Lower Thames Crossing

6.2 Environmental Statement Figures
Figure 2.4 - Environmental Masterplan Section 11 (7 of 10) (Tracked changes version)

APFP Regulation 5(2)(a)

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

Volume 6

DATE: August 2023
DEADLINE: 2

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

VERSION: 2.0

Lower Thames Crossing

Figure 2.4: Environmental Masterplan

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1.5 Section 11.....9

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1 Environmental Masterplan: Section 11

1.1 Schedule of Plans included in this application document

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1.2 Section 11 (Sheets 1-23)

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00001 - Section 11 Overview	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00002 - Section 11 Sheet 1	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00003 - Section 11 Sheet 2	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00004 - Section 11 Sheet 3	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00005 - Section 11 Sheet 4	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00006 - Section 11 Sheet 5	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00007 - Section 11 Sheet 6	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00008 - Section 11 Sheet 7	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00009 - Section 11 Sheet 8	TR010032/APP/6.2	P01.5

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HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00010 - Section 11 Sheet 9	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00011 - Section 11 Sheet 10	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00012 - Section 11 Sheet 11	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00013 - Section 11 Sheet 12	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00014 - Section 11 Sheet 13	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00015 - Section 11 Sheet 14	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00016 - Section 11 Sheet 15	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00017 - Section 11 Sheet 16	TR010032/APP/6.2	P02
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00018 - Section 11 Sheet 17	TR010032/APP/6.2	P01.5
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00019 - Section 11 Sheet 18	TR010032/APP/6.2	P01.5

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HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00020 - Section 11 Sheet 19	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00021 - Section 11 Sheet 20	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00022 - Section 11 Sheet 21	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00023 - Section 11 Sheet 22	TR010032/APP/6.2	P01.6
HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ- 00024 - Section 11 Sheet 23	TR010032/APP/6.2	P01.1

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1.3 Scheme Overview

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SECTIONS 1-10

SECTIONS 10-14

SECTIONS 1-4 and 9-14

SECTION 1A

INSET: LOCATION MAP

SECTION 1A

Thurrock Council
Medway Council
Gravesham Borough Council
Brentwood Borough Council
London Borough of Havering

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P01.3 S0 2021/09/23

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

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 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

Original Size: A1

Revision: P01.3

Application Document Number: TR010032/APP/6.2

Scale

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

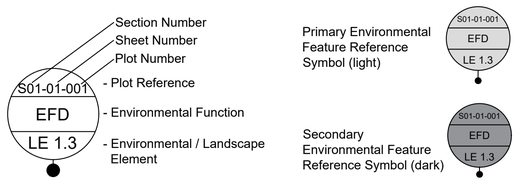
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed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

1.5 Section 11

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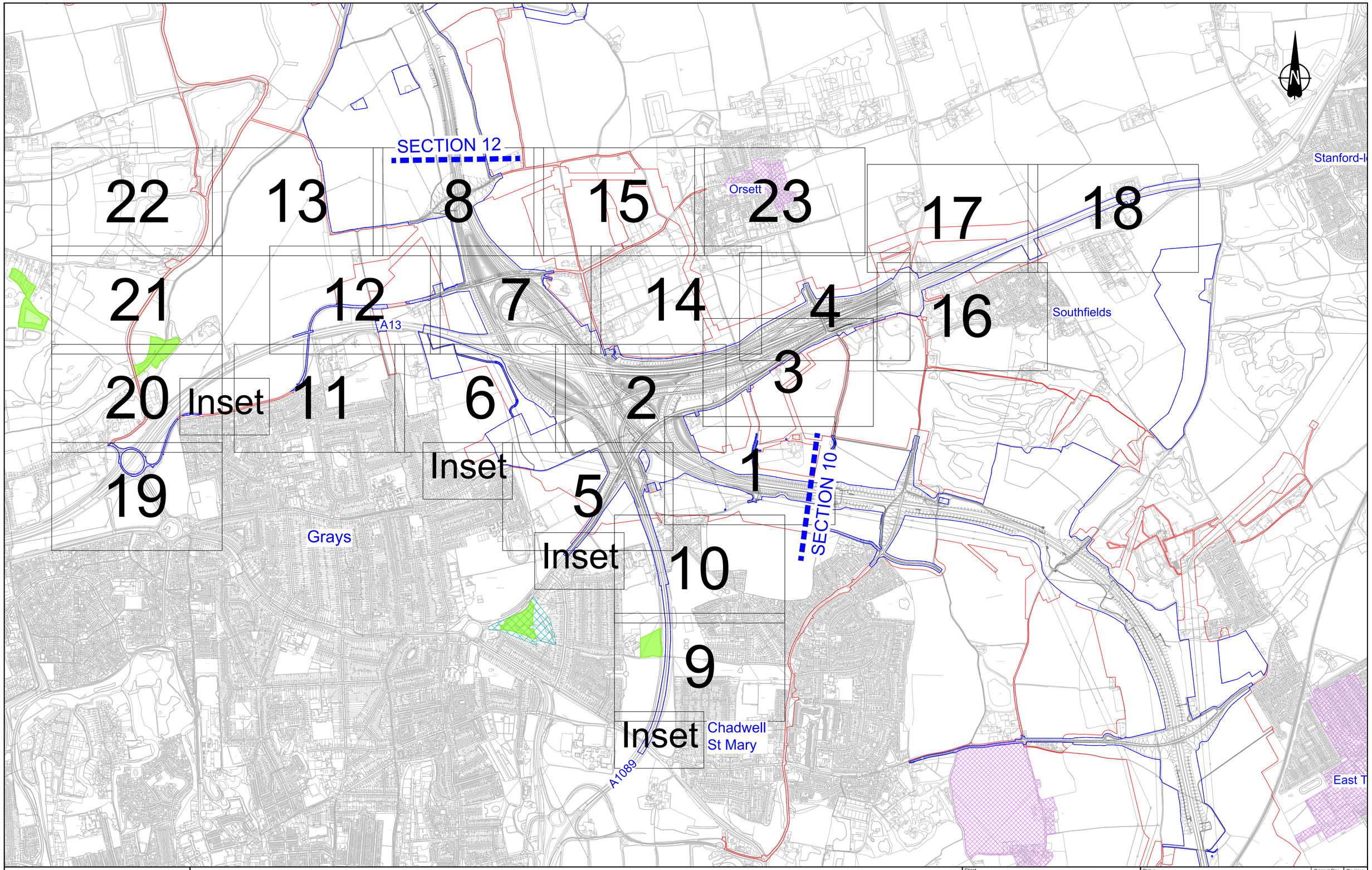

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0 50 100 150 200 250 300 350 400 450 500

