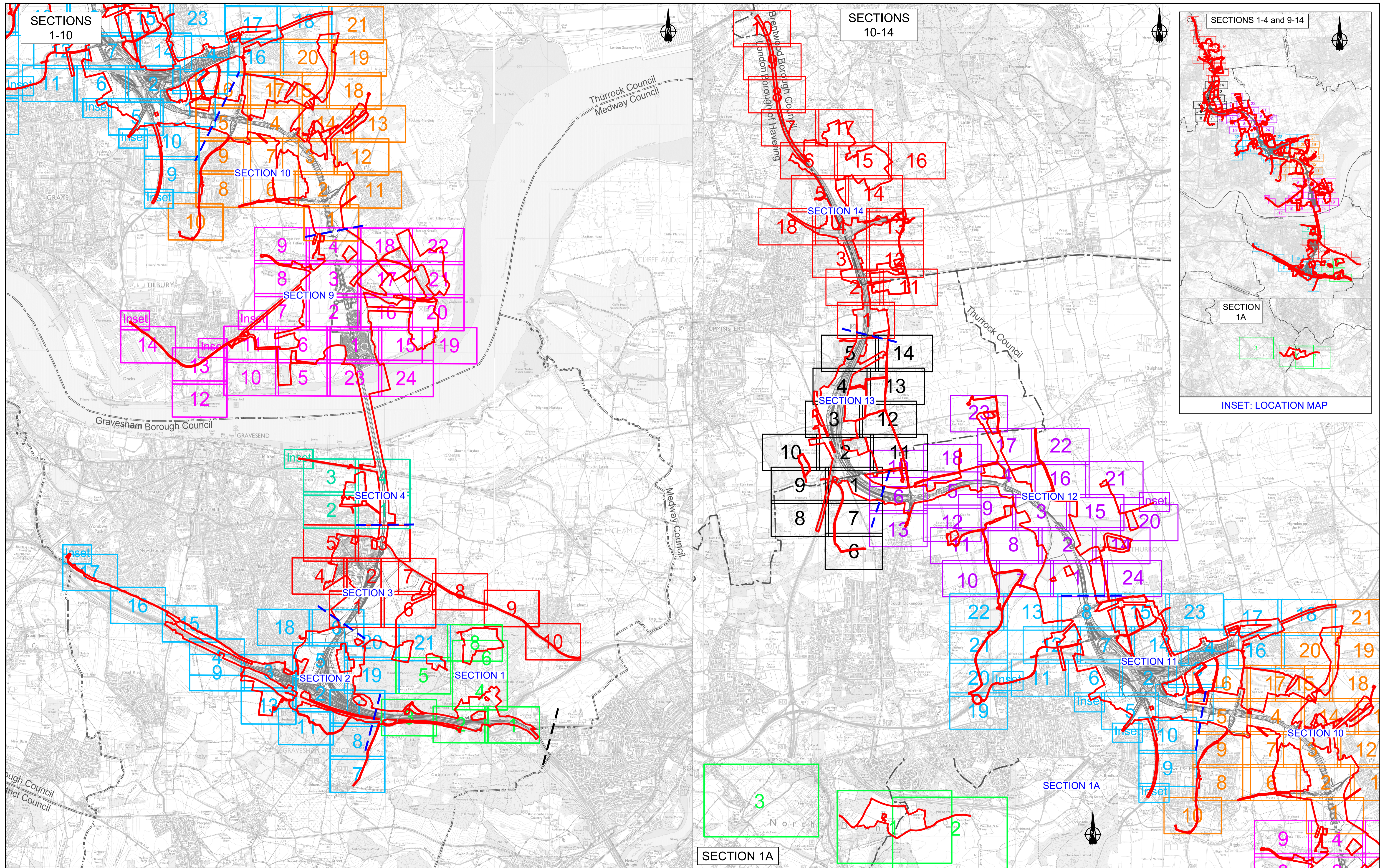
Drawing Number and Title	Application Document Ref	Revision
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-50000 - Section 1A Sheet <u>1</u>	TR010032/APP/6.2	P0 3
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-50001 - Section 1A Sheet <u>2</u>	TR010032/APP/6.2	P0 3
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-50002 - Section 1A Sheet <u>3</u>	TR010032/APP/6.2	P0 3

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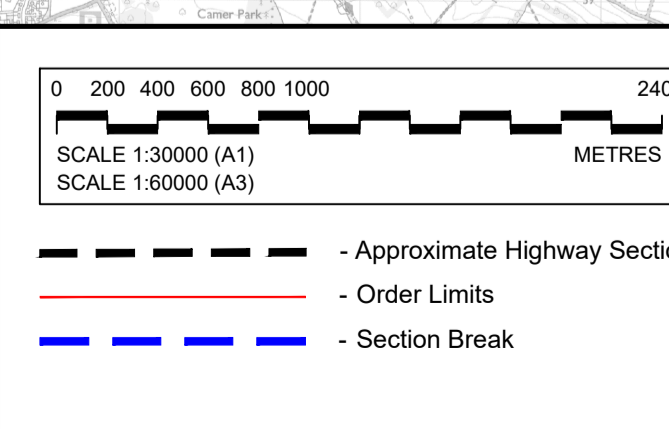
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1.4 Scheme Overview



Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Appr'd
P01	S2	27/10/2022		LD		
P02	S8	19/09/2023	DEADLINE 4	LD	RO	BF
P03	S8	17/11/2023	DEADLINE 7	GH1	RO	BF
P04	S8	11/12/2023	DEADLINE 9	GH1	RO	BF



Section Layout Key:	
1	Section S1 (Sheets 1 - 8)
1	Section S2 (Sheets 1 - 21)
1	Section S3 (Sheets 1 - 10)
1	Section S4 (Sheets 1 - 4)
1	Section S5 to S8: Project route in tunnel, therefore no Environmental Masterplan coverage
1	Section S9 (Sheets 1 - 24)
1	Section S10 (Sheets 1 - 21)
1	Section S11 (Sheets 1 - 22)
1	Section S12 (Sheets 1 - 24)
1	Section S13 (Sheets 1 - 14)
1	Section S14 (Sheets 1 - 18)

NOTE: Development of the Project design has resulted in the removal of some sheets forming part of the Environmental Masterplan, where acquisition of land for the Project is no longer required. In this instance, the original sheet numbering has been retained and therefore the sheet numbering shown on this Scheme Overview plan is not always consecutive.

For information, the following sheets have been omitted:

Section 1

- Sheet 7 (HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00008)

Section 2

- Sheet 10 (HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00011)
- Sheet 12 (HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00013)
- Sheet 14 (HE540039-CJV-EGN-S02_EN000000_Z-DR-ZZ-00015)

Client

Project

LOWER THAMES CROSSING

Status	DCO Examination	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P04
Drawing title	ENVIRONMENTAL MASTERPLAN SCHEME OVERVIEW		
Drawing Number	HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00002		
Scale	AS SHOWN		

1.5 Environmental Masterplan Legend

EXISTING FEATURES

General Features

- Existing WCH Route
- Overhead Power Lines

Environmental Features

- Retained Woodland, Trees and Hedges (within Order Limits)
- Retained Woodland, Trees and Hedges (outside Order Limits)
- Waterbodies / Ponds
- Watercourses
- Tree Preservation Orders Area
- Individual Tree Preservation Orders
- Veteran Tree

PROPOSED PROJECT FEATURES

- Order Limits
- Permanent Acquisition of Land

General Project Features

- Existing Overhead Power Lines to be Removed
- Indicative Diverted and Modified Overhead Power Lines
- Proposed / Improved WCH Route
- Diverted / Redesignated WCH Route
- Proposed Carriageway
- Proposed Retaining Wall
- Proposed Cutting
- Proposed Embankment
- Proposed False Cutting Earthwork (up to 4m height above carriageway level typically at 1(v) 4(h) gradient)
- Proposed Watercourse Diversion
- Proposed Attenuation Ponds
- Proposed Highway Estate Boundary Fencing
- Reinstated HS1 'Meshed' Fencing
- Proposed Security Fencing (incorporating highway boundary fence)
- Proposed Fencing Gates
- Proposed Tunnel Portal Building Outline (sub-surface)
- Proposed Highway Lighting and Gantry
- Proposed Green Bridge
- Proposed Traveller Site Replacement

General Project Features cont.

