Lower Thames Crossing

6.2 Environmental Statement Figure 2.4 - Environmental Masterplan Section 9 (5 of 10) (Tracked changes version)

APFP Regulation 5(2)(a)

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

Volume 6

DATE: September 2023

DEADLINE: 4

Deleted: August

Deleted: 3

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

VERSION: 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	24 August 2023	Deadline 3
4.0	19 September 2023	Deadline 4

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Lower Thames Crossing

6.2 Environmental Statement
Figure 2.4 - Environmental Masterplan Section 9 (5 of 10)
(Tracked changes version)

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1.1 Schedule of Plans included in this application document.....1
1.2 Section 9 (Sheets 1-21).....2
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1.4 Environmental Masterplan Legend.....6
1.5 Section 9.....8

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1 Environmental Masterplan: Section 9

1.1 Schedule of Plans included in this application document

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1.2 Section 9 (Sheets 1-21)

Drawing Number and Title	Application Document Ref	Revision
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00001 - Section 9 Overview	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00002 - Section 9 Sheet 1	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00003 - Section 9 Sheet 2	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00004 - Section 9 Sheet 3	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00005 - Section 9 Sheet 4	TR010032/APP/6.2	P03
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00006 - Section 9 Sheet 5	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00007 - Section 9 Sheet 6	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00008 - Section 9 Sheet 7	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00009 - Section 9 Sheet 8	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00010 - Section 9 Sheet 9	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00011 - Section 9 Sheet 10	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00012 - Section 9 Sheet 11	TR010032/APP/6.2	P01.6

Deleted: 1.6

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Drawing Number and Title	Application Document Ref	Revision
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00013 - Section 9 Sheet 12	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00014 - Section 9 Sheet 13	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00015 - Section 9 Sheet 14	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00016 - Section 9 Sheet 15	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00017 - Section 9 Sheet 16	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00018 - Section 9 Sheet 17	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00019 - Section 9 Sheet 18	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00020 - Section 9 Sheet 19	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00021 - Section 9 Sheet 20	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00022 - Section 9 Sheet 21	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00023 - Section 9 Sheet 22	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00024 - Section 9 Sheet 23	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00025 - Section 9 Sheet 24	TR010032/APP/6.2	P01.2

Deleted: 1.6

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1.3 Scheme Overview

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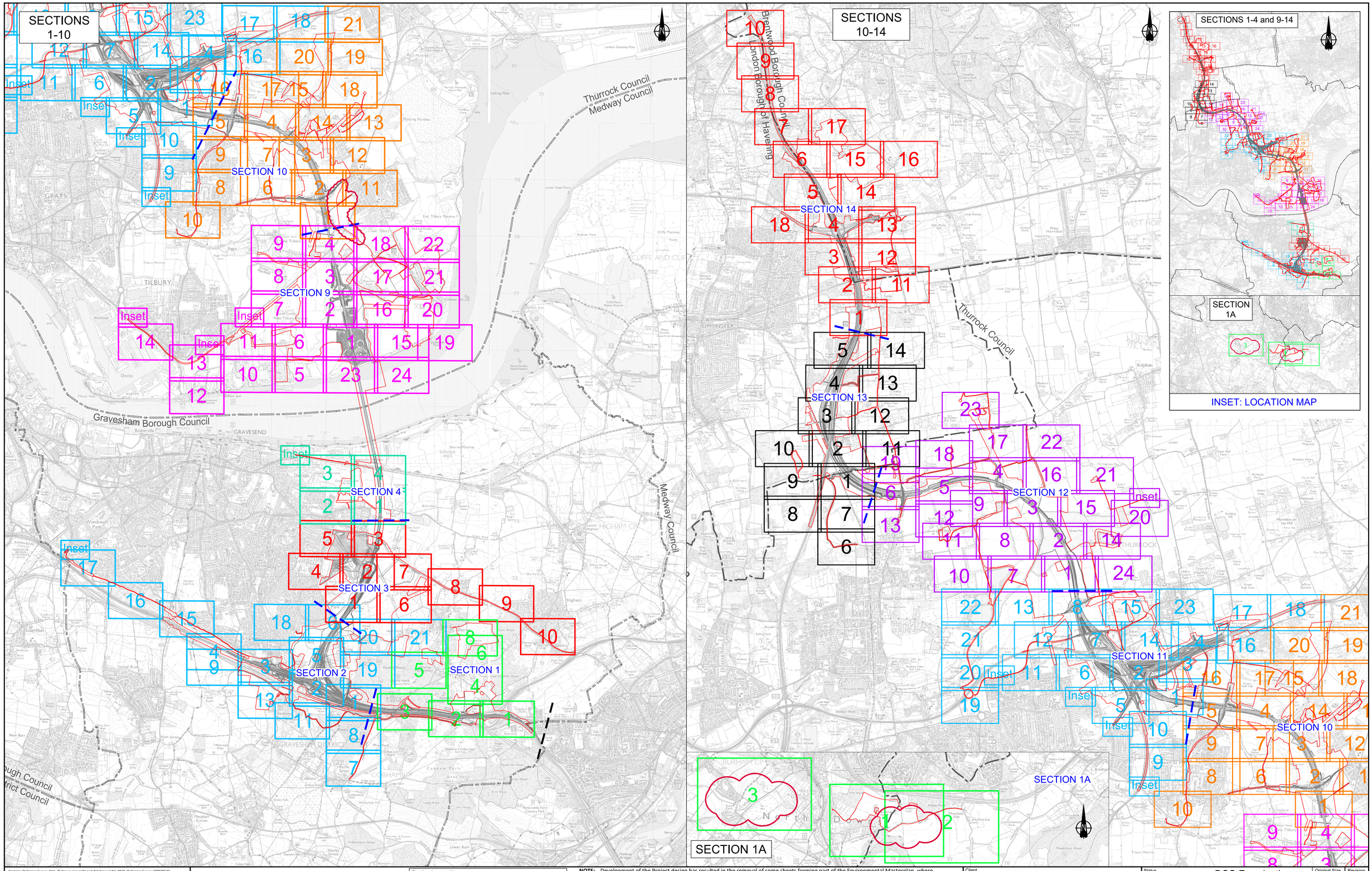

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S2	27/10/2022		LD		
P02	S8	19/09/2023	DEADLINE 4	GH1	RO	BF

0 200 400 600 800 1000 2400
SCALE 1:30000 (A1)
SCALE 1:60000 (A3)
METRES

- Approximate Highway Section Cutline
- Order Limits
- Section Break

Section Layout Key:

- Section S1 (Sheets 1 - 8)
- Section S1A (Sheets 1 - 3)
- Section S2 (Sheets 1 - 21)
- Section S3 (Sheets 1 -10)
- Section S4 (Sheets 1 - 4)
- Section S5 to S8: Project route in tunnel, therefore no Environmental Masterplan coverage
- Section S9 (Sheets 1 - 24)
- Section S10 (Sheets 1 - 21)
- Section S11 (Sheets 1 - 22)
- Section S12 (Sheets 1 - 24)
- Section S13 (Sheets 1 - 14)
- 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: national highways

Project: LOWER THAMES CROSSING

Status: DCO Examination
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P02
Scale: AS SHOWN

Drawing title: ENVIRONMENTAL MASTERPLAN SCHEME OVERVIEW

Drawing Number: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00002

HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00002.dwg

1.4 Environmental Masterplan Legend

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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 / Water Bodies
- 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

Hard Landscape Features (LE 7)

- 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
- DM — E 3.2 Ecological Protection Measures – Dormouse Boxes
- BB — E 3.2 Ecological Protection Measures – Bat / Bird Boxes
- EC — E 3.2 Ecological Protection Measures – Ecological Culvert
- BBr — 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

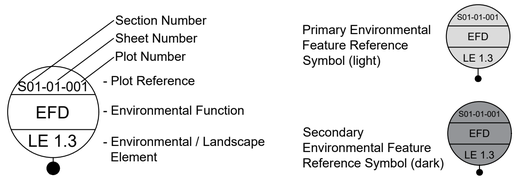
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed 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	EFF	Heritage
EFB	Landscape Integration	EFG	Auditory Amenity
EFC	Enhancing the Built Environment	EFH	Water Quality
EFD	Nature Conservation and Biodiversity	EFJ	Agricultural / Highway Boundary
EFE	Visual Amenity	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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Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	27/03/2022				

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Original Size: A1

Revision: P01.6

Application Document Number: TR010032/APP/6.2

Scale:

Drawing title: ENVIRONMENTAL MASTERPLAN LEGEND

Drawing Number: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001

HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001.dwg

1.5 Section 9

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Chadwell St Mary

A1089

East Tilbury

SECTION 10

9 4 18 22

8 3 17 21

7 2 16 20

Inset

Inset

Tilbury

Inset

14 11 6 1 15 19

13 10 5 23 24

12

SECTION 4

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0 50 100 150 200 250 300 350 400 450 500 METRES

SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S2	27/10/2022	DCO Application	SA	PS	MH
P02	S8	19/09/2023	Deadline 4	LD	SK	BF