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

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

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

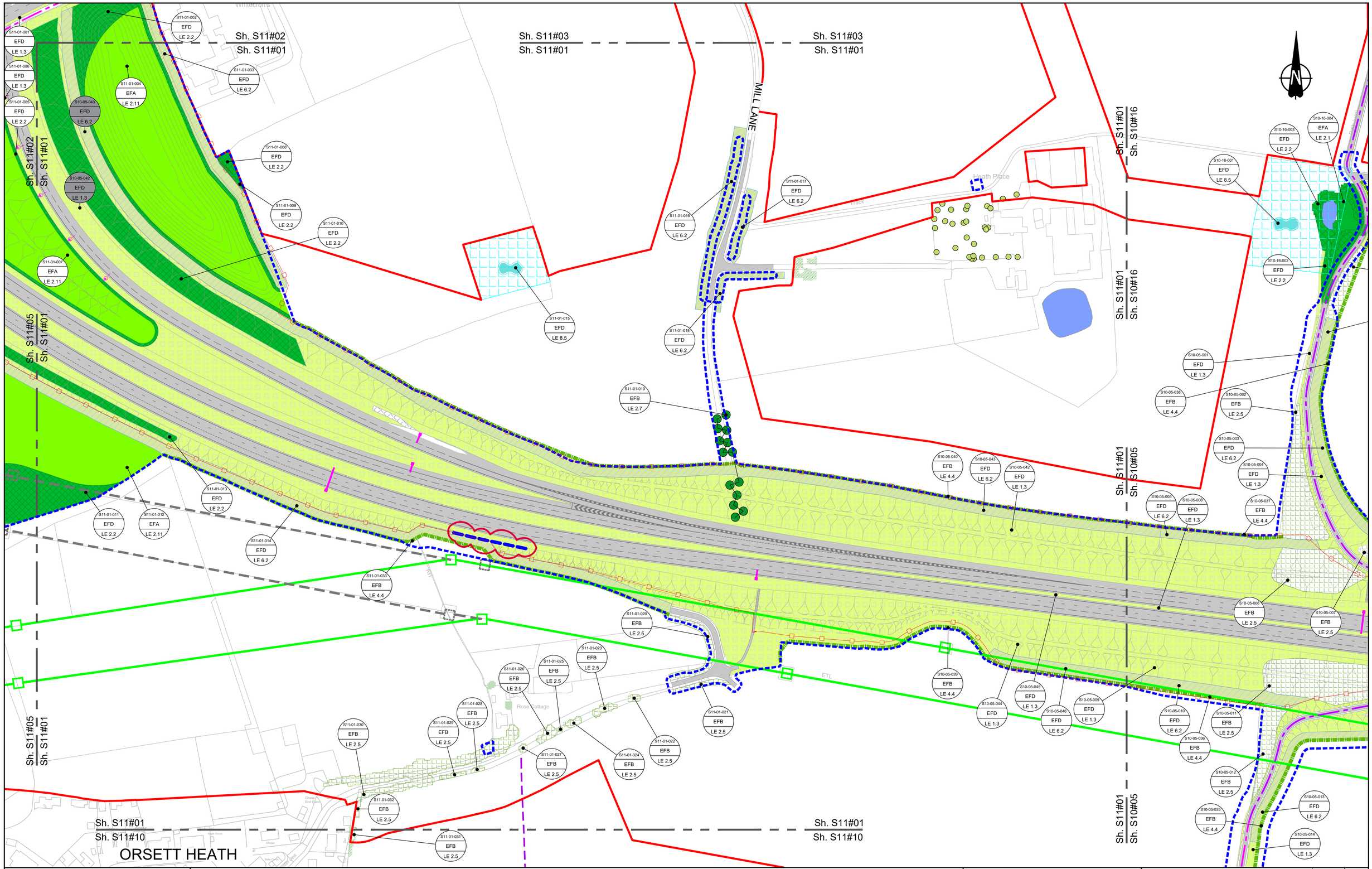
Project: LOWER THAMES CROSSING

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

Drawing title:
ENVIRONMENTAL MASTERPLAN OVERVIEW PLAN SECTION 11

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00001

HE540039-CJV-EGN-S11_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
Original Size	A1
Revision	P02
Application Document Number	TR010032/APP/6.2
Scale	1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 1

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00002

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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
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Grassland (LE 1)
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- LE 2.7 Scattered Trees
- LE 2.8 Scrub / Scattered Scrub

Hedges (LE 4)
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- LE 6.41 Marsh and Wet Grassland – Coastal Grazing Marsh

Hard Landscape Features (LE 7)
- LE 7.4 Reinforced Earth Bund

Earthworks
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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 11 SHEET 2

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00003

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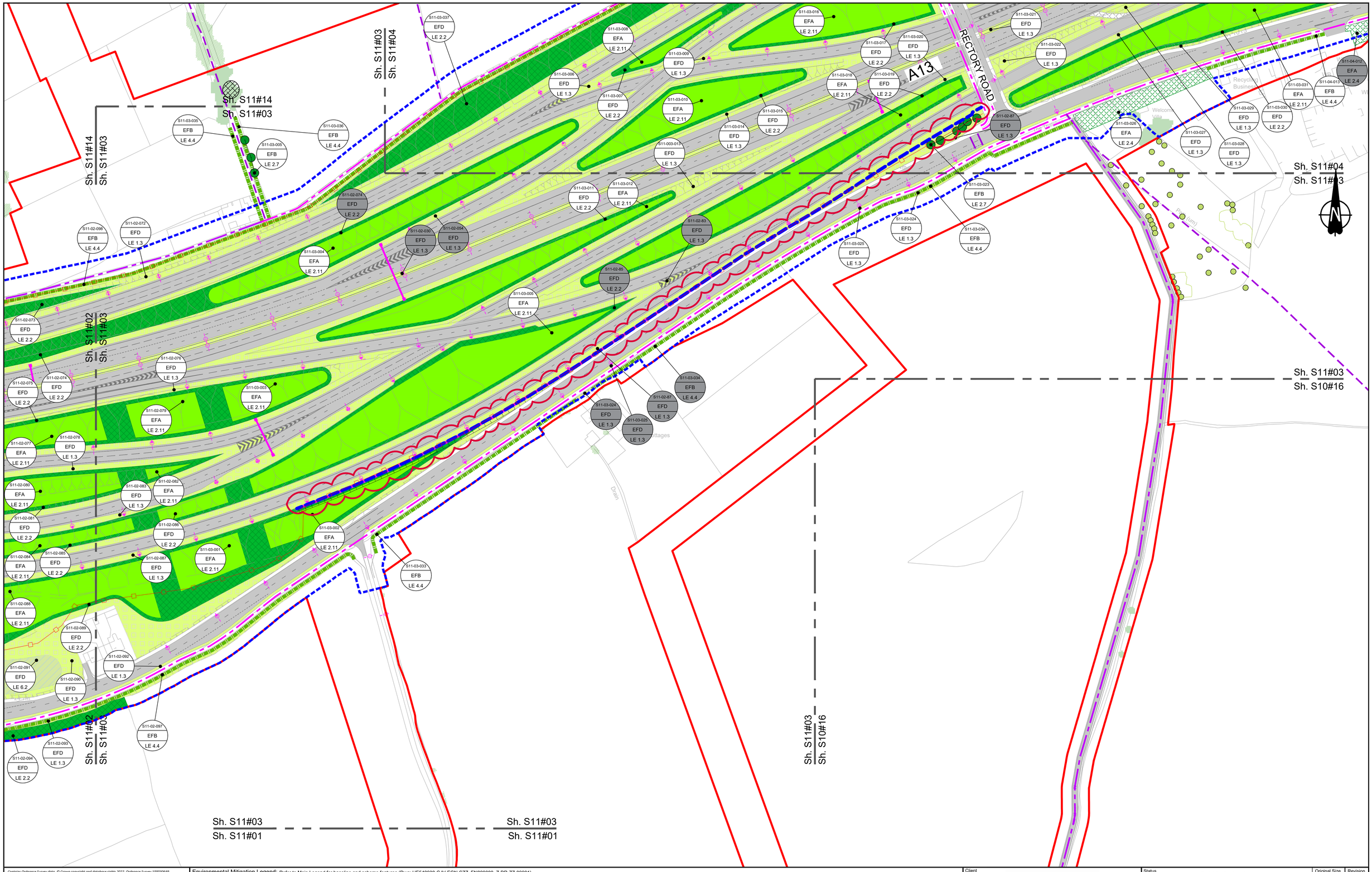