- Proposed Replacement Open Space
- Proposed Replacement Common Land
- Proposed Recreational Sites

PROPOSED LANDSCAPE ELEMENTS

Grassland (LE 1)

- LE 1.3 Species Rich Grassland
- LE 1.31 Species Rich Chalk Grassland
- LE 1.32 Species Rich Annual Wildflower Grassland
- LE 1.4 Rock and Scree

Planting (LE 2)

- LE 2.1 Woodland
- LE 2.11 Woodland With Non-Native Species
- LE 2.14 Wet / Carr Woodland
- LE 2.2 Woodland Edge
- LE 2.22 Scrub Woodland
- LE 2.4 Linear Belt of Shrubs and Trees
- LE 2.5 Shrubs With Intermittent Trees
- LE 2.7 Scattered Trees
- LE 2.8 Scrub / Scattered Scrub

Hedges (LE 4)

- LE 4.3 Native Species Hedge (untrimmed)
- LE 4.4 Native Hedgerow With Trees

Individual Trees (LE 5)

- LE 5.1 Individual Trees

Wetland Habitats (LE 6)

- LE 6.11 Water Bodies – Standing Water
- LE 6.12 Water Bodies and Associated Plants – Shallow Scrape Habitat
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland

General Project Features cont.

- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh
- LE 7.2 Green Roof
- LE 7.3 Car Park
- LE 7.4 Reinforced Earth Bund

Ecological Habitats (LE 8)

- LE 8.1 Open Mosaic Habitat
- LE 8.2 Ancient Woodland Compensation Planting
- LE 8.3 Woodland Mitigation Planting
- LE 8.4 Wetland / Fenland Creation
- LE 8.5 Ecology Pond (Indicative symbol only)
- LE 8.6 Acid Grassland Soil Salvage
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

Earthworks

- Proposed Contours

PROPOSED ENVIRONMENTAL ELEMENTS

Noise (E 1)

- E 1.2 Acoustic Barrier-Built Elements (typically incorporating highway boundary fence)

Water (E 2)

- Flood Compensation Areas (E2-FCA)
- Flood Defence (E2-FD)

Ecological (E 3)

- E 3.2 Ecological Habitat Creation and Receptor Sites for Protected Species
- E 3.2 Ecological Protection Measures – Dormouse Boxes
- E 3.2 Ecological Protection Measures – Bat / Bird Boxes
- E 3.2 Ecological Protection Measures – Ecological Culvert
- E 3.2 Ecological Protection Measures – Bat Barn Block
- E 3.2 Ecological Protection Measures – Ecological Fencing (incorporating highway boundary fence)

NOTES:

Land Reinstatement

The Environmental Masterplan is intended to show the permanent landscaping and environmental mitigation features that are embedded in the operational design. Land temporarily impacted by construction would be reinstated to its former condition and composition upon completion, as far as reasonably practicable and as provided for in DCO Article 35, unless otherwise shown in the Environmental Masterplan.

WCH Terminology and Route Information

The term 'WCH Routes' (which includes Public Rights of Way) refers to routes for walkers, cyclists and horse riders and is used in the broad sense within the Environmental Masterplan to refer to routes intended for at least one (but not necessarily more than one) of those users. For further information, please refer to the Rights of Way and Access Plans (Application Document 2.7) and the draft Development Consent Order (Application Document 3.1).

Veteran Trees

Veteran trees shown on the Environmental Masterplan include those identified in the Ancient Tree Inventory and project-identified potential ancient or veteran trees.

Outline Landscape and Ecological Management Plan

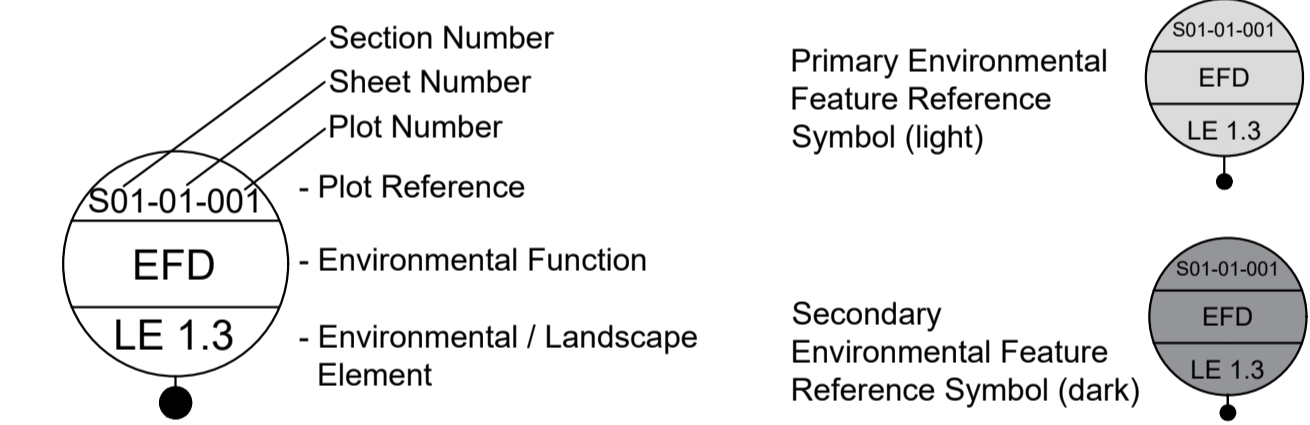
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed within the outline LEMP. The outline LEMP details the management regimes, management expectations and monitoring requirements for the proposals in each land parcel shown on the Environmental Masterplan. It focuses on the management requirements for land parcels to be permanently acquired within the Order Limits and which perform specific landscape and ecological mitigation functions for the Project. For further detail regarding management requirements and principles, please refer to the outline LEMP (Application Document 6.7).

Existing WCH Routes

Existing WCH route information is based on Local Authority data. For further details, please refer to the relevant Local Authority Definitive Public Right of Way Map and Statement.

Environmental Feature Reference Symbol

An Environmental Feature Reference Symbol is provided for each environmental / landscape element. This contains a Plot Reference, the Environmental Function and the specific Landscape / Environmental Element. The Plot Reference is unique to each element labelled, and comprises the Section number, Sheet number and unique Plot number. Additional Environmental Feature Reference Symbols have been attributed to elements which span more than one page. The differences between the initial (Primary) Environmental Feature Reference Symbol and any additional (Secondary) versions are shown below.



Environmental Functions (EF)

- EFA Visual Screening
- EFB Landscape Integration
- EFC Enhancing the Built Environment
- EFD Nature Conservation and Biodiversity
- EFE Visual Amenity
- EFF Heritage
- EFG Auditory Amenity
- EFH Water Quality
- EFJ Agricultural / Highway Boundary
- EFK Access

Project Design Report

For further detail on the Landscape Design and Special Category Land shown within these plans, as well as the associated background and approach, please refer to the Project Design Report, Volume 2 Book of Plans, and Design Principles document (Application Documents 7.4, 6.2 and 7.5 respectively).

