

Lower Thames Crossing

6.2 Environmental Statement Figures

Figure 2.4 - Environmental Masterplan Section 9 (5 of 10)

APFP Regulation 5(2)(a)
Infrastructure Planning
(Applications: Prescribed Forms and Procedure)
Regulations 2009
Volume 6

DATE: October 2022

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

VERSION: 1.0

Lower Thames Crossing

Figure 2.4 - Environmental Masterplan Section 9 (5 of 10)

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1 Environmental Masterplan: Section 9

1.1 Schedule of Plans included in this application document

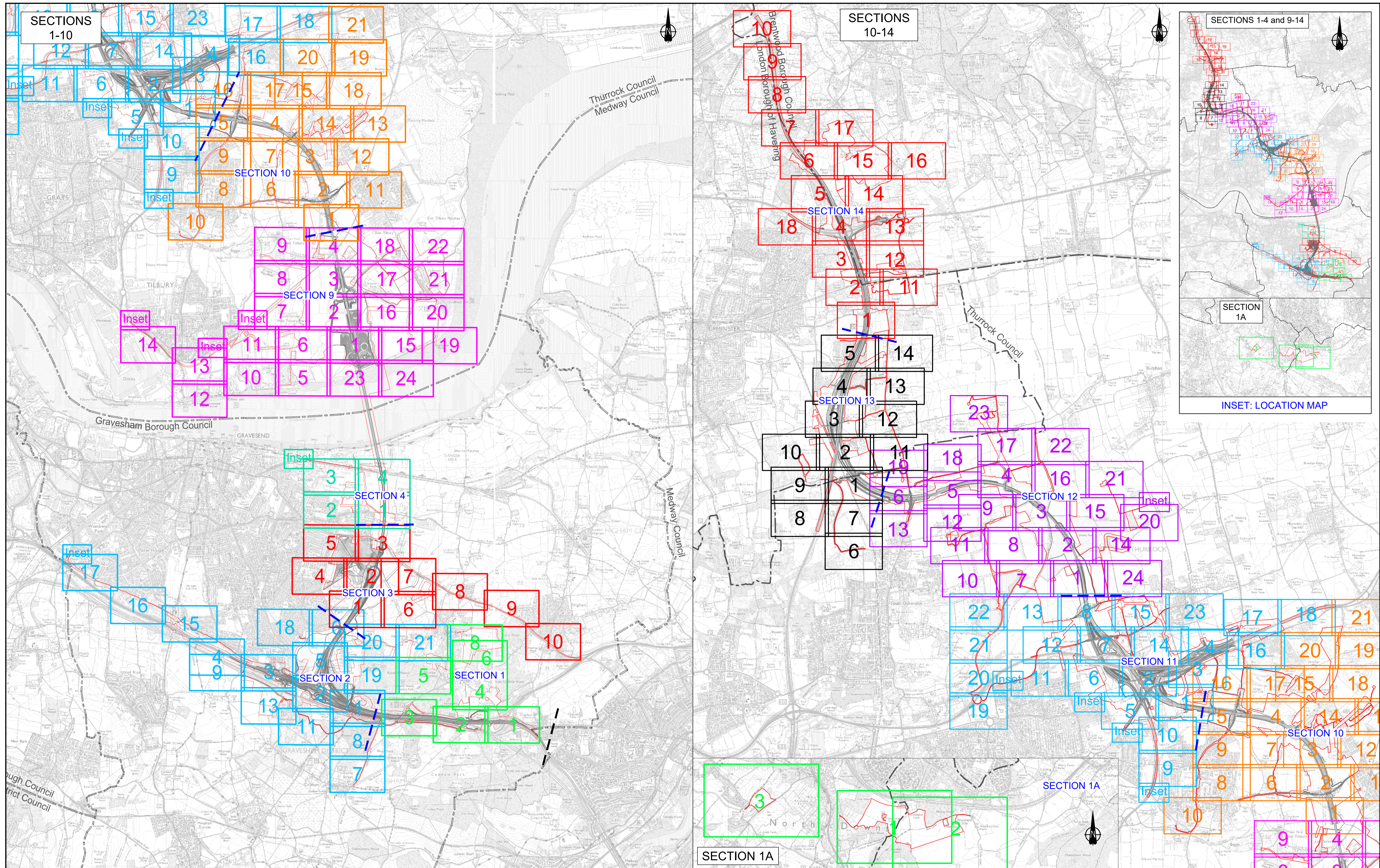
1.1.1 Section 9 (Sheets 1-21)

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00001 - Section 9 Overview	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00002 - Section 9 Sheet 1	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00003 - Section 9 Sheet 2	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00004 - Section 9 Sheet 3	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00005 - Section 9 Sheet 4	TR010032/APP/6.2	P01.6
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	P01.7

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
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00013 - Section 9 Sheet 12	TR010032/APP/6.2	P01.6
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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
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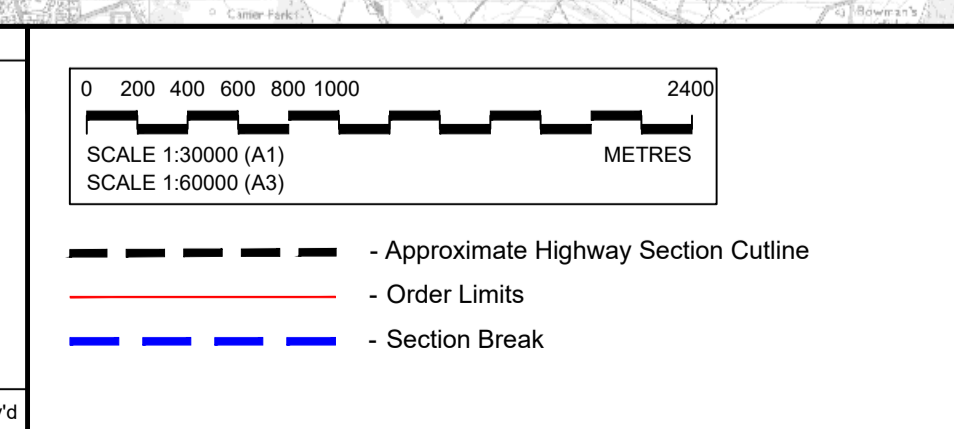
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00020 - Section 9 Sheet 19	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00021 - Section 9 Sheet 20	TR010032/APP/6.2	P01.6
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HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00024 - Section 9 Sheet 23	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ- 00025 - Section 9 Sheet 24	TR010032/APP/6.2	P01.2

1.2 Scheme Overview



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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
P01.3	SD	2021/09/23				



Section Layout Key:

1	Section S1 (Sheets 1 - 8)	10	Section S10 (Sheets 1 - 21)
1A	Section S1A (Sheets 1 - 3)	11	Section S11 (Sheets 1 - 22)
2	Section S2 (Sheets 1 - 21)	12	Section S12 (Sheets 1 - 24)
3	Section S3 (Sheets 1 - 10)	13	Section S13 (Sheets 1 - 14)
4	Section S4 (Sheets 1 - 4)	14	Section S14 (Sheets 1 - 18)
5	Section S5 (Sheets 1 - 24)		

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	Application Document Number	Original Size	Revision
	TR010032/APP/6.2	A1	P01.3
Drawing title	Drawing Number		
ENVIRONMENTAL MASTERPLAN SCHEME OVERVIEW	HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00002		

1.3 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 / 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
- 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

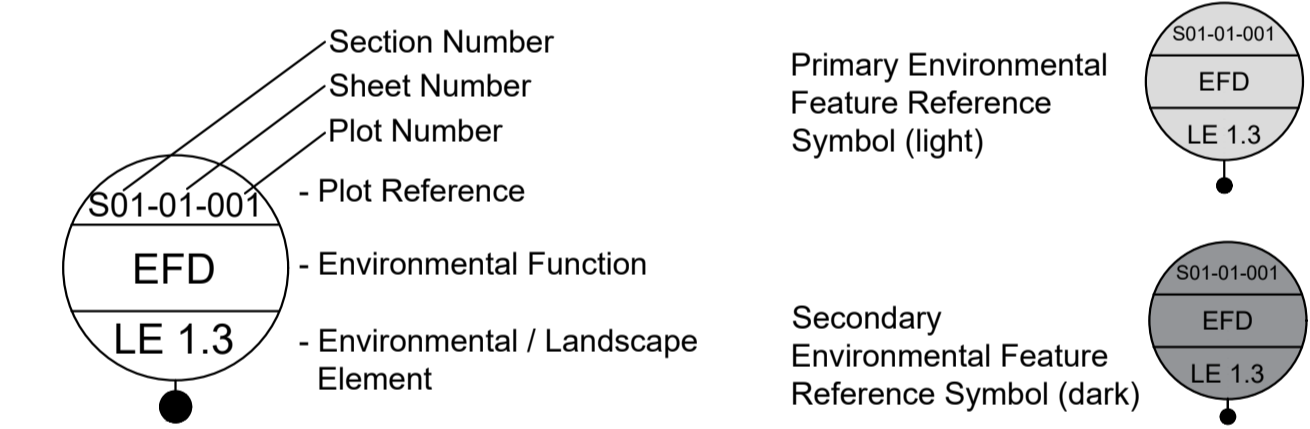
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed 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

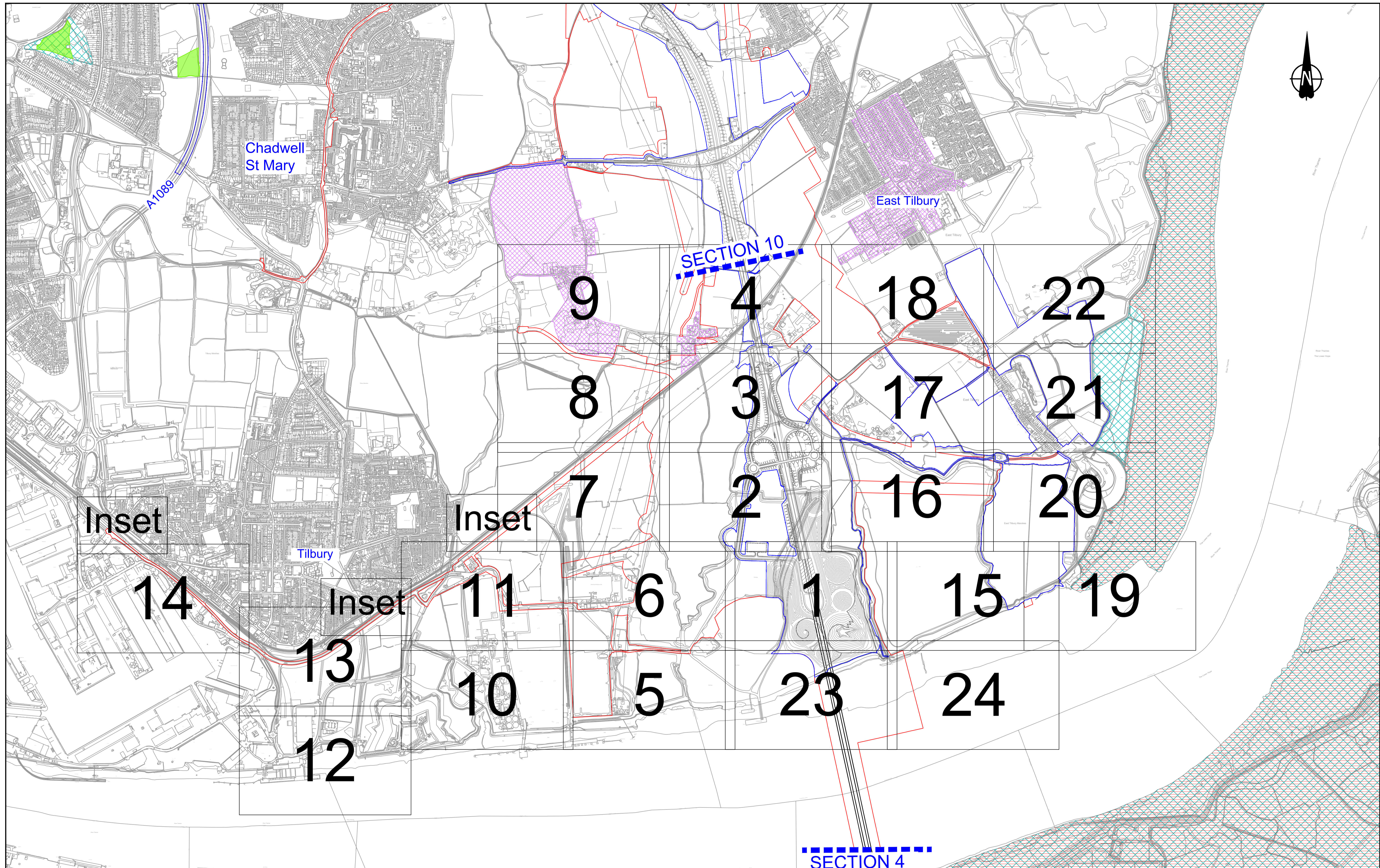
For further detail on the Landscape Design and Special Category Land shown within these plans, as well as the associated background and approach, please refer to the Project Design Report, Volume 2 Book of Plans, and Design Principles document (Application Documents 7.4, 6.2 and 7.5 respectively).

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Rev	Status	Rev. Date	Purpose of revision	Drawn	Check'd	Apprv'd
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	Status Initial Status or WIP	Original Size A1	Revision P01.6
	Application Document Number TR010032/APP/6.2	Scale	
Project LOWER THAMES CROSSING	Drawing title ENVIRONMENTAL MASTERPLAN LEGEND		
	Drawing Number HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001		