LEGEND

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

Original Size: A1

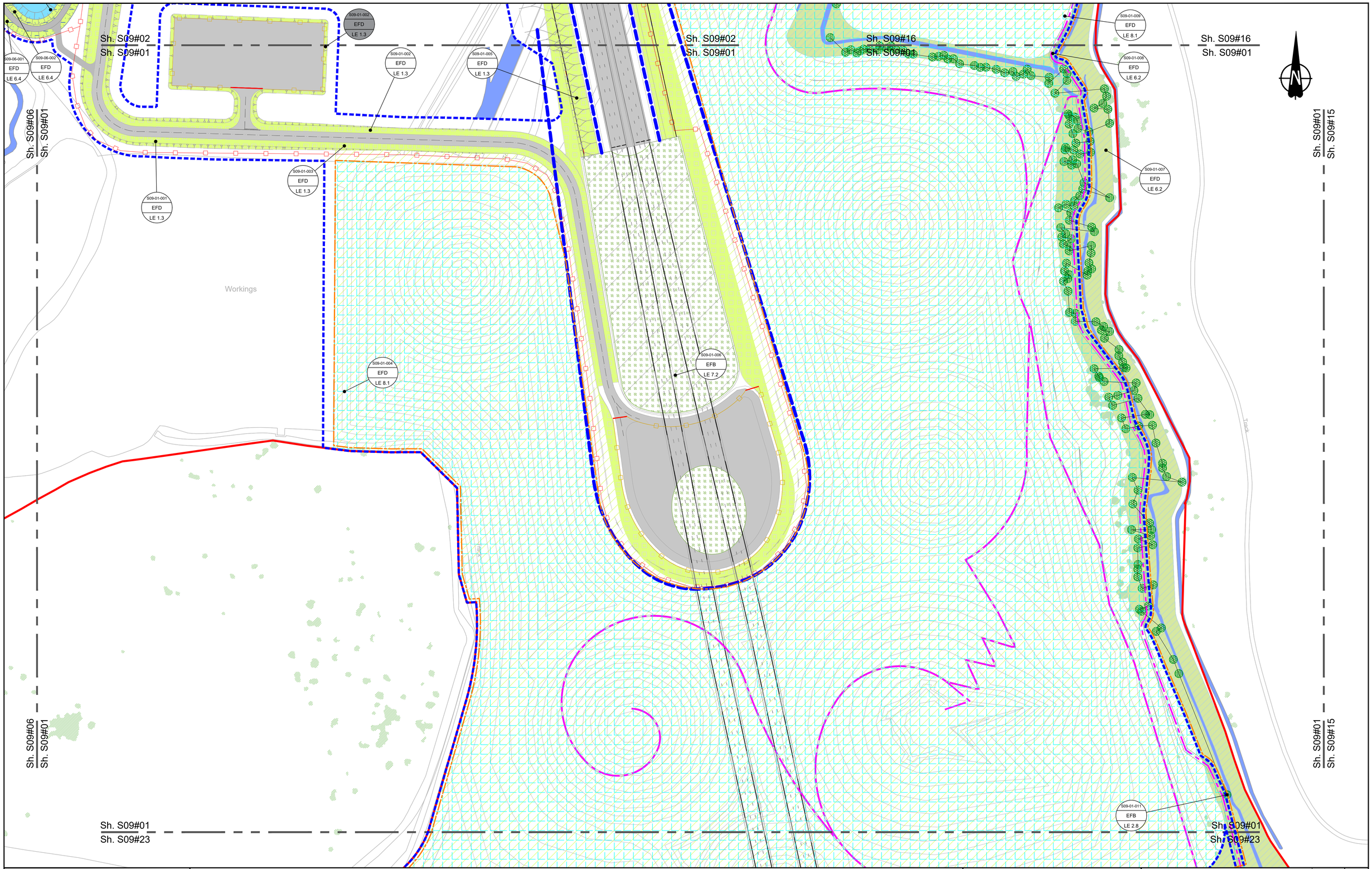
Revision: P02

Scale: AS SHOWN

Drawing title: ENVIRONMENTAL MASTERPLAN OVERVIEW PLAN SECTION 9

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00001

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00001.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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S2	25/10/2022	DCO Application	SA	PS	MH
P02	S9	19/07/2023	Deadline 2	LD	SK	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)
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: PINS Submission
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P02
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 1

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00002

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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	Chck'd	Apprv'd
P01	S2	27/10/2022	DCO Application	SA	PS	MH
P02	S9	19/07/2023	Deadline 2	LD	SK	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)
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

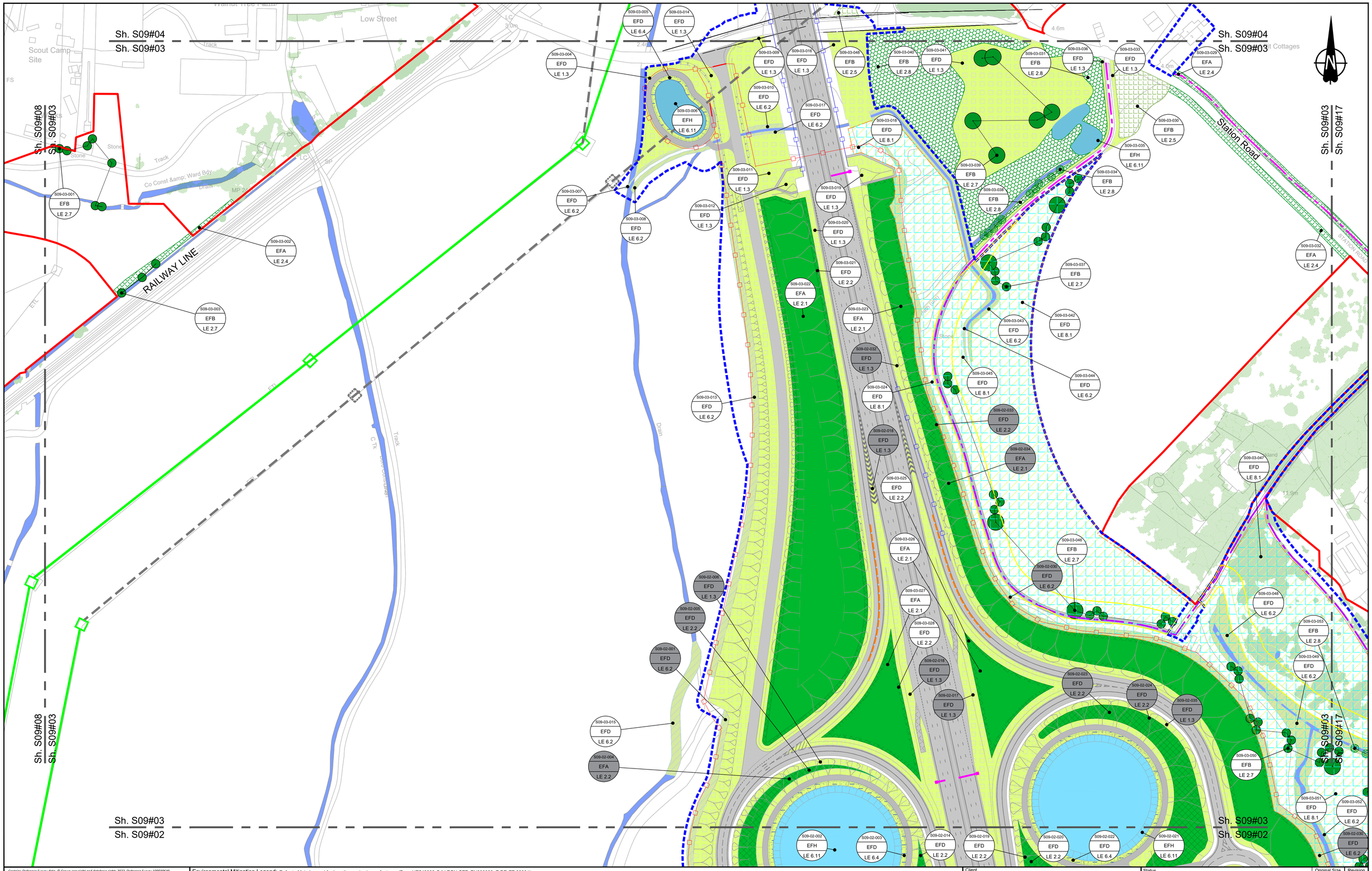
Project: LOWER THAMES CROSSING

Status: PINS Submission
Original Size: A1
Revision: P02
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 2

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00003

HE540039-CJV-EGN-S09_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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S9	24/08/2023	Deadline 3	LD	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)
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO EXAMINATION
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P02
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 3

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00004

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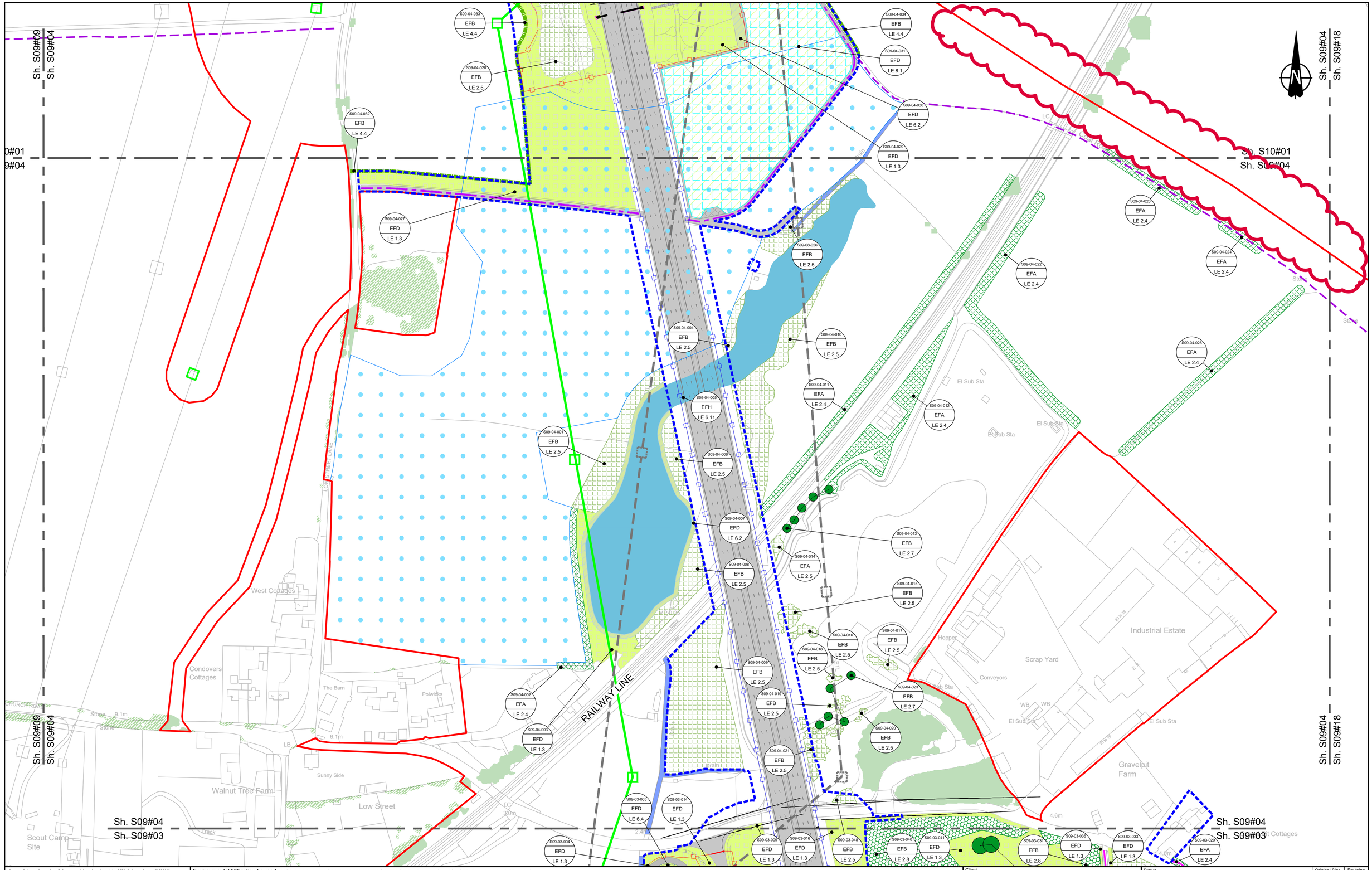

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0 10 20 30 40 50 60 70 80 90 100 METRES
SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S8	24/08/2023	Deadline 3	LD	RO	BF
P03	S8	19/09/2023	Deadline 4	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)
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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
- DM E 3.2 Dormouse Boxes
- BB E 3.2 Bat Boxes
- EC E 3.2 Ecological Culvert
- BBr E 3.2 Bat Barn Block
- E 3.2 Barn Owl Box
- E 3.2 Ecological Fencing (inc. highway boundary fence)

Client: national highways

Project: LOWER THAMES CROSSING

Status: DCO Examination
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P03
Scale: AS SHOWN

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 4

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00005

HE540039-CJV-EGN-S09_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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	27/07/2022				