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0 10 20 30 40 50 60 70 80 90 100 METRES

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	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).

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- Permanent Acquisition of Land

Grassland (LE 1)
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- 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
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- 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

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- 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 11 SHEET 3

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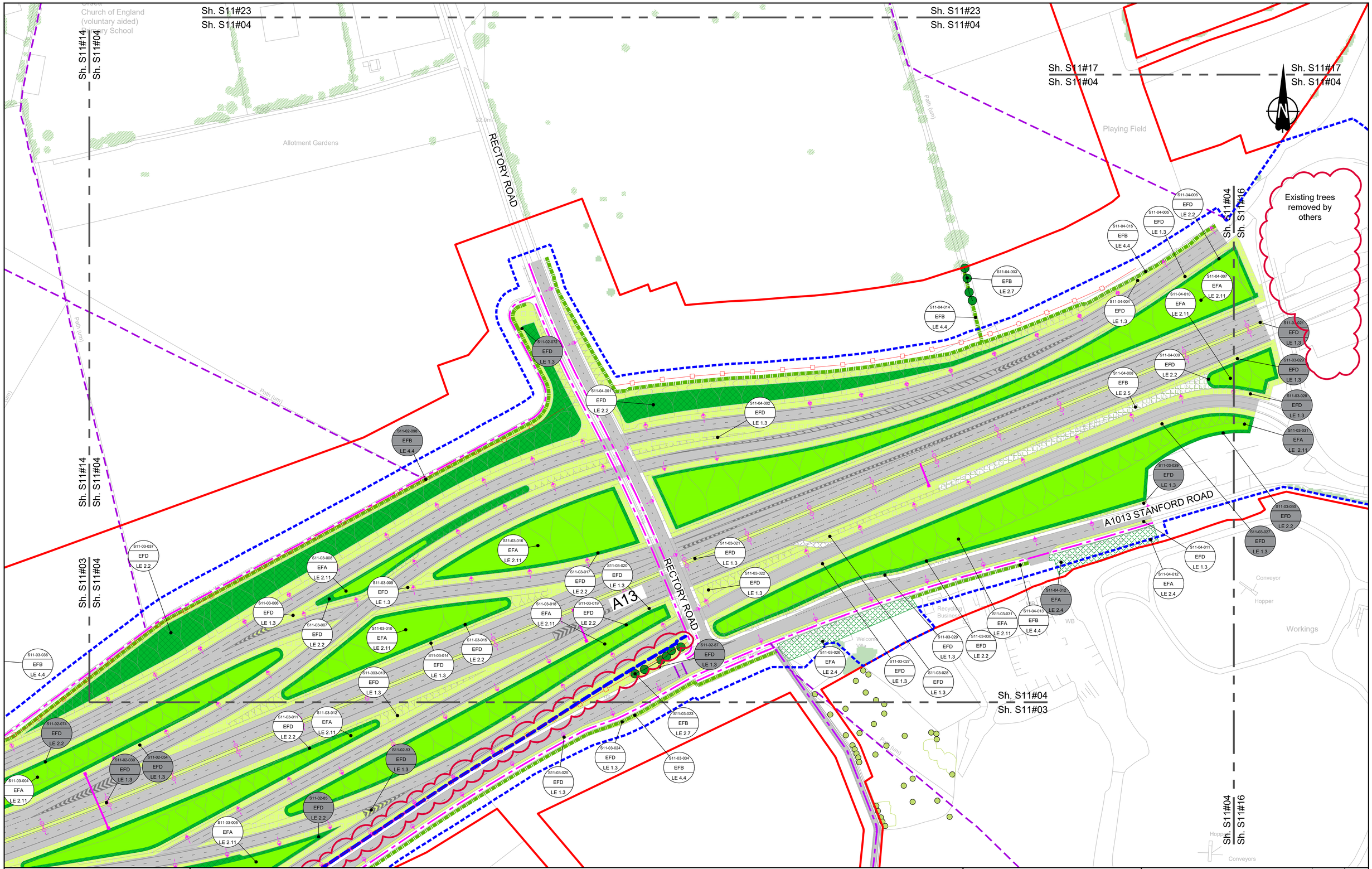

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0 10 20 30 40 50 60 70 80 90 100 METRES

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	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 11 SHEET 4