1.4 Section 9



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

P01.6 S0 08/08/2022 LD

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

LEGEND

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

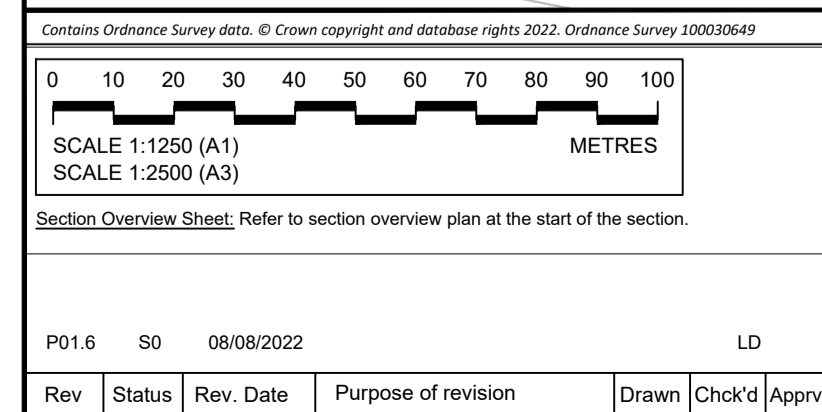
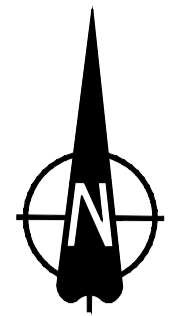
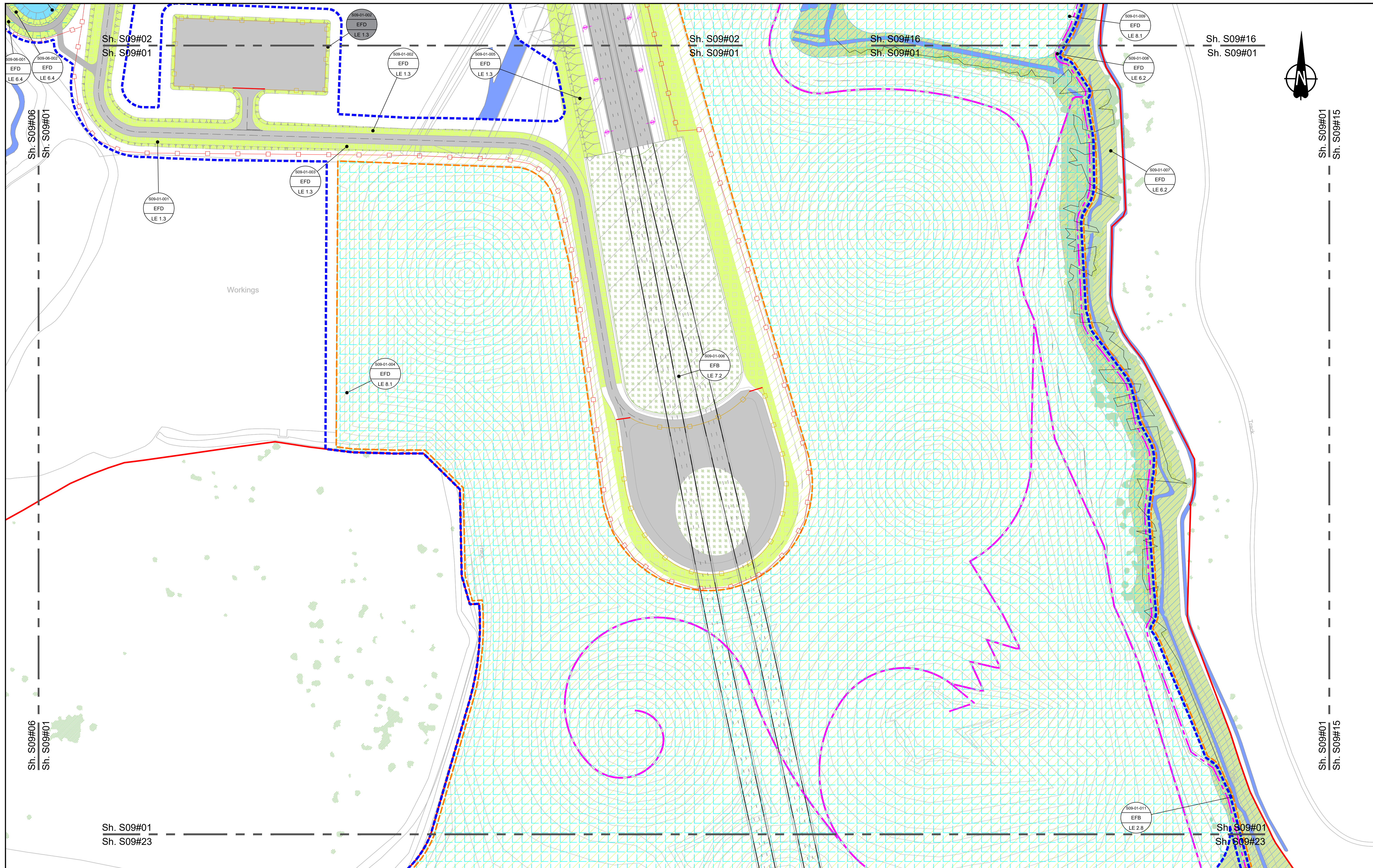
Client

Project

LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
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Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00001		

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

Order Limits Permanent Acquisition of Land Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees 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	Wetland Habitats (LE 6) LE 6.1 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 Individual Trees (LE 5) LE 5.1 Individual Trees Water (E 2) LE 8.7 Nitrogen Deposition (NDEP) Compensation Area LE 8.8 Ecology Pond (indicative symbol only)	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 Ecological Fencing (inc. highway boundary fence)
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Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

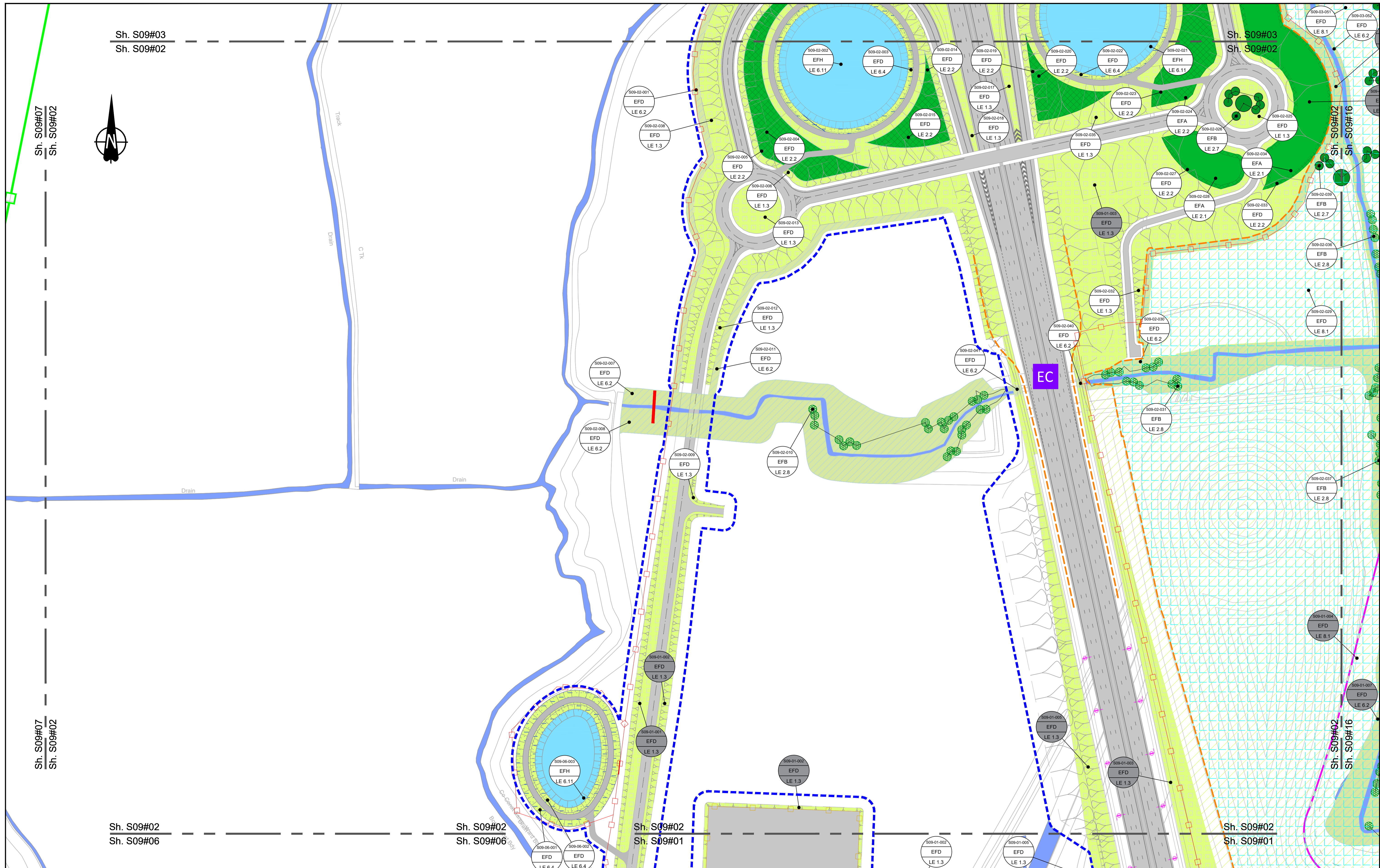
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Revision: P01.6

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

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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	SO	08/08/2022				LD

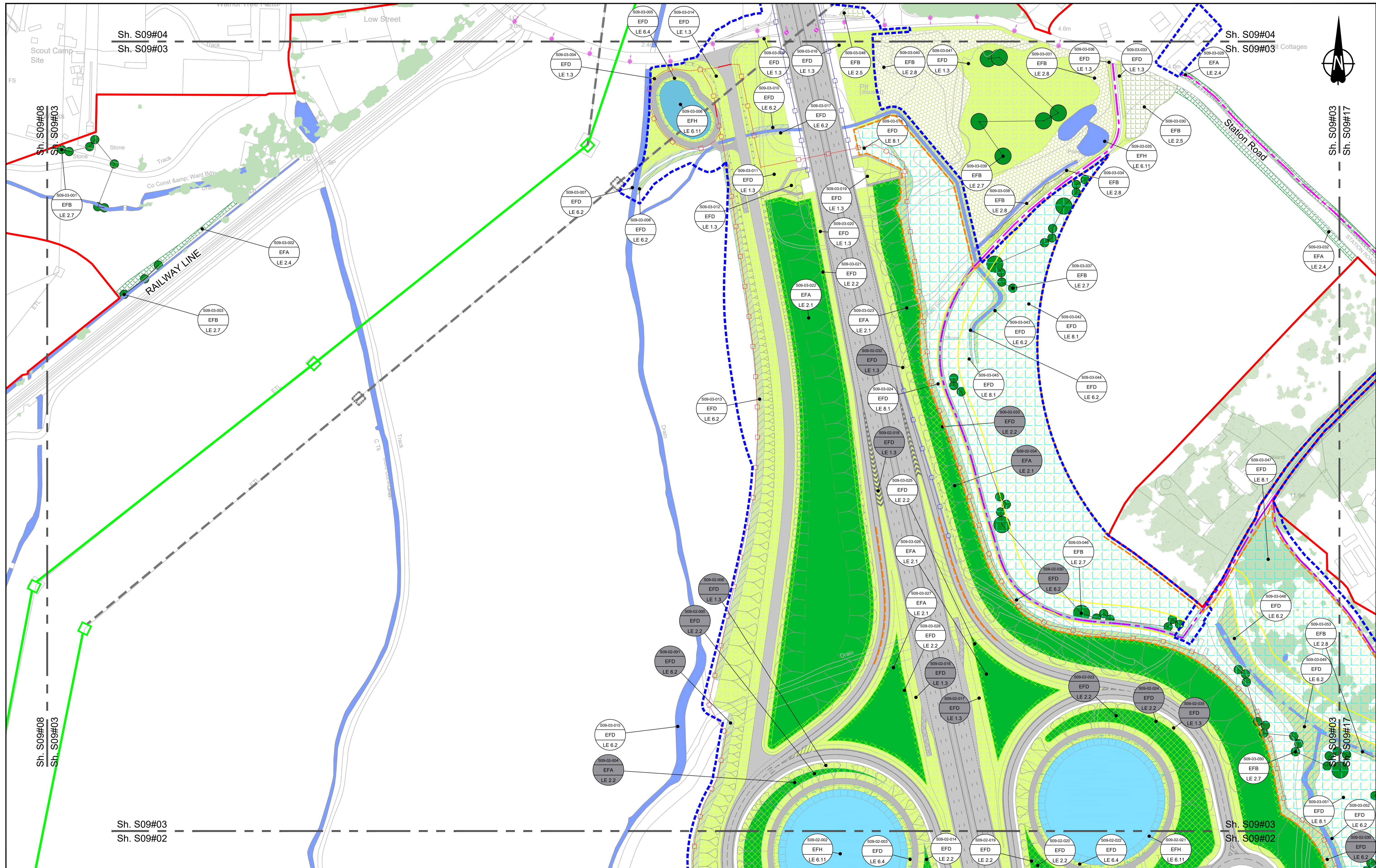
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<p>Order Limits</p> <p>Permanent Acquisition of Land</p> <p>Grassland (LE 1)</p> <p>LE 1.3 Species Rich Grassland</p> <p>LE 1.31 Species Rich Chalk Grassland</p> <p>LE 1.32 Species Rich Annual Wildflower Grassland</p> <p>LE 1.4 Rock and Scree</p>	<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 Root 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>LE 8.7 Nitrogen Deposition (NDEP) Compensation Area</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>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 Bat Owl Box</p> <p>E 3.2 Ecological Fencing (inc. highway boundary fence)</p>
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.6
Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 2		
Drawing Number	HE540039-CJV-EGN-S09_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.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chkd	Apprvd
P01.6	SO	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).

Grassland (LE 1)	Planting (LE 2)	Individual Trees (LE 5)	Wetland Habitats (LE 6)	Hard Landscape Features (LE 7)	Earthworks
LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 6.4 Wet Grassland	LE 7.4 Reinforced Earth Band	Proposed Contours
LE 1.31 Species Rich Chalk Grassland	LE 2.11 Woodland With Non-Native Species	LE 5.2 Scattered Trees	LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 7.4.1 Reinforced Earth Band	
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.14 Wet / Carr Woodland	LE 5.3 Hedgerow	LE 6.12 Water Bodies - Standing Water		
LE 1.4 Rock and Scree	LE 2.2 Woodland Edge	LE 5.4 Native Species Hedge (untrimmed)	LE 6.13 Water Bodies and Associated Plants - Shallow Scrape		
	LE 2.22 Scrub Woodland	LE 5.4.1 Native Hedgerow With Trees	LE 6.2 Barks and Ditches		
	LE 2.4 Linear Belt of Shrubs and Trees		LE 6.21 Banks and Ditches - High Tide Root Features		

Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)	Ecological (E 3)
LE 8.1 Open Mosaic Habitat	LE 1.2 Acoustic Barrier - Built Elements (typically inc. Highway boundary fence)	LE 2.2 Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 8.2 Ancient Woodland Compensation Planting		LE 2.2 Flood Defence (E 2-FD)	E 3.2 Dormouse Boxes
LE 8.3 Woodland Mitigation Planting			E 3.2 Bat Boxes
LE 8.4 Wetland / Farmland Creation			E 3.2 Ecological Culvert
LE 8.5 Ecology Pond (indicative symbol only)			E 3.2 Ecological Fencing (inc. highway boundary fence)
LE 8.6 Acid Grassland Soil Salvage			E 3.2 Bat Barn Block

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP

Application Document Number: TR010032/APP/6.2

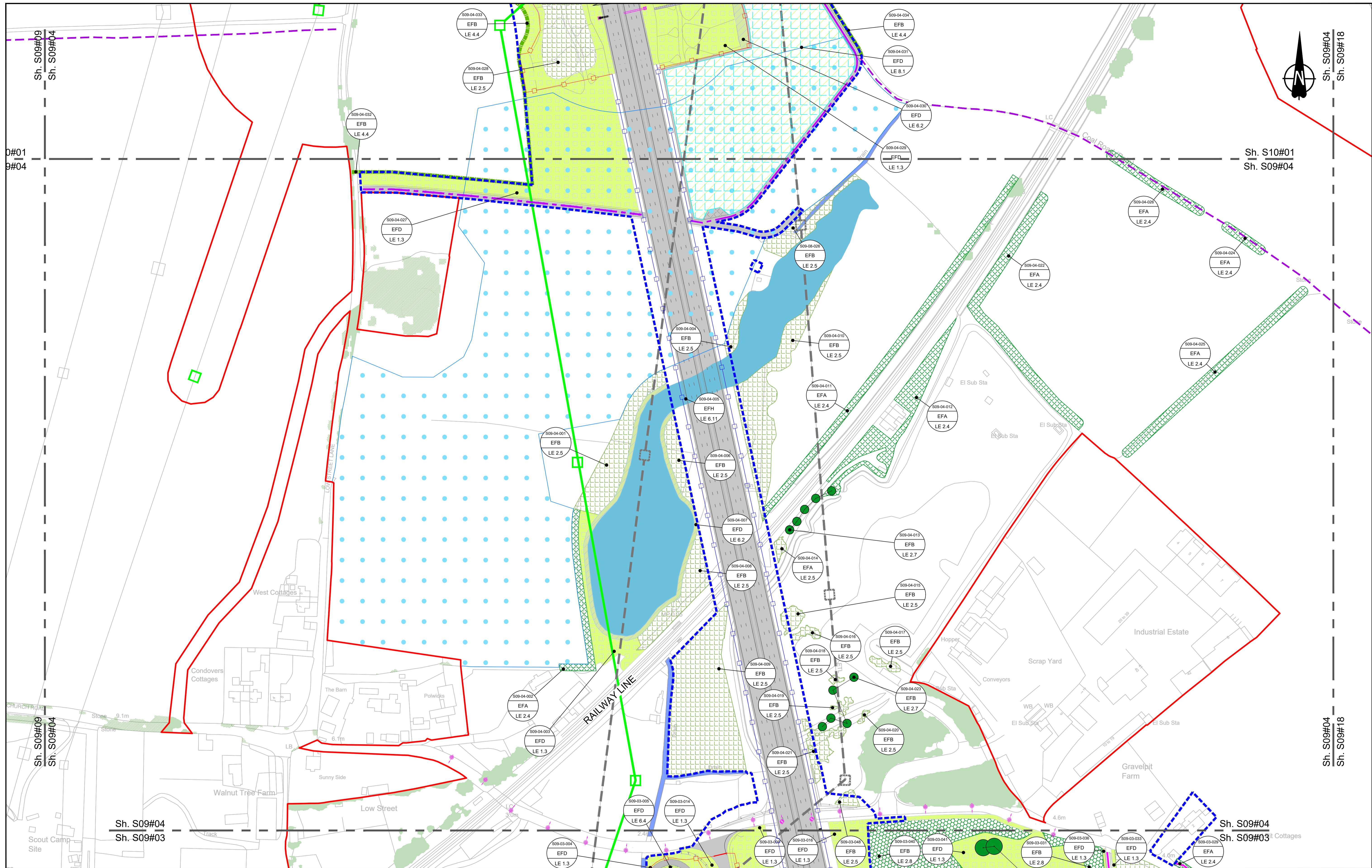
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Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00004

Original Size: A1

Revision: P01.6



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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 SO 08/08/2022 LD

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).