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Original Size: A1

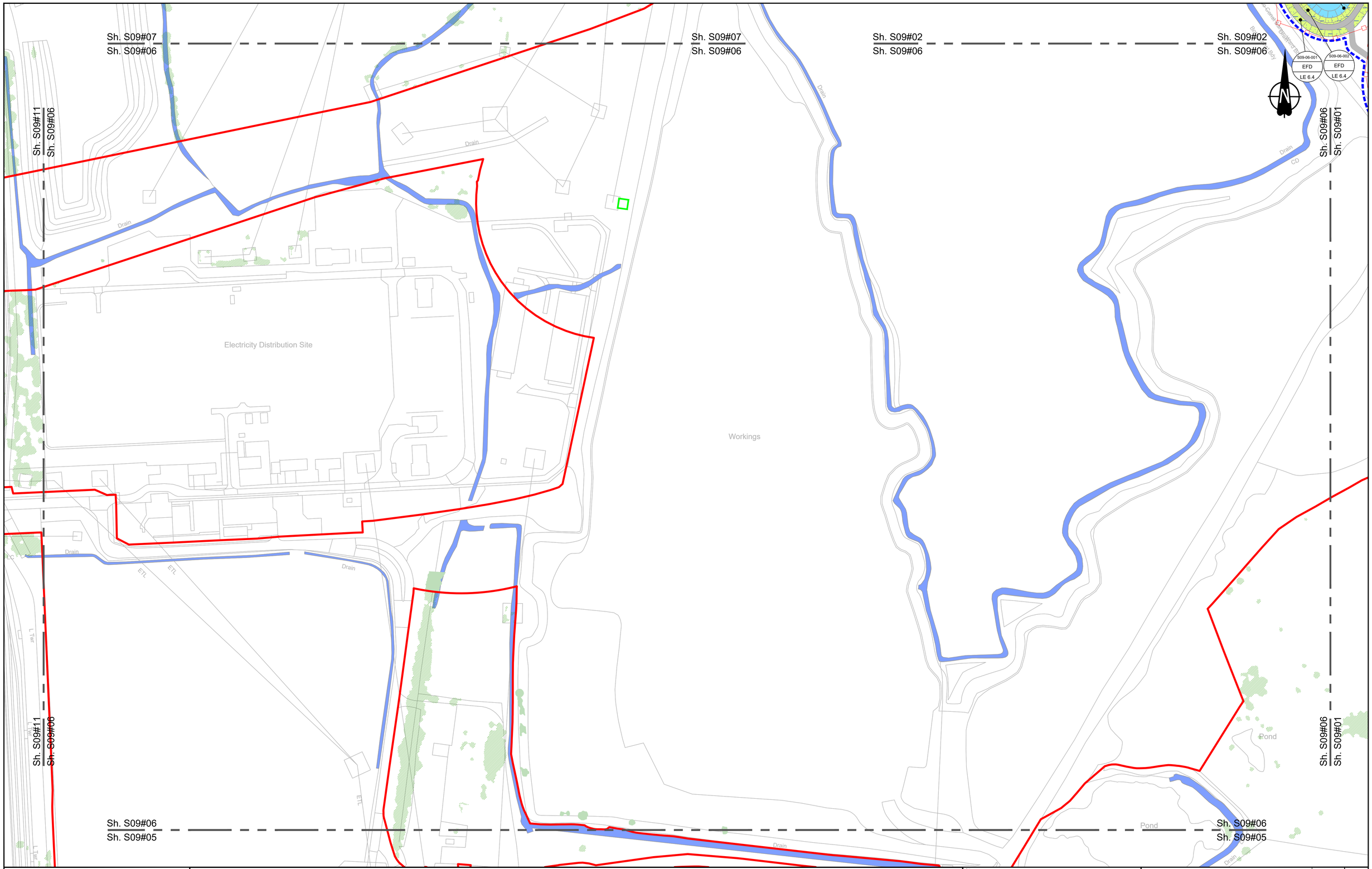
Revision: P01.6

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 5

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00006



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SCALE 1:1250 (A1) METRES
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	Chck'd	Apprv'd
P01.6	S0	08/08/2022				LD

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

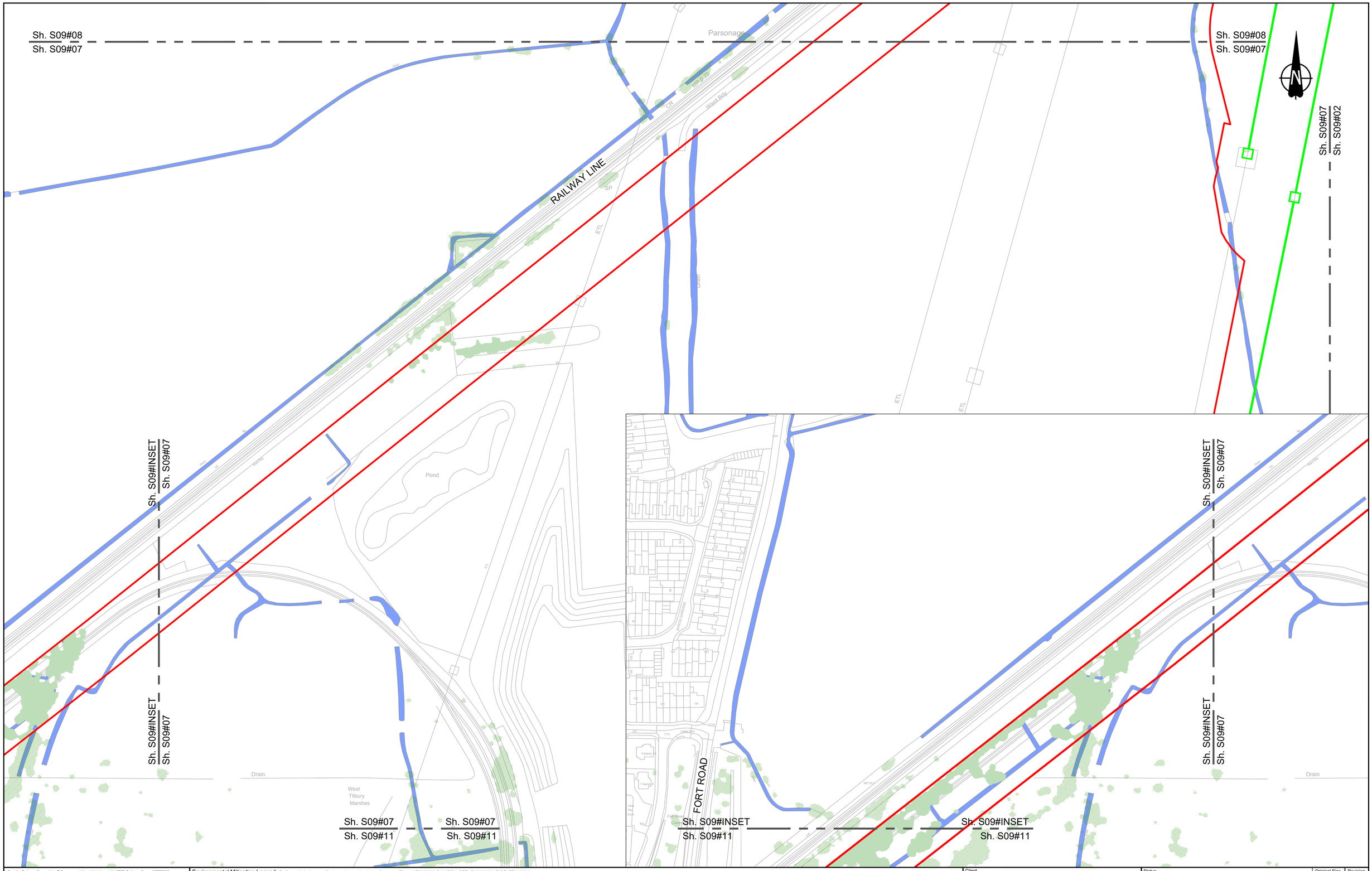
Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Original Size: A1
Revision: P01.6
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 6

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00007



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METRES
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	Chck'd	Apprv'd
P01.6	S0	28/07/2022				

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Original Size: A1
Revision: P01.6
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 7

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00008

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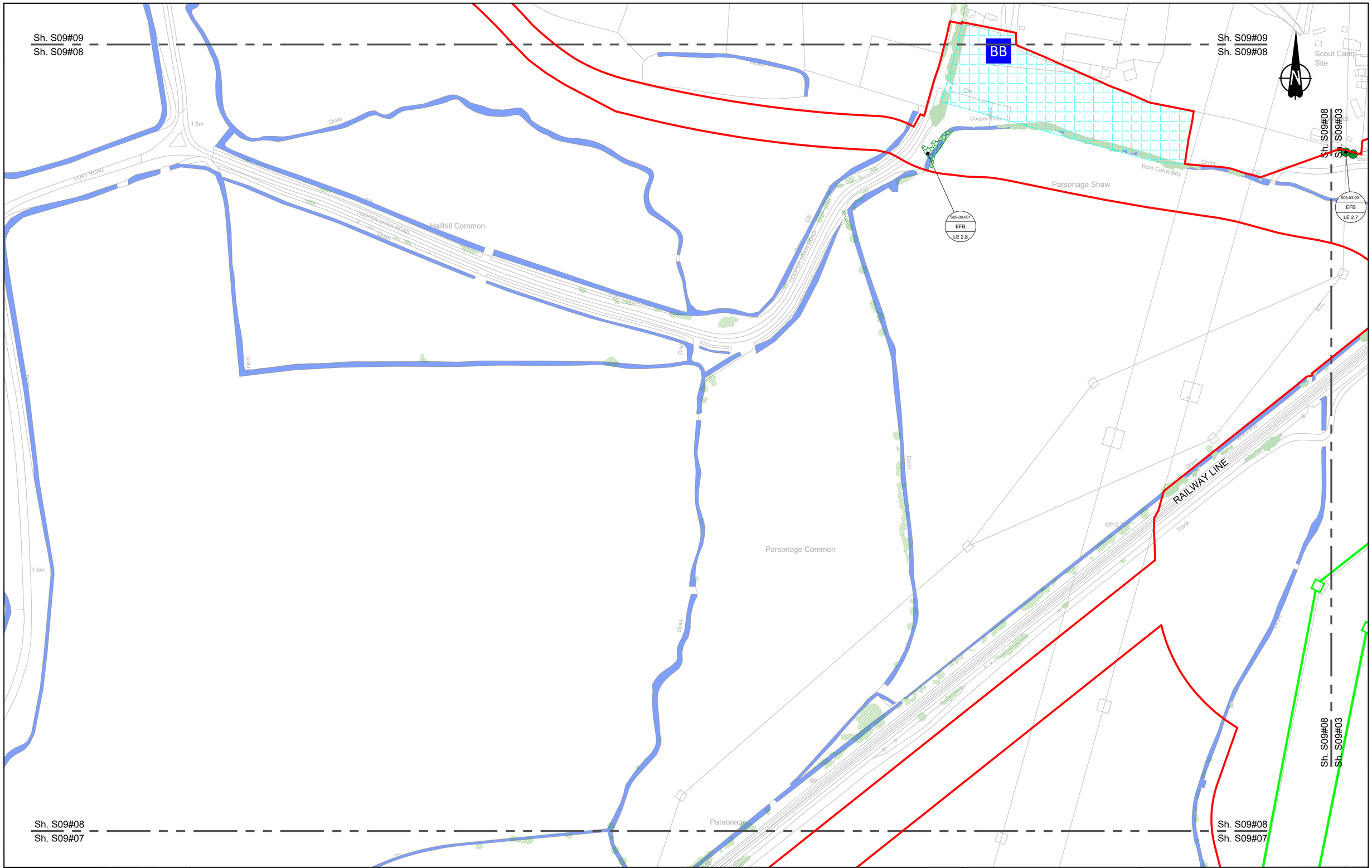