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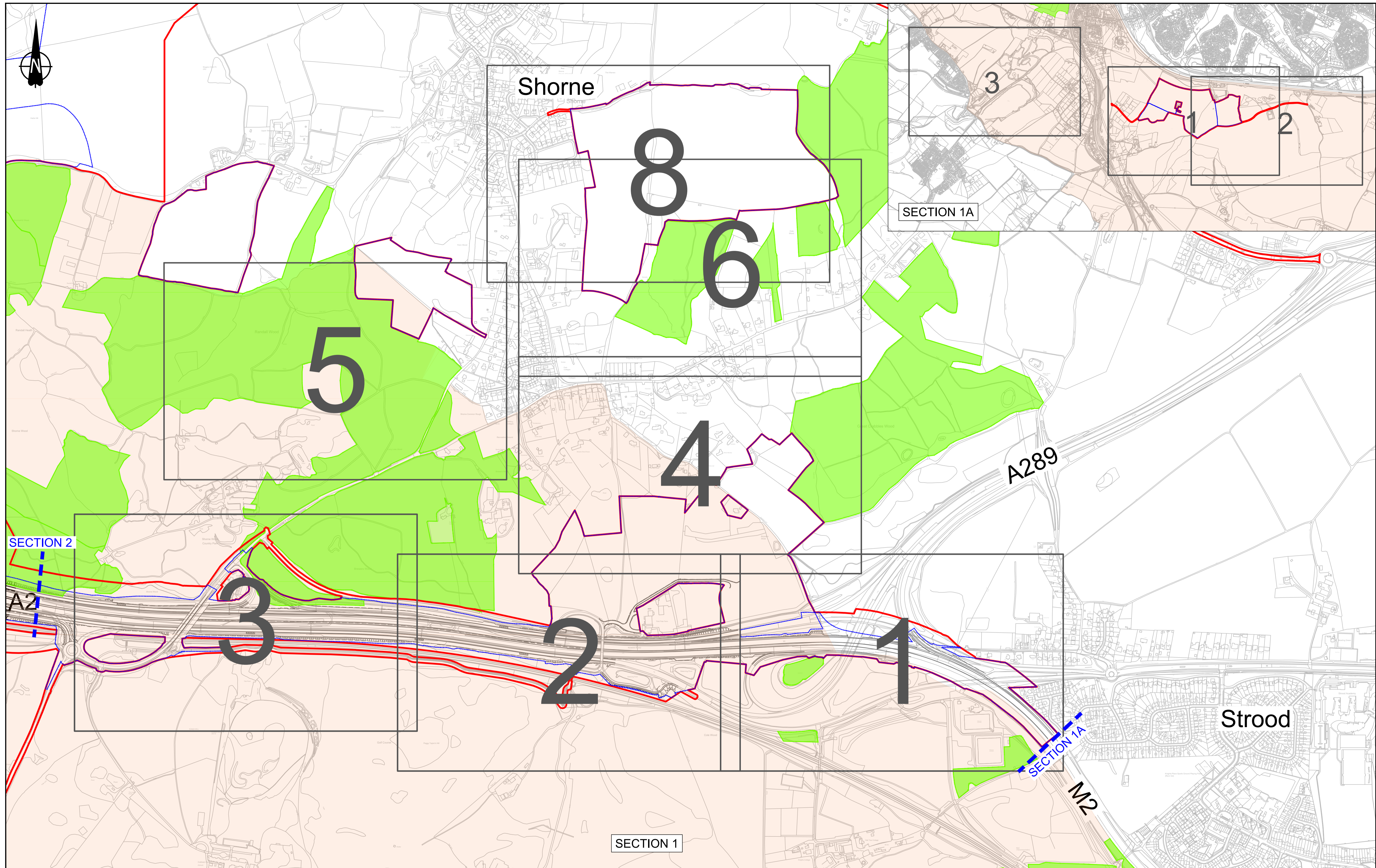
P01	S2	27/10/2022	LD
P02	S8	11/12/2023	Deadline 9 GH1 RO BF
Rev	Status	Rev. Date	Purpose of revision
			Drawn
			Check'd
			Apprv'd

Client:

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	AS SHOWN		
Drawing title	ENVIRONMENTAL MASTERPLAN LEGEND				
Drawing Number	HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001				

1.6 Section 1



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SCALE 1:10000 (A3)
METRES

P01	S2	25/10/2022	DCO Application	LD		
P02	S8	03/08/2023	Deadline 2	GH1 RO BF		
P03	S8	11/12/2023	Deadline 9	GH1 RO BF		
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Notes:
 1. The sheets presented cover the full extent of the Order Limits. The sheet numbering for section 1 is not sequential due to alteration to the Order Limits prior to submissions resulting in page 7 being removed in the submission set

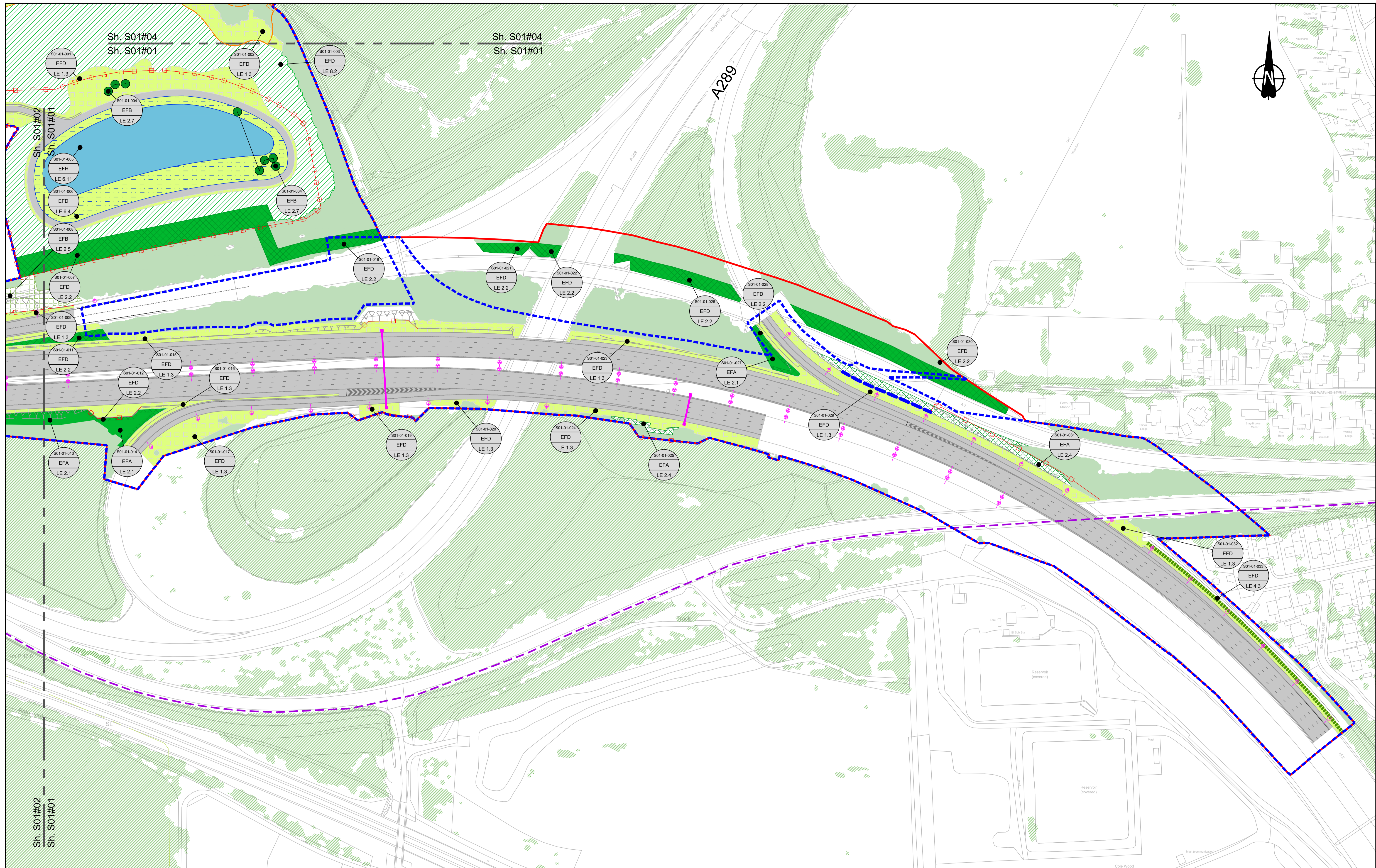
LEGEND

Order Limits	Registered Parks and Gardens
Permanent Acquisition of Land	Ramsar Sites
Area of Outstanding National Beauty (AONB)	Ancient Woodland
Site of Special Scientific Interest (SSSI)	Conservation Area

Client
 national highways

Project
 LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	AS SHOWN		
Drawing title	ENVIRONMENTAL MASTERPLAN OVERVIEW PLAN SECTION 1 & 1A				
Drawing Number	HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00001				



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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01	S2	25/10/2022	DCO Application	SA	PS	MH
P02	S8	03/08/2023	Deadline 2	LD	SK	BF
P03	S8	11/12/2023	Deadline 9	GH	RO	BF