Grassland (LE 1)	Planting (LE 2)	Individual Trees (LE 5)	Wetland Habitats (LE 6)	Hard Landscape Features (LE 7)
LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 6.1 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 7.4 Reinforced Earth Band
LE 1.31 Species Rich Chalk Grassland	LE 2.11 Woodland With Non-Native Species	LE 5.2 Scattered Trees	LE 6.11 Water Bodies - Standing Water	LE 7.4.1 Reinforced Earth Band
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.14 Wet / Carr Woodland	LE 5.3 Hedgerow	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	LE 7.4.2 Reinforced Earth Band
LE 1.4 Rock and Stone	LE 2.2 Woodland Edge	LE 5.4 Native Species Hedge (untrimmed)	LE 6.2 Barks and Ditches	Proposed Contours
	LE 2.22 Scrub Woodland	LE 5.4.1 Native Hedgerow With Trees	LE 6.21 Banks and Ditches - High Tide Root Features	
	LE 2.4 Linear Belt of Shrubs and Trees			

Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)	Ecological (E 3)	Ecological (E 3)
LE 8.1 Open Mosaic Habitat	LE 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	LE 2.1 Flood Compensation Areas (E 2-FCA)	LE 3.2 Ecological Habitat Creation and Receptor sites for Protected Species	LE 3.2 Ecological Fencing (inc. highway boundary fence)
LE 8.2 Ancient Woodland Compensation Planting		LE 2.2 Flood Compensation Areas (E 2-FCA)	LE 3.2 Dormouse Boxes	
LE 8.3 Woodland Mitigation Planting		LE 2.3 Flood Defence (E 2-FD)	LE 3.2 Bat Boxes	
LE 8.4 Wetland / Farmland Creation			LE 3.2 Bat Blocks	
LE 8.5 Ecology Pond (indicative symbol only)				
LE 8.6 Acid Grassland Soil Salvage				

Ecological (E 3)	Ecological (E 3)
LE 3.2 Ecological Habitat Creation and Receptor sites for Protected Species	LE 3.2 Ecological Fencing (inc. highway boundary fence)
LE 3.2 Dormouse Boxes	
LE 3.2 Bat Boxes	
LE 3.2 Ecological Culvert	
LE 3.2 Bat Barn Block	

Client: national highways

Project: LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
		A1	P01.6
Application Document Number	TR010032/APP/6.2	Scale	1:1250
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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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)
METRES

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

P01.6 50 27/07/2022

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

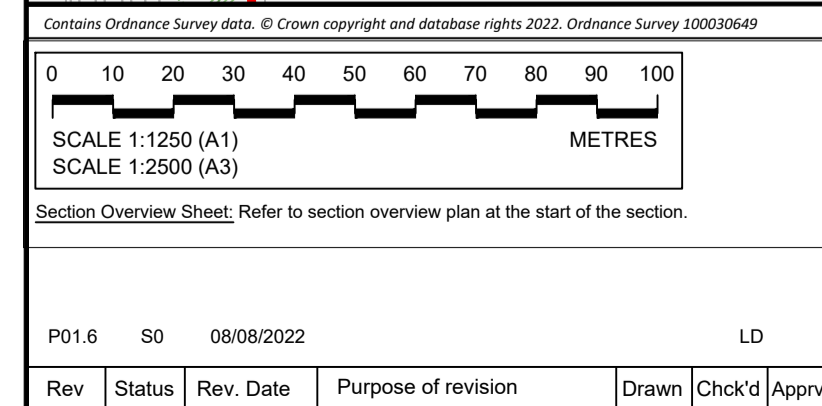
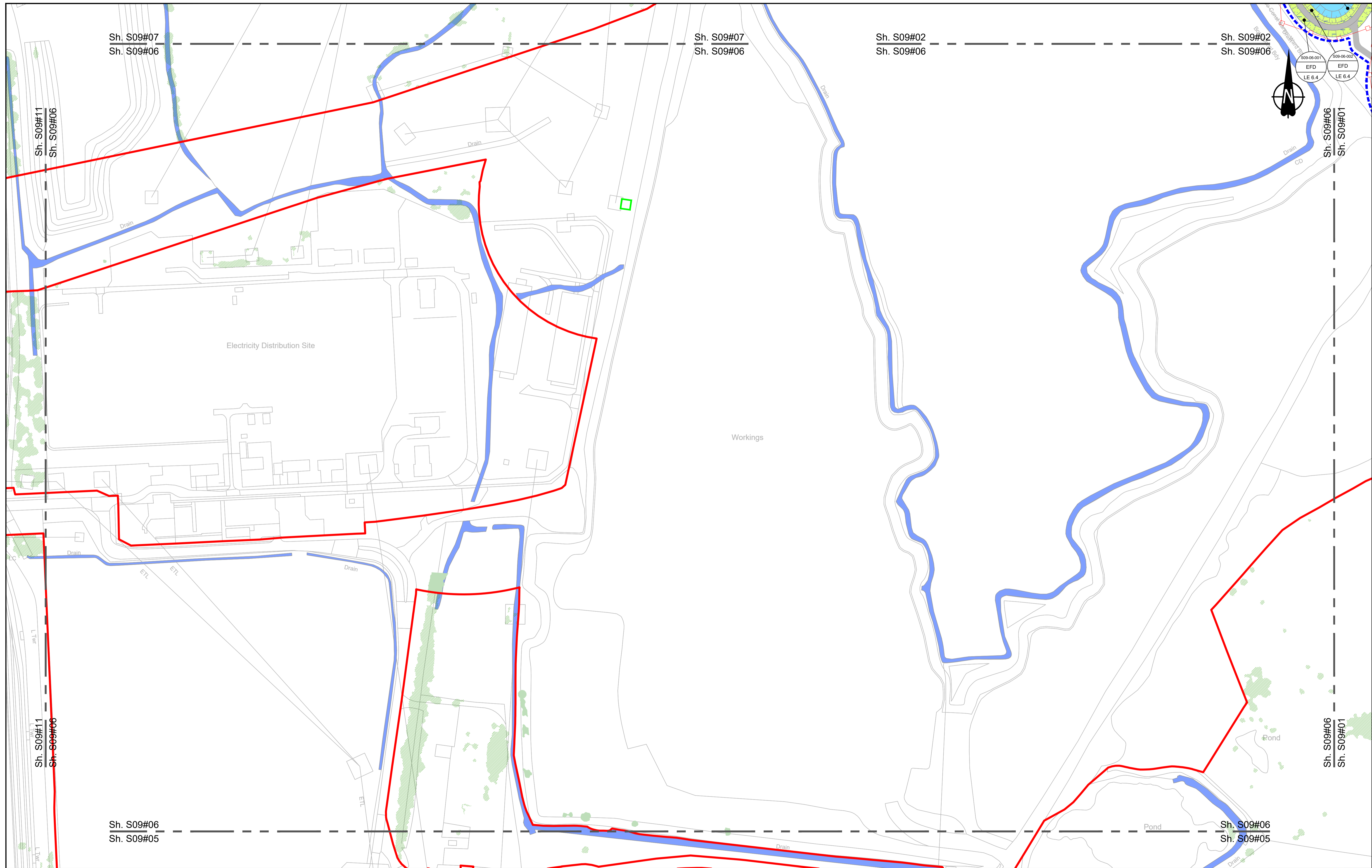
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Grassland (LE 1)	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)	
<ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees 	<ul style="list-style-type: none"> LE 5.1 Individual Trees LE 5.11 Water Bodies - Standing Water LE 5.12 Water Bodies and Associated Plants - Shallow Scrape LE 5.2 Barks and Ditches LE 5.21 Banks and Ditches - High Tide Root Features 	<ul style="list-style-type: none"> LE 6.4 Wet Grassland LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.2 Wetland Habitats (LE 6) LE 6.21 Wetland Habitats (LE 6) LE 6.22 Wetland Habitats (LE 6) LE 6.23 Wetland Habitats (LE 6) LE 6.24 Wetland Habitats (LE 6) LE 6.25 Wetland Habitats (LE 6) LE 6.26 Wetland Habitats (LE 6) LE 6.27 Wetland Habitats (LE 6) LE 6.28 Wetland Habitats (LE 6) LE 6.29 Wetland Habitats (LE 6) LE 6.30 Wetland Habitats (LE 6) LE 6.31 Wetland Habitats (LE 6) LE 6.32 Wetland Habitats (LE 6) LE 6.33 Wetland Habitats (LE 6) LE 6.34 Wetland Habitats (LE 6) LE 6.35 Wetland Habitats (LE 6) LE 6.36 Wetland Habitats (LE 6) LE 6.37 Wetland Habitats (LE 6) LE 6.38 Wetland Habitats (LE 6) LE 6.39 Wetland Habitats (LE 6) LE 6.40 Wetland Habitats (LE 6) LE 6.41 Wetland Habitats (LE 6) LE 6.42 Wetland Habitats (LE 6) LE 6.43 Wetland Habitats (LE 6) LE 6.44 Wetland Habitats (LE 6) LE 6.45 Wetland Habitats (LE 6) LE 6.46 Wetland Habitats (LE 6) LE 6.47 Wetland Habitats (LE 6) LE 6.48 Wetland Habitats (LE 6) LE 6.49 Wetland Habitats (LE 6) LE 6.50 Wetland Habitats (LE 6) LE 6.51 Wetland Habitats (LE 6) LE 6.52 Wetland Habitats (LE 6) LE 6.53 Wetland Habitats (LE 6) LE 6.54 Wetland Habitats (LE 6) LE 6.55 Wetland Habitats (LE 6) LE 6.56 Wetland Habitats (LE 6) LE 6.57 Wetland Habitats (LE 6) LE 6.58 Wetland Habitats (LE 6) LE 6.59 Wetland Habitats (LE 6) LE 6.60 Wetland Habitats (LE 6) LE 6.61 Wetland Habitats (LE 6) LE 6.62 Wetland Habitats (LE 6) LE 6.63 Wetland Habitats (LE 6) LE 6.64 Wetland Habitats (LE 6) LE 6.65 Wetland Habitats (LE 6) LE 6.66 Wetland Habitats (LE 6) LE 6.67 Wetland Habitats (LE 6) LE 6.68 Wetland Habitats (LE 6) LE 6.69 Wetland Habitats (LE 6) LE 6.70 Wetland Habitats (LE 6) LE 6.71 Wetland Habitats (LE 6) LE 6.72 Wetland Habitats (LE 6) LE 6.73 Wetland Habitats (LE 6) LE 6.74 Wetland Habitats (LE 6) LE 6.75 Wetland Habitats (LE 6) LE 6.76 Wetland Habitats (LE 6) LE 6.77 Wetland Habitats (LE 6) LE 6.78 Wetland Habitats (LE 6) LE 6.79 Wetland Habitats (LE 6) LE 6.80 Wetland Habitats (LE 6) LE 6.81 Wetland Habitats (LE 6) LE 6.82 Wetland Habitats (LE 6) LE 6.83 Wetland Habitats (LE 6) LE 6.84 Wetland Habitats (LE 6) LE 6.85 Wetland Habitats (LE 6) LE 6.86 Wetland Habitats (LE 6) LE 6.87 Wetland Habitats (LE 6) LE 6.88 Wetland Habitats (LE 6) LE 6.89 Wetland Habitats (LE 6) LE 6.90 Wetland Habitats (LE 6) LE 6.91 Wetland Habitats (LE 6) LE 6.92 Wetland Habitats (LE 6) LE 6.93 Wetland Habitats (LE 6) LE 6.94 Wetland Habitats (LE 6) LE 6.95 Wetland Habitats (LE 6) LE 6.96 Wetland Habitats (LE 6) LE 6.97 Wetland Habitats (LE 6) LE 6.98 Wetland Habitats (LE 6) LE 6.99 Wetland Habitats (LE 6) LE 7.00 Wetland Habitats (LE 6) 	<ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Farmland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage 	<ul style="list-style-type: none"> LE 8.7 Nitrogen Deposition (NDEP) Compensation Area E 1.1 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) E 2.1 Flood Compensation Areas (E 2-FCA) E 2.2 Flood Defence (E 2-FD) 	<ul style="list-style-type: none"> E 3.1 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block E 3.2 Ecological Fencing (inc. highway boundary fence) E 3.2 Barn Owl Box

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.6
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 5		
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00006		
Scale 1:1250			



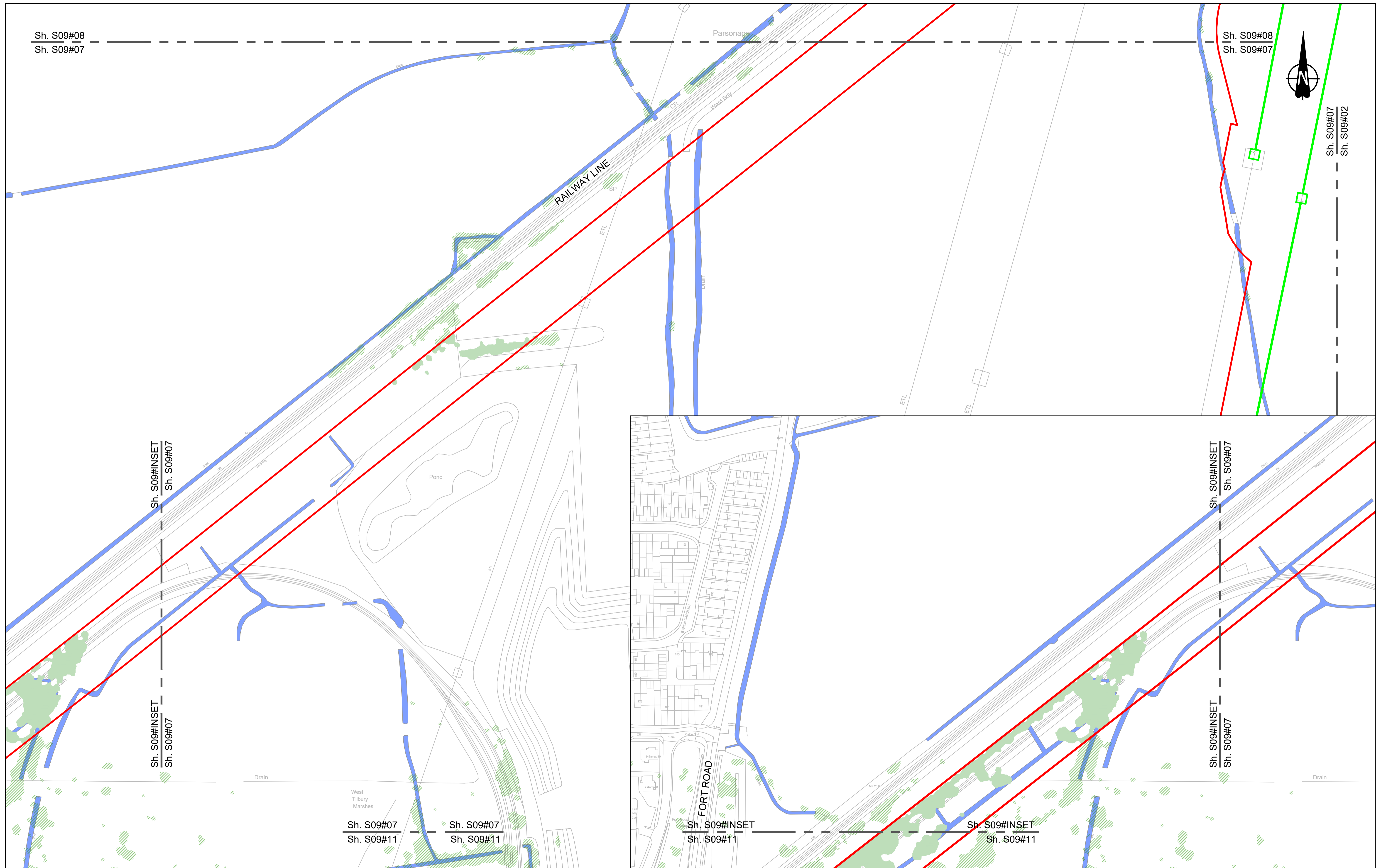
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Order Limits Order Limits Permanent Acquisition of Land	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees	Individual Trees (LE 5) LE 5.1 Individual Trees Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features	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	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 Ecological Fencing (inc. highway boundary fence)
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	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	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)