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00005

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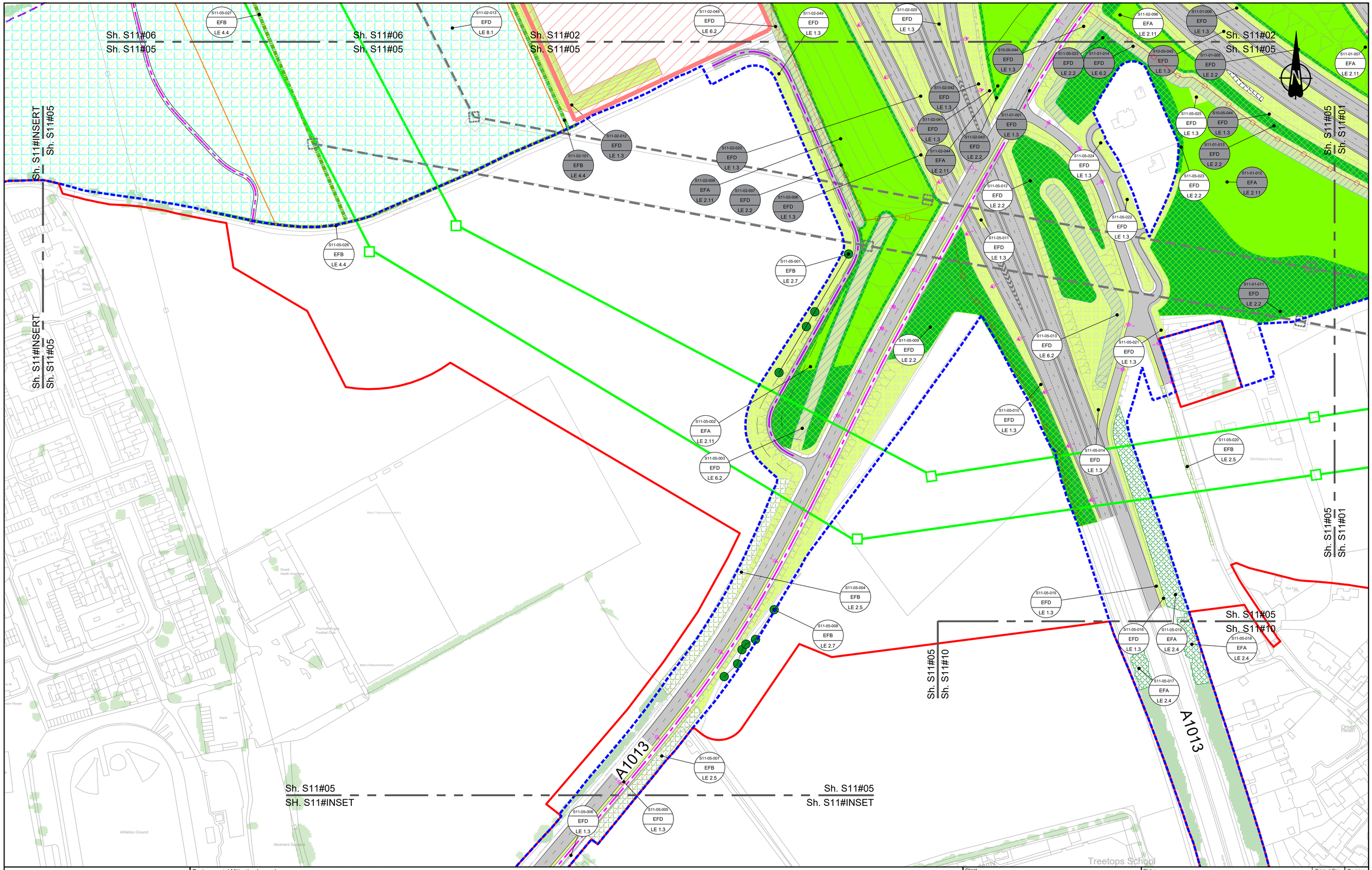

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Section Overview Sheet: Refer to section overview plan at the start of the section.

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Apprv'd
P01.5	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	P01.5
Application Document Number	TR010032/APP/6.2
Scale	1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 5

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00006

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Sh. S11#12
Sh. S11#06

Sh. S11#12
Sh. S11#06

Sh. S11#07
Sh. S11#06

Sh. S11#07
Sh. S11#06

Sh. S11#11
Sh. S11#06

Sh. S11#06
Sh. S11#02

A13

S11-06-001 EFD LE 8.1
S11-06-002 EFB LE 2.5
S11-06-003 EFD LE 1.3
S11-06-004 EFD LE 8.5
S11-06-005 EFD LE 8.5
S11-06-006 EFB LE 2.5
S11-06-007 EFB LE 2.5
S11-06-008 EFD LE 2.2
S11-06-009 EFA LE 2.11
S11-06-010 EFD LE 8.5
S11-06-011 EFB LE 2.7
S11-06-012 EFD LE 1.3
S11-06-013 EFB LE 2.5
S11-06-014 EFD LE 1.3
S11-06-015 EFD LE 1.3
S11-06-016 EFB LE 2.5
S11-06-017 EFD LE 2.2
S11-06-018 EFD LE 1.3
S11-06-019 EFA LE 2.11
S11-06-020 EFB LE 4.4
S11-06-021 EFB LE 4.4
S11-06-022 EFB LE 4.4
S11-06-023 EFB LE 4.4
S11-06-024 EFB LE 4.4
S11-06-025 EFB LE 4.4
S11-05-027 EFB LE 4.4
S11-02-001 EFD LE 1.3
S11-02-002 EFD LE 6.2
S11-02-003 EFD LE 2.2
S11-02-004 EFA LE 2.11
S11-02-005 EFD LE 1.3
S11-02-006 EFD LE 1.3
S11-02-007 EFD LE 2.2
S11-02-008 EFD LE 1.3
S11-02-009 EFA LE 2.11
S11-02-010 EFA LE 2.11
S11-02-011 EFD LE 2.2
S11-02-012 EFD LE 1.3
S11-02-013 EFD LE 8.1
S11-02-048 EFD LE 6.2
S11-02-101 EFB LE 4.4

Sh. S11#06
Sh. S11#INSET

Sh. S11#06
Sh. S11#INSET

LITTLE THURROCK

Sh. S11#11
Sh. S11#06

Sh. S11#06
Sh. S11#INSET

Sh. S11#06
Sh. S11#INSET

Sh. S11#06
Sh. S11#05

Sh. S11#06
Sh. S11#05

Sh. S11#06
Sh. S11#02

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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	Appr'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
Original Size: A1
Revision: P02
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 6

