

Lower Thames Crossing
6.2 Environmental Statement
Figure 2.4 - Environmental
Masterplan Section 3 (3 of 10)
(Tracked changes version)

APFP Regulation 5(2)(a)

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

Volume 6

DATE: ~~November~~ December 2023
DEADLINE: ~~7~~ 9

Deleted: November

Deleted: 7

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	17 November 2023	Deadline 7
4.0	11 December 2023	Deadline 9

Lower Thames Crossing

6.2 Environmental Statement

Figure 2.4: Environmental Masterplan Section 3 (3 of 10) (Tracked changes version)

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1 Environmental Masterplan: Section 3

1.1 Schedule of Plans included in this application document

1.2 Section 3 (Sheets 1-10)

HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00001 – Section 3 Overview	TR010032/APP/6.2	P04
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00002 - Section 3 Sheet 1	TR010032/APP/6.2	P04
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00003 - Section 3 Sheet 2	TR010032/APP/6.2	P03
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00004 - Section 3 Sheet 3	TR010032/APP/6.2	P03
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00005 - Section 3 Sheet 4	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00006 - Section 3 Sheet 5	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00007 - Section 3 Sheet 6	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00008 - Section 3 Sheet 7	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00009 - Section 3 Sheet 8	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00010 - Section 3 Sheet 9	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00012 - Section 3 Sheet 10	TR010032/APP/6.2	P02

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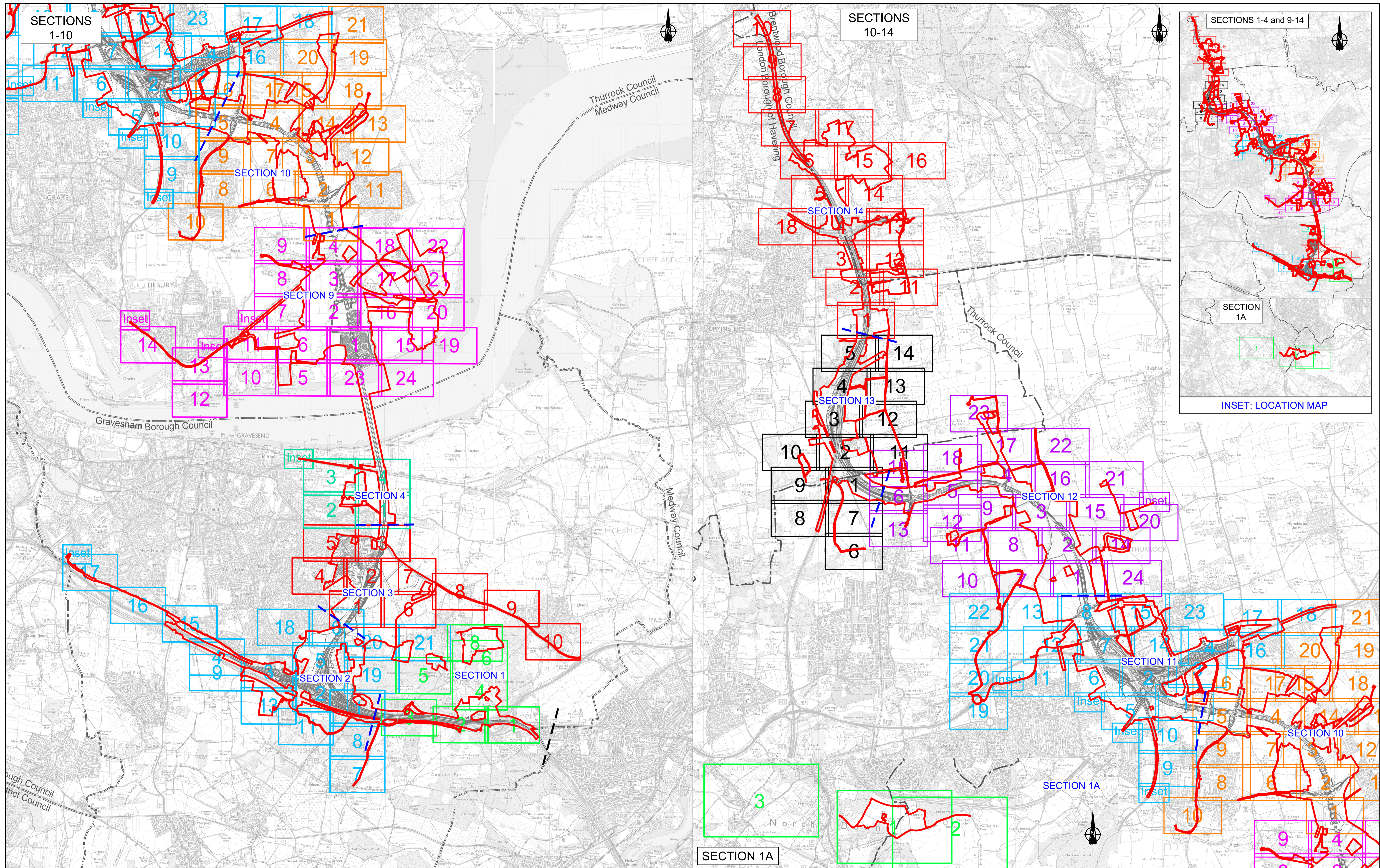
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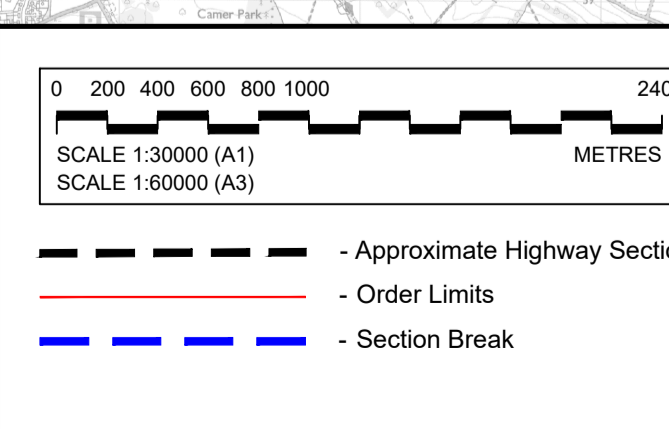
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1.3 Scheme Overview