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SCALE 1:1250 (A1) METRES
SCALE 1:2500 (A3)

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P02	S9	24/08/2023	Deadline 3	LD	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)
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

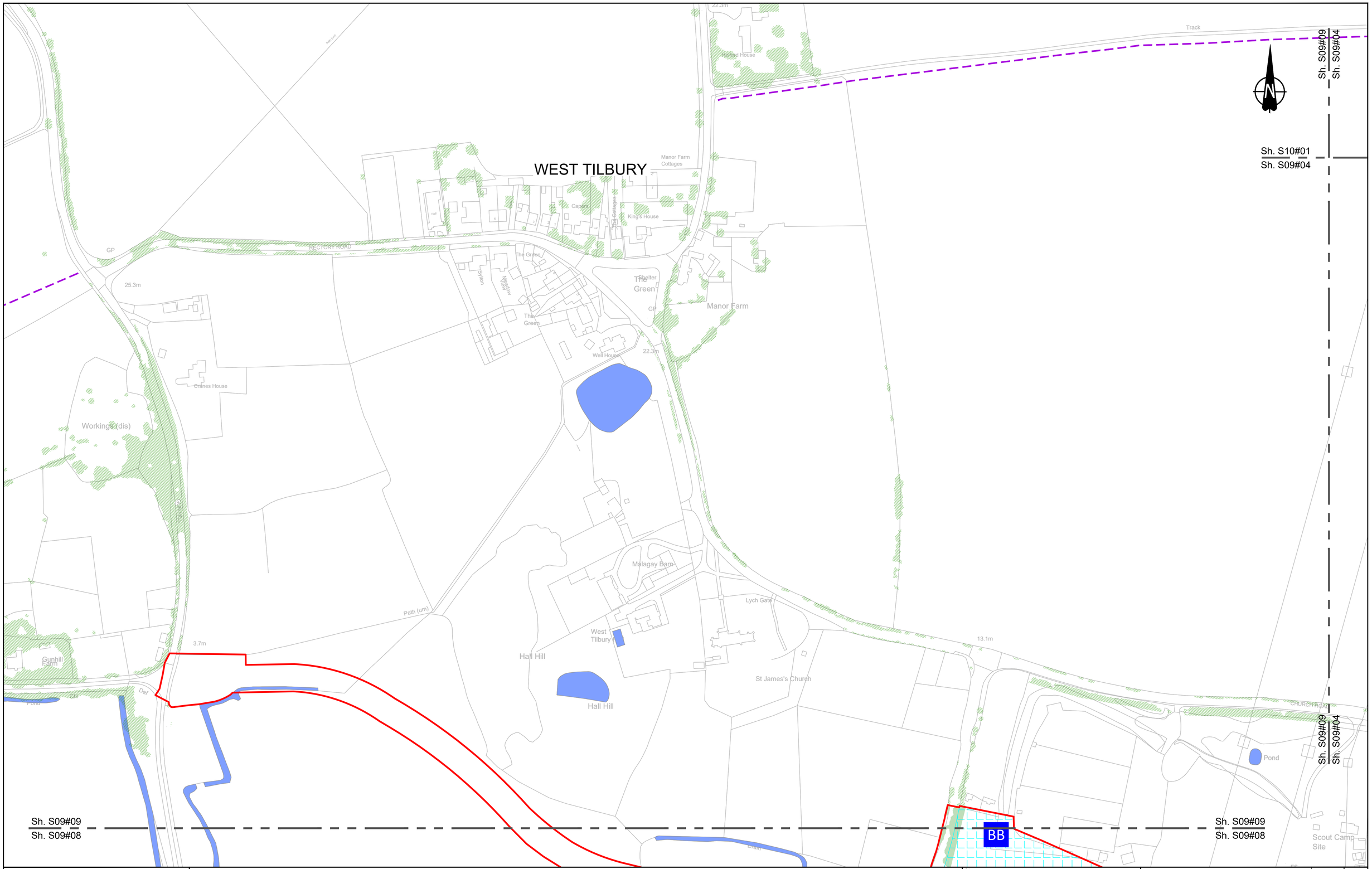
Client: national highways

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 9 SHEET 8

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00009



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0 10 20 30 40 50 60 70 80 90 100

SCALE 1:1250 (A1) METRES
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	Chck'd	Apprv'd
P01.6	S0	28/07/2022				

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Original Size: A1

Revision: P01.6

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 9

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00010

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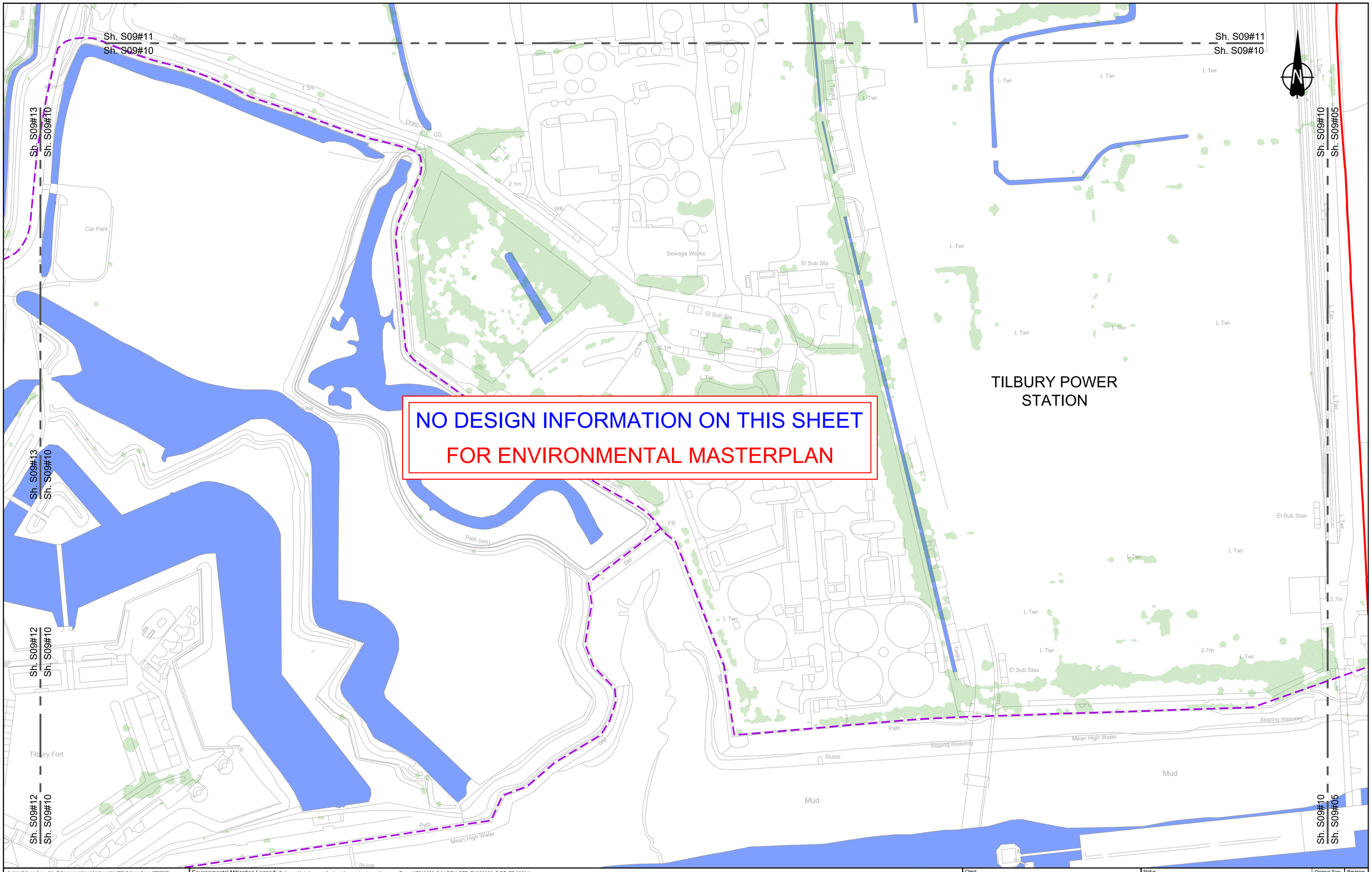

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SCALE 1:2500 (A3)

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	28/07/2022				

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P01.6
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 10