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00007

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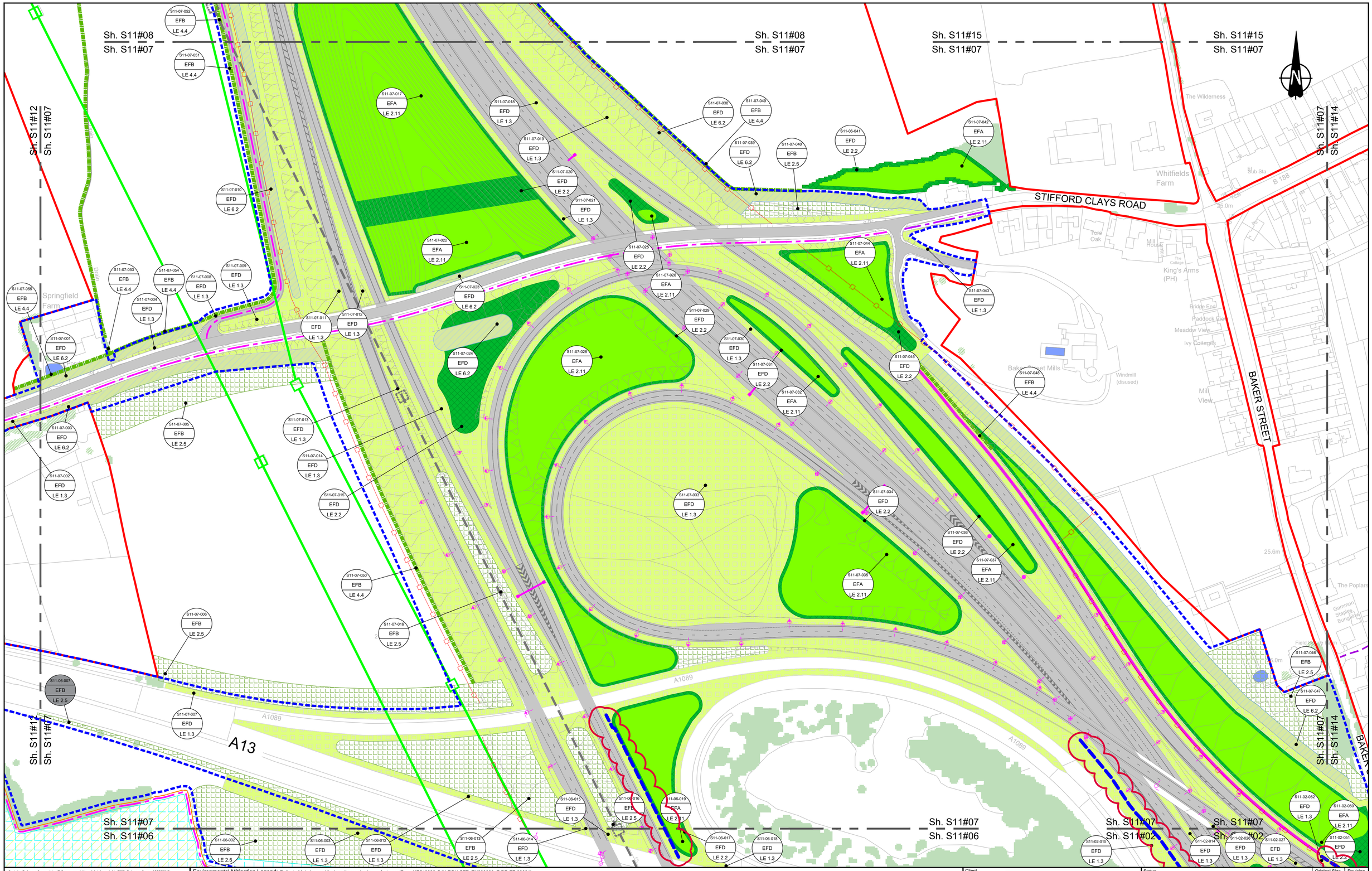

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)

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

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 7

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00008

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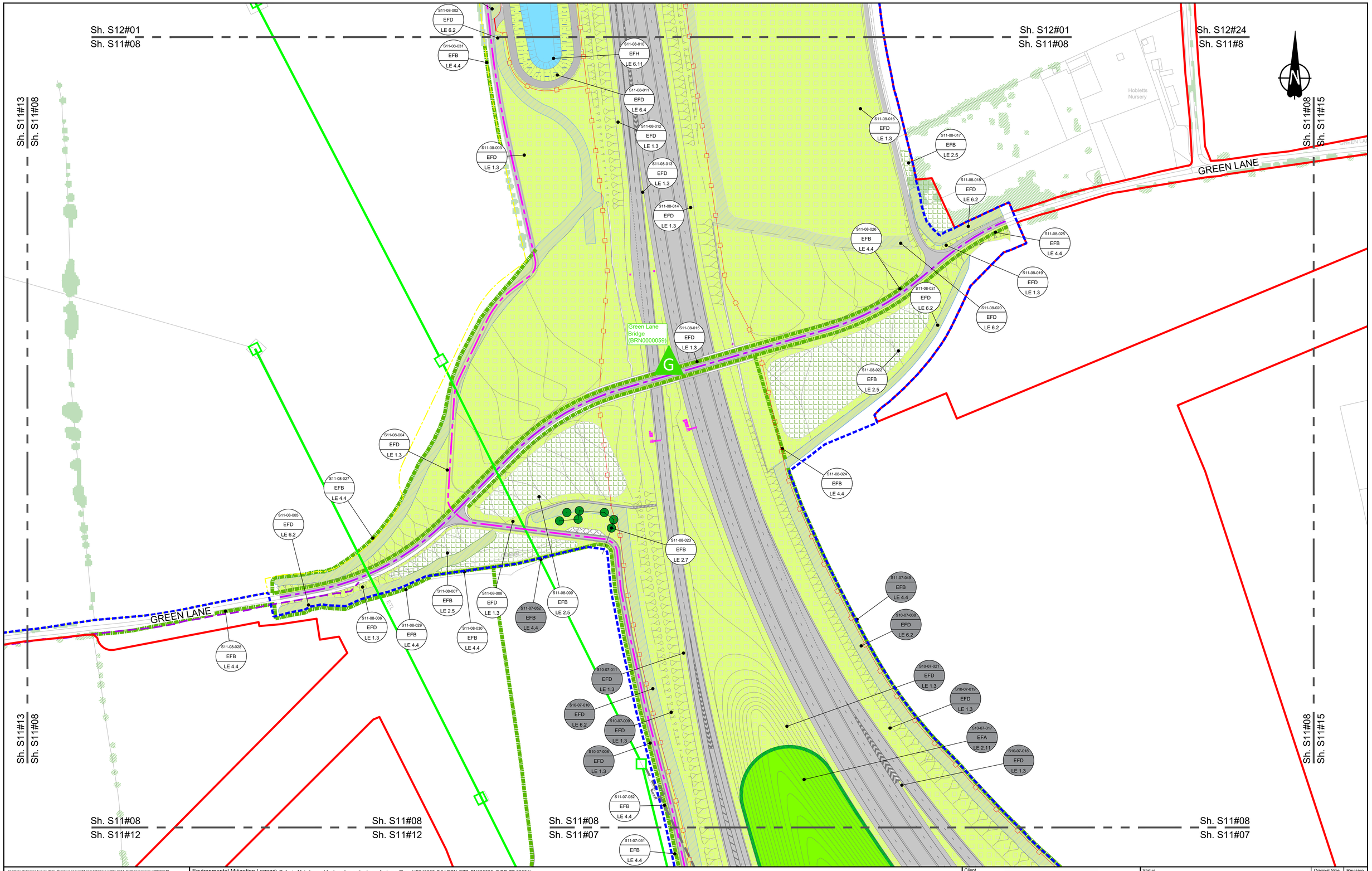