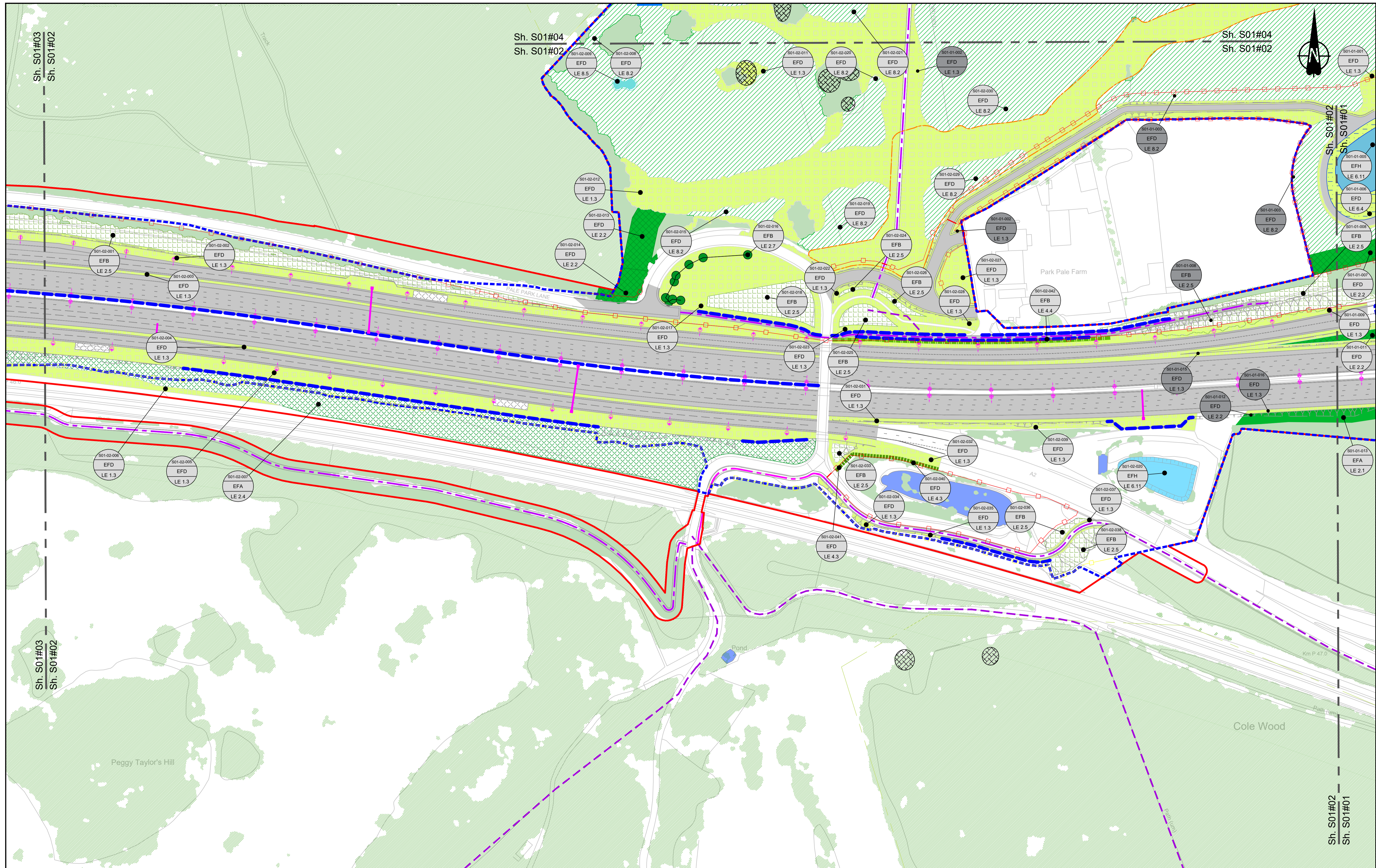
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Order Limits	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
Order Limits	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	LE 5.2 Wet Grassland	LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	Wetland Habitats (LE 6)	LE 8.3 Woodland Mitigation Planting	Flood Compensation Areas (E 2-FCA)	E 3.2 Bat Boxes
LE 1.3 Species Rich Grassland	LE 2.2 Woodland Edge	LE 6.1 Water Bodies - Standing Water	LE 8.4 Wetland / Fenland Creation	Flood Defence (E 2-FD)	E 3.2 Ecological Culvert
LE 1.31 Species Rich Chalk Grassland	LE 2.22 Scrub Woodland	LE 6.12 Water Bodies and Associated Plants	LE 8.5 Ecology Pond (indicative symbol only)	E 3.2 Bat Owl Box	E 3.2 Ecological Fencing (inc. highway boundary fence)
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.2 Banks and Ditches	LE 8.6 Acid Grassland Soil Salvage		
LE 1.4 Rock and Scree		LE 6.21 Banks and Ditches - High Tide Root Features			
		Hedges (LE 4)			
		LE 4.3 Native Species Hedge (untrimmed)			
		LE 4.4 Native Hedgerow With Trees			
		Hard Landscape Features (LE 7)			
		LE 7.4 Reinforced Earth Bund			
		Earthworks			
		Proposed Contours			

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	Application Document Number	Original Size	Revision
DCO Examination	TR010032/APP/6.2	A1	P03
Drawing Title		Scale 1:1250	
ENVIRONMENTAL MASTERPLAN SECTION 1 SHEET 1			
Drawing Number: HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00002			
HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00002.dwg			



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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	SA	PS	MH
P02	S8	03/08/2023	Deadline 2	PS	SK	BF
P03	S8	11/12/2023	Deadline 9	GH1	RO	BF

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

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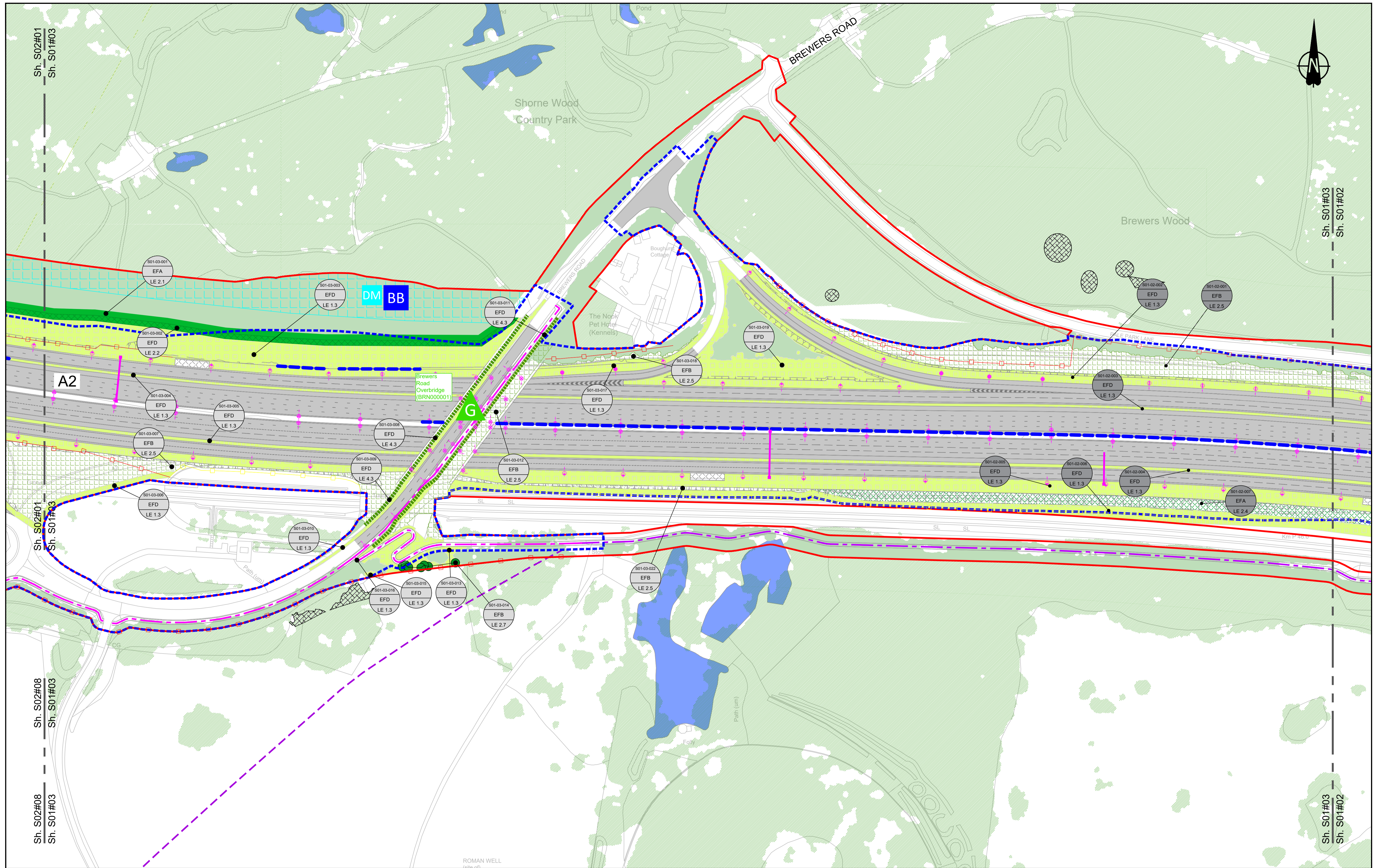
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Permanent Acquisition of Land Permanent Acquisition of Land	Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features	Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Band Proposed Contours	Noise (E 1) E 1.2 Acoustic Barrier-Built Elements (Typically inc. Highway boundary fence)
Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees	Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)	Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)	Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block	Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 1 SHEET 2				
Drawing Number	HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00003				

HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00003.dwg



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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	SA	PS	MH
P02	S8	03/08/2023	Deadline 2	PS	SK	BF
P03	S8	11/12/2023	Deadline 9	GH1	RO	BF

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

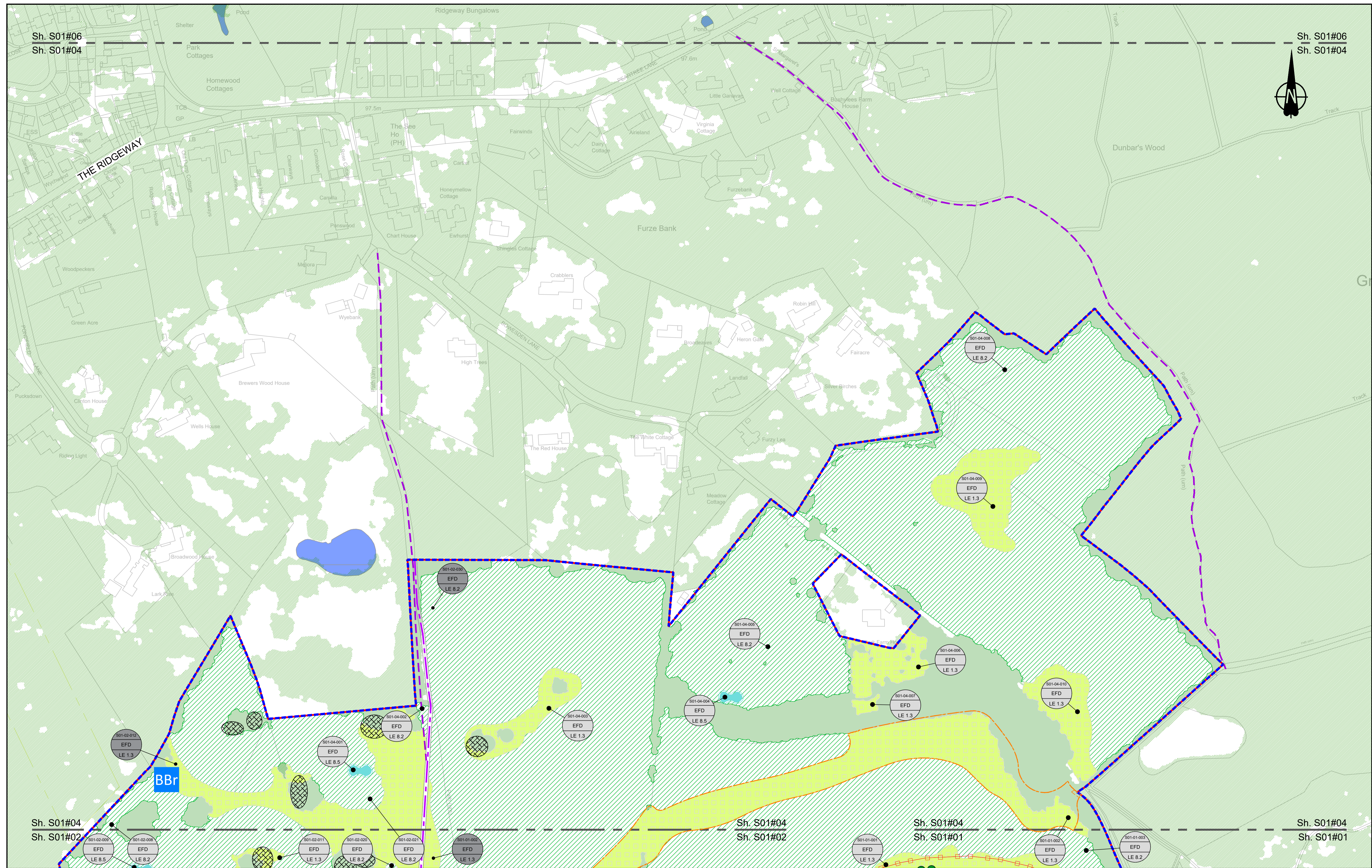
Order Limits	Permanent Acquisition of Land	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
Grassland (LE 1)	Wetland Habitats (LE 6)	Hedges (LE 4)	Wetland Habitats (LE 6)	Hard Landscape Features (LE 7)	Water (E 2)	Ecological (E 3)
Planting (LE 2)	Hedges (LE 4)	Ecological Habitats (LE 8)	Hard Landscape Features (LE 7)	Noise (E 1)	Ecological (E 3)	Ecological (E 3)
Planting (LE 2)	Hedges (LE 4)	Ecological Habitats (LE 8)	Hard Landscape Features (LE 7)	Noise (E 1)	Ecological (E 3)	Ecological (E 3)

Client:

Project: LOWER THAMES CROSSING

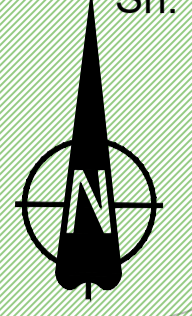
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Sh. S01#06
Sh. S01#04

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Sh. S01#04
Sh. S01#02

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Sh. S01#04
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Sh. S01#04
Sh. S01#01

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	LD		
P02	S8	11/12/2023	Deadline 9	GH1 RO BF		
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

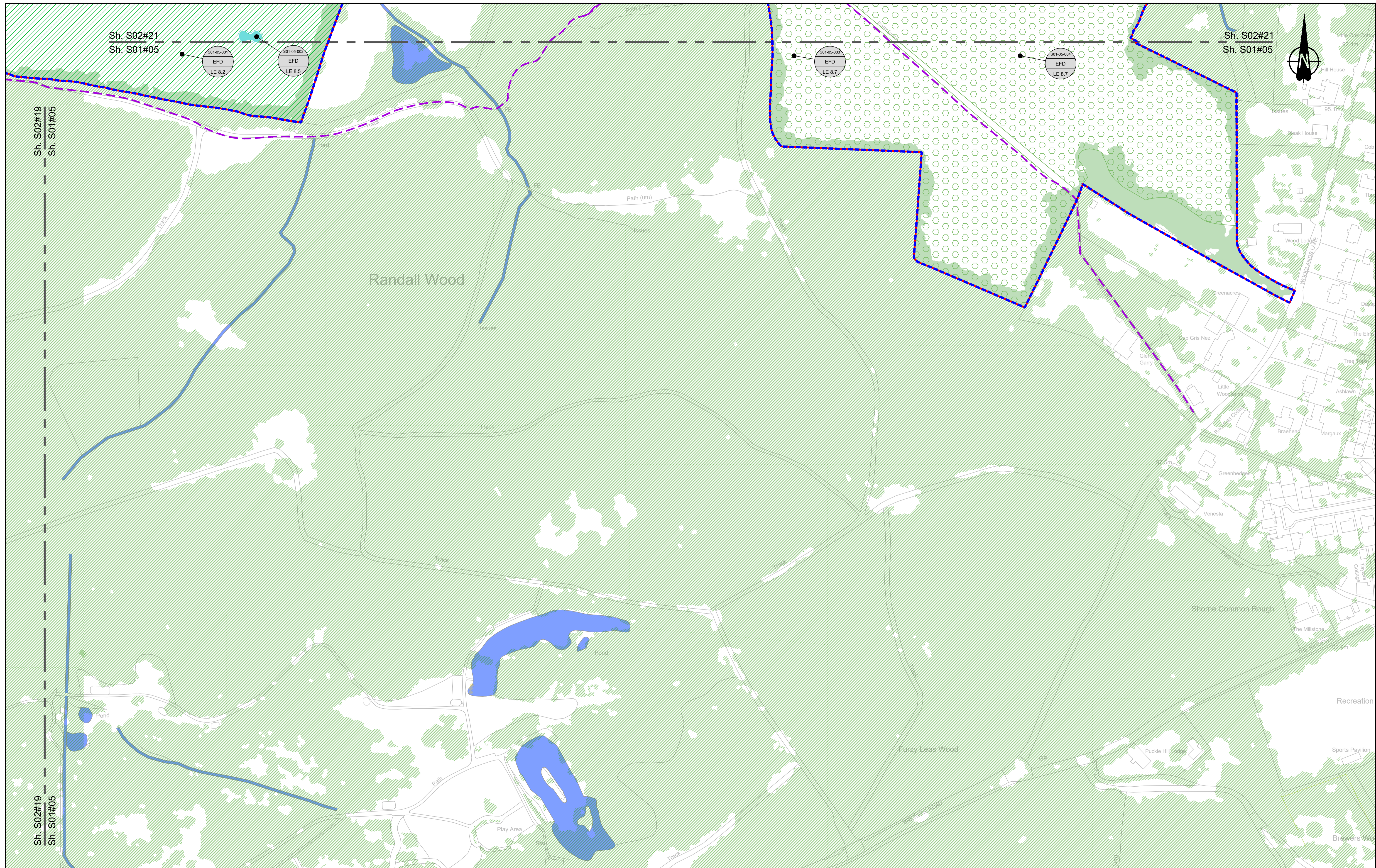
Order Limits	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
Permanent Acquisition of Land	Grassland (LE 1)	Wetland Habitats (LE 6)	Hard Landscape Features (LE 7)	Water (E 2)	Ecological Fencing (inc. highway boundary fence)
LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
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	LE 2.22 Scrub Woodland	LE 6.21 Banks and Ditches - High Tide Root Features	LE 8.5 Ecology Pond (indicative symbol only)		E 3.2 Bat Barn Block
	LE 2.4 Linear Belt of Shrubs and Trees	LE 7.4 Reinforced Earth Bund	LE 8.6 Acid Grassland Soil Salvage		
	Hedges (LE 4)	Earthworks			
	LE 4.3 Native Species Hedge (untrimmed)	Proposed Contours			
	LE 4.4 Native Hedgerow With Trees				