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

1.4 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

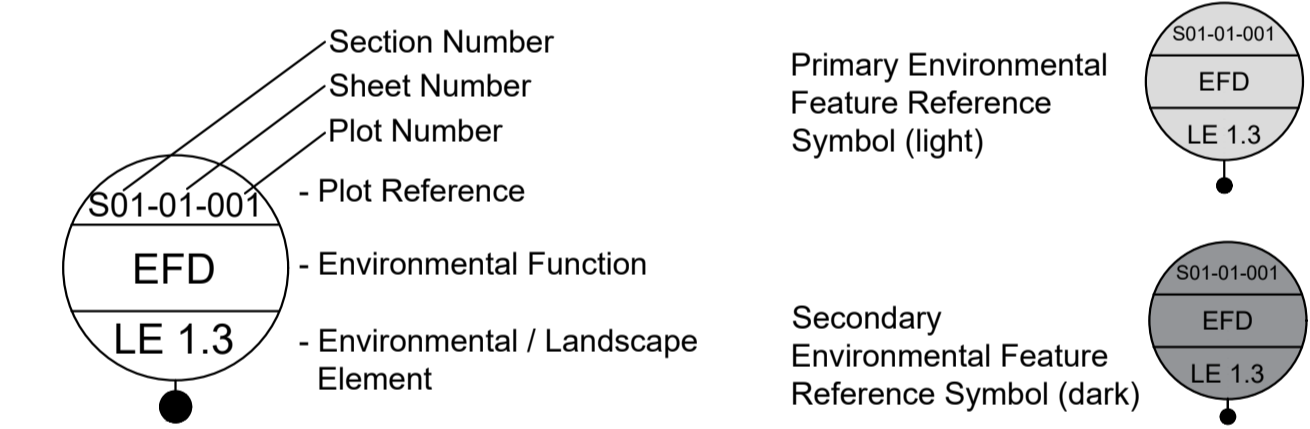
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed 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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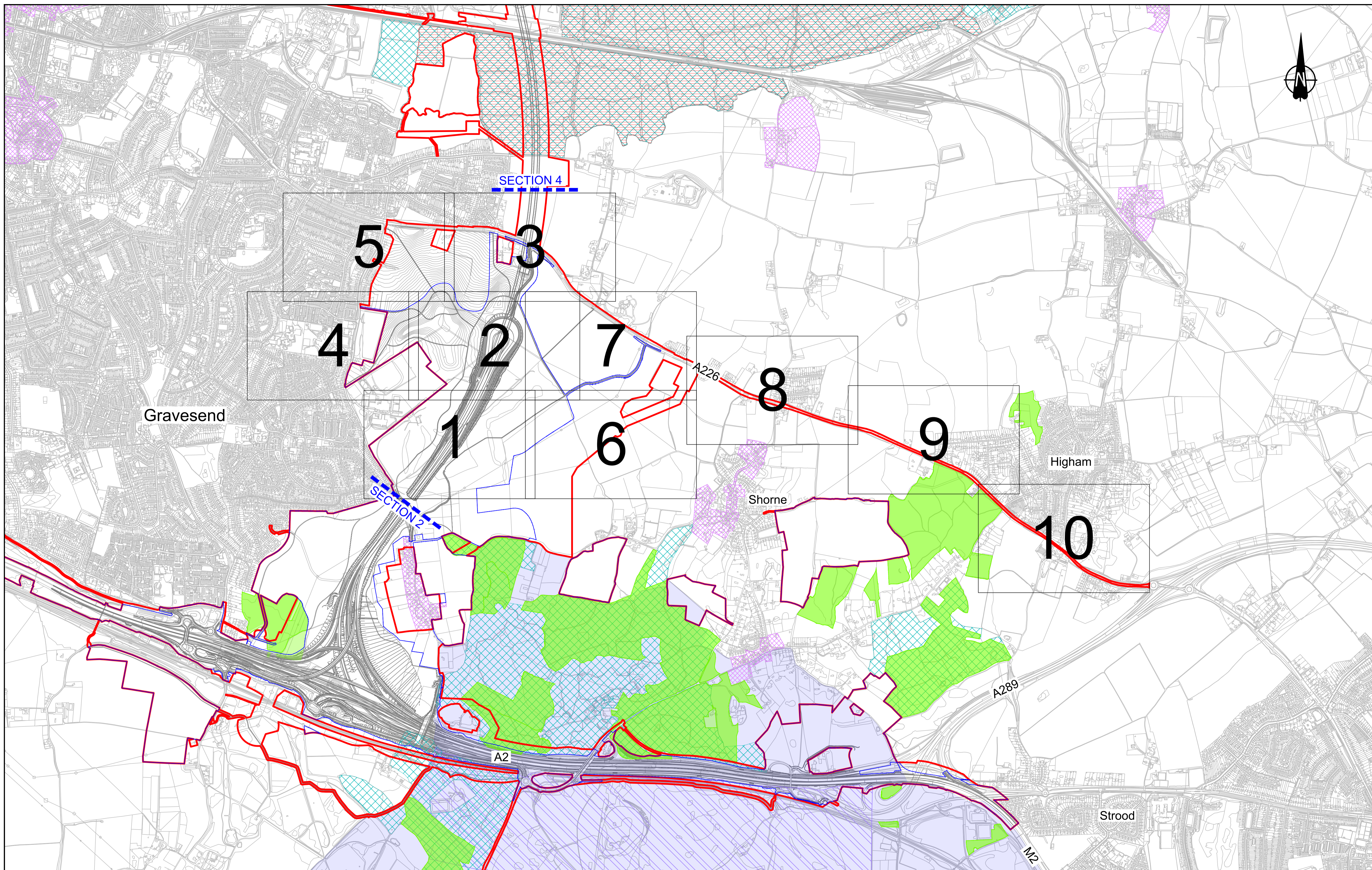
P01	S2	27/10/2022	LD
P02	S8	11/12/2023	Deadline 9
Rev	Status	Rev. Date	Purpose of revision
			Drawn
			Check'd
			Apprv'd

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				

1.5 Section 3



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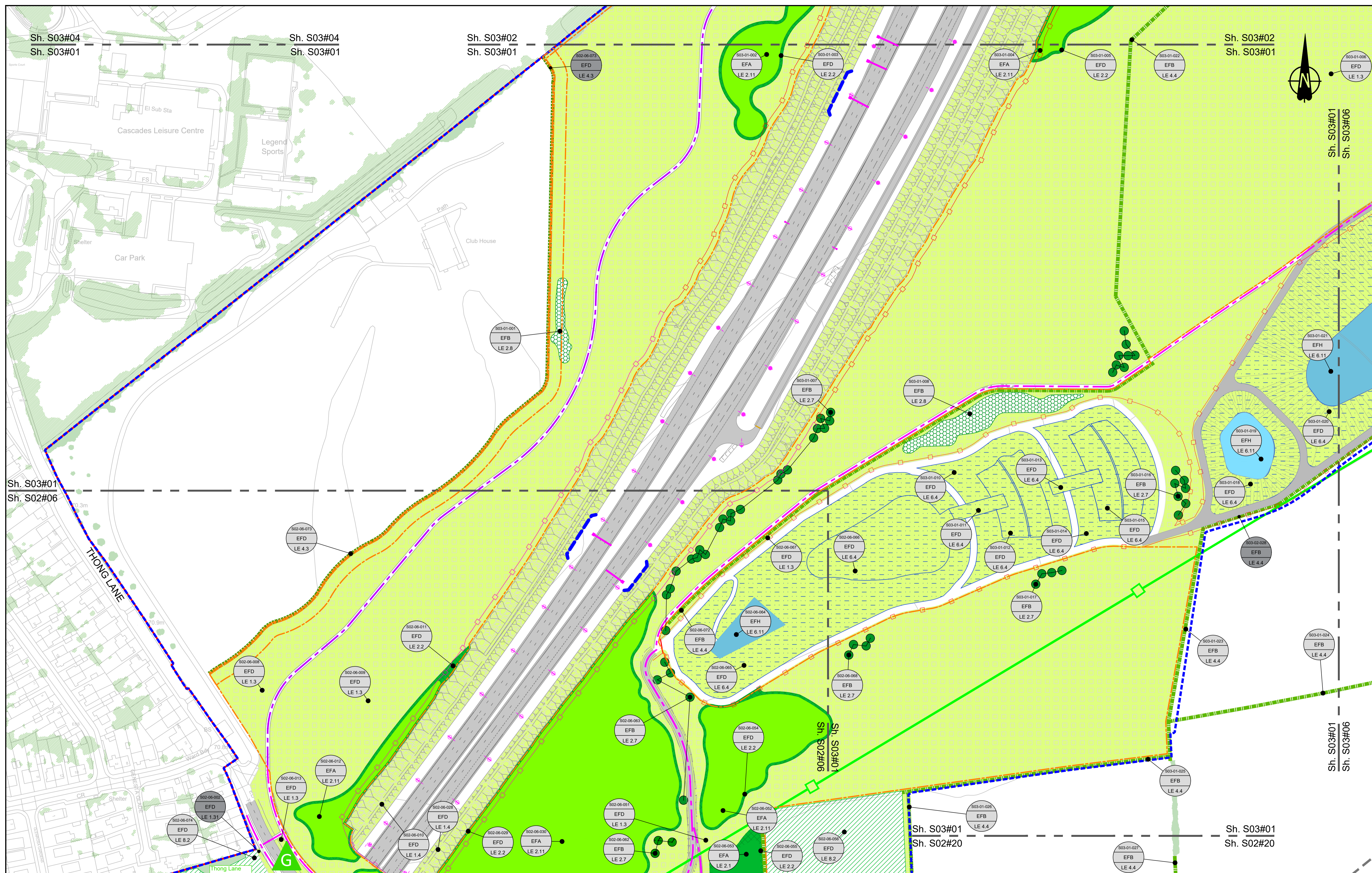
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SCALE 1:25000 (A3)										
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P02	S8	03/08/2023	Deadline 2	PS	SK	BF				
P03	S8	17/11/2023	Deadline 7	GH1	RO	BB				
P04	S8	11/12/2023	Deadline 9	GH1	RO	BF				
Rev	Status	Rev. Date	Purpose of revision	Drawn	Chk'd	Appr'd				

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	Revision
Application Document Number	TR010032/APP/6.2	A1	P04
Drawing title	ENVIRONMENTAL MASTERPLAN OVERVIEW PLAN SECTION 3		
Drawing Number	HE540039-CJV-EGN-S03_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	Chk'd	Appr'd
P01	S2	25/10/2022		LD	SK	BF
P02	S8	03/08/2023	Deadline 2	LD	SK	BF
P03	S8	17/11/2023	Deadline 7	GH1	RO	BB
P04	S8	11/12/2023	Deadline 9	GH1	RO	BF