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)
METRES

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

Rev	Status	Rev. Date	Purpose of revision	Drawn	Chck'd	Appr'd
P01.5	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: P01.5
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 8

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00009

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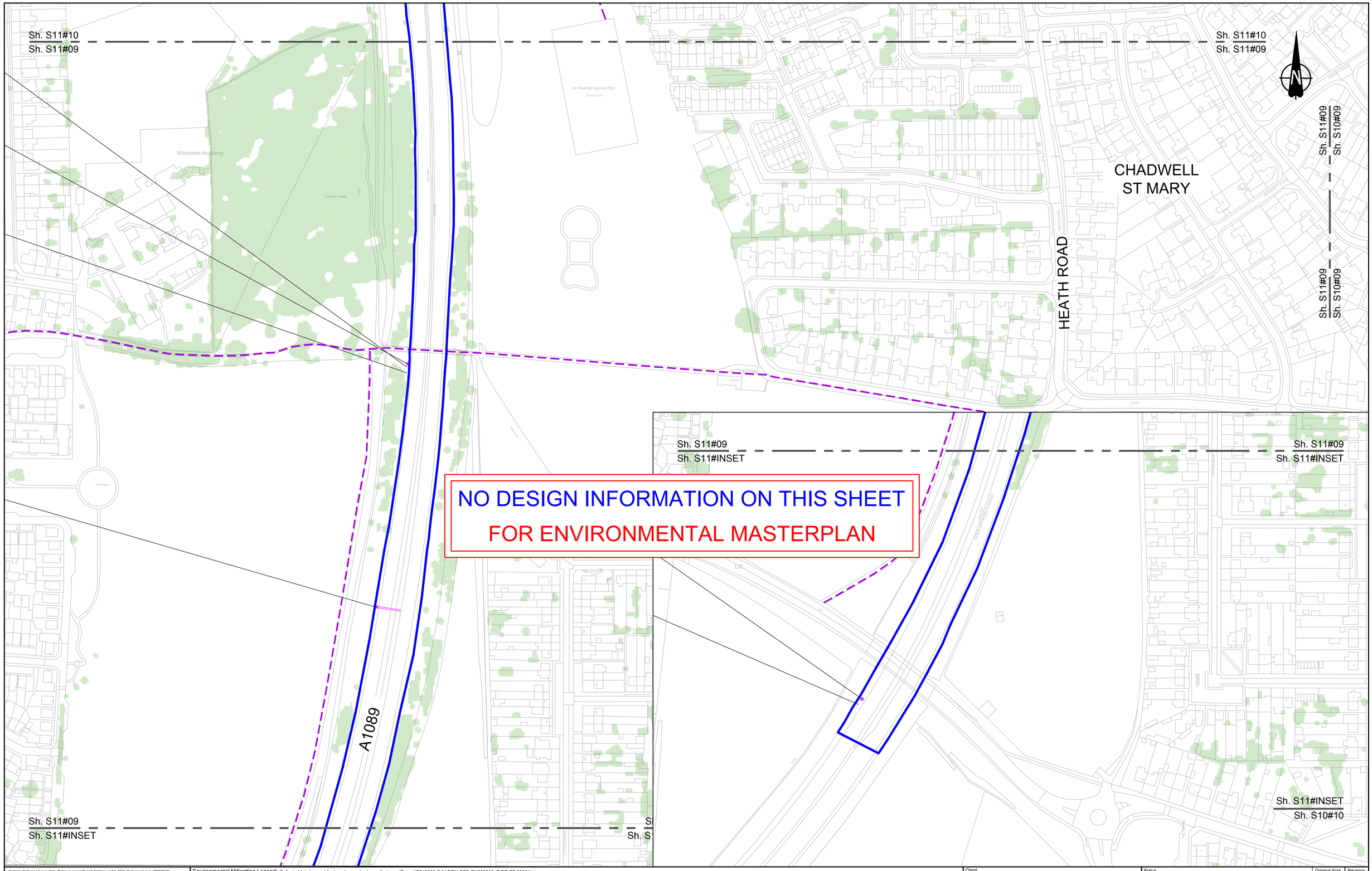

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)
METRES

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
- 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 11 SHEET 9

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00010

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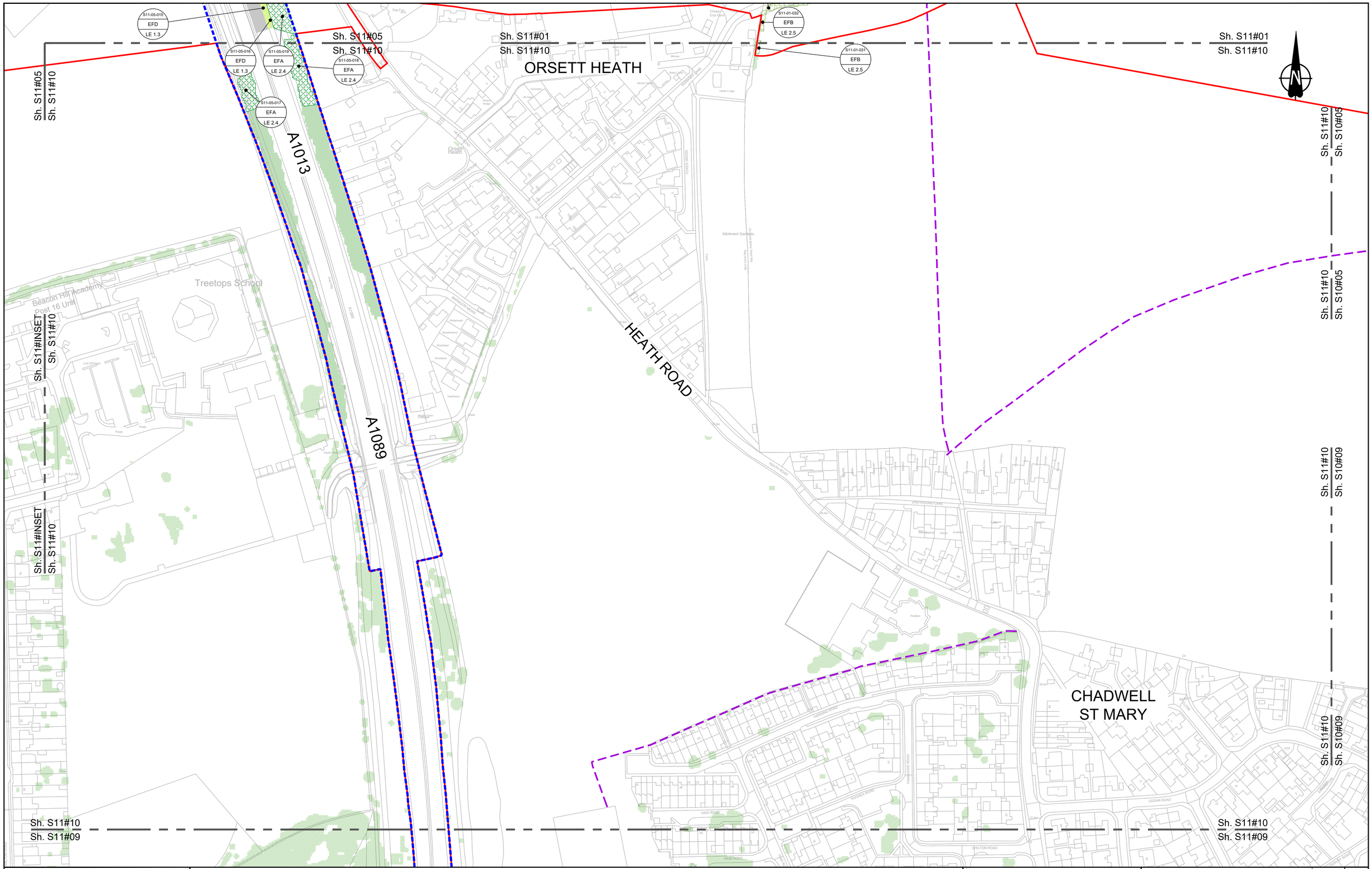