E 3.2 Ecological Fencing (inc. highway boundary fence)	E 3.2 Barn Owl Box
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Client:

Project: LOWER THAMES CROSSING

Status: DCO Examination	Original Size: A1	Revision: P02
Application Document Number: TR010032/APP/6.2	Scale: 1:1250	
Drawing Title: ENVIRONMENTAL MASTERPLAN SECTION 1 SHEET 4		
Drawing Number: HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00005		



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0 10 20 30 40 50 60 70 80 90 100 METRES

SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	LD		
P02	S8	11/12/2023	Deadline 9	GH1 RO BF		
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

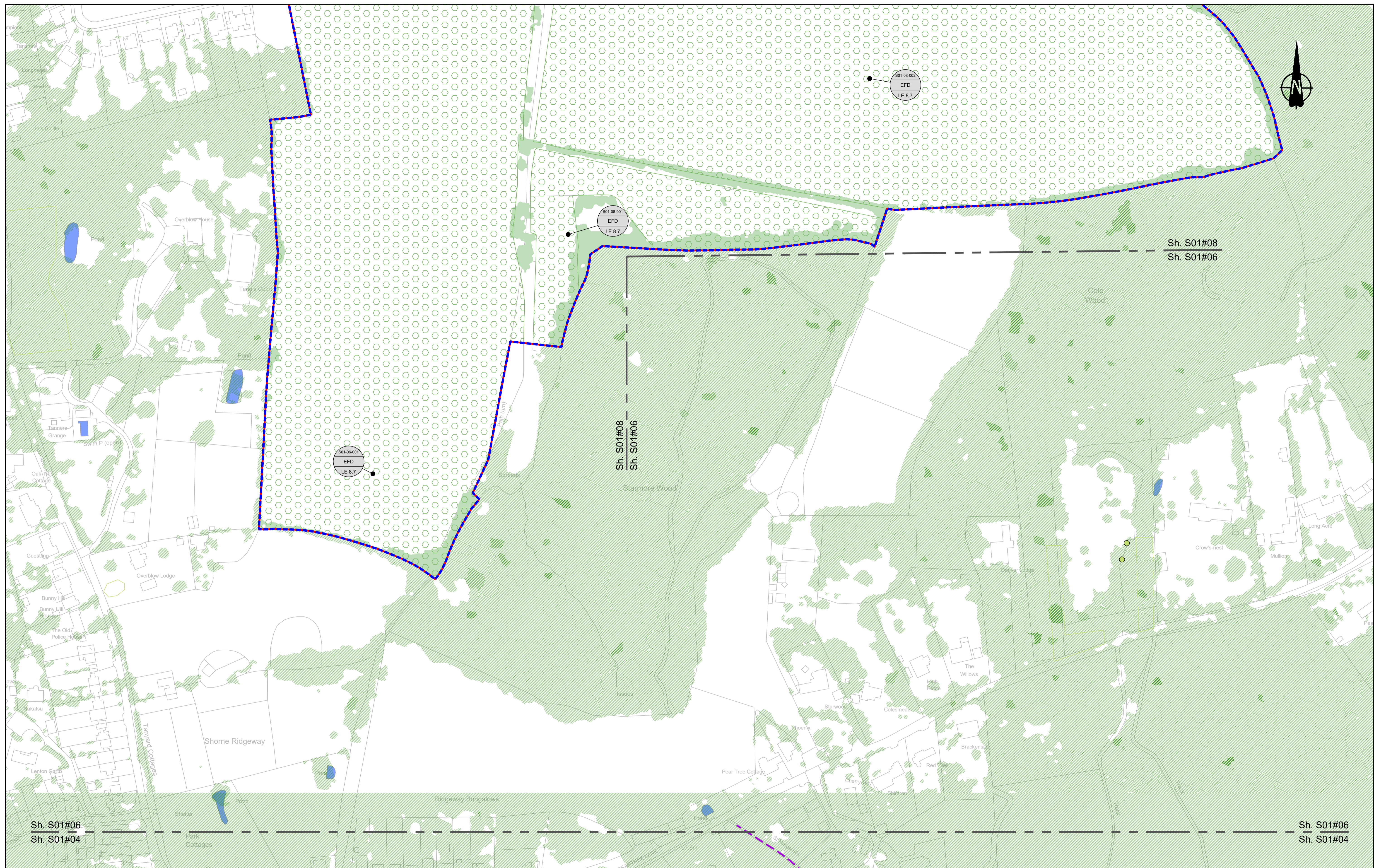
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

<p>Order Limits</p> <ul style="list-style-type: none"> Order Limits Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (LE 2)</p> <ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees <p>Hedges (LE 4)</p> <ul style="list-style-type: none"> LE 4.3 Native Species Hedge (untimmed) LE 4.4 Native Hedgerow With Trees 	<p>Individual Trees (LE 5)</p> <ul style="list-style-type: none"> LE 5.1 Individual Trees <p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features <p>Hard Landscape Features (LE 7)</p> <ul style="list-style-type: none"> LE 7.4 Reinforced Earth Bund <p>Earthworks</p> <ul style="list-style-type: none"> Proposed Contours 	<p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage 	<p>Ecological (E 3)</p> <ul style="list-style-type: none"> E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Ecological Fencing (inc. highway boundary fence) 	<p>Noise (E 1)</p> <ul style="list-style-type: none"> E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) <p>Water (E 2)</p> <ul style="list-style-type: none"> Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD) 	<p>LE 8.7 Nitrogen Deposition (NDEP) Compensation Area</p> <p>LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh</p> <p>LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh</p> <p>LE 6.4 Wet Grassland</p>
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: DCO Examination	Original Size: A1	Revision: P02
Application Document Number: TR010032/APP/6.2	Scale: 1:1250	
Drawing Title: ENVIRONMENTAL MASTERPLAN SECTION 1 SHEET 5		
Drawing Number: HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00006		



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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	DCO Application	LD		
P02	S8	11/12/2023	Deadline 9	GH1 RO BF		
Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