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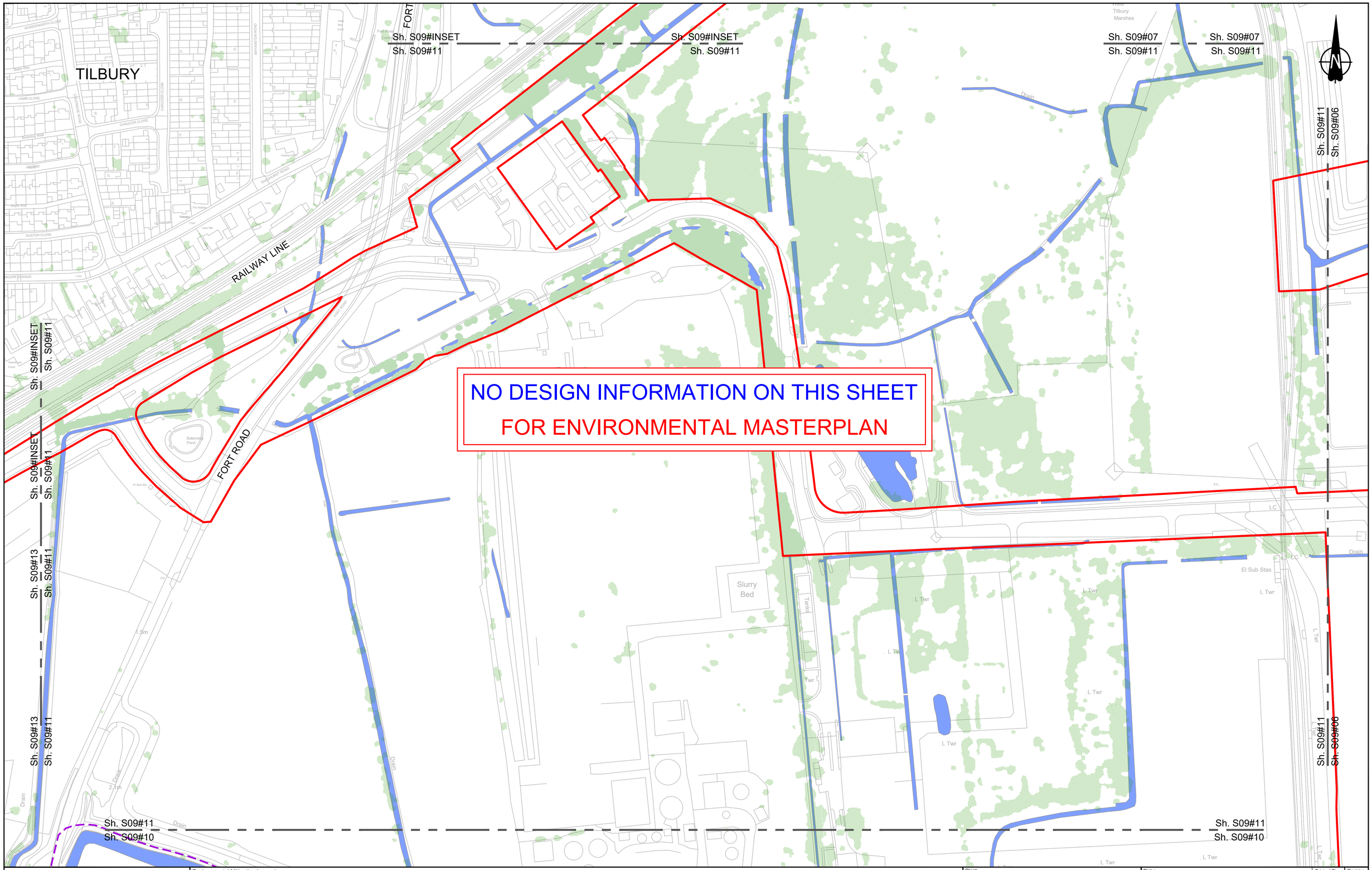

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	28/07/2022				

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

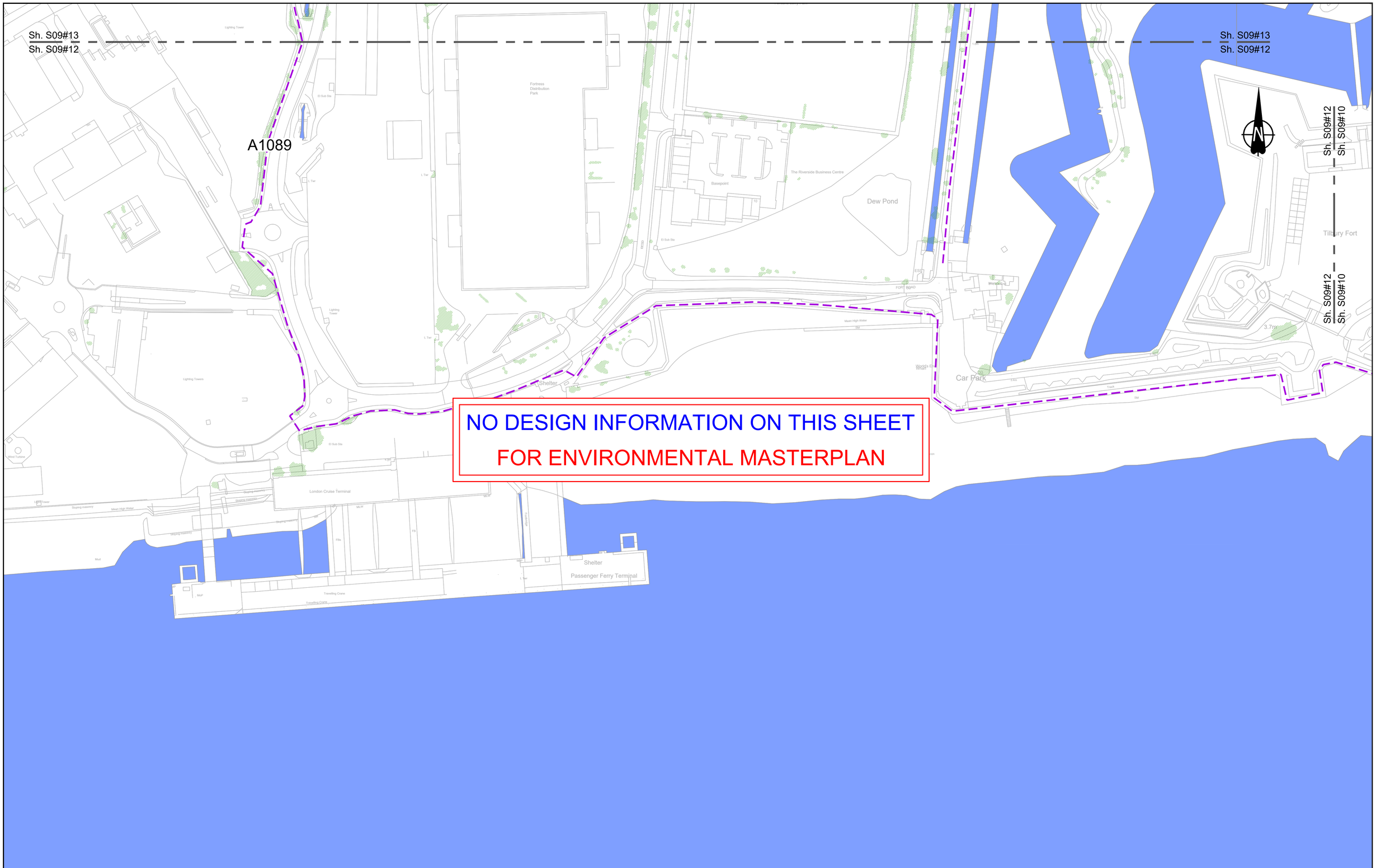
Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P01.6
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN
SECTION 9
SHEET 11

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00012

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00012.dwg



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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	Chck'd	Apprv'd
P01.6	S0	28/07/2022				

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P01.6
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 12

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00013

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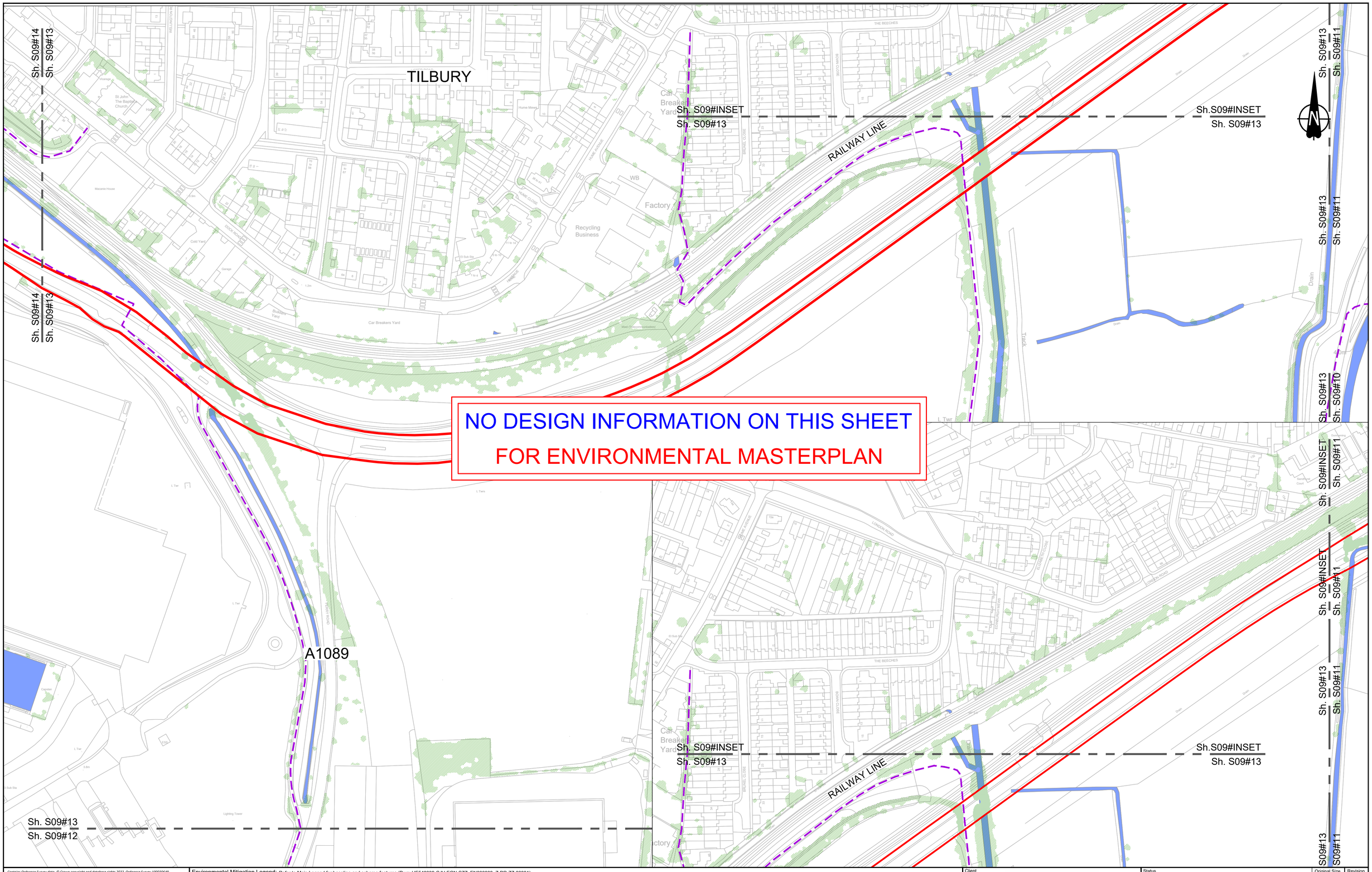

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

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

P01.6 S0 28/07/2022

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'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

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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Original Size: A1
Revision: P01.6
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 13

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00014

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00014.dwg

Sh. S09#INSET
Sh. S09#14

Sh.S09#INSET
Sh. S09#14

A1089

TILBURY

NO DESIGN INFORMATION ON THIS SHEET
FOR ENVIRONMENTAL MASTERPLAN

RAILWAY LINE

INSET PLAN

Sh. S09#14
Sh. S09#13

Sh. S09#INSET
Sh. S09#14

Sh.S09#INSET
Sh. S09#14

A1089

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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	Chck'd	Apprv'd
P01.6	S0	28/07/2022				

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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
- DM E 3.2 Dormouse Boxes
- BB E 3.2 Bat Boxes
- EC E 3.2 Ecological Culvert
- BBB E 3.2 Bat Barn Block
- OB E 3.2 Barn Owl Box
- E 3.2 Ecological Fencing (inc. highway boundary fence)

Client
national highways

Project
LOWER THAMES CROSSING

Status: Initial Status or WIP
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P01.6
Scale: 1:1250

Drawing title
ENVIRONMENTAL MASTERPLAN
SECTION 9
SHEET 14

Drawing Number
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00015

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00015.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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	08/08/2022				LD