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

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

P01.6 SO 28/07/2022

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

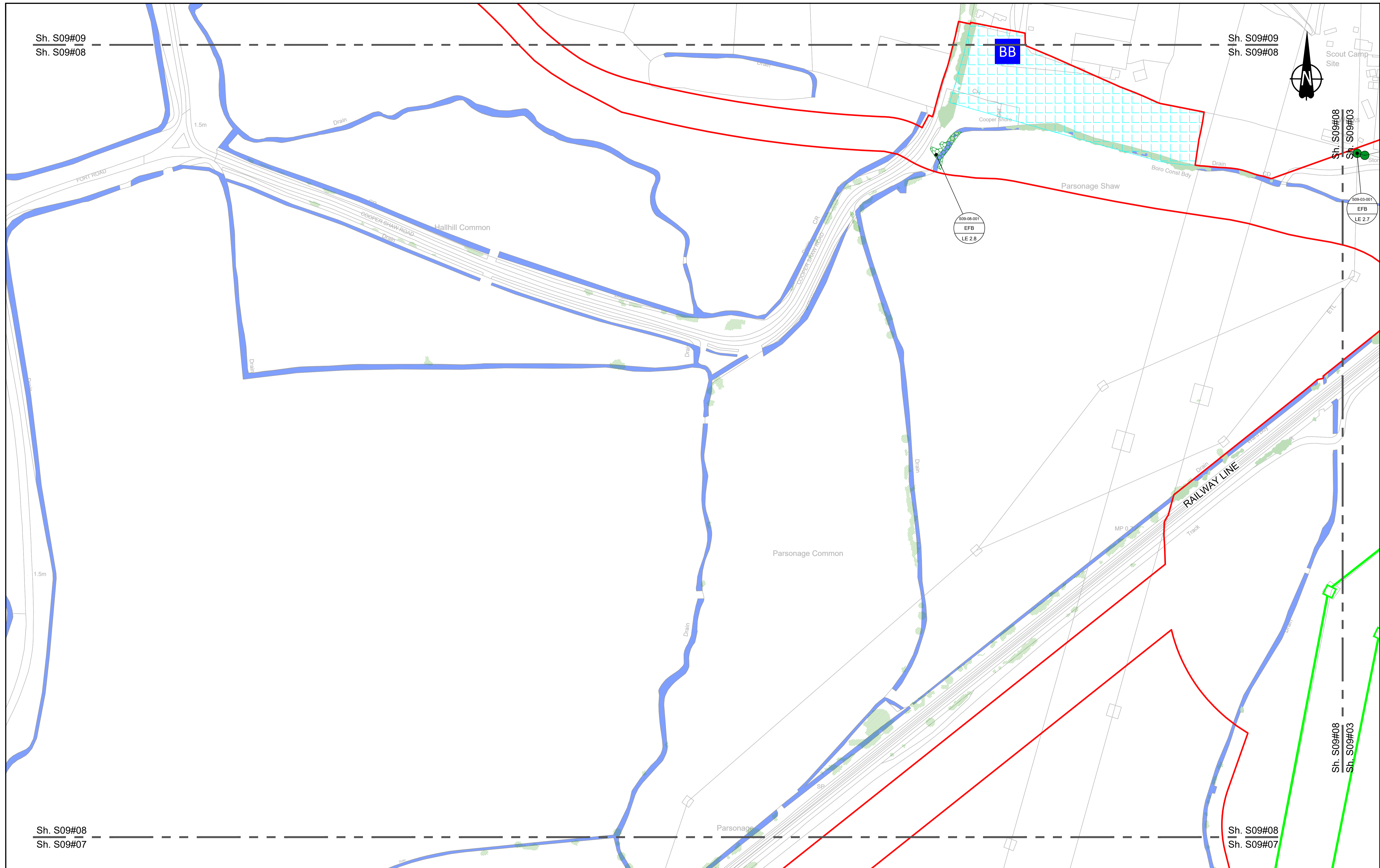
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Order Limits	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Ecological (E 3)
<ul style="list-style-type: none"> Order Limits Permanent Acquisition of Land 	<ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland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

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.6
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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SCALE 1:2500 (A3)
METRES

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

P01.7 SO 08/08/2022 LD

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

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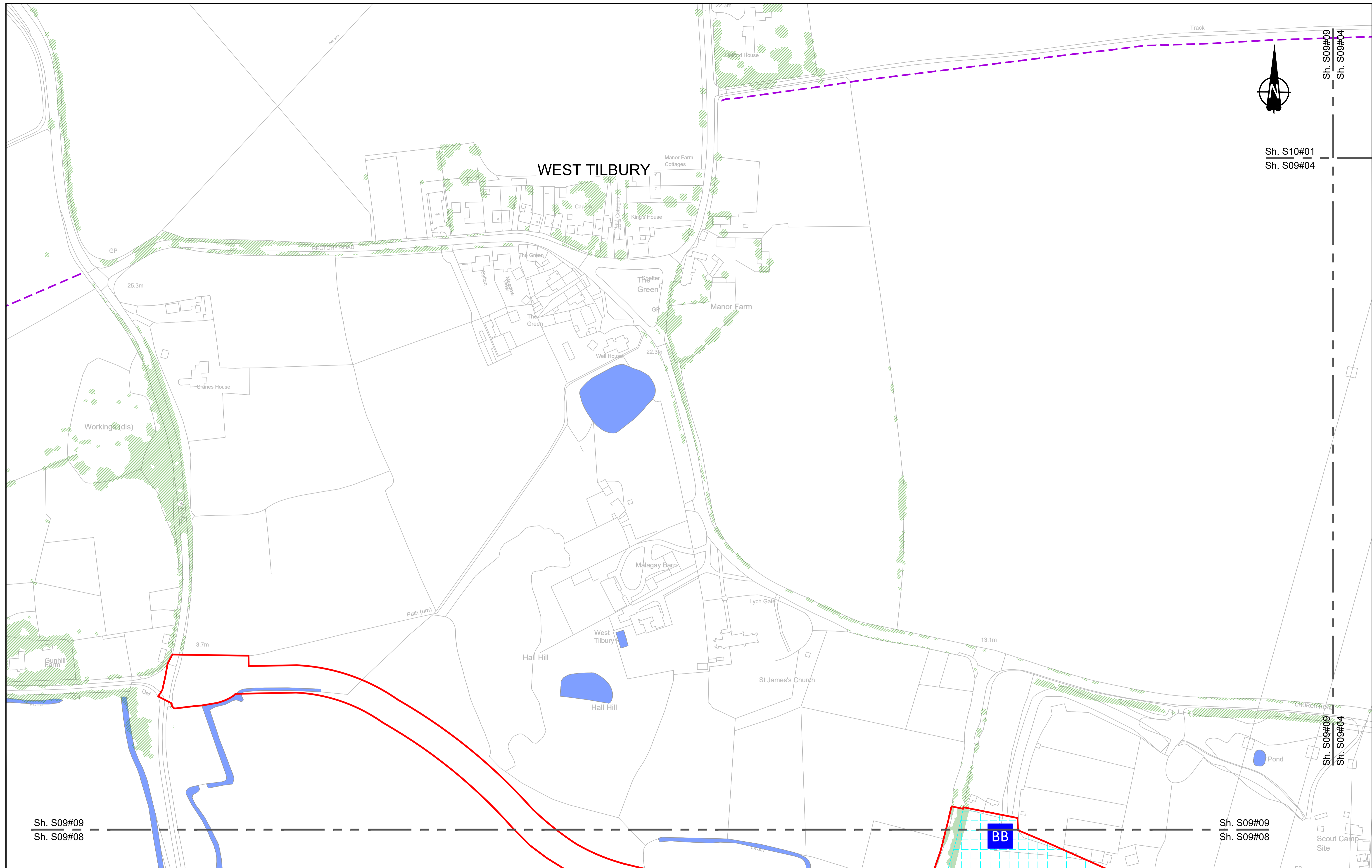
Grassland (LE 1)	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)	Ecological (E 3)
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status: Initial Status or WIP	Original Size: A1	Revision: P01.7
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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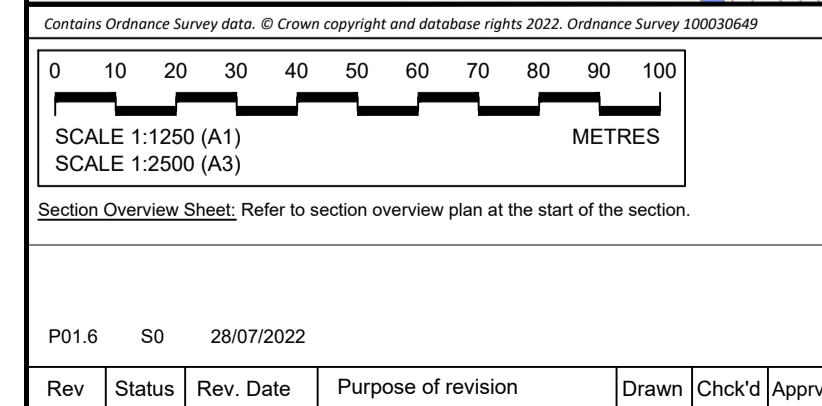


Sh. S09#09
Sh. S09#08

Sh. S09#09
Sh. S09#08

Sh. S09#09
Sh. S09#04

Sh. S09#09
Sh. S09#04



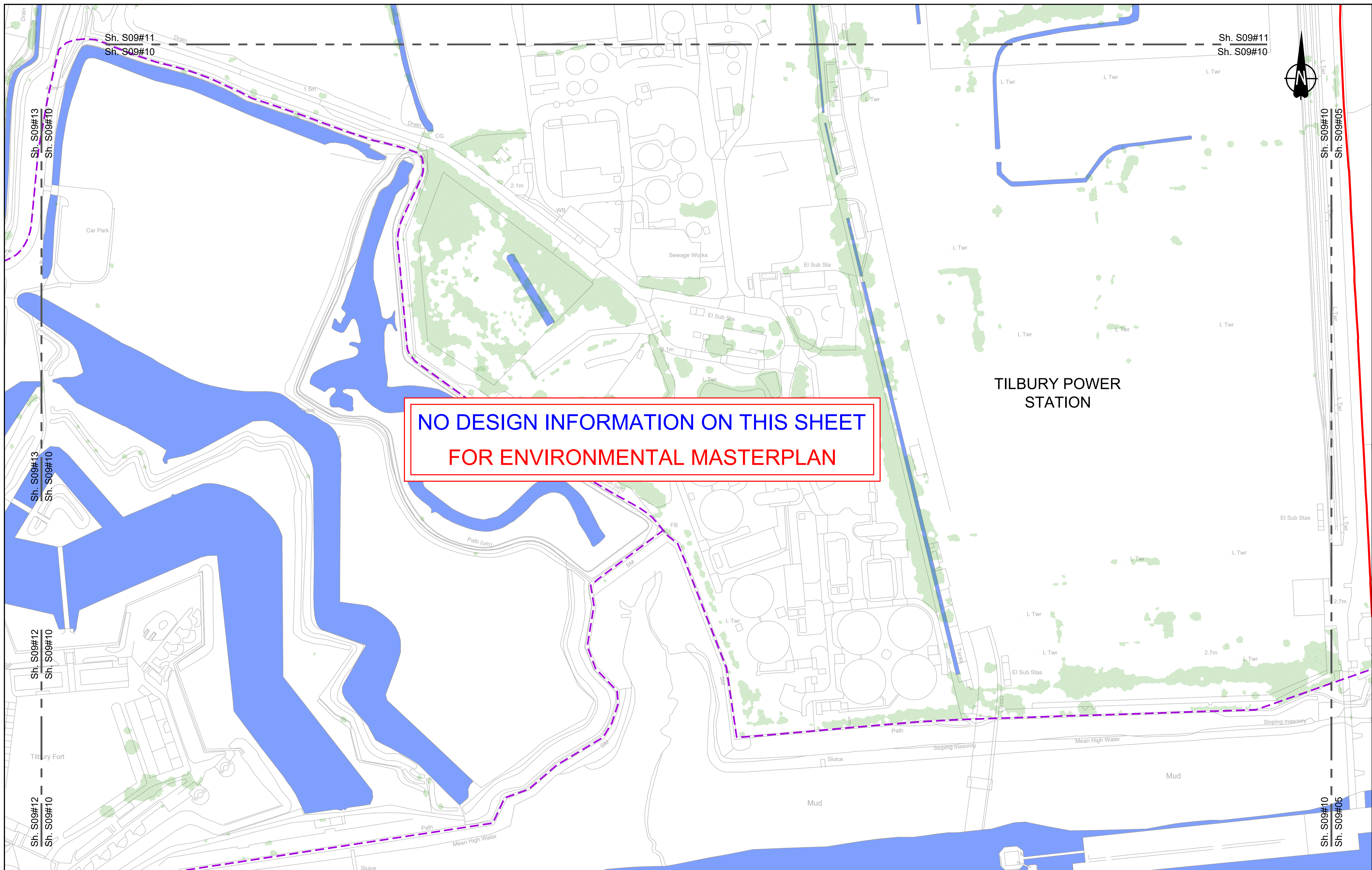
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits Permanent Acquisition of Land	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland	LE 2.5 Shrubs With Intermittent Trees LE 2.7 Scattered Trees LE 2.8 Scrub / Scattered Scrub	Individual Trees (LE 5) LE 5.1 Individual Trees	LE 6.4 Wet Grassland LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh	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 / Farmland 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) E 2.2 Flood Compensation Areas (E 2-FCA) E 2.5 Ecology Pond (indicative symbol only) E 2.6 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)
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	LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees	Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees	Wetland Habitats (LE 6) LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scraps LE 6.2 Barks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features	Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Band Earthworks Proposed Contours			