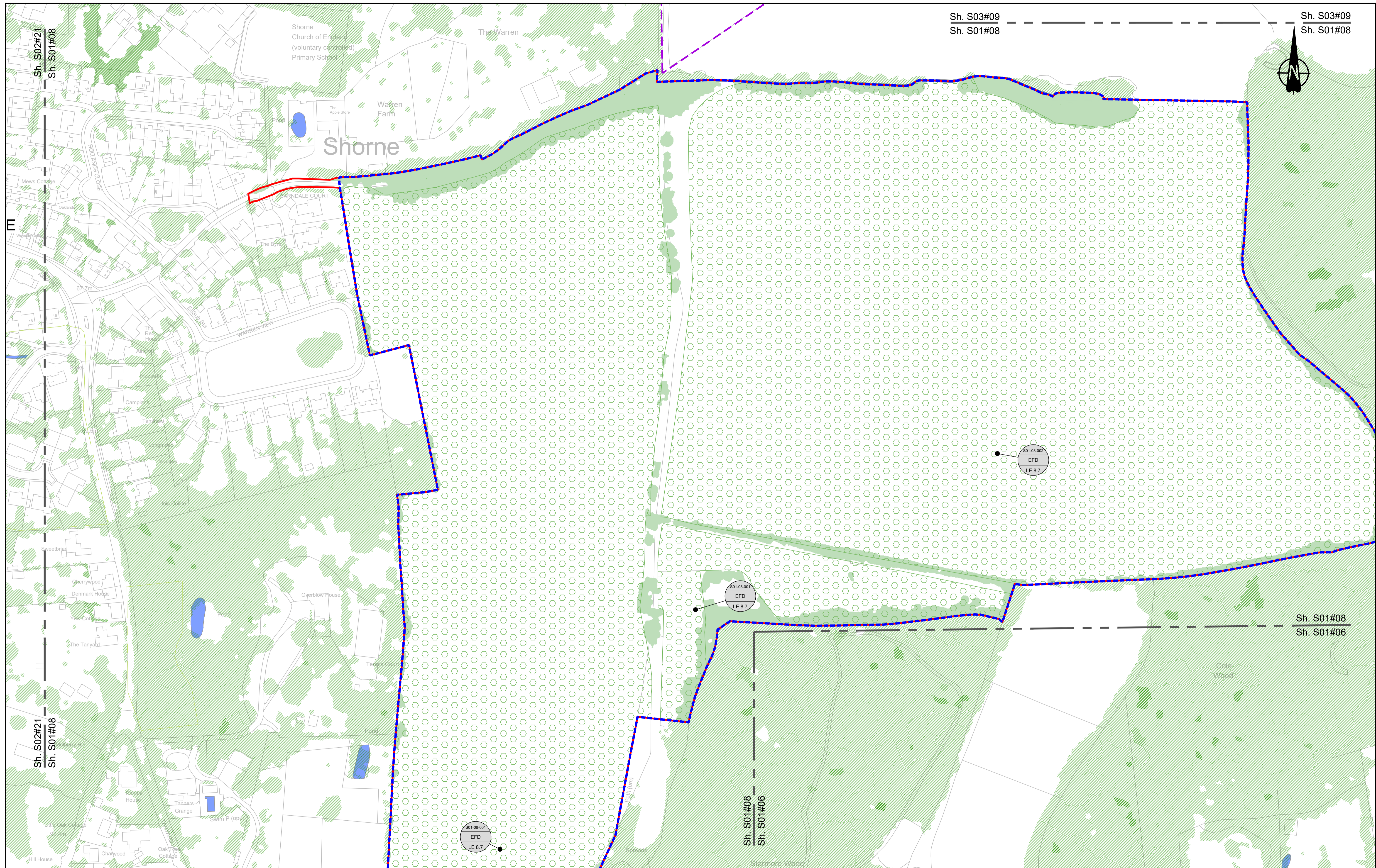
<p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (LE 2)</p> <ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees <p>Hedges (LE 4)</p> <ul style="list-style-type: none"> LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees 	<p>Individual Trees (LE 5)</p> <ul style="list-style-type: none"> LE 5.1 Individual Trees <p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features <p>Hard Landscape Features (LE 7)</p> <ul style="list-style-type: none"> LE 7.4 Reinforced Earth Bund <p>Earthworks</p> <ul style="list-style-type: none"> Proposed Contours 	<p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage 	<p>Noise (E 1)</p> <ul style="list-style-type: none"> E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) <p>Water (E 2)</p> <ul style="list-style-type: none"> Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD) 	<p>Ecological (E 3)</p> <ul style="list-style-type: none"> E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block 	<ul style="list-style-type: none"> E 3.2 Ecological Fencing (inc. highway boundary fence) E 3.2 Bat Owl Box
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Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 1 SHEET 6				
Drawing Number	HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00007				

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Sh. S03#09
Sh. S01#08

Sh. S03#09
Sh. S01#08

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

Section Overview Sheet: Refer to section overview plan at the start of the section.

P01	S2	25/10/2022	LD
P02	S8	11/12/2023	Deadline 9
Rev	Status	Rev. Date	Purpose of revision
			Drawn
			Check'd
			Apprv'd

Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

<p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (LE 2)</p> <ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees <p>LE 2.5 Shrubs With Intermittent Trees</p> <p>LE 2.7 Scattered Trees</p> <p>LE 2.8 Scrub / Scattered Scrub</p> <p>Hedges (LE 4)</p> <ul style="list-style-type: none"> LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees 	<p>Individual Trees (LE 5)</p> <ul style="list-style-type: none"> LE 5.1 Individual Trees <p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features <p>LE 6.4 Wet Grassland</p> <p>LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh</p> <p>Hard Landscape Features (LE 7)</p> <ul style="list-style-type: none"> LE 7.4 Reinforced Earth Bund <p>Earthworks</p> <ul style="list-style-type: none"> Proposed Contours 	<p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage <p>Ecological (E 3)</p> <ul style="list-style-type: none"> E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Ecological Fencing (inc. highway boundary fence) E 3.2 Barn Owl Box 	<p>Noise (E 1)</p> <ul style="list-style-type: none"> E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) <p>Water (E 2)</p> <ul style="list-style-type: none"> Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD) LE 8.7 Nitrogen Deposition (NDEP) Compensation Area
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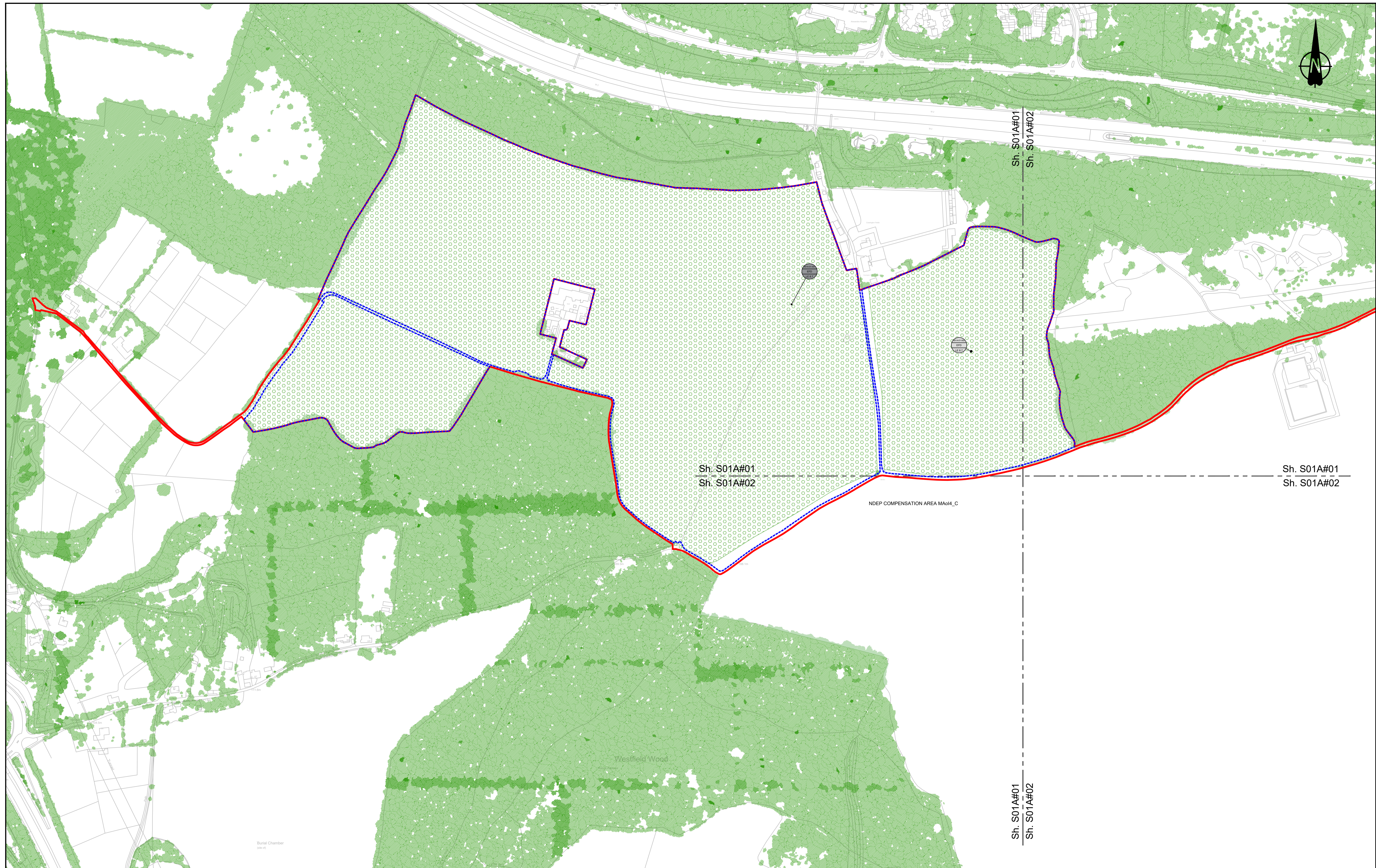
Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 1 SHEET 8				
Drawing Number	HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00009				