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

Original Size: A1

Revision: P01.6

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 15

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00016

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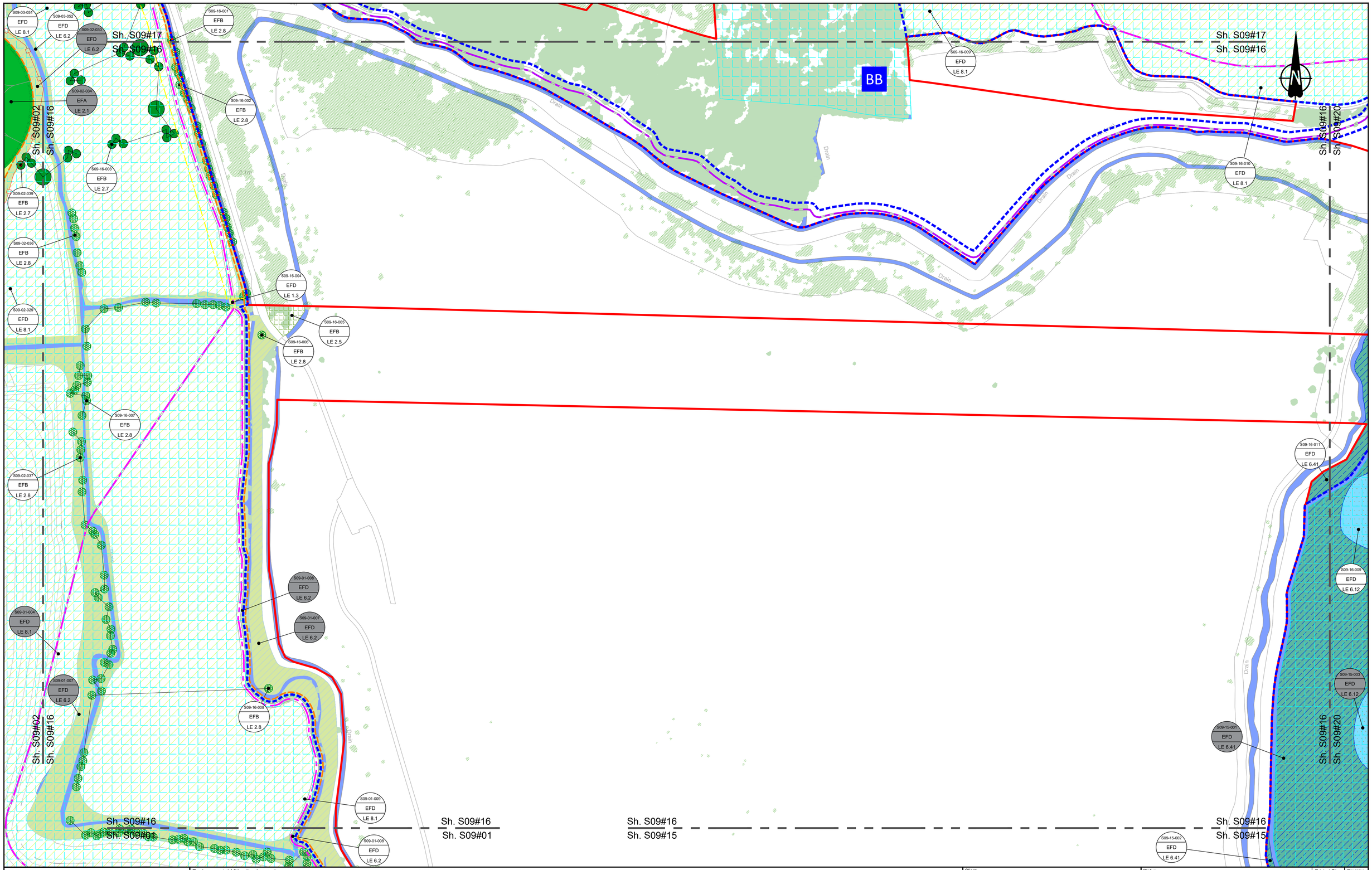

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	08/08/2022			LD	

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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
- DM E 3.2 Dormouse Boxes
- BB E 3.2 Bat Boxes
- EC E 3.2 Ecological Culvert
- BBB E 3.2 Bat Barn Block
- BB E 3.2 Barn Owl Box
- E 3.2 Ecological Fencing (inc. highway boundary fence)

Client: national highways

Project: LOWER THAMES CROSSING

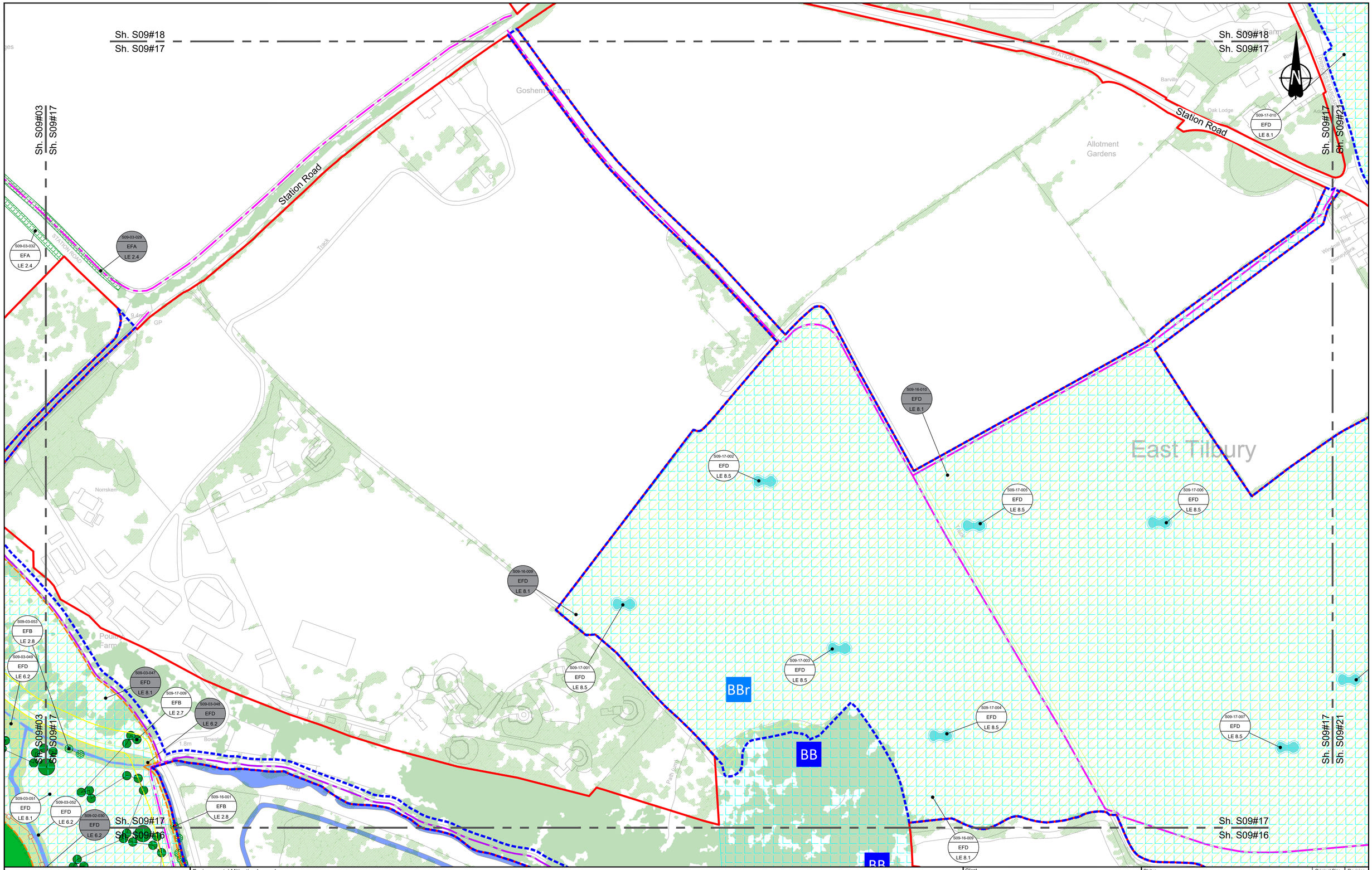
Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

Original Size: A1 | Revision: P01.6 | Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 16

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00017



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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	Chck'd	Apprv'd
P01.6	S0	08/08/2022				LD

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P01.6
Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 17

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00018

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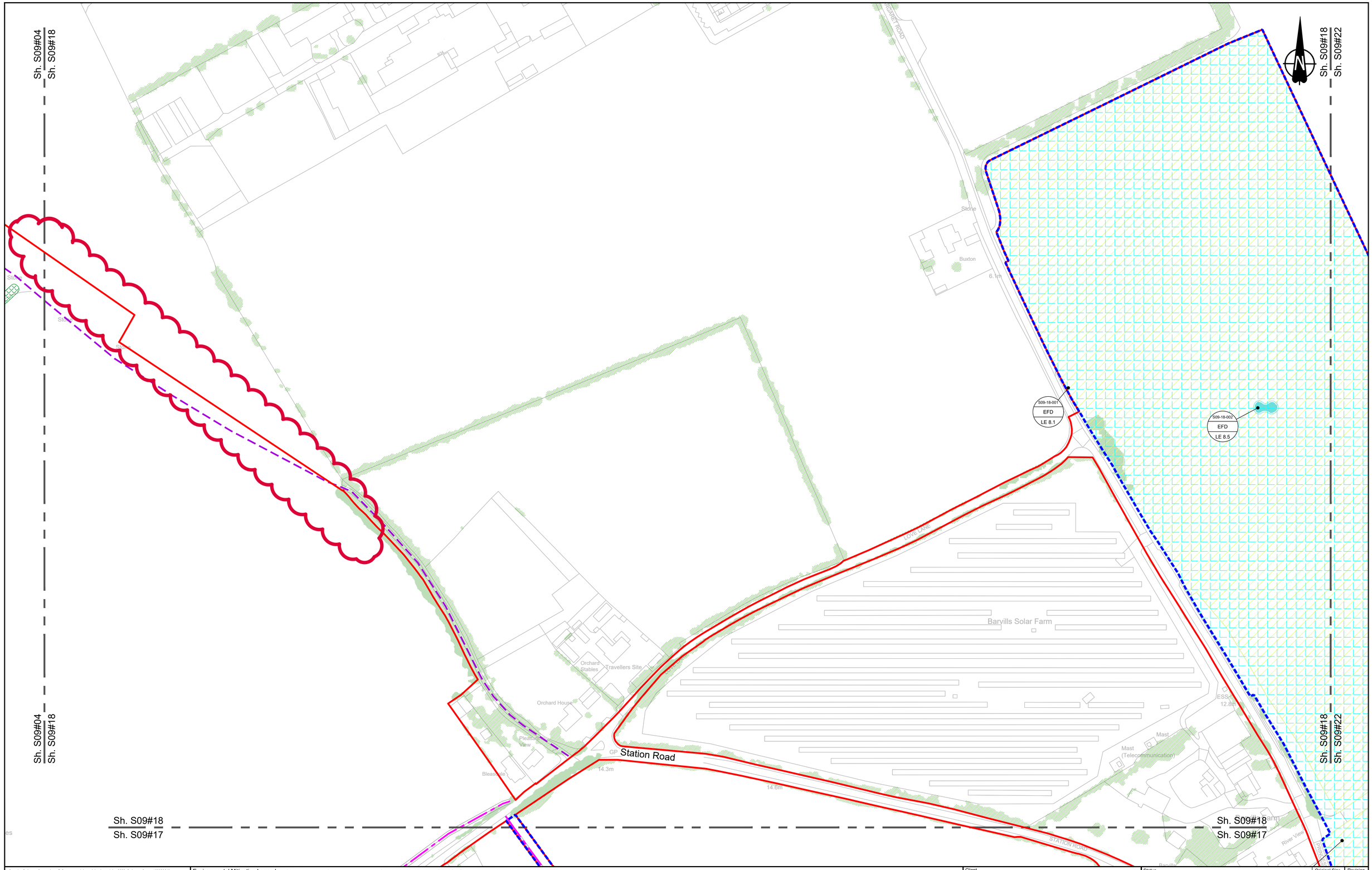