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)
	Planting (LE 2)
	Individual Trees (LE 5)
	Wetland Habitats (LE 6)
	Hedges (LE 4)
	Hard Landscape Features (LE 7)
	Earthworks
	Ecological Habitats (LE 8)
	Noise (E 1)
	Water (E 2)
	Ecological (E 3)

Client

Project

LOWER THAMES CROSSING

Status: DCO Examination

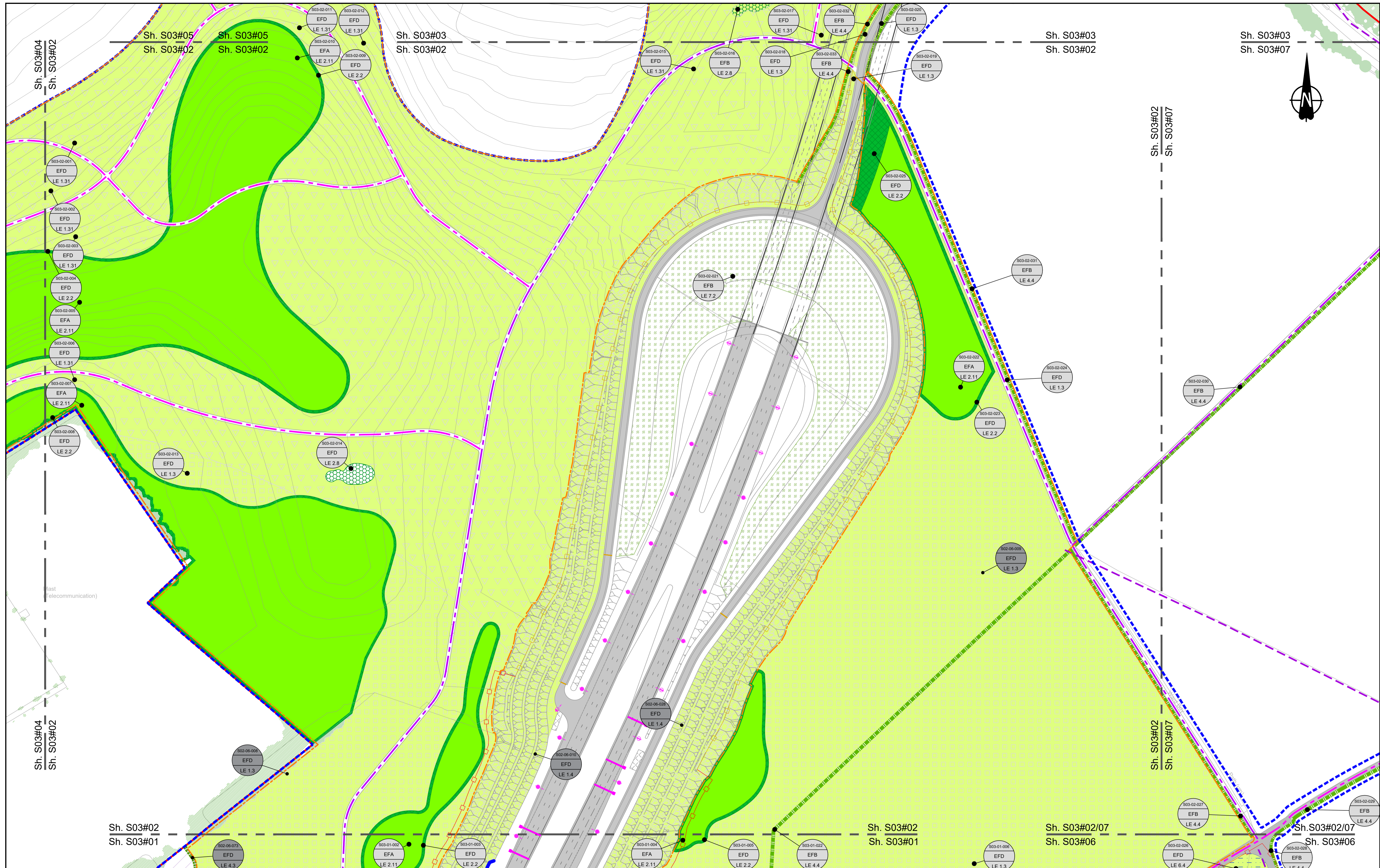
Application Document Number: TR010032/APP/6.2

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 1

Drawing Number: HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00002

Original Size: A1
Scale: 1:1250
Revision: P04

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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	03/08/2023	Deadline 2	PS	SK
P03	S8	11/12/2023	Deadline 9	GH1	RO

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).

<p>Order Limits</p> <p>Permanent Acquisition of Land</p> <p>Grassland (LE 1)</p> <p>LE 1.3 Species Rich Grassland</p> <p>LE 1.31 Species Rich Chalk Grassland</p> <p>LE 1.32 Species Rich Annual Wildflower Grassland</p> <p>LE 1.4 Rock and Scree</p>	<p>Planting (LE 2)</p> <p>LE 2.1 Woodland</p> <p>LE 2.11 Woodland With Non-Native Species</p> <p>LE 2.14 Wet / Carr Woodland</p> <p>LE 2.2 Woodland Edge</p> <p>LE 2.22 Scrub Woodland</p> <p>LE 2.4 Linear Belt of Shrubs and Trees</p> <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> <p>LE 4.3 Native Species Hedge (untrimmed)</p> <p>LE 4.4 Native Hedgerow With Trees</p>	<p>Individual Trees (LE 5)</p> <p>LE 5.1 Individual Trees</p> <p>Wetland Habitats (LE 6)</p> <p>LE 6.11 Water Bodies - Standing Water</p> <p>LE 6.12 Water Bodies and Associated Plants - Shallow Scrape</p> <p>LE 6.2 Banks and Ditches</p> <p>LE 6.21 Banks and Ditches - High Tide Roost Features</p> <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> <p>LE 7.4 Reinforced Earth Bund</p> <p>Earthworks</p> <p>Proposed Contours</p>	<p>Ecological Habitats (LE 8)</p> <p>LE 8.1 Open Mosaic Habitat</p> <p>LE 8.2 Ancient Woodland Compensation Planting</p> <p>LE 8.3 Woodland Mitigation Planting</p> <p>LE 8.4 Wetland / Fenland Creation</p> <p>LE 8.5 Ecology Pond (indicative symbol only)</p> <p>LE 8.6 Acid Grassland Soil Salvage</p> <p>Ecological (E 3)</p> <p>E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species</p> <p>E 3.2 Dormouse Boxes</p> <p>E 3.2 Bat Boxes</p> <p>E 3.2 Ecological Culvert</p> <p>E 3.2 Bat Barn Block</p>	<p>Noise (E 1)</p> <p>E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)</p> <p>Water (E 2)</p> <p>Flood Compensation Areas (E 2-FCA)</p> <p>Flood Defence (E 2-FD)</p> <p>LE 8.7 Nitrogen Deposition (NDEP) Compensation Area</p> <p>Ecological (E 3)</p> <p>E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species</p> <p>E 3.2 Dormouse Boxes</p> <p>E 3.2 Bat Boxes</p> <p>E 3.2 Ecological Culvert</p> <p>E 3.2 Bat Barn Block</p>	<p>E 3.2 Ecological Fencing (inc. highway boundary fence)</p> <p>E 3.2 Barn Owl Box</p>
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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 3 SHEET 2				
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00003				

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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	27/10/2022	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	Chkd	Apprv'd