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1.7 Section 1A



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0 50 100 150 200 METRES

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)

P01	S2	25/10/2022		LD
P02	S8	03/08/2023	Deadline 2	GH1 SK BF
P03	S8	11/12/2023	Deadline 9	GH1 RO BF

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
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Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits	LE 2.1 Woodland	LE 2.5 Shrubs With Intermittent Trees	LE 5.1 Individual Trees	LE 6.4 Wet Grassland	LE 8.1 Open Mosaic Habitat
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	LE 2.7 Scattered Trees	LE 6.11 Water Bodies - Standing Water	LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 8.2 Ancient Woodland Compensation Planting
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	LE 2.8 Scrub / Scattered Scrub	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 7.4 Reinforced Earth Bund	LE 8.3 Woodland Mitigation Planting
LE 1.3 Species Rich Grassland	LE 2.2 Woodland Edge	LE 4.3 Native Species Hedge (untrimmed)	LE 6.2 Banks and Ditches	LE 7.4 Reinforced Earth Bund	LE 8.4 Wetland / Fenland Creation
LE 1.31 Species Rich Chalk Grassland	LE 2.22 Scrub Woodland	LE 4.4 Native Hedgerow With Trees	LE 6.21 Banks and Ditches - High Tide Flood Features	LE 7.4 Reinforced Earth Bund	LE 8.4 Wetland / Fenland Creation
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.4 Linear Belt of Shrubs and Trees		LE 6.21 Banks and Ditches - High Tide Flood Features	LE 7.4 Reinforced Earth Bund	LE 8.5 Ecology Pond (indicative symbol only)
LE 1.4 Rock and Scree			LE 6.21 Banks and Ditches - High Tide Flood Features	LE 7.4 Reinforced Earth Bund	LE 8.5 Ecology Pond (indicative symbol only)

LE 2.5 Shrubs With Intermittent Trees	LE 5.1 Individual Trees	LE 6.4 Wet Grassland	LE 8.1 Open Mosaic Habitat
LE 2.7 Scattered Trees	LE 6.11 Water Bodies - Standing Water	LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 8.2 Ancient Woodland Compensation Planting
LE 2.8 Scrub / Scattered Scrub	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 7.4 Reinforced Earth Bund	LE 8.3 Woodland Mitigation Planting
LE 4.3 Native Species Hedge (untrimmed)	LE 6.2 Banks and Ditches	LE 7.4 Reinforced Earth Bund	LE 8.4 Wetland / Fenland Creation
LE 4.4 Native Hedgerow With Trees	LE 6.21 Banks and Ditches - High Tide Flood Features	LE 7.4 Reinforced Earth Bund	LE 8.5 Ecology Pond (indicative symbol only)

LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species	E 3.2 Ecological Fencing (inc. highway boundary fence)
E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes	E 3.2 Bat Boxes
Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Culvert	E 3.2 Bat Barn Block
Flood Defence (E 2-FD)	E 3.2 Ecological Culvert	E 3.2 Bat Barn Block
LE 8.6 Acid Grassland Soil Salvage	E 3.2 Ecological Culvert	E 3.2 Bat Barn Block

Client

Project

LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 1A SHEET 1				
Drawing Number	HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00010				

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0 50 100 150 200 METRES

SCALE 1:2500 (A1)
SCALE 1:5000 (A3)

P01	S2	25/10/2022		LD
P02	S8	03/08/2023	Deadline 2	GH1 SK BF
P03	S8	11/12/2023	Deadline 9	GH1 RO BF

Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
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Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits	Planting (LE 2)	LE 2.1 Woodland	LE 2.5 Shrubs With Intermittent Trees	Individual Trees (LE 5)	LE 5.1 Individual Trees	Ecological Habitats (LE 8)	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	Ecological (E 3)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species	E 3.2 Barn Owl Box
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	LE 2.14 Wet / Carr Woodland	LE 2.7 Scattered Trees	Wetland Habitats (LE 6)	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 8.1 Open Mosaic Habitat	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes	E 3.2 Ecological Fencing (inc. highway boundary fence)	
Grassland (LE 1)	LE 1.3 Species Rich Grassland	LE 2.2 Woodland Edge	LE 2.8 Scrub / Scattered Scrub	Hard Landscape Features (LE 7)	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 8.2 Ancient Woodland Compensation Planting	E 2 Flood Compensation Areas (E 2-FCA)	E 3.2 Bat Boxes		
LE 1.31 Species Rich Chalk Grassland	LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.22 Scrub Woodland	Hedges (LE 4)	LE 7.4 Reinforced Earth Bund	LE 6.2 Banks and Ditches	LE 8.3 Woodland Mitigation Planting	E 2-Flood Defence (E 2-FD)	E 3.2 Ecological Culvert		
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees	LE 4.3 Native Species Hedge (untrimmed)	LE 4.4 Native Hedgerow With Trees	Earthworks	LE 6.21 Banks and Ditches - High Tide Root Features	LE 8.4 Wetland / Fenland Creation	E 3.2 Ecological Fencing (inc. highway boundary fence)	E 3.2 Bat Barn Block		
		LE 4.4 Native Hedgerow With Trees		Proposed Contours		LE 8.5 Ecology Pond (indicative symbol only)				
						LE 8.6 Acid Grassland Soil Salvage				

LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 7.4 Reinforced Earth Bund	LE 8.1 Open Mosaic Habitat	LE 8.2 Ancient Woodland Compensation Planting	LE 8.3 Woodland Mitigation Planting	LE 8.4 Wetland / Fenland Creation	LE 8.5 Ecology Pond (indicative symbol only)	LE 8.6 Acid Grassland Soil Salvage
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Client:

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 1A SHEET 2				
Drawing Number	HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00011				



**SHEET NO LONGER IN USE
FOR ENVIRONMENTAL MASTERPLAN**

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0 50 100 150 200
SCALE 1:2500 (A1)
SCALE 1:5000 (A3)
METRES

P01	S2	25/10/2022		LD
P02	S8	03/08/2023	Deadline 2	GH1 SK BF
P03	S8	11/12/2023	Deadline 9	GH1 RO BF

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
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Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits Permanent Acquisition of Land	Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees	Individual Trees (LE 5) LE 5.1 Individual Trees	Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Barks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features	Wetland Habitats (LE 6) LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.42 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Barks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features	Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund	Earthworks Proposed Contours	Ecological Habitats (LE 8) LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage	Noise (E 1) E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)	Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block	Ecological (E 3) E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block	E 3.2 Barn Owl Box E 3.2 Ecological Fencing (inc. highway boundary fence)
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Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	A1	Revision	P03
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing Title	ENVIRONMENTAL MASTERPLAN SECTION 1A SHEET 3				
Drawing Number	HE540039-CJV-EGN-S01_EN000000_Z-DR-ZZ-00012				

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