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0 10 20 30 40 50 60 70 80 90 100 METRES

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

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01	S2	25/10/2022		LD		
P02	S8	19/09/2023	Deadline 4	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)
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

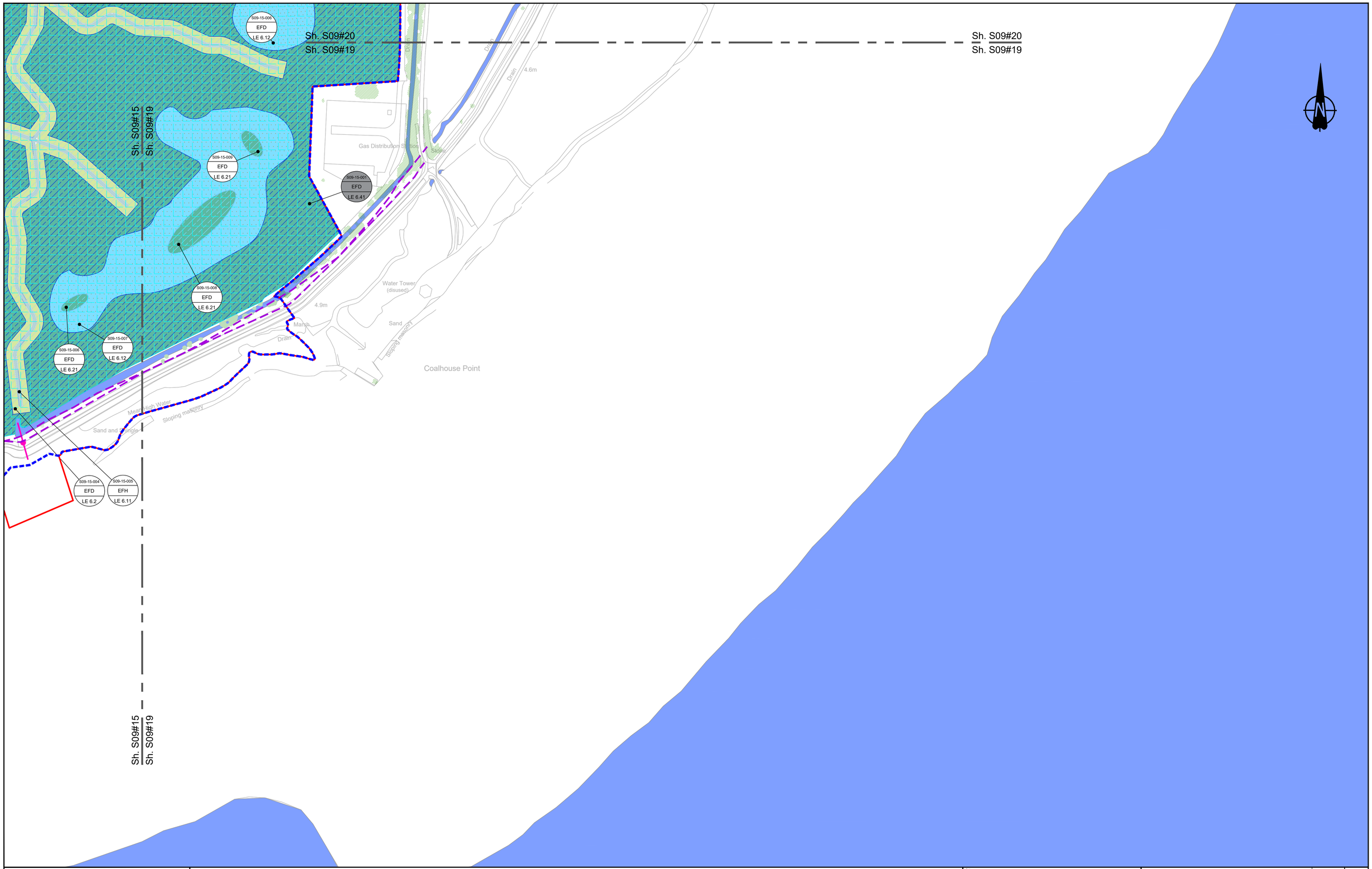
Project: LOWER THAMES CROSSING

Status: DCO Examination
Application Document Number: TR010032/APP/6.2
Original Size: A1
Revision: P02
Scale: AS SHOWN

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 18

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00019

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00019.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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	08/08/2022			LD	

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

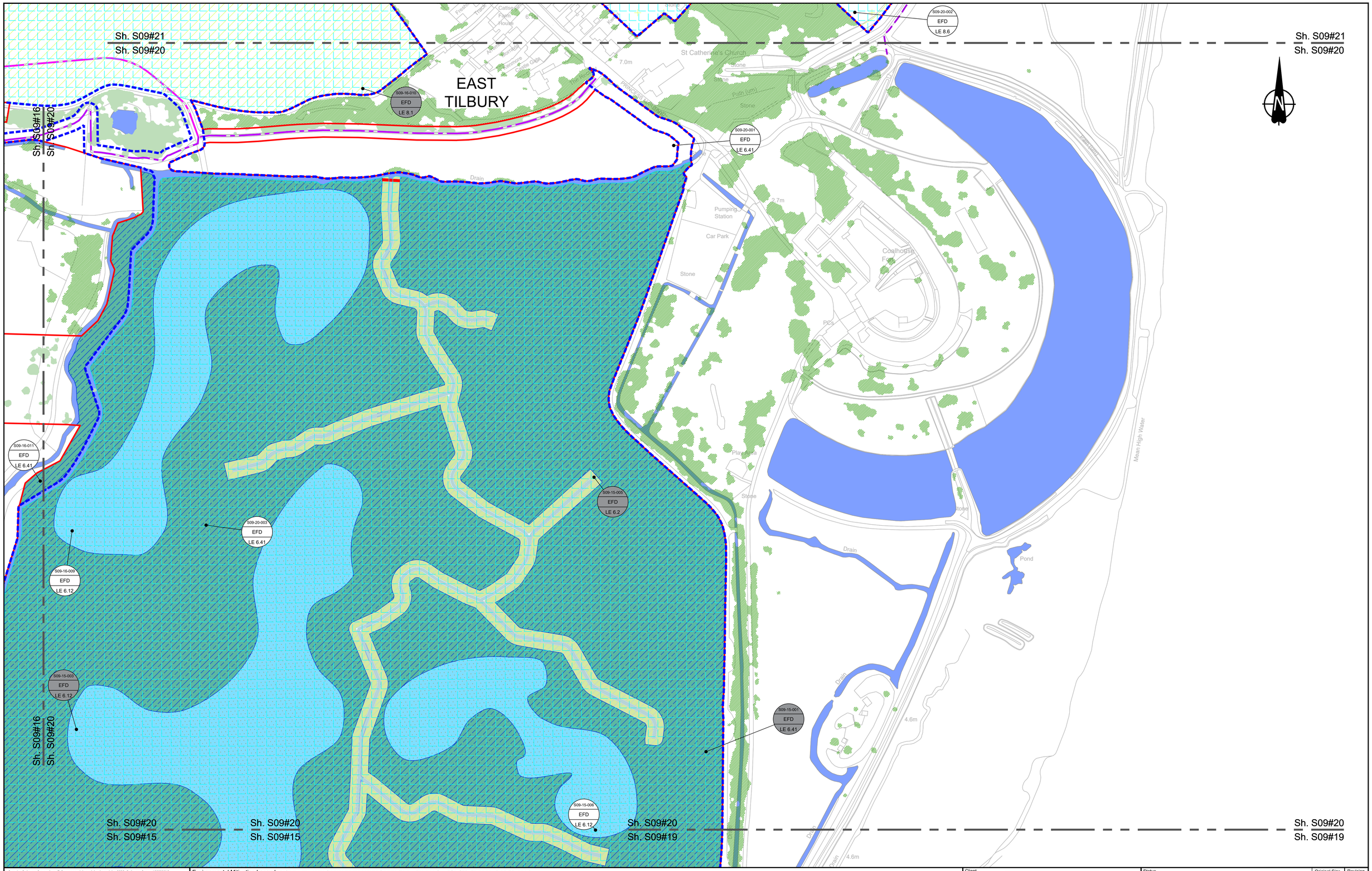
Original Size: A1

Revision: P01.6

Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 19

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00020



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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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	08/08/2022			LD	

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Original Size: A1
Revision: P01.6
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 20

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00021

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

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	08/08/2022		LD		

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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
- DM E 3.2 Dormouse Boxes
- BB E 3.2 Bat Boxes
- EC E 3.2 Ecological Culvert
- BBr E 3.2 Bat Barn Block
- OB E 3.2 Barn Owl Box
- E 3.2 Ecological Fencing (inc. highway boundary fence)