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

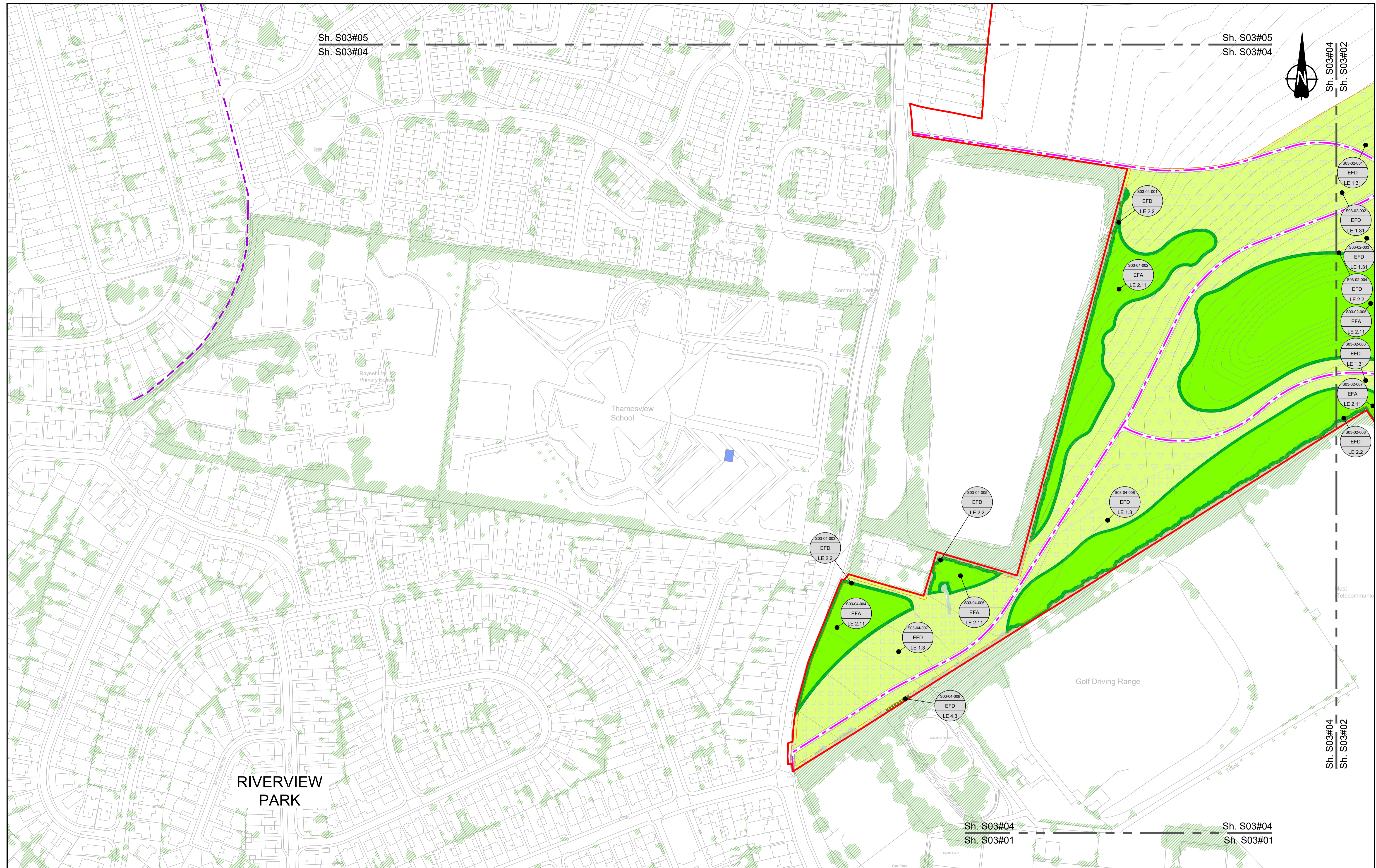
Order Limits	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
Order Limits	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	LE 5.2 Scattered Trees	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	Water (E 2)	E 3.2 Bat Boxes
LE 1.3 Species Rich Grassland	LE 2.2 Woodland Edge	LE 6.1 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 8.4 Wetland / Fenland Creation	Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Culvert
LE 1.31 Species Rich Chalk Grassland	LE 2.22 Scrub Woodland	LE 6.2 Barks and Ditches	LE 8.5 Ecology Pond (indicative symbol only)	Flood Defence (E 2-FD)	E 3.2 Bat Barn Block
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.4 Linear Belt of Shrubs and Trees	Hard Landscape Features (LE 7)	LE 8.6 Acid Grassland Soil Salvage		
LE 1.4 Rock and Scree		LE 7.4 Reinforced Earth Bund			
		Hedges (LE 4)			
		LE 4.3 Native Species Hedge (untrimmed)			
		LE 4.4 Native Hedgerow With Trees			
		LE 2.5 Shrubs With Intermittent Trees			
		LE 2.7 Scattered Trees			
		LE 2.8 Scrub / Scattered Scrub			
		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			
		Proposed Contours			

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 3 SHEET 3				
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00004				

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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
			Chk'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)
Permanent Acquisition of Land	Grassland (LE 1)	Wetland Habitats (LE 6)
LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 5.1 Individual Trees
LE 1.31 Species Rich Chalk Grassland	LE 2.11 Woodland with Non-Native Species	LE 6.11 Water Bodies - Coastal Grazing Marsh
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.14 Wet / Carr Woodland	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape
LE 1.4 Rock and Scree	LE 2.2 Woodland Edge	LE 6.2 Banks and Ditches
	LE 2.22 Scrub Woodland	LE 6.21 Banks and Ditches - High Tide Roost Features
	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.4 Wet Grassland
	LE 2.5 Scrubs with Intermittent Trees	LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh
	LE 2.7 Scattered Trees	LE 7.4 Reinforced Earth Bund
	LE 2.8 Scrub / Scattered Scrub	Earthworks
	Hedges (LE 4)	Proposed Contours
	LE 4.3 Native Species Hedge (untrimmed)	
	LE 4.4 Native Hedgerow with Trees	

LE 8.1 Open Mosaic Habitat	LE 7 Nitrogen Deposition (NDEP) Compensation Area	Ecological (E 3)
LE 8.2 Ancient Woodland Compensation Planting	Noise (E 1)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 8.3 Woodland Mitigation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes
LE 8.4 Wetland / Fenland Creation	Water (E 2)	E 3.2 Bat Boxes
LE 8.5 Ecology Pond (indicative symbol only)	Flood Compensation Areas (E 2-FCAs)	E 3.2 Ecological Culvert
LE 8.6 Acid Grassland Soil Salvage	Flood Defence (E 2-FD)	E 3.2 Bat Barn Block
	E 3.2 Ecological Fencing (inc. highway boundary fence)	
	E 3.2 Barn Owl Box	

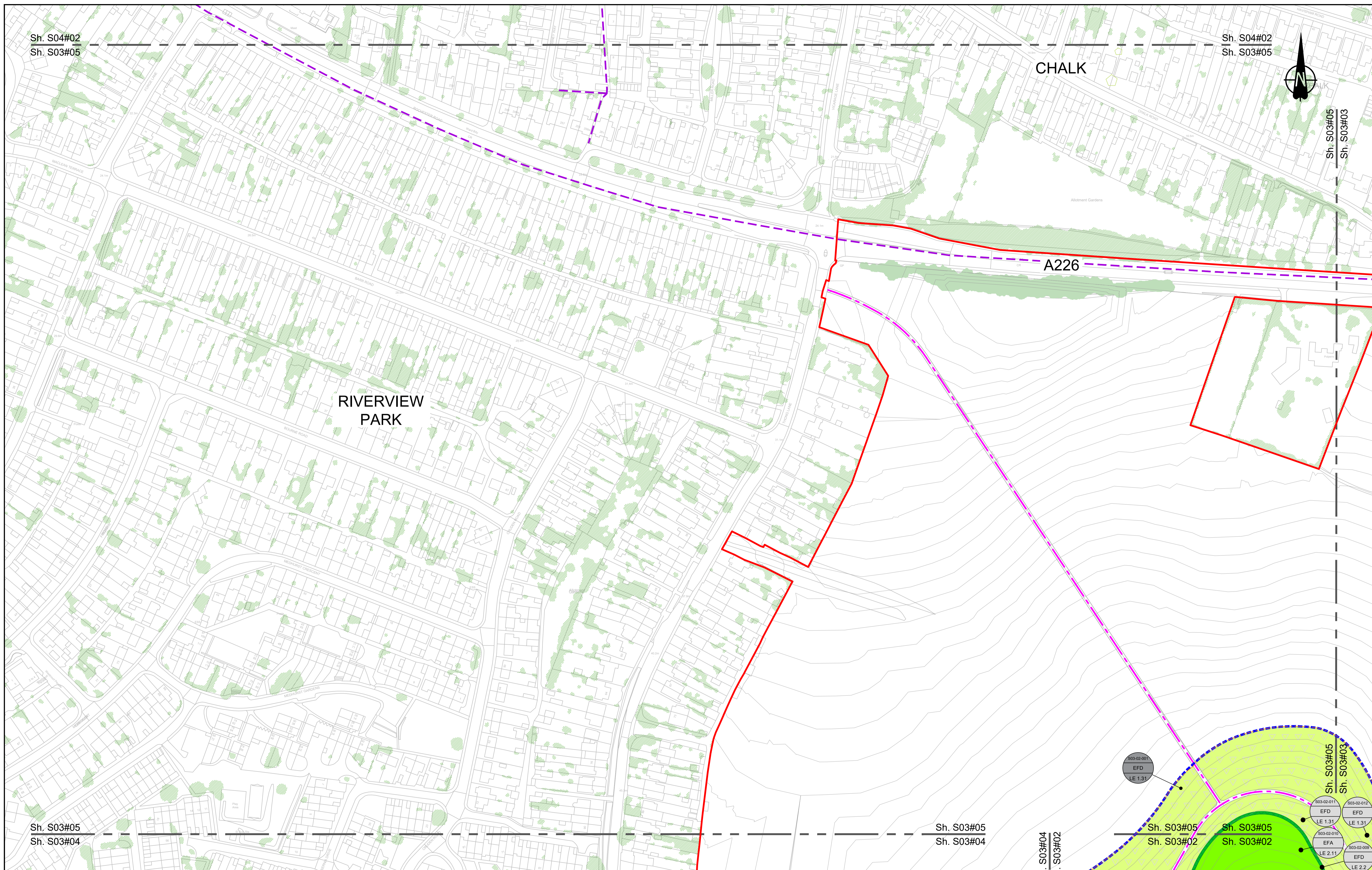
Client

Project

LOWER THAMES CROSSING

Status	DCO Examination	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P02
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 4		
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00005		

HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00005.dwg



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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	LD
P02	S8	11/12/2023	Deadline 9
Rev	Status	Rev. Date	Purpose of revision
			Drawn
			Check'd
			Appr'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)	LE 2.5 Shrubs With Intermittent Trees	Individual Trees (LE 5)	LE 6.4 Wet Grassland
Permanent Acquisition of Land	LE 2.11 Woodland	LE 5.1 Individual Trees	Wetland Habitats (LE 6)	LE 6.41 Marsh and Wet Grassland Coastal Grazing Marsh
Grassland (LE 1)	LE 2.14 Woodland With Non-Native Species	LE 6.11 Water Bodies - Standing Water	LE 6.2 Scrub / Scattered Scrub	Hard Landscape Features (LE 7)
LE 1.3 Species Rich Grassland	LE 2.22 Wet / Carr Woodland	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	Hedges (LE 4)	LE 7.4 Reinforced Earth Bund
LE 1.31 Species Rich Chalk Grassland	LE 2.2 Woodland Edge	LE 6.2 Banks and Ditches	LE 4.3 Native Species Hedge (untrimmed)	Earthworks
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.22 Scrub Woodland	LE 6.21 Banks and Ditches - High Tide Roost Features	LE 4.4 Native Hedgerow With Trees	Proposed Contours
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees			

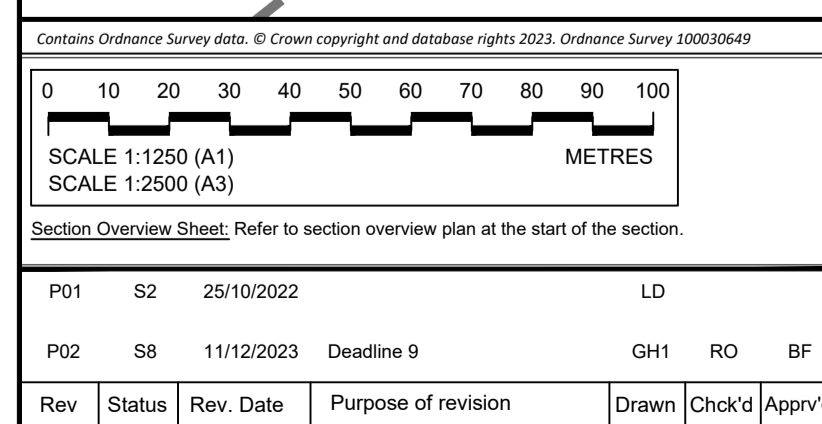
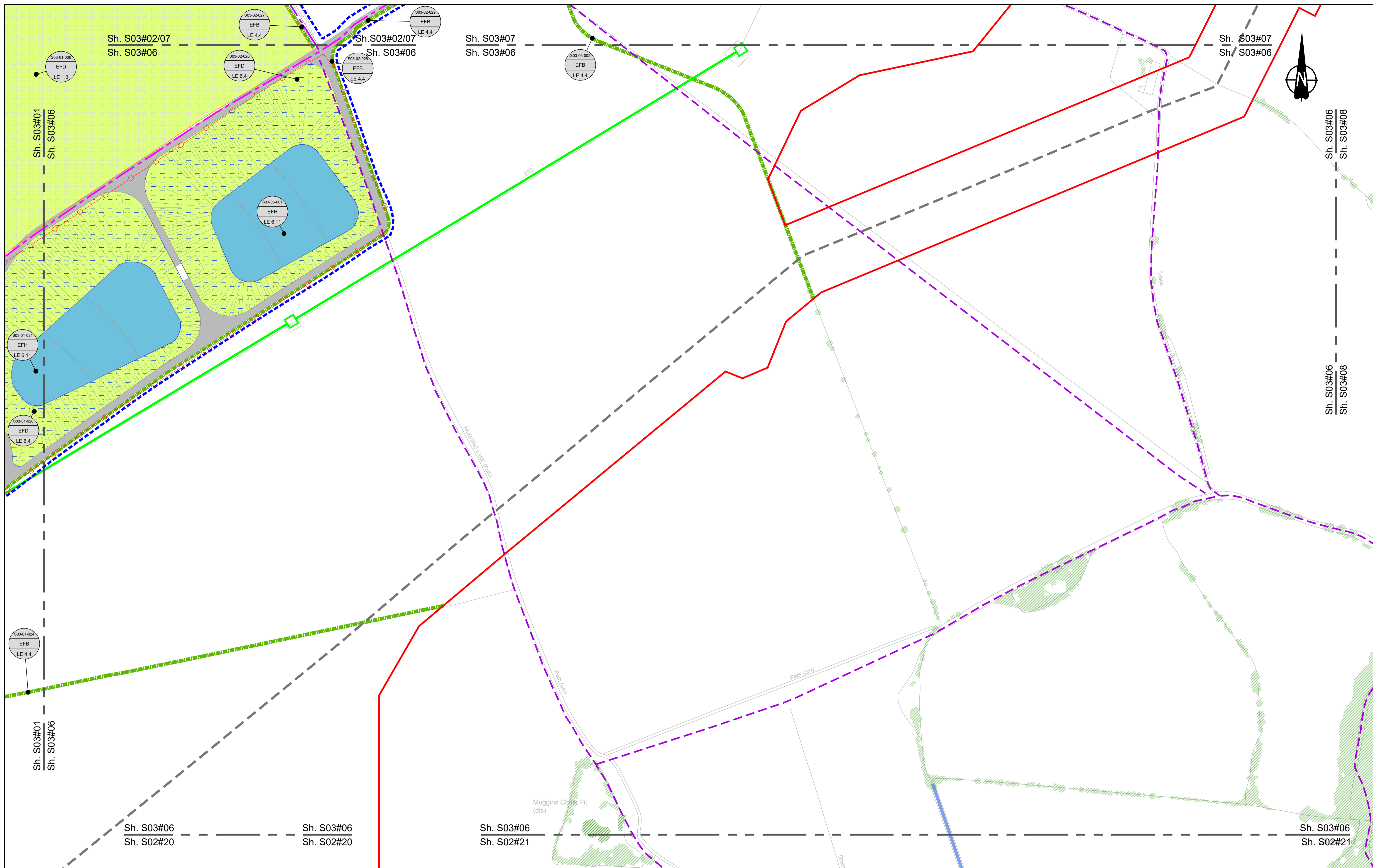
Ecological Habitats (LE 8)	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	Ecological (E 3)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species	E 3.2 Ecological Fencing (inc. highway boundary fence)
LE 8.1 Open Mosaic Habitat	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes	E 3.2 Bat Boxes	E 3.2 Bat Owl Box
LE 8.2 Ancient Woodland Compensation Planting	Water (E 2)	E 3.2 Bat Boxes	E 3.2 Ecological Culvert	E 3.2 Bat Barn Block
LE 8.3 Woodland Mitigation Planting	Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Culvert		
LE 8.4 Wetland / Fenland Creation	Flood Defence (E 2-FD)			
LE 8.5 Ecology Pond (indicative symbol only)				
LE 8.6 Acid Grassland Soil Salvage				

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 3 SHEET 5				
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00006				