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

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

P01.6 SO 28/07/2022

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

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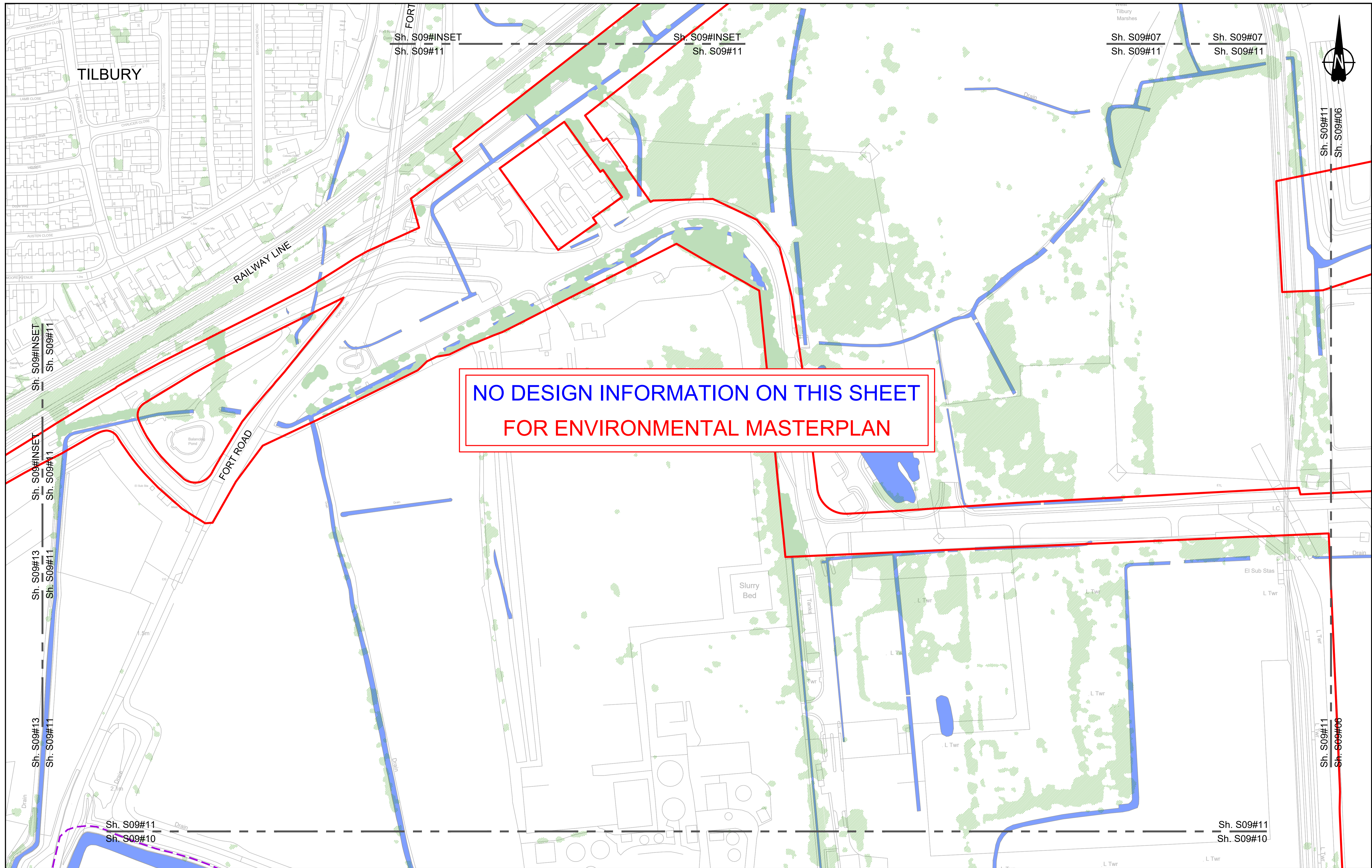
Grassland (LE 1)	Planting (LE 2)	Individual Trees (LE 5)	Ecological Habitats (LE 8)	Ecological (E 3)
LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 8.1 Open Mosaic Habitat	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 1.31 Species Rich Chalk Grassland	LE 2.11 Woodland With Non-Native Species	LE 5.11 Water Bodies - Standing Water	LE 8.2 Ancient Woodland Compensation Planting	E 3.2 Ecological Fencing (inc. highway boundary fence)
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.14 Wet / Carr Woodland	LE 5.12 Wetland Mitigation Planting	LE 8.3 Woodland Mitigation Planting	E 3.2 Bat Boxes
LE 1.4 Rock and Scree	LE 2.2 Woodland Edge	LE 5.2 Wetland Mitigation Planting	LE 8.4 Wetland / Farmland Creation	E 3.2 Ecological Culvert
	LE 2.22 Scrub Woodland	LE 5.3 Ecology Pond (indicative symbol only)	LE 8.5 Ecology Pond (indicative symbol only)	E 3.2 Bat Barn Block
	LE 2.4 Linear Belt of Shrubs and Trees	LE 5.4 Banks and Ditches - High Tide Root Features	LE 8.6 Acid Grassland Soil Salvage	

Client:

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 10		
Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00011		

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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	Chk'd	Apprv'd
P01.6	50	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).

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

Project: LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.6
Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 11		
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00012		

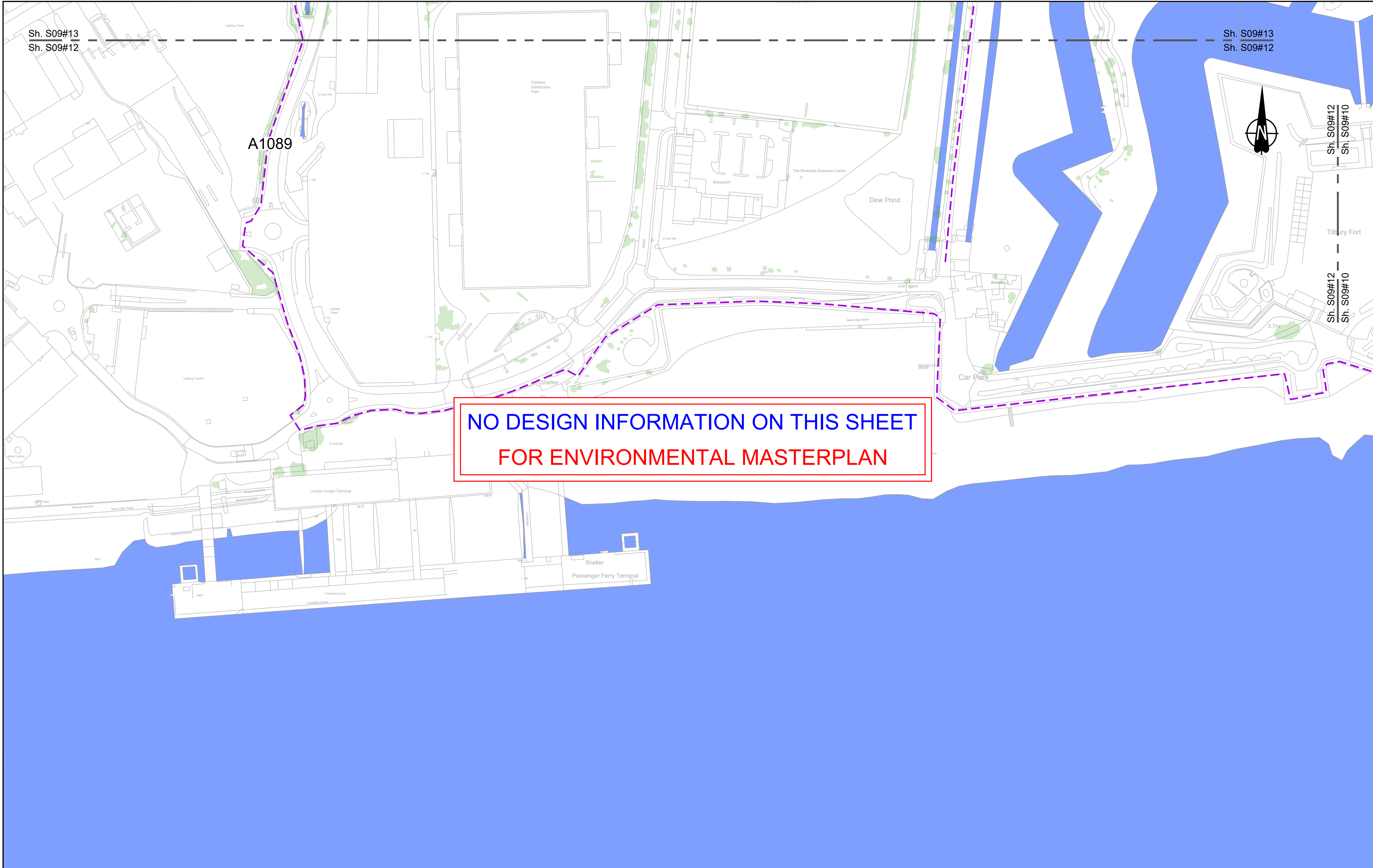
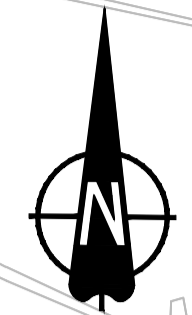
Sh. S09#13
Sh. S09#12

Sh. S09#13
Sh. S09#12

A1089

**NO DESIGN INFORMATION ON THIS SHEET
FOR ENVIRONMENTAL MASTERPLAN**

Sh. S09#12
Sh. S09#10
Sh. S09#12
Sh. S09#10



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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	Chkd	Apprv'd
P01.6	SO	28/07/2022				

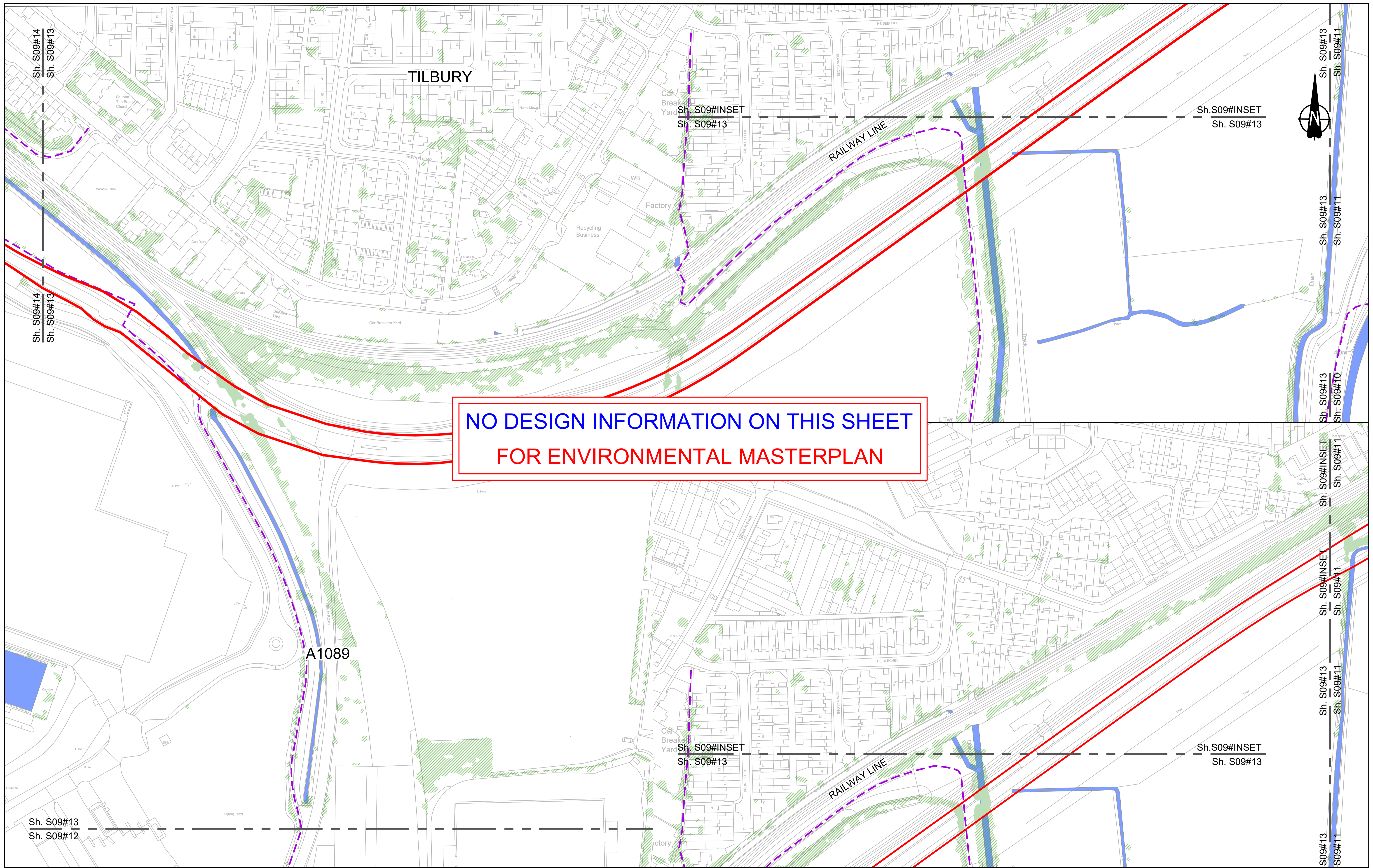
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits Permanent Acquisition of Land	Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland	Individual Trees (LE 5) LE 5.1 Individual Trees	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 / Farmland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage	Noise (E 1) E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	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
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	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 (untrimm'd) LE 4.4 Native Hedgerow With Trees	Wetland Habitats (LE 6) LE 6.1 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Barks and Ditches LE 6.21 Banks and Ditches - High Tide Root Features	Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund Earthworks Proposed Contours	Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD)	E 3.2 Barn Owl Box E 3.2 Ecological Fencing (inc. highway boundary fence)

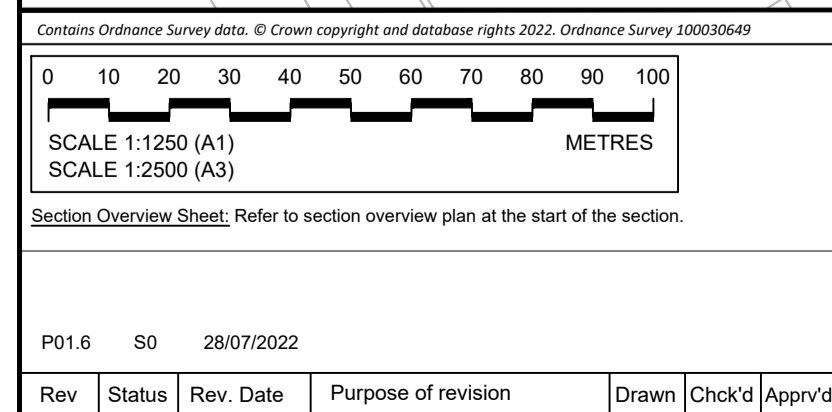
Client: national highways

Project: LOWER THAMES CROSSING

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.6
Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 12		
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00013		



NO DESIGN INFORMATION ON THIS SHEET 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)	Individual Trees (LE 5)
Order Limits	LE 2.1 Woodland	LE 5.1 Individual Trees
Permanent Acquisition of Land	LE 2.11 Woodland With Non-Native Species	Wetland Habitats (LE 6)
Grassland (LE 1)	LE 2.14 Wet / Carr Woodland	LE 6.11 Water Bodies - Standing Water
LE 1.3 Species Rich Grassland	LE 2.8 Scrub / Scattered Scrub	LE 6.12 Water Bodies and Associated Plants - Shallow Scrape
LE 1.31 Species Rich Chalk Grassland	Hedges (LE 4)	LE 6.2 Banks and Ditches
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.2 Woodland Edge	LE 4.3 Native Species Hedge (untimmed)
LE 1.4 Rock and Scree	LE 2.22 Scrub Woodland	LE 4.4 Native Hedgerow With Trees
	LE 2.4 Linear Belt of Shrubs and 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 / Farmland Creation	Flood Compensation Areas (E 2-FC)	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		

Client: national highways

Project: LOWER THAMES CROSSING

Status: Initial Status or WIP	Original Size: A1	Revision: R01.6
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		