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Original Size: A1

Revision: P01.6

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 21

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00022

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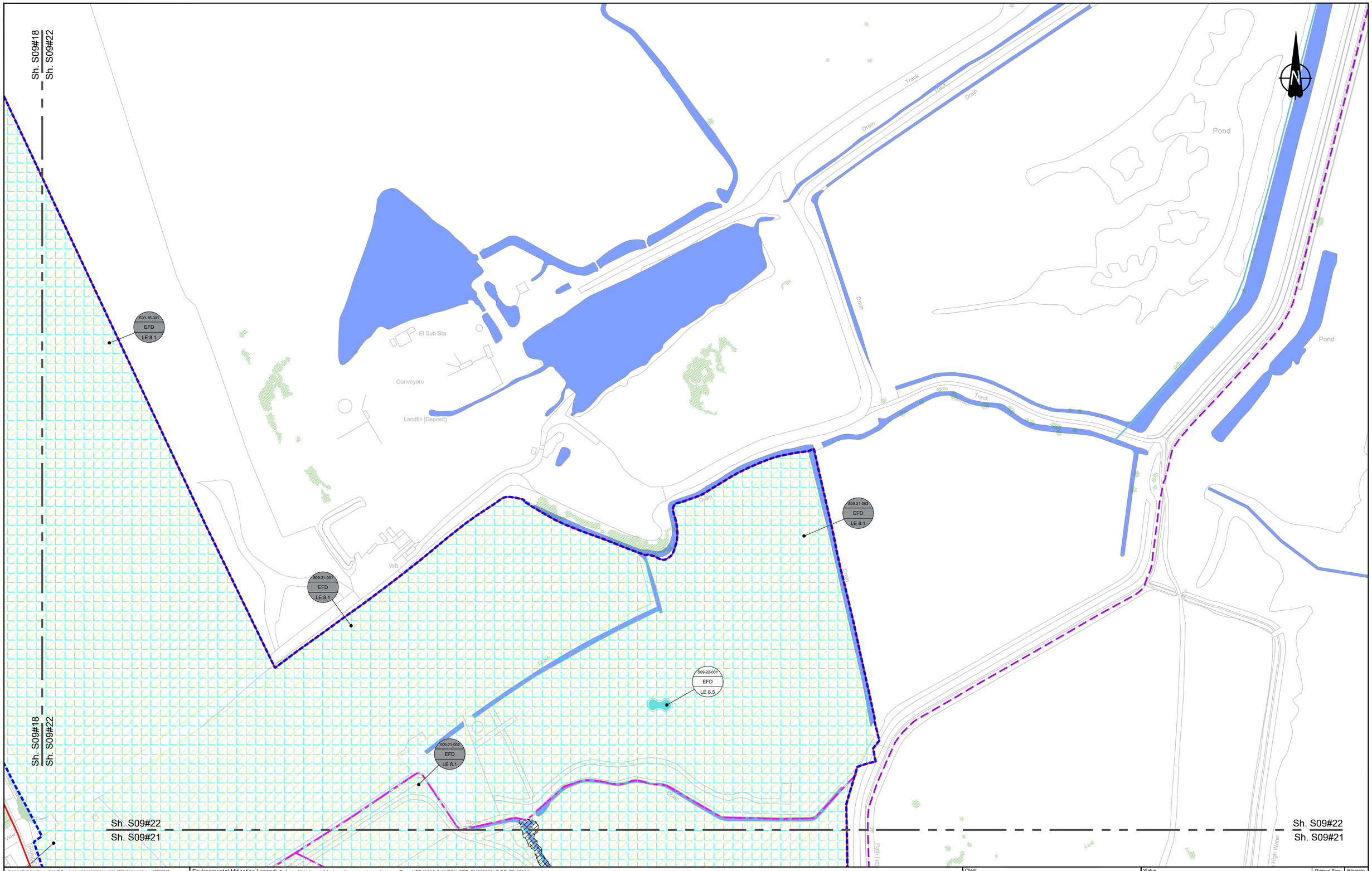

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0 10 20 30 40 50 60 70 80 90 100 METRES

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

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	08/08/2022			LD	

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

Original Size: A1

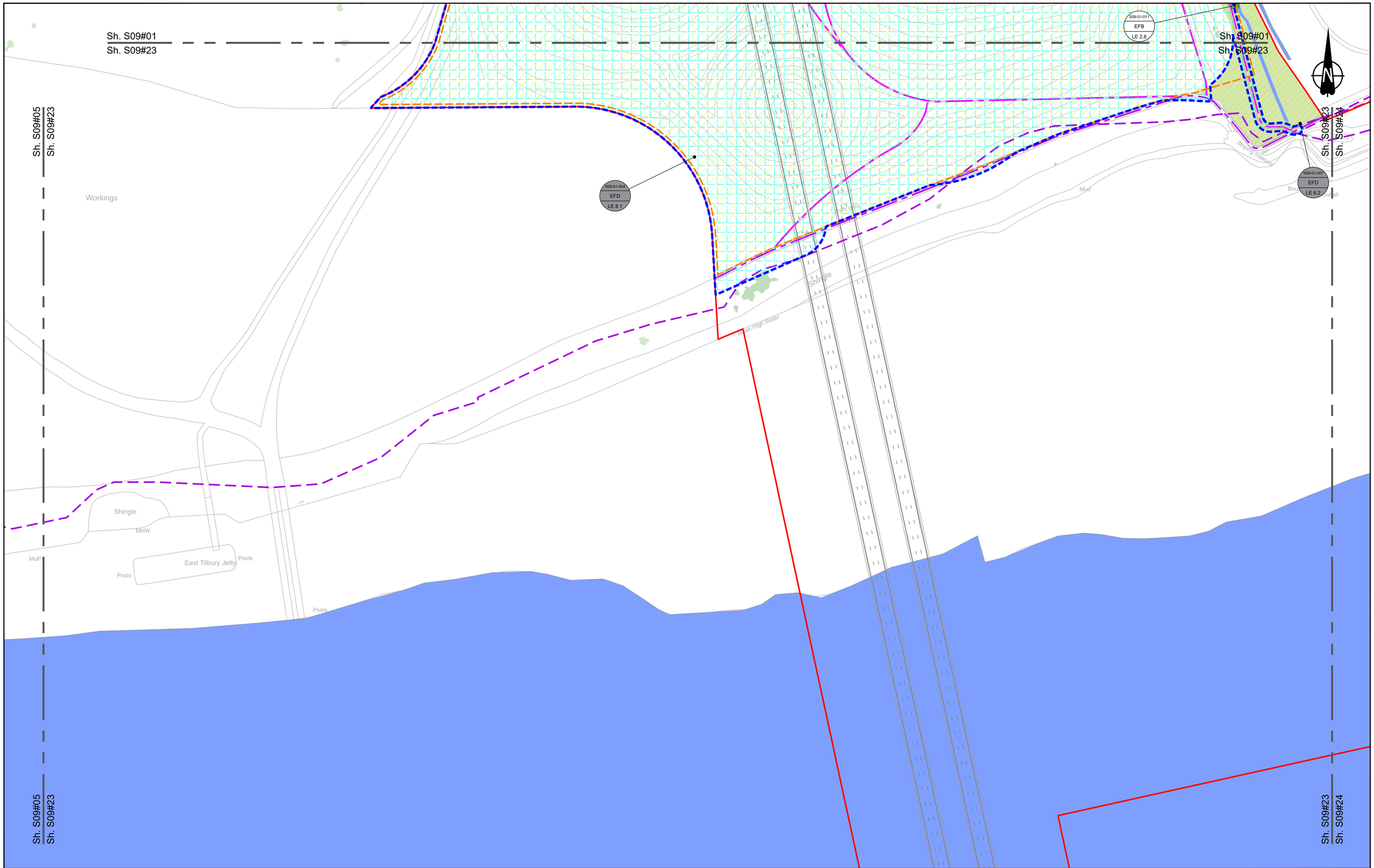
Revision: P01.6

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 22

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00023

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00023.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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.6	S0	08/08/2022				LD

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Original Size: A1

Revision: P01.6

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 23

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00024

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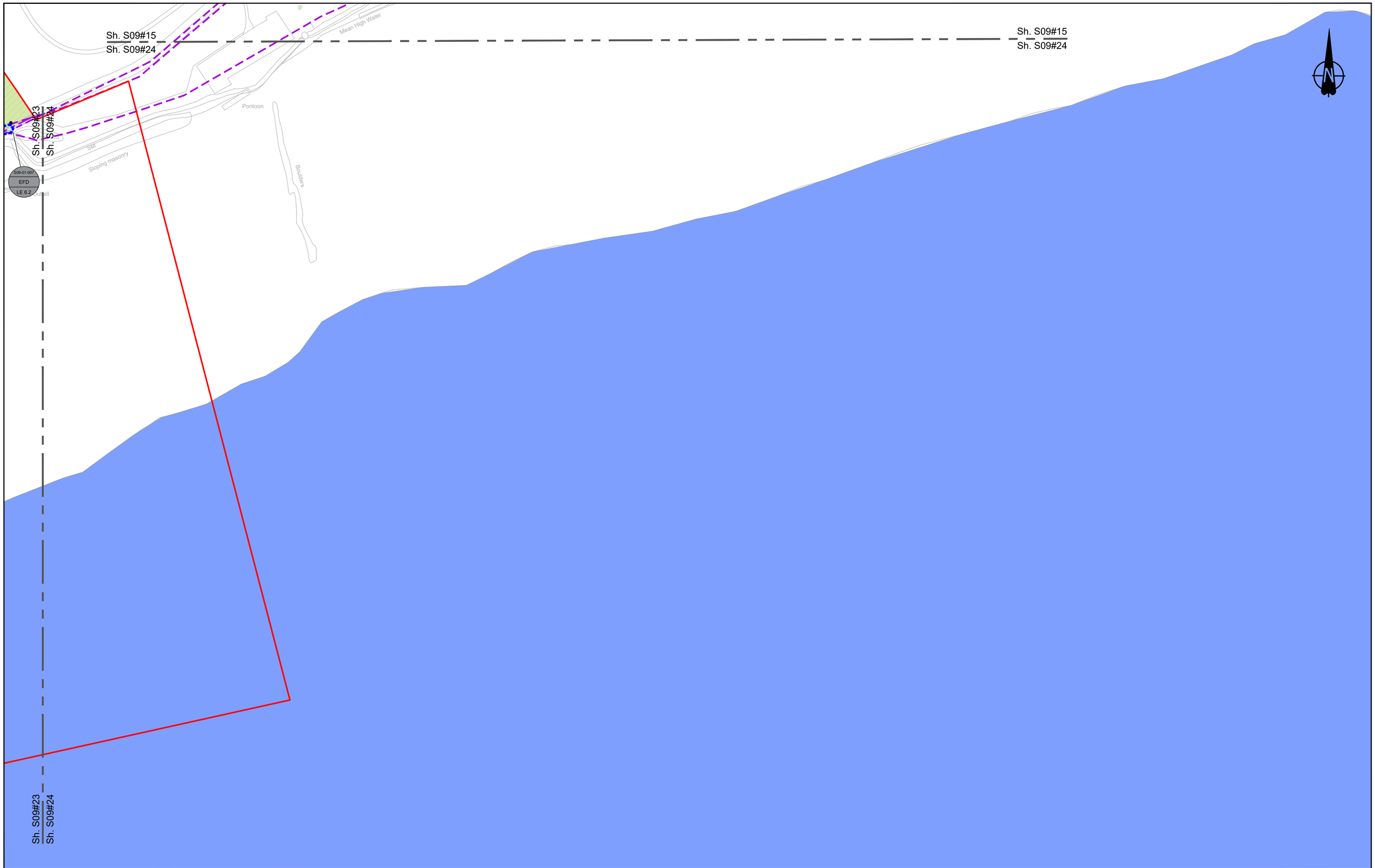

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0 10 20 30 40 50 60 70 80 90 100 METRES
SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.2	S0	08/08/2022			LD	

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
- 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
- LE 6.2 Banks and Ditches
- LE 6.21 Banks and Ditches – High Tide Roost Features
- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

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
- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area

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

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Original Size: A1
Revision: P01.2
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title:
ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 24

Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00025

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00025.dwg

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