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0 10 20 30 40 50 60 70 80 90 100

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
P01.5	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	P01.5
Application Document Number	TR010032/APP/6.2
Scale	1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 10

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00011

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00011.dwg

Sh. S11#12
Sh. S11#11

A13

Sh. S11#INSET
Sh. S11#11

STIFFORD CLAYS ROAD

BLACKSHOTS LANE

Sh. S11#11
Sh. S11#06

William Edwards School
and Sports College
(secondary)

Stifford Clays Junior
and Infant Schools

LITTLE
THURROCK

NO DESIGN INFORMATION ON THIS SHEET

FOR ENVIRONMENTAL MASTERPLAN

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0 10 20 30 40 50 60 70 80 90 100
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
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Noise (E 1)
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- Flood Defence (E 2–FD)

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- 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 11 SHEET 11

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00012

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00012.dwg

Sh. S11#13
Sh. S11#12

Sh. S11#13
Sh. S11#12

Sh. S11#08
Sh. S11#12

Sh. S11#08
Sh. S11#12

Sh. S11#12
Sh. S11#07

GREEN LANE

STIFFORD CLAYS ROAD

A13

S11-12-001 EFB LE 2.5

S11-12-002 EFB LE 2.5

S11-12-003 EFB LE 2.5

S11-12-004 EFB LE 2.5

S11-07-055 EFB LE 4.4

S11-07-001 EFD LE 6.2

S11-07-003 EFD LE 6.2

S11-07-002 EFD LE 1.3

S11-06-007 EFB LE 2.5

Springfield Farm

Oaktrow Stables

Springfield Cottages

The Goslings

Grey Goose Cottage

Sh. S11#12
Sh. S11#11

Sh. S11#12
Sh. S11#11

Sh. S11#12
Sh. S11#06

Sh. S11#12
Sh. S11#06

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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
P01.5	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).

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- 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

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- 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
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Noise (E 1)
- E 1.2 Acoustic Barrier–Built Elements (typically inc. highway boundary fence)

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- Flood Defence (E 2–FD)

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- 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

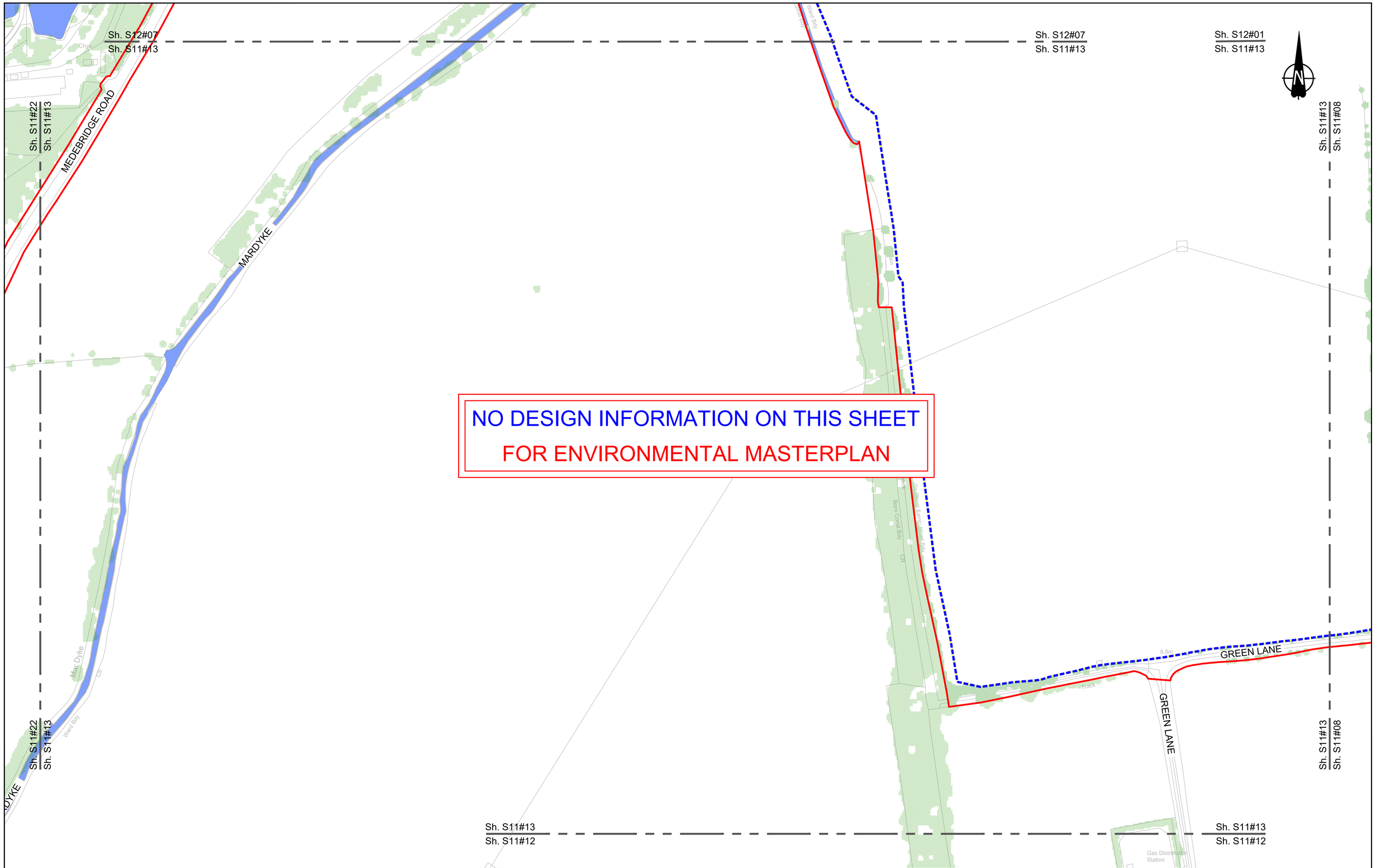
Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Original Size: A1
Revision: P01.5
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 12