Sh. S09#INSET
Sh. S09#14

Sh. S09#INSET
Sh. S09#14

**NO DESIGN INFORMATION ON THIS SHEET
FOR ENVIRONMENTAL MASTERPLAN**

INSET PLAN

Sh. S09#INSET
Sh. S09#14

Sh. S09#INSET
Sh. S09#14

Sh. S09#14
Sh. S09#13

Sh. S09#14
Sh. S09#13

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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	Chkd	Apprv'd
P01.6	50	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	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 Chalk Grassland	LE 2.14 Wet / Carr Woodland	LE 6.1 Water Bodies - Standing Water
LE 1.31 Species Rich 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
		Hard Landscape Features (LE 7)
		LE 7.4 Reinforced Earth Band
		Earthworks
		Proposed Contours

Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)
LE 8.1 Open Mosaic Habitat	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	Flood Compensation Areas (E 2-FCA)
LE 8.2 Ancient Woodland Compensation Planting	E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	Flood Defence (E 2-FD)
LE 8.3 Woodland Mitigation Planting		
LE 8.4 Wetland / Farmland Creation		
LE 8.5 Ecology Pond (indicative symbol only)		
LE 8.6 Acid Grassland Soil Salvage		

Ecological (E 3)	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 Dormouse Boxes	E 3.2 Ecological Culvert
E 3.2 Bat Boxes	E 3.2 Bat Barn Block
E 3.2 Ecological Culvert	
E 3.2 Bat Barn Block	

Client: **national highways**

Project: **LOWER THAMES CROSSING**

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.6
Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 14		
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00015		



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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 SO 08/08/2022 LD

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

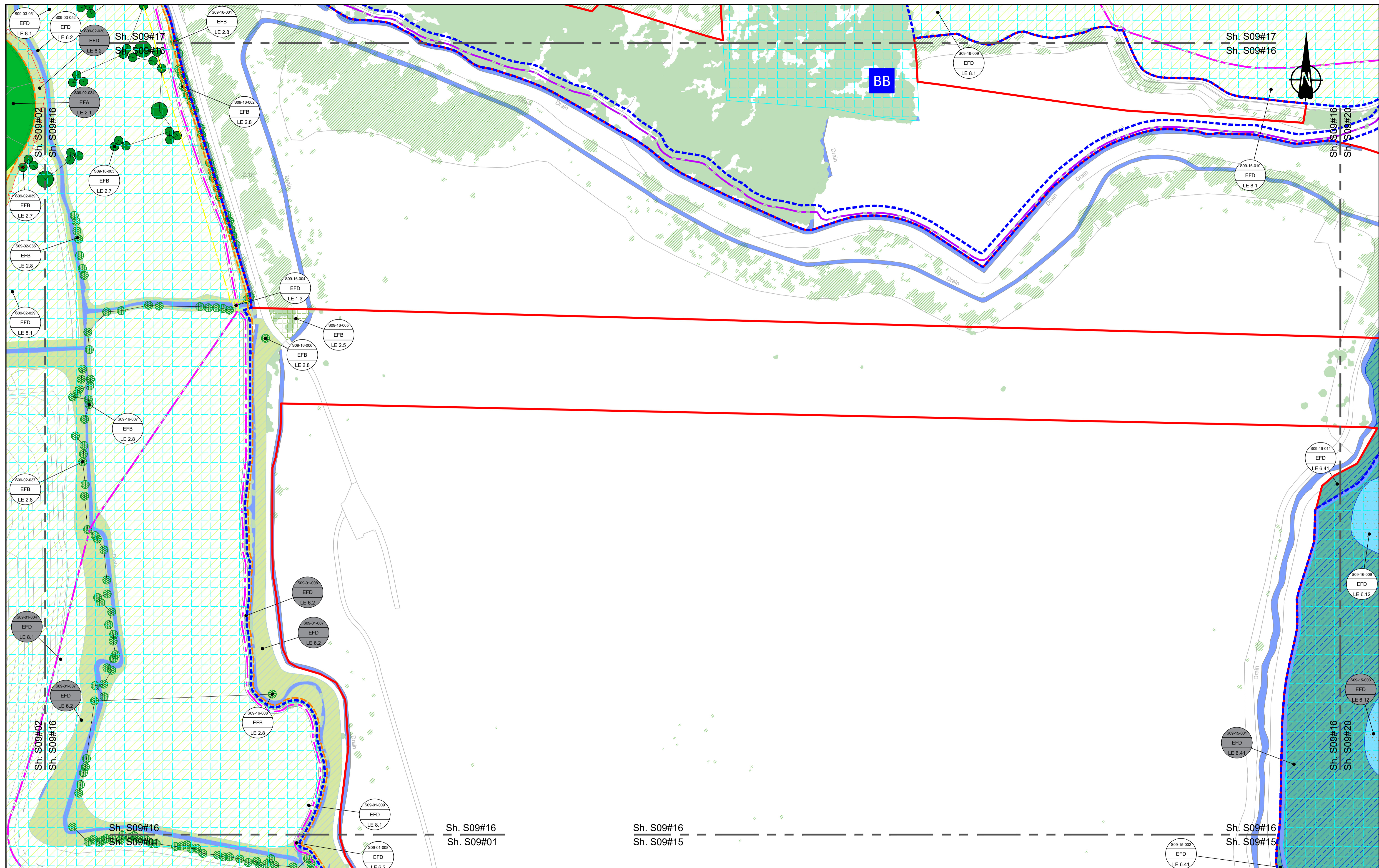
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

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 Water Bodies - Standing Water	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 6.12 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	Hedges (LE 4)	LE 8.6 Acid Grassland Soil Salvage		
LE 1.4 Rock and Scree		LE 4.3 Native Species Hedge (untrimmed)			
		LE 4.4 Native Hedgerow With Trees			
		LE 4.5 Native Hedgerow With Trees			
		LE 4.6 Native Hedgerow With Trees			
		LE 4.7 Native Hedgerow With Trees			
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		LE 4.99 Native Hedgerow With Trees			
		LE 4.100 Native Hedgerow With Trees			

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 15				
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00016				
HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00016.dwg					



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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.

P01.6 SO 08/08/2022 LD

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

- 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

Wetland Habitats (LE 6)

- 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 (untrimm'd)
- 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 Barks and Ditches
- LE 6.21 Banks and Ditches - High Tide Root Features

Hard Landscape Features (LE 7)

- LE 6.4 Wet Grassland
- LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh
- 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 / Farmland Creation
- LE 8.5 Ecology Pond (indicative symbol only)
- LE 8.6 Acid Grassland Soil Salvage

Noise (E 1)

- LE 8.7 Nitrogen Deposition (NDEP) Compensation Area
- 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)

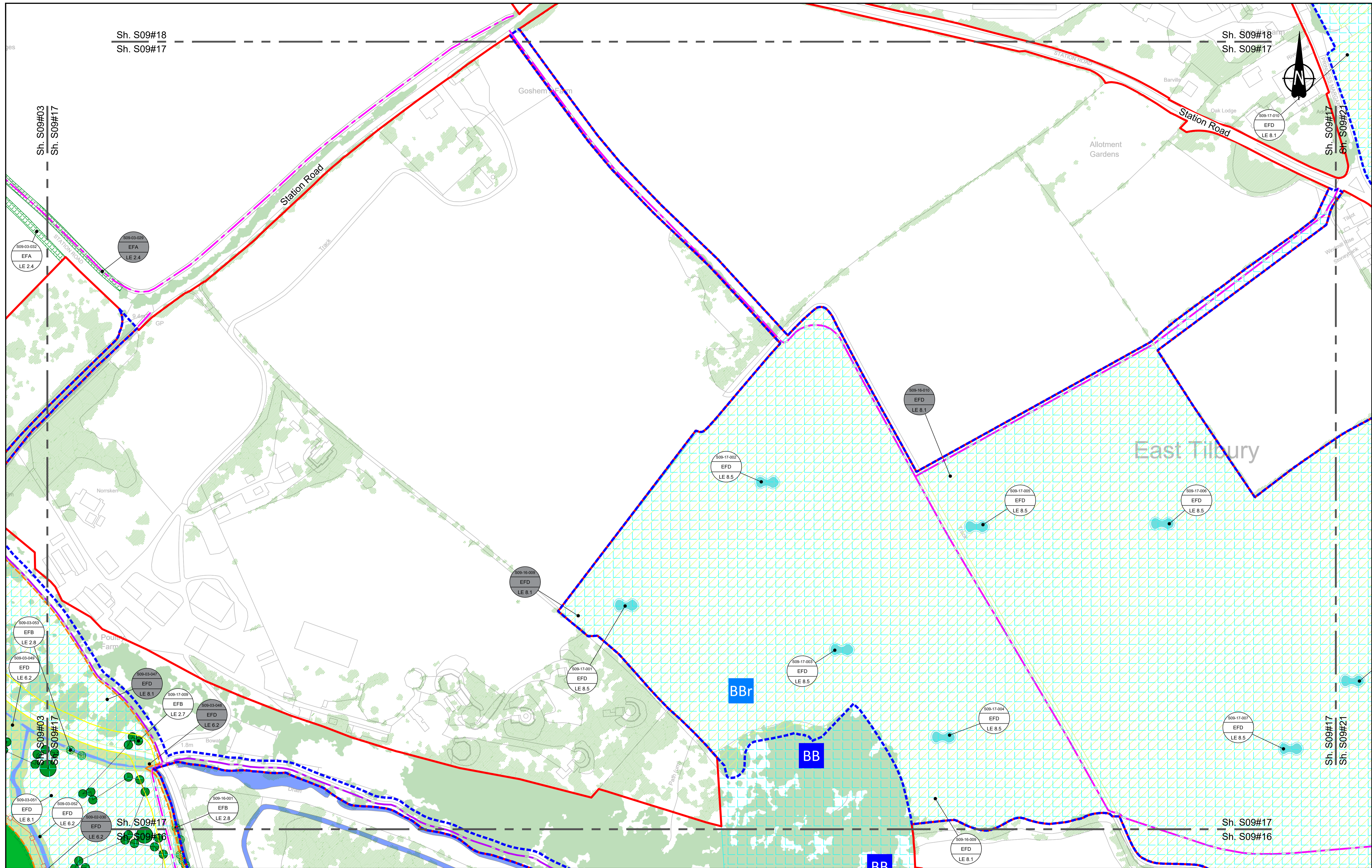
- E 3.2 Ecological Habitat Creation and Receptor Sites for Protected Species
- E 3.2 Dormouse Boxes
- E 3.2 Bat Boxes
- E 3.2 Ecological Culvert
- E 3.2 Bat Barn Block
- E 3.2 Ecological Fencing (inc. highway boundary fence)
- E 3.2 Barn Owl Box

Client: **national highways**

Project: **LOWER THAMES CROSSING**

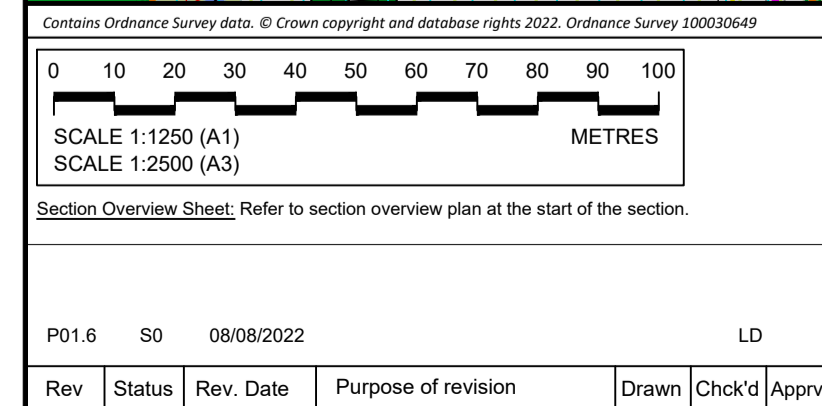
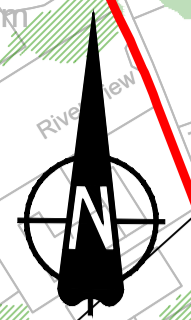
Status	Initial Status or WIP	Original Size	A1	Revision	P01.6
Application Document Number	TR010032/APP/6.2	Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 16				
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00017				

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00017.dwg



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Sh. S09#17

Sh. S09#18
Sh. S09#17



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
Permanent Acquisition of Land	LE 2.1 Woodland	LE 2.7 Scattered 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 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh
LE 1.4 Rock and Scree	LE 2.4 Linear Belt of Shrubs and Trees	LE 6.2 Banks and Ditches
		LE 6.21 Banks and Ditches - High Tide Root Features

Individual Trees (LE 5)	LE 5.1 Individual Trees
Wetland Habitats (LE 6)	LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh
LE 6.11 Water Bodies - Standing Water	
LE 6.12 Water Bodies and Associated Plants - Shallow Scrape	
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

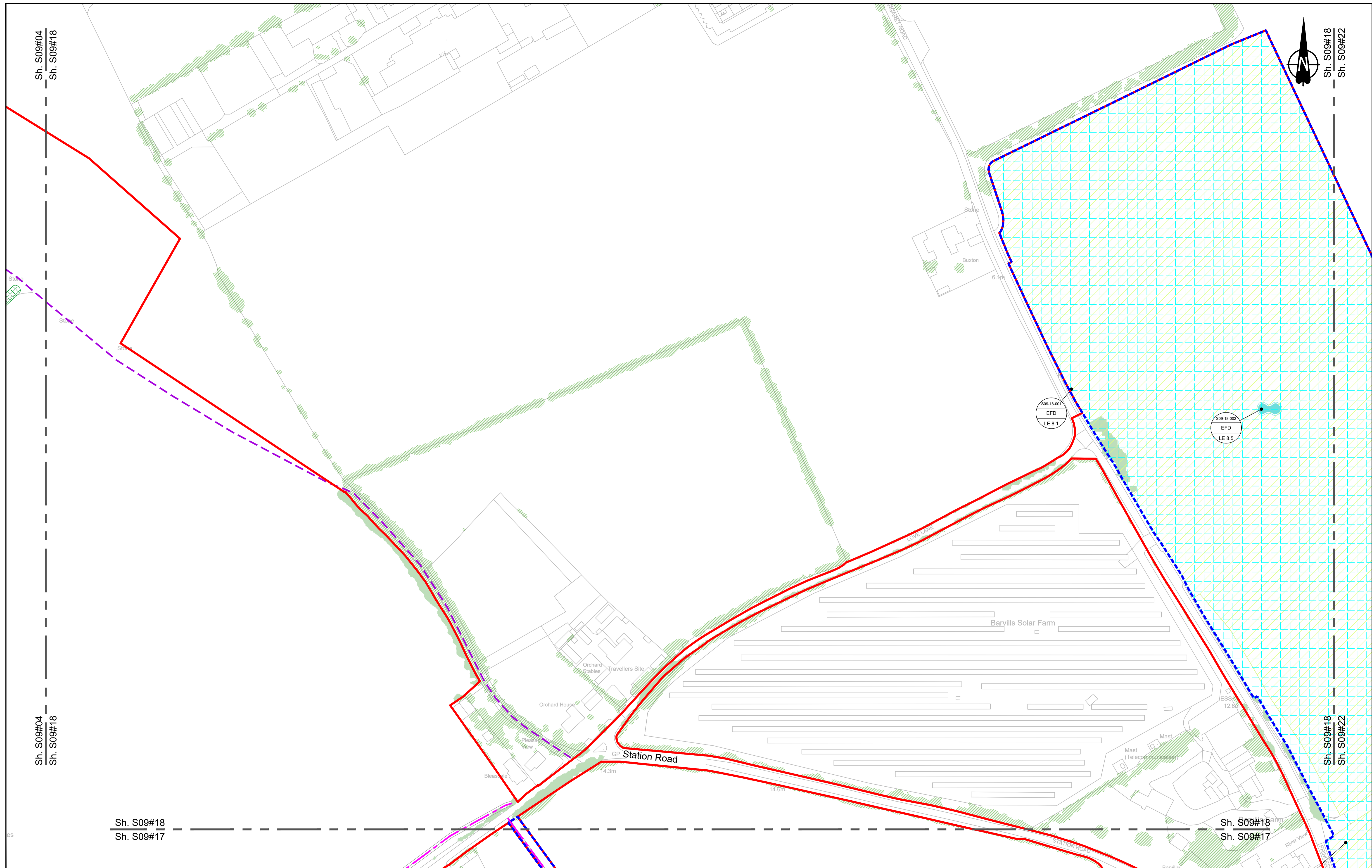
Ecological Habitats (LE 8)	LE 8.1 Open Mosaic Habitat
LE 8.2 Ancient Woodland Compensation Planting	
LE 8.3 Woodland Mitigation Planting	
LE 8.4 Wetland / Fenland Creation	
LE 8.5 Ecology Pond (indicative symbol only)	
LE 8.6 Acid Grassland Soil Salvage	
Noise (E 1)	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area
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 Ecological Fencing (inc. highway boundary fence)	
E 3.2 Barn Owl Box	

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 17		
Drawing Number: HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00018		



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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	Chkd	Apprv'd
P01.6	SO	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).