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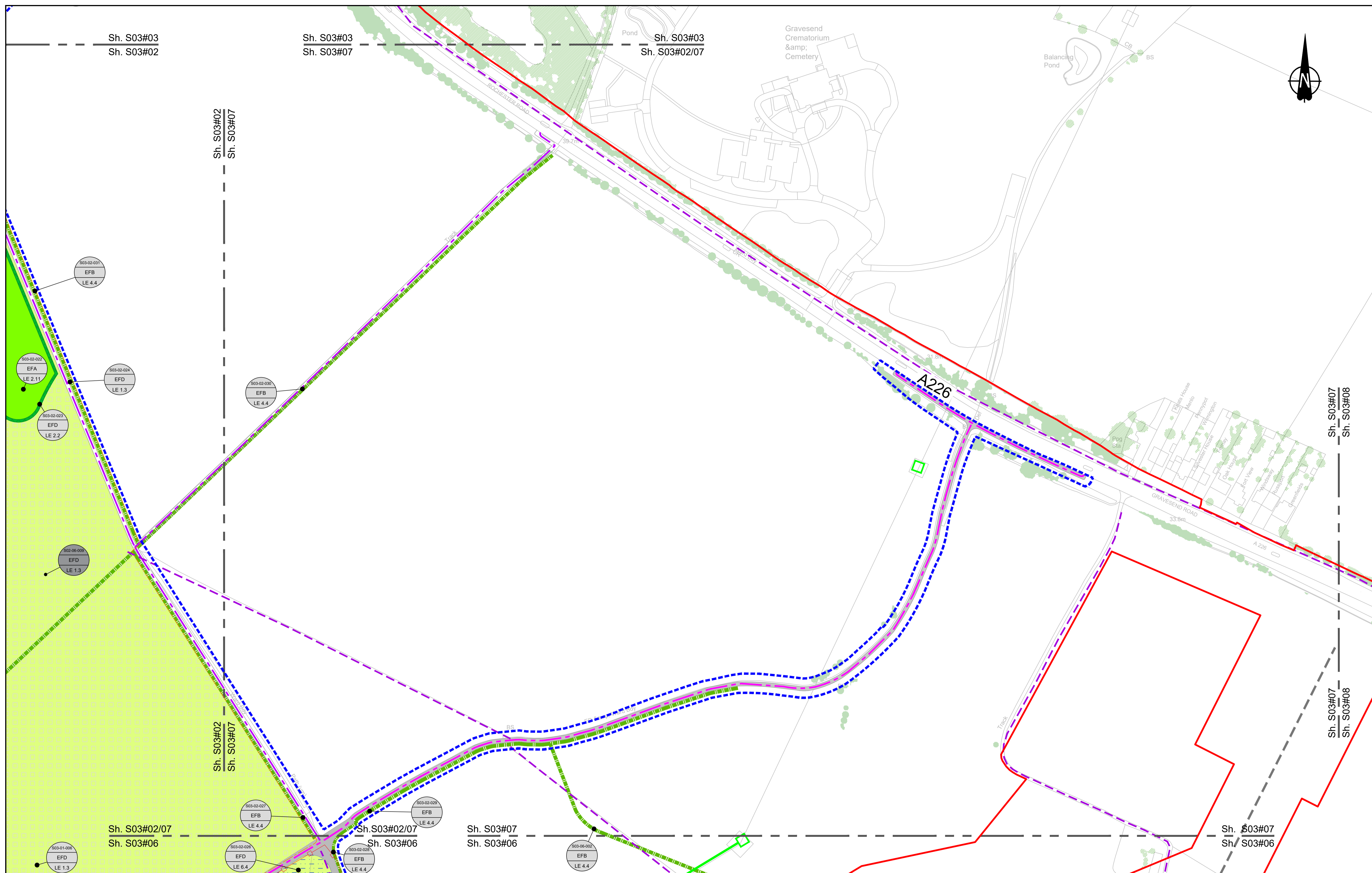
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits	Planting (LE 2)	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 Scattered Trees	LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Ecological Fencing (inc. highway boundary fence)
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	Wetland Habitats (LE 6)	LE 8.3 Woodland Mitigation Planting	Water (E 2)	E 3.2 Ecological Culvert
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 Compensation Areas (E 2-FCA)	E 3.2 Bat Boxes
LE 1.31 Species Rich Chalk Grassland	LE 2.22 Scrub Woodland	LE 6.11 Water Bodies and Associated Plants - Shallow Scrape	LE 8.5 Ecology Pond (indicative symbol only)	Flood Defence (E 2-FD)	E 3.2 Bat Barn Block
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 Roost 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	DCO Examination	Original Size	A1	Revision	P02
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 6				
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00007				



Sh. S03#03
Sh. S03#02

Sh. S03#03
Sh. S03#07

Sh. S03#03
Sh. S03#02/07

Sh. S03#02
Sh. S03#07

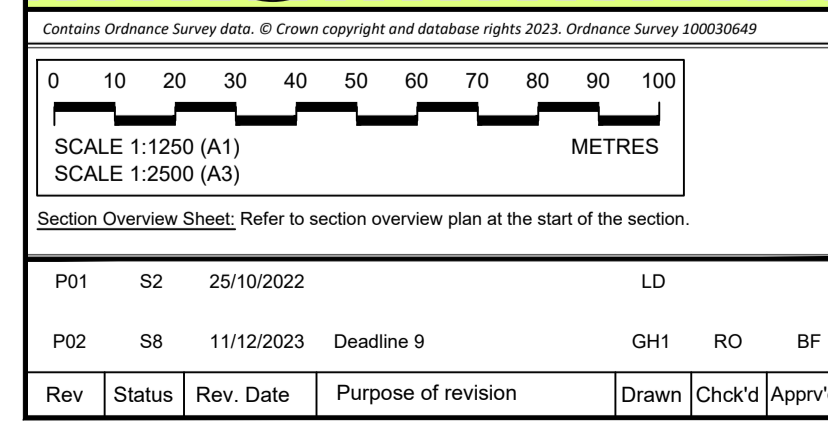
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Sh. S03#08

Sh. S03#02/07
Sh. S03#06

Sh. S03#02/07
Sh. S03#06

Sh. S03#07
Sh. S03#06

Sh. S03#07
Sh. S03#06



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)
	Grassland (LE 1)		LE 2.1 Woodland		Wetland Habitats (LE 6)
	Hedges (LE 4)		LE 2.2 Woodland Edge		Hard Landscape Features (LE 7)
	Earthworks		LE 2.11 Woodland With Non-Native Species		Ecological Habitats (LE 8)
	Noise (E 1)		LE 6.11 Water Bodies - Standing Water		Ecological (E 3)
	Water (E 2)		LE 6.2 Banks and Ditches		Ecological Fencing (inc. highway boundary fence)

	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)		E 3.2 Ecological Culvert
	E 2-FD Flood Defence (E 2-FD)		E 3.2 Ecological Fencing (inc. highway boundary fence)
	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species		E 3.2 Ecological Fencing (inc. highway boundary fence)
	E 3.2 Ecological Fencing (inc. highway boundary fence)		E 3.2 Ecological Fencing (inc. highway boundary fence)

Client:

Project: LOWER THAMES CROSSING

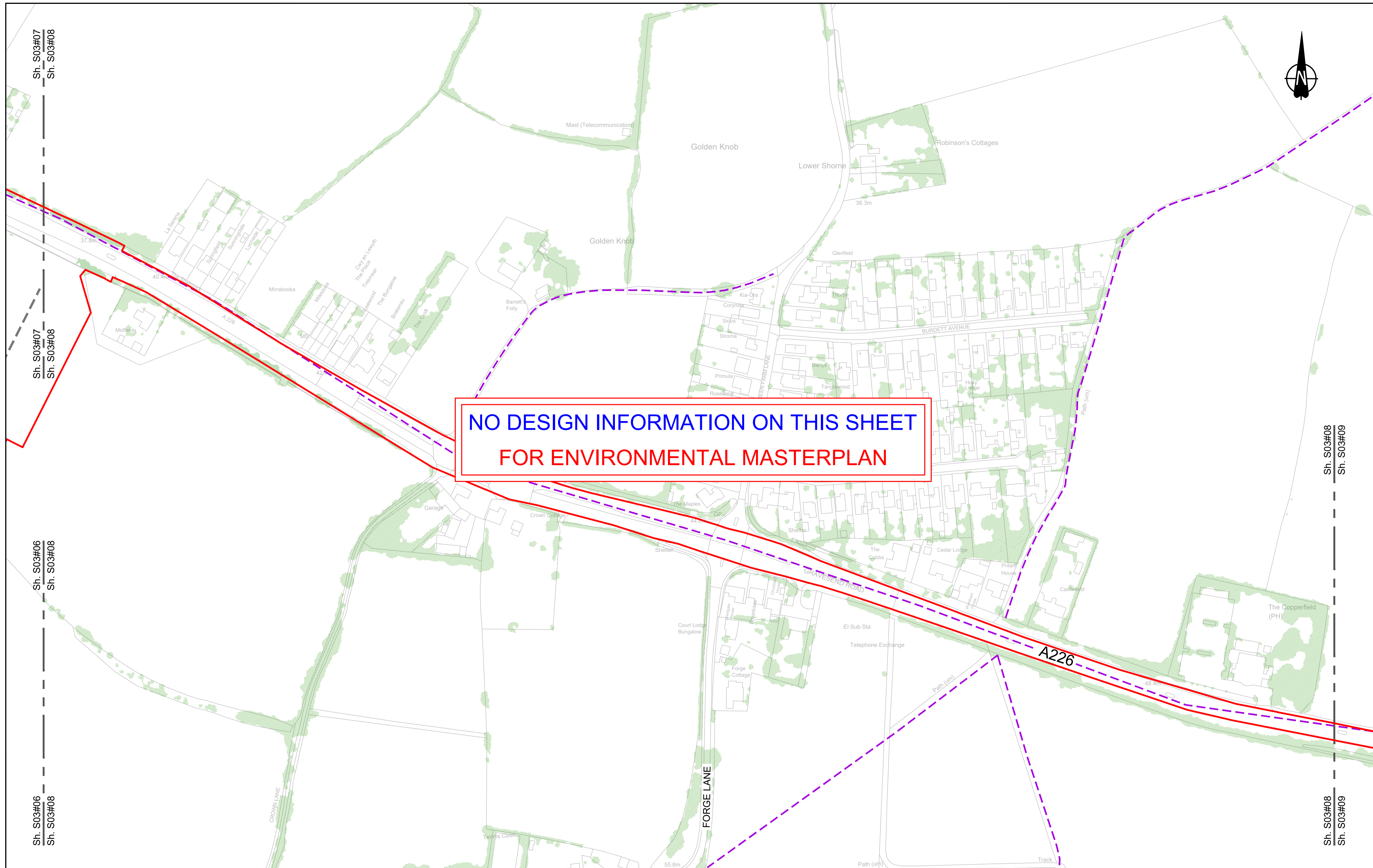
Status: DCO Examination

Application Document Number: TR010032/APP/6.2

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 7

Drawing Number: HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00008

Original Size: A1, Scale: 1:1250, Revision: P02



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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	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).

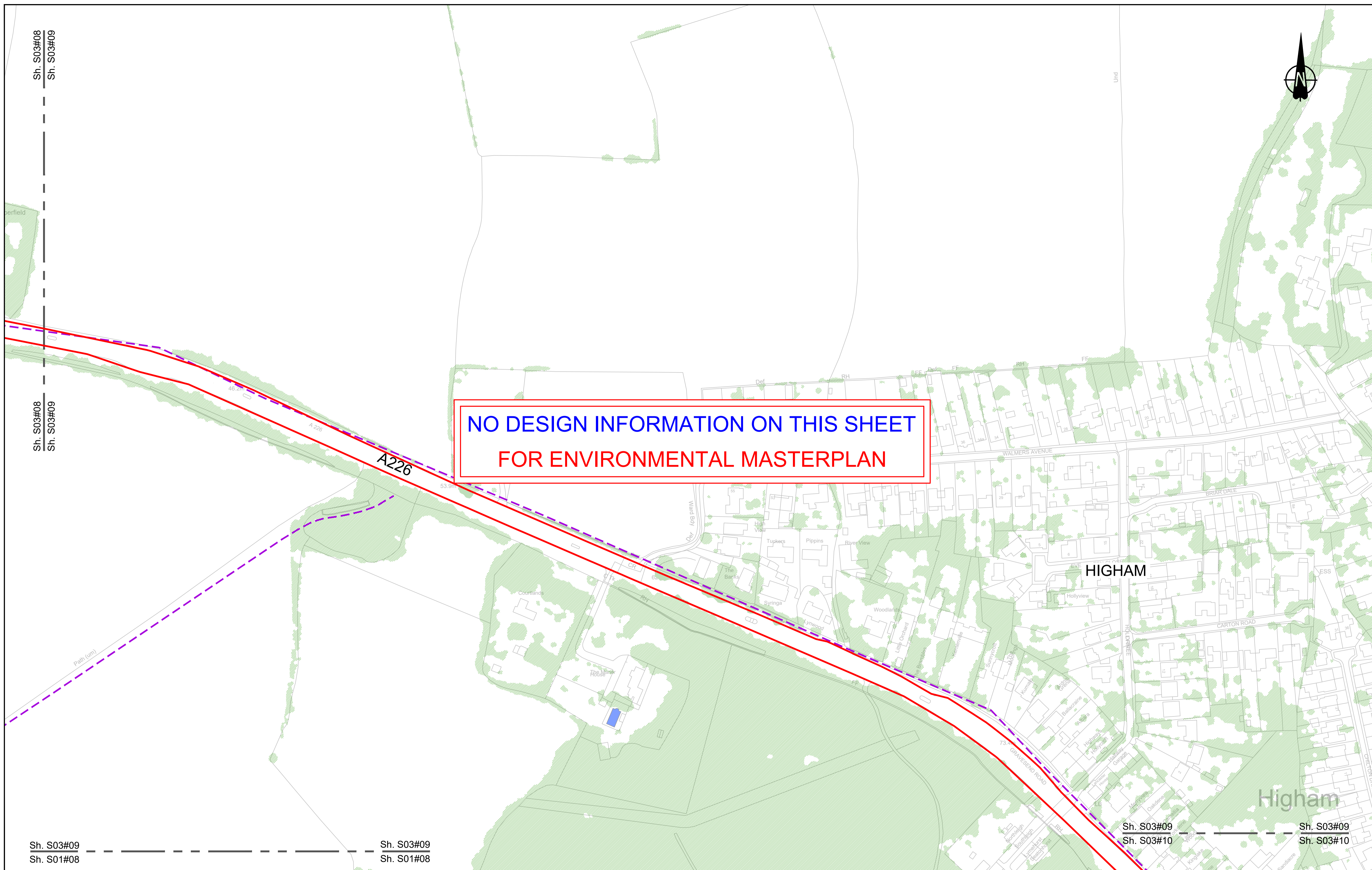
Order Limits	Planting (LE 2)	Individual Trees (LE 5)
Permanent Acquisition of Land	LE 2.1 Woodland	LE 5.1 Individual Trees
Grassland (LE 1)	LE 2.11 Woodland With Non-Native Species	Wetland Habitats (LE 6)
LE 1.3 Species Rich Grassland	LE 2.14 Wet / Carr Woodland	LE 6.11 Water Bodies - Standing Water
LE 1.31 Species Rich Chalk Grassland	LE 2.2 Woodland Edge	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.22 Scrub Woodland	LE 6.2 Banks and Ditches
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.21 Banks and Ditches - High Tide Root Features
	LE 2.5 Shrubs With Intermittent Trees	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh
	LE 2.7 Scattered Trees	Hard Landscape Features (LE 7)
	LE 2.8 Scrub / Scattered Scrub	LE 7.4 Reinforced Earth Bund
	Hedges (LE 4)	Earthworks
	LE 4.3 Native Species Hedge (untrimsed)	Proposed Contours
	LE 4.4 Native Hedgerow With Trees	

Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
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
LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Dormouse Boxes
LE 8.3 Woodland Mitigation Planting	Water (E 2)	E 3.2 Bat Boxes
LE 8.4 Wetland / Fenland Creation	Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Culvert
LE 8.5 Ecology Pond (indicative symbol only)	Flood Defence (E 2-FD)	E 3.2 Bat Barn Block
LE 8.6 Acid Grassland Soil Salvage		E 3.2 Barn Owl Box
		E 3.2 Ecological Fencing (inc. highway boundary fence)

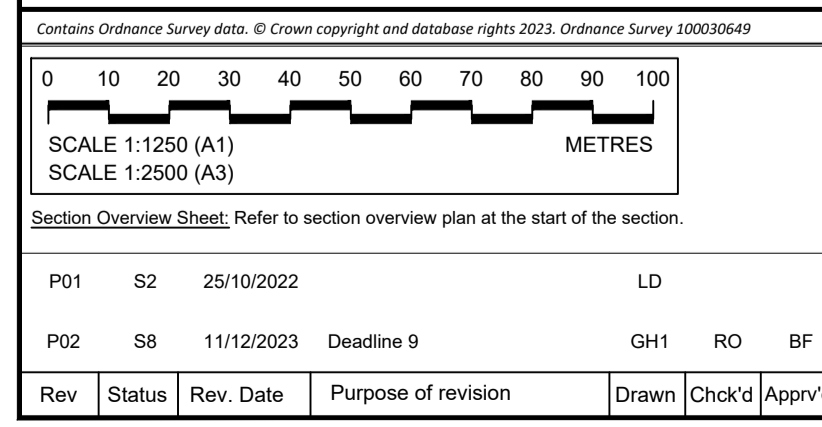
Client	
Project	LOWER THAMES CROSSING

Status	DCO Examination
Application Document Number	TR010032/APP/6.2
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 8
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00009