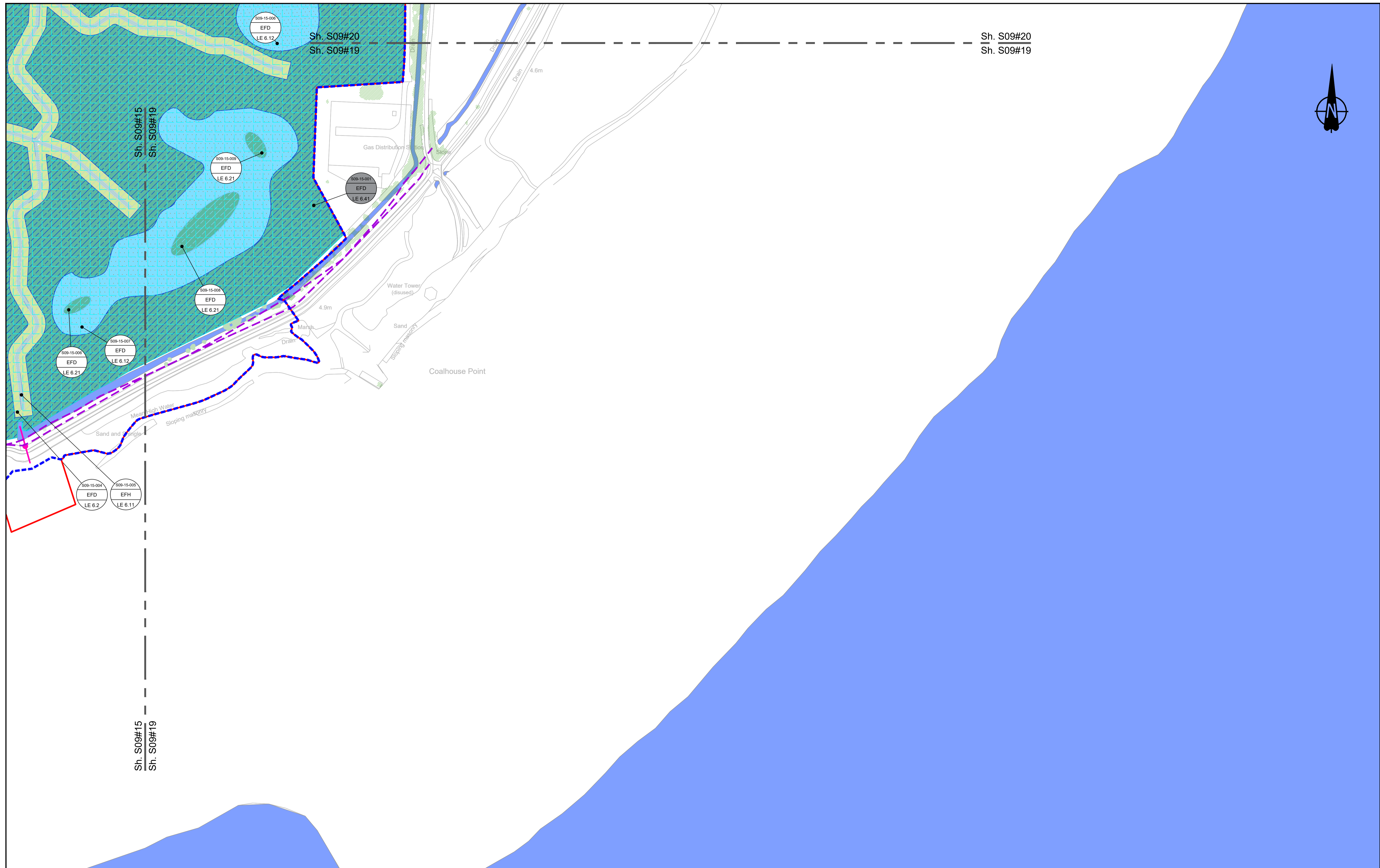
<p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (LE 2)</p> <ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees 	<p>Individual Trees (LE 5)</p> <ul style="list-style-type: none"> LE 5.1 Individual Trees <p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features 	<p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Farmland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage 	<p>Noise (E 1)</p> <ul style="list-style-type: none"> E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) <p>Water (E 2)</p> <ul style="list-style-type: none"> Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD) 	<p>Ecological (E 3)</p> <ul style="list-style-type: none"> E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Dormouse Boxes E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block 	<p>Hard Landscape Features (LE 7)</p> <ul style="list-style-type: none"> LE 7.4 Reinforced Earth Bund <p>Earthworks</p> <ul style="list-style-type: none"> Proposed Contours 	<p>Other Features</p> <ul style="list-style-type: none"> LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.42 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.43 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.44 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.45 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.46 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.47 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.48 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.49 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.50 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.51 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.52 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.53 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.54 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.55 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.56 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.57 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.58 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.59 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.60 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.61 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.62 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.63 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.64 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.65 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.66 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.67 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.68 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.69 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.70 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.71 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.72 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.73 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.74 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.75 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.76 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.77 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.78 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.79 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.80 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.81 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.82 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.83 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.84 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.85 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.86 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.87 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.88 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.89 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.90 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.91 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.92 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.93 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.94 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.95 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.96 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.97 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.98 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.99 Marsh and Wet Grassland - Coastal Grazing Marsh LE 7.00 Marsh and Wet Grassland - Coastal Grazing Marsh
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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 18				
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00019				

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



Sh. S09#20
Sh. S09#19

Sh. S09#15
Sh. S09#19

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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	Chk'd	Apprv'd
P01.6	SO	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).

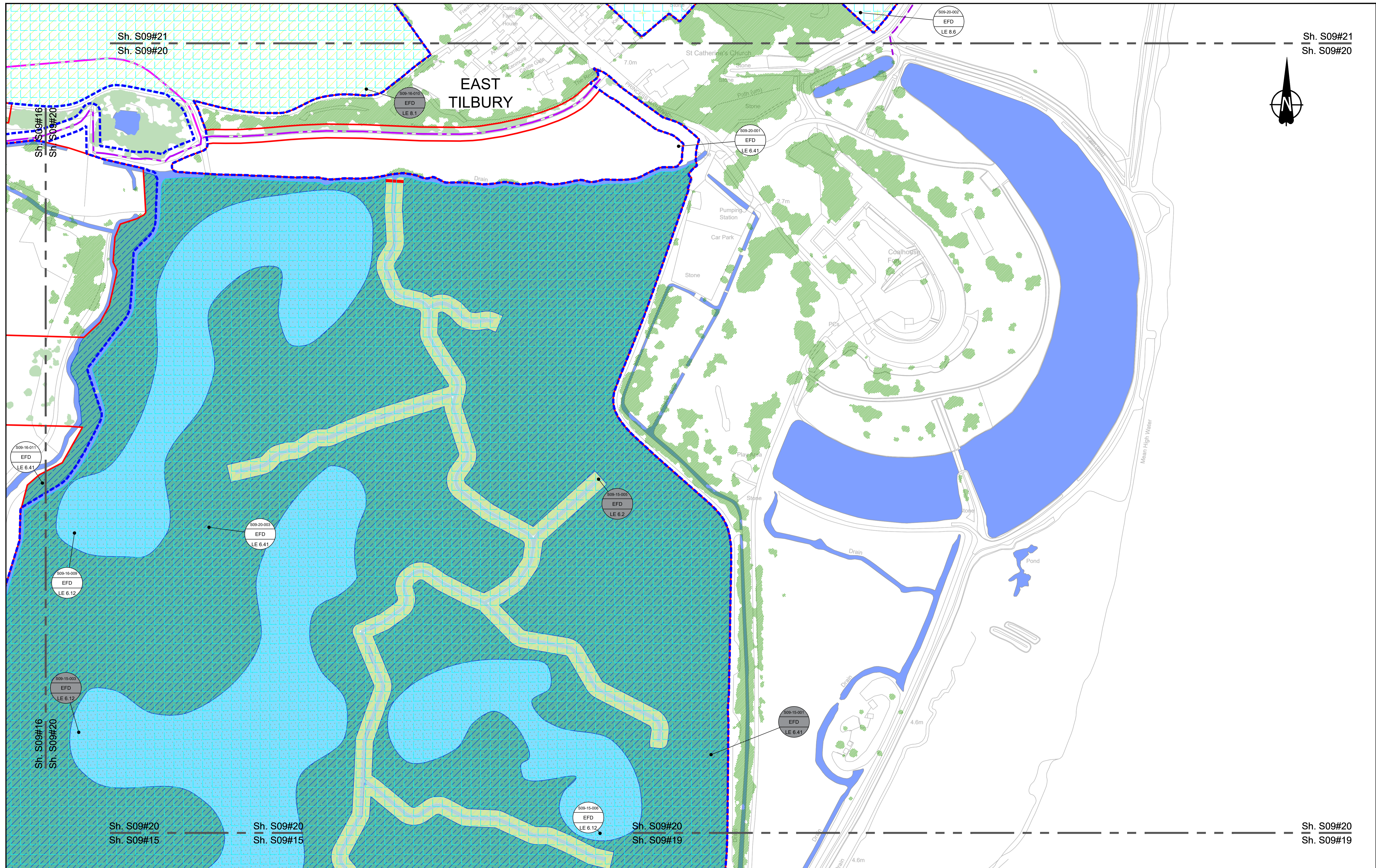
<p>Order Limits</p> <ul style="list-style-type: none"> Order Limits Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting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

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 19				
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00020				



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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	Chkd	Apprv'd
P01.6	SO	08/08/2022				LD

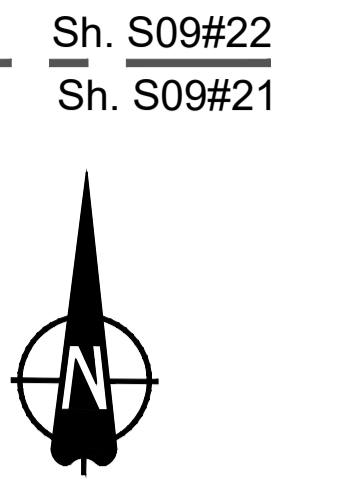
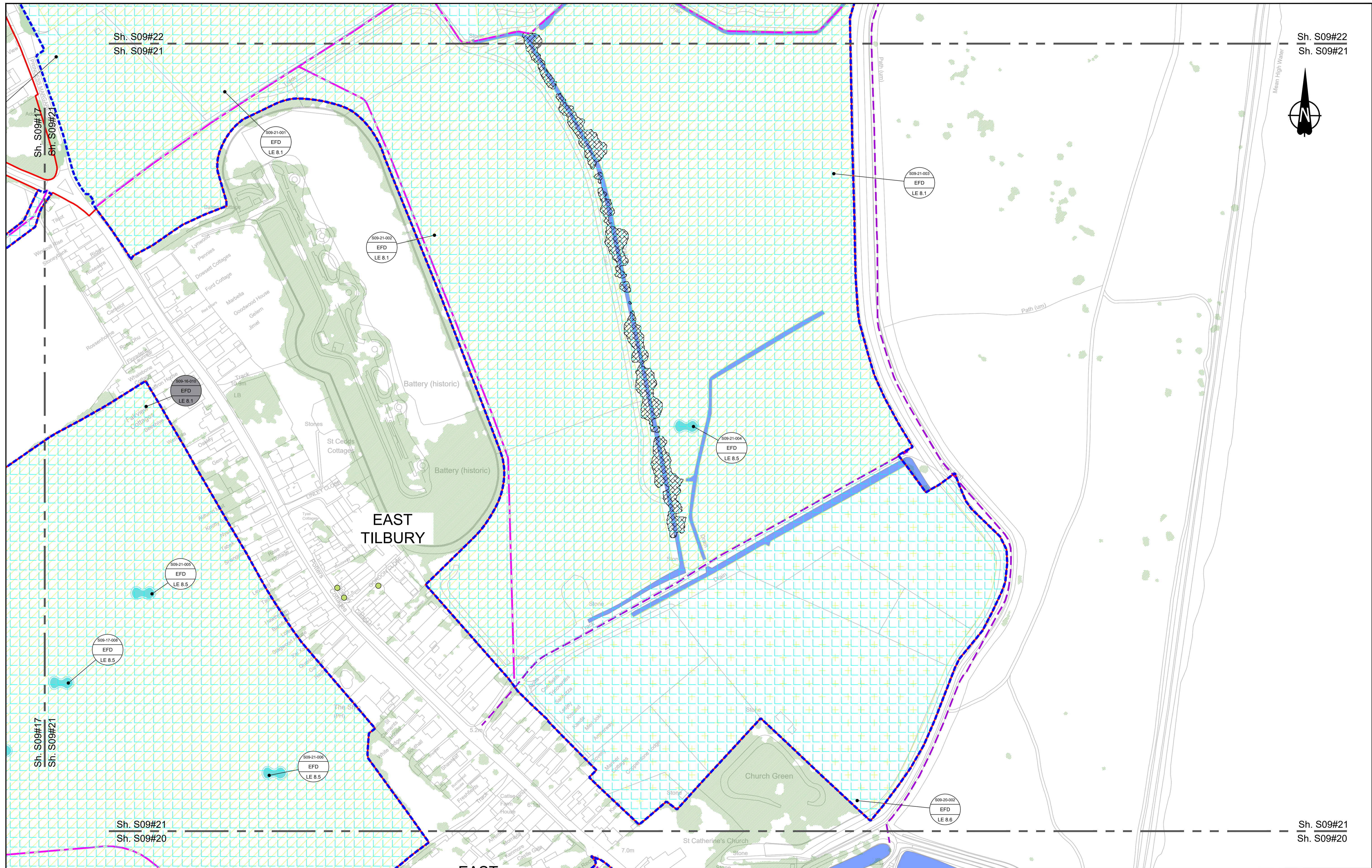
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

<p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (LE 2)</p> <ul style="list-style-type: none"> LE 2.1 Woodland LE 2.11 Woodland With Non-Native Species LE 2.14 Wet / Carr Woodland LE 2.2 Woodland Edge LE 2.22 Scrub Woodland LE 2.4 Linear Belt of Shrubs and Trees 	<p>Individual Trees (LE 5)</p> <ul style="list-style-type: none"> LE 5.1 Individual Trees <p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Barks and Ditches LE 6.4 Native Hedgerow With Trees 	<p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Farmland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage 	<p>Ecological (E 3)</p> <ul style="list-style-type: none"> E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species E 3.2 Bat Boxes E 3.2 Ecological Culvert E 3.2 Bat Barn Block
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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				



Sh. S09#22
Sh. S09#21

Sh. S09#22
Sh. S09#21

Sh. S09#21
Sh. S09#20

Sh. S09#21
Sh. S09#20

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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 SO 08/08/2022 LD

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).