Original Size	A1
Revision	P02
Scale	1:1250
HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00009.dwg	



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FOR ENVIRONMENTAL MASTERPLAN



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)
Permanent Acquisition of Land	LE 2.1 Woodland
Grassland (LE 1)	LE 2.11 Woodland With Non-Native Species
LE 1.3 Species Rich Grassland	LE 2.14 Wet / Carr Woodland
LE 1.31 Species Rich Chalk Grassland	LE 2.2 Woodland Edge
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.22 Scrub Woodland
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees
Individual Trees (LE 5)	LE 2.5 Shrubs With Intermittent Trees
LE 5.1 Individual Trees	LE 2.7 Scattered Trees
Wetland Habitats (LE 6)	LE 2.8 Scrub / Scattered Scrub
LE 6.11 Water Bodies - Standing Water	Hedges (LE 4)
LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 4.3 Native Species Hedge (untrimmed)
LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 4.4 Native Hedgerow With Trees
LE 6.2 Banks and Ditches	Hard Landscape Features (LE 7)
LE 6.21 Banks and Ditches - High Tide Roost Features	LE 7.4 Reinforced Earth Bund
Earthworks	Ecological Habitats (LE 8)
Proposed Contours	LE 8.1 Open Mosaic Habitat
Ecological (E 3)	LE 8.2 Ancient Woodland Compensation Planting
E 3.2 Ecological Fencing (inc. highway boundary fence)	LE 8.3 Woodland Mitigation Planting
E 3.2 Ecological Culvert	LE 8.4 Wetland / Fenland Creation
E 3.2 Bat Block	LE 8.5 Ecology Pond (indicative symbol only)
E 3.2 Bat Barn Block	LE 8.6 Acid Grassland Soil Salvage
E 3.2 Ecological Fencing (inc. highway boundary fence)	Noise (E 1)
E 3.2 Ecological Fencing (inc. highway boundary fence)	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area
E 3.2 Ecological Fencing (inc. highway boundary fence)	Water (E 2)
E 3.2 Ecological Fencing (inc. highway boundary fence)	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)
E 3.2 Ecological Fencing (inc. highway boundary fence)	Flood Compensation Areas (E 2-FCA)
E 3.2 Ecological Fencing (inc. highway boundary fence)	Flood Defence (E 2-FD)

Sh. S03#09
Sh. S01#08

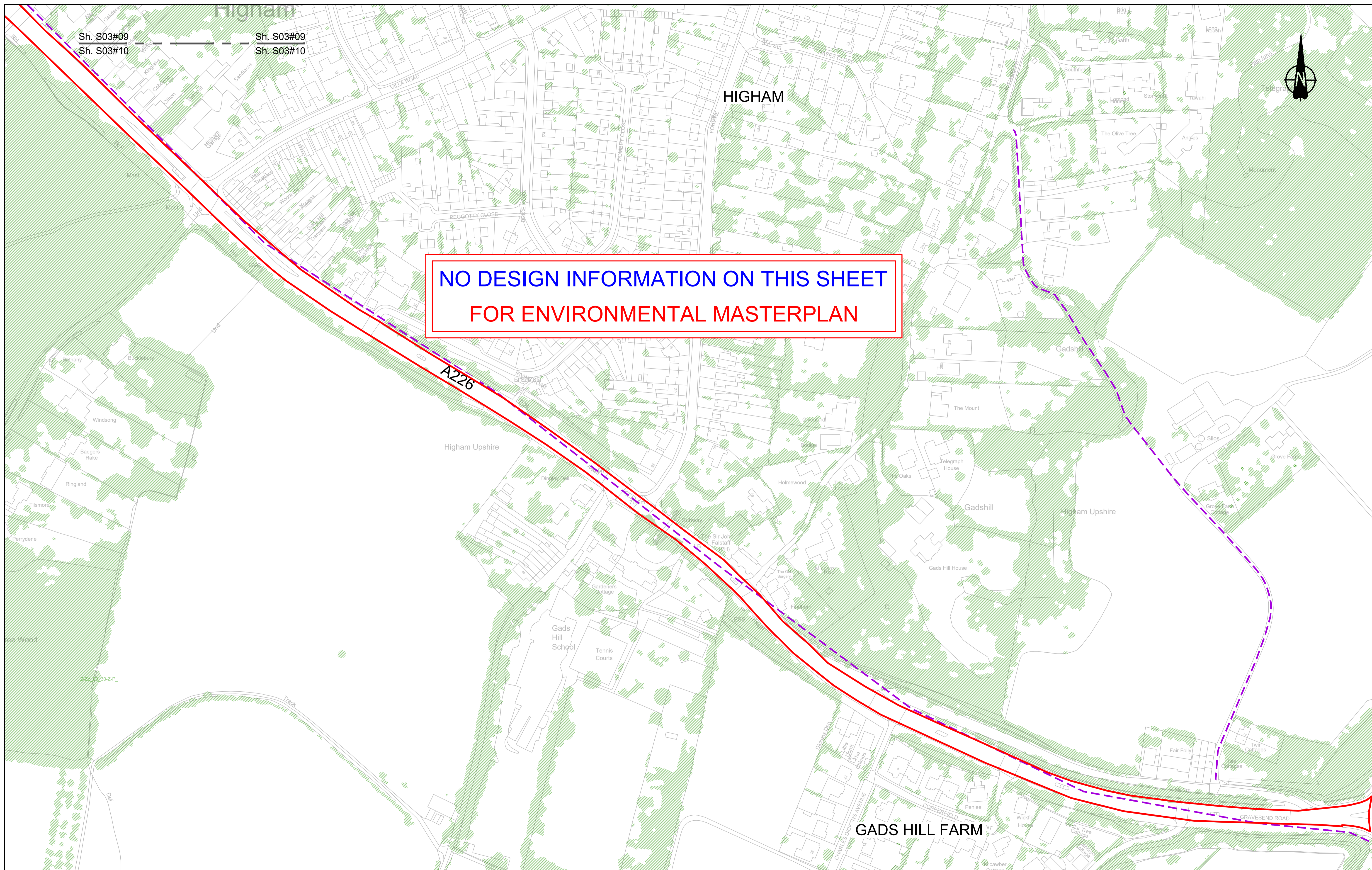
Sh. S03#09
Sh. S03#10

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 3 SHEET 9				
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00010				



NO DESIGN INFORMATION ON THIS SHEET
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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	LD
P02	S8	11/12/2023	Deadline 9
Rev	Status	Rev. Date	Purpose of revision
		Drawn	Chk'd
		Appr'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)
Permanent Acquisition of Land	LE 2.1 Woodland	LE 5.1 Individual Trees
Grassland (LE 1)	LE 2.11 Woodland With Non-Native Species	Wetland Habitats (LE 6)
LE 1.3 Species Rich Grassland	LE 2.14 Wet / Carr Woodland	LE 6.11 Water Bodies - Standing Water
LE 1.31 Species Rich Chalk Grassland	LE 2.2 Woodland Edge	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.22 Scrub Woodland	LE 6.2 Banks and Ditches
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.21 Banks and Ditches - High Tide Roost Features
	LE 2.5 Strubs With Intermittent Trees	LE 6.4 Wet Grassland
	LE 2.7 Scattered Trees	LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh
	LE 2.8 Scrub / Scattered Scrub	Hard Landscape Features (LE 7)
	Hedges (LE 4)	LE 7.4 Reinforced Earth Bund
	LE 4.3 Native Species Hedge (untrimmed)	Earthworks
	LE 4.4 Native Hedgerow With Trees	Proposed Contours

LE 8.1 Open Mosaic Habitat	Noise (E 1)	Ecological (E 3)
LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 8.3 Woodland Mitigation Planting	Water (E 2)	E 3.2 Dormouse Boxes
LE 8.4 Wetland / Fenland Creation	Flood Compensation Areas (E 2-FCAs)	E 3.2 Bat Boxes
LE 8.5 Ecology Pond (indicative symbol only)	Flood Defence (E 2-FD)	E 3.2 Ecological Culvert
LE 8.6 Acid Grassland Soil Salvage		E 3.2 Bat Barn Block
		E 3.2 Ecological Fencing (inc. highway boundary fence)
		E 3.2 Barn Owl Box

Client: national highways

Project: LOWER THAMES CROSSING

Status	DCO Examination	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P02
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 10		
Drawing Number	HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00011		

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