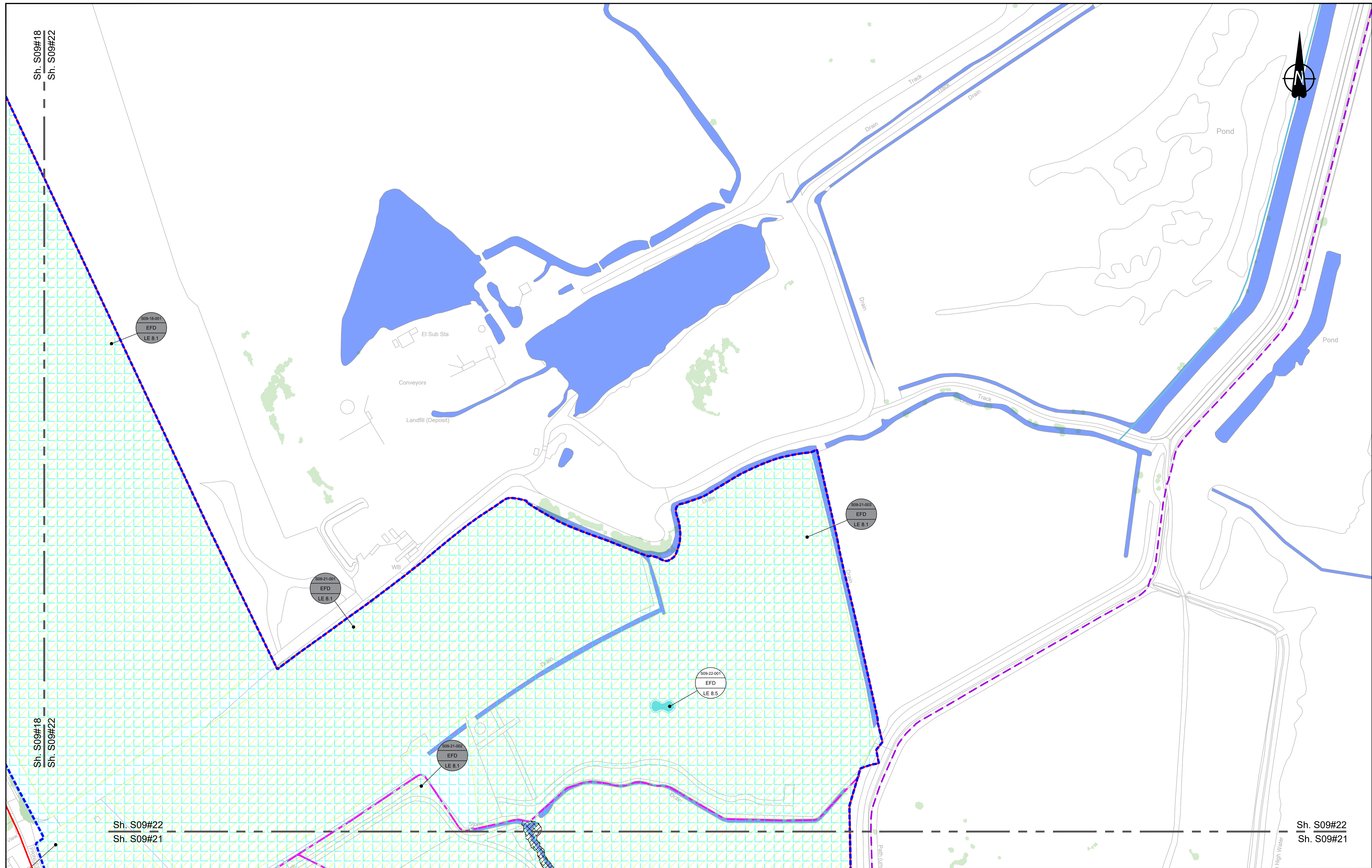
<p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree 	<p>Planting (LE 2)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

Project: **LOWER THAMES CROSSING**

Status	Initial Status or WIP	Original Size	Revision
Application Document Number	TR010032/APP/6.2	A1	P01.6
Scale	1:1250		
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 21		
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00022		

HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00022.dwg



Sh. S09#18
Sh. S09#22

Sh. S09#18
Sh. S09#22

Sh. S09#22
Sh. S09#21

Sh. S09#22
Sh. S09#21

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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	Chkd	Apprv'd
P01.6	SO	08/08/2022				LD

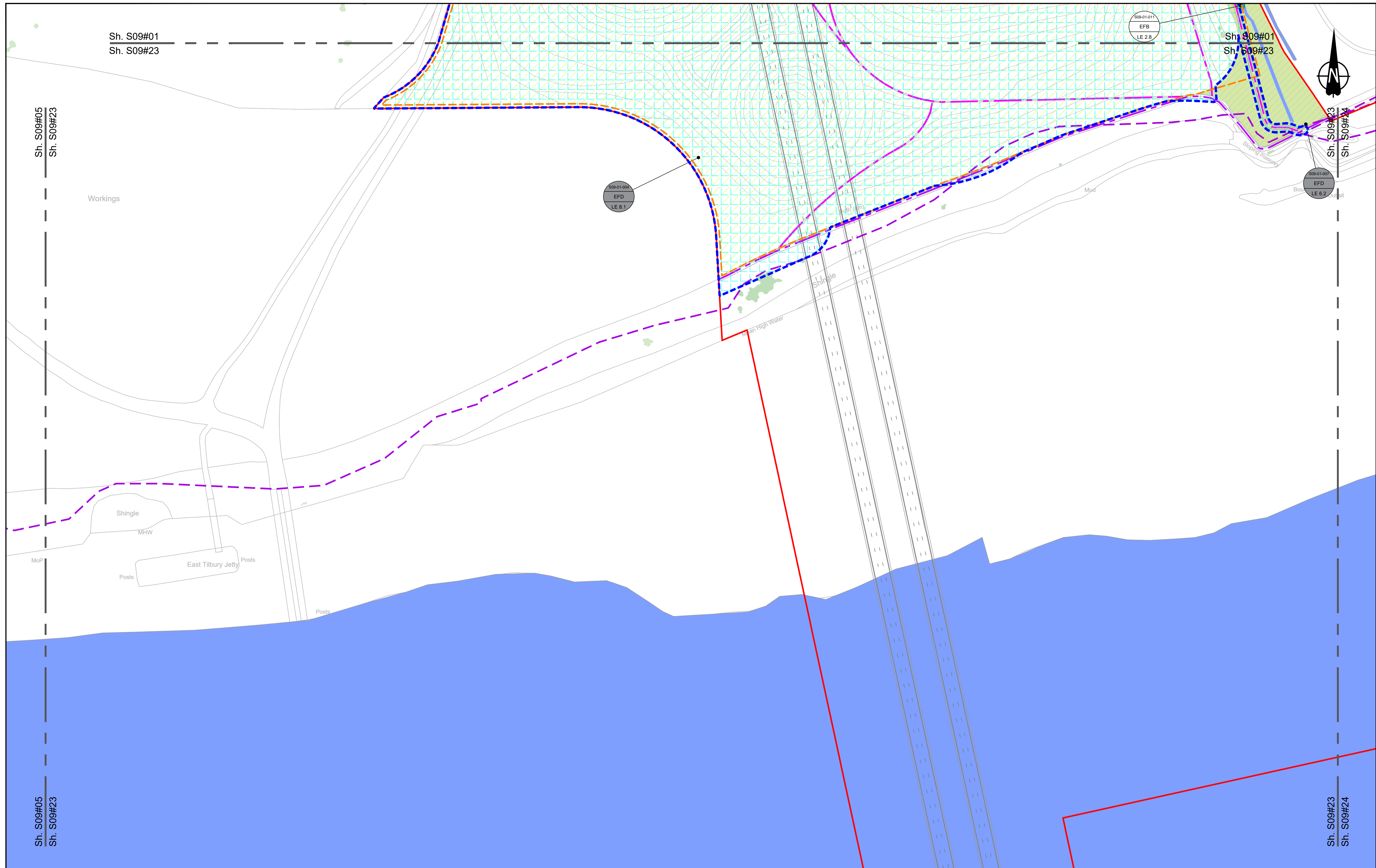
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

Order Limits	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	Hedges (LE 4)	Hard Landscape Features (LE 7)
LE 2.7 Scattered Trees	LE 4.3 Native Species Hedge (untrimmed)	LE 7.4 Reinforced Earth Bund
LE 2.8 Scrub / Scattered Scrub	LE 4.4 Native Hedgerow With Trees	Earthworks
Ecological Habitats (LE 8)		Proposed Contours
LE 8.1 Open Mosaic Habitat		
LE 8.2 Ancient Woodland Compensation Planting		
LE 8.3 Woodland Mitigation Planting		
LE 8.4 Wetland / Farmland Creation		
LE 8.5 Ecology Pond (indicative symbol only)		
LE 8.6 Acid Grassland Soil Salvage		

Noise (E 1)	LE 8.7 Nitrogen Deposition (NDEP) Compensation Area	Ecological (E 3)
E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	Water (E 2)	E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
Water (E 2)	E 2.1 Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Fencing (inc. highway boundary fence)
E 2.2 Flood Defence (E 2-FD)	Ecological (E 3)	E 3.2 Ecological Culvert
Ecological (E 3)	E 3.2 Ecological Culvert	E 3.2 Bat Barn Block
E 3.2 Ecological Fencing (inc. highway boundary fence)	E 3.2 Bat Boxes	E 3.2 Bat Owl Box
E 3.2 Bat Boxes	E 3.2 Dormouse Boxes	
E 3.2 Bat Blocks	E 3.2 Bat Barn Block	

Client	
Project	LOWER THAMES CROSSING
Status	Initial Status or WIP
Application Document Number	TR010032/APP/6.2
Scale	1:1250
Original Size	A1
Revision	P01.6
Drawing title	ENVIRONMENTAL MASTERPLAN SECTION 9 SHEET 22
Drawing Number	HE540039-CJV-EGN-S09_EN000000_Z-DR-ZZ-00023
Client	

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SCALE 1:2500 (A3)
METRES

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

P01.6 SO 08/08/2022 LD

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

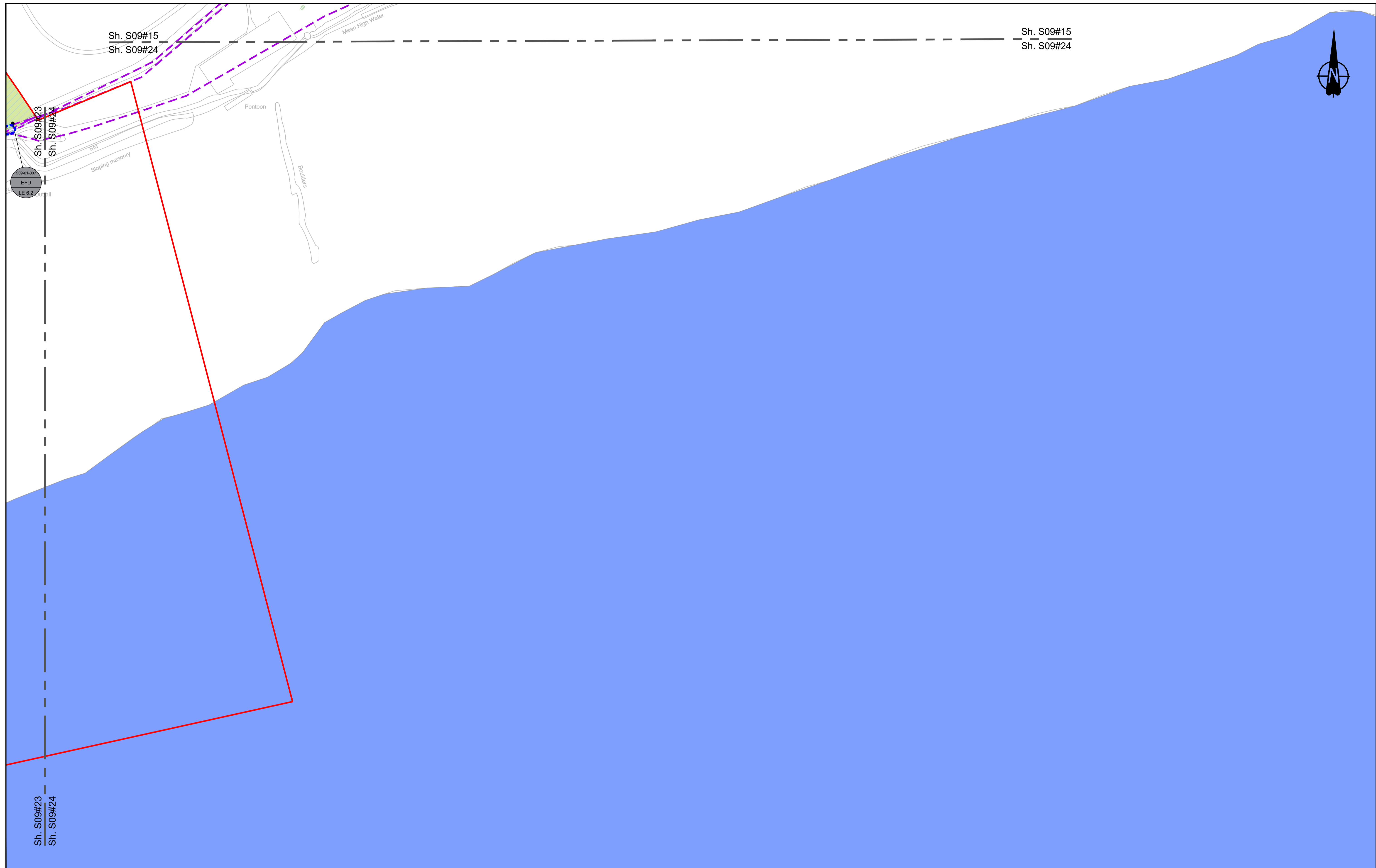
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Grassland (LE 1)	Planting (LE 2)	Individual Trees (LE 5)	Wetland Habitats (LE 6)	Hard Landscape Features (LE 7)	Ecological Habitats (LE 8)	Noise (E 1)	Water (E 2)	Ecological (E 3)
LE 1.3 Species Rich Grassland	LE 2.1 Woodland	LE 5.1 Individual Trees	LE 6.1 Water Bodies - Standing Water	LE 7.4 Reinforced Earth Bund	LE 8.1 Open Mosaic Habitat	LE 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	LE 2.1 Nitrogen Deposition (NDEP) Compensation Area	LE 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
LE 1.31 Species Rich Chalk Grassland	LE 2.11 Woodland With Non-Native Species	LE 5.2 Scattered Trees	LE 6.2 Marsh and Wet Grassland - Coastal Grazing Marsh	LE 7.5 Wet Grassland	LE 8.2 Ancient Woodland Compensation Planting	E 1.1 Acoustic Barrier-Built Elements (typically inc. highway boundary fence)	E 2.2 Flood Compensation Areas (E 2-FCA)	E 3.2 Ecological Fencing (inc. highway boundary fence)
LE 1.32 Species Rich Annual Wildflower Grassland	LE 2.14 Wet / Carr Woodland	LE 5.3 Scattered Scrub	LE 6.3 Water Bodies and Associated Plants - Shallow Scrape	LE 7.6 Native Grassland	LE 8.3 Woodland Mitigation Planting	E 2.1 Flood Compensation Areas (E 2-FCA)	E 2.3 Flood Defence (E 2-FD)	E 3.2 Ecological Culvert
LE 1.4 Rock and Scree	LE 2.2 Woodland Edge	LE 5.4 Native Species Hedge (untrimmed)	LE 6.4 Barks and Ditches	LE 7.7 Native Hedgerow With Trees	LE 8.4 Wetland / Farmland Creation	E 2.4 Flood Defence (E 2-FD)	E 2.5 Flood Defence (E 2-FD)	E 3.2 Bat Boxes
	LE 2.22 Scrub Woodland	LE 5.5 Native Hedgerow With Trees	LE 6.5 High Tide Root Features		LE 8.5 Ecology Pond (indicative symbol only)			E 3.2 Bat Barn Block
	LE 2.4 Linear Belt of Shrubs and Trees				LE 8.6 Acid Grassland Soil Salvage			

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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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	Chkd	Apprv'd
P01.2	SO	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).

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

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		
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