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00013

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00013.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
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- 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

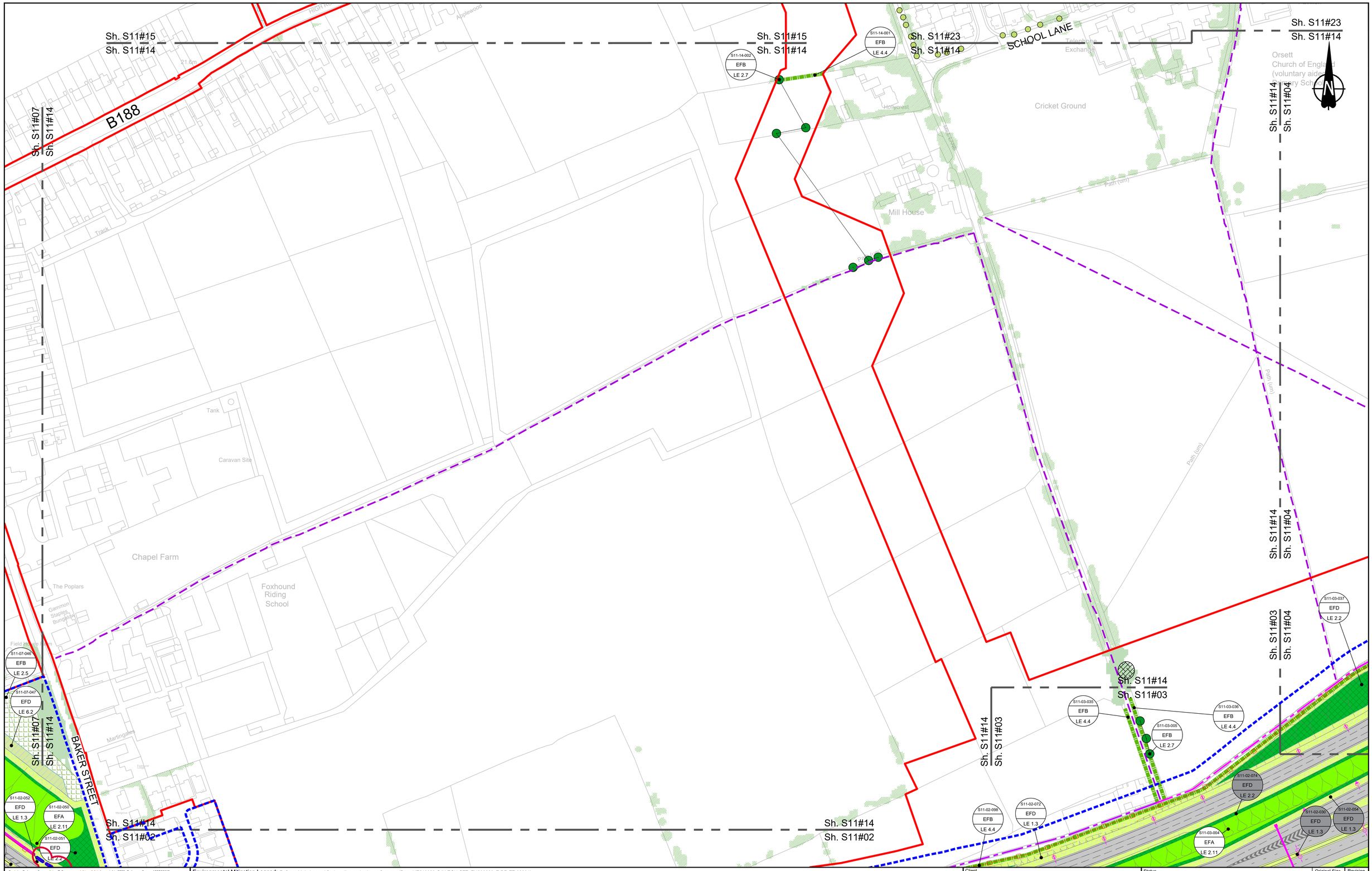
Project: LOWER THAMES CROSSING

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 11 SHEET 13

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00014

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00014.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
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- LE 1.32 Species Rich Annual Wildflower Grassland
- LE 1.4 Rock and Scree

Planting (LE 2)
- LE 2.1 Woodland
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- 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 11 SHEET 14

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00015

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00015.dwg

Sh. S12#24
Sh. S11#15

Sh. S11#08
Sh. S11#15

GREEN LANE

Pond

Potash Farm

Pond

Sewage Pumping Station

S11-15-005
EFB
LE 4.4

S11-15-001
EFB
LE 2.7

S11-15-002
EFB
LE 2.7

FEN LANE

Coach House

Orsett House

18.9m

ORSETT

Hall

S11-15-004
EFB
LE 4.4

S11-15-003
EFB
LE 2.7

Sh. S11#15
Sh. S11#23

BB

Old Rectory

Hill House

22.4m

Track

Path (um)

HIGH ROAD

19.2m

Applewood

21.8m

S11-14-001
EFB
LE 4.4

S11-14-002
EFB
LE 2.7

Sh. S11#15
Sh. S11#07

Sh. S11#15
Sh. S11#07

Sh. S11#15
Sh. S11#14

Sh. S11#15
Sh. S11#14

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0 10 20 30 40 50 60 70 80 90 100
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	Appr'd
P01.5	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
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- LE 8.3 Woodland Mitigation Planting
- LE 8.4 Wetland / Fenland Creation
- LE 8.5 Ecology Pond (indicative symbol only)
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- Flood Compensation Areas (E 2–FCA)
- Flood Defence (E 2–FD)

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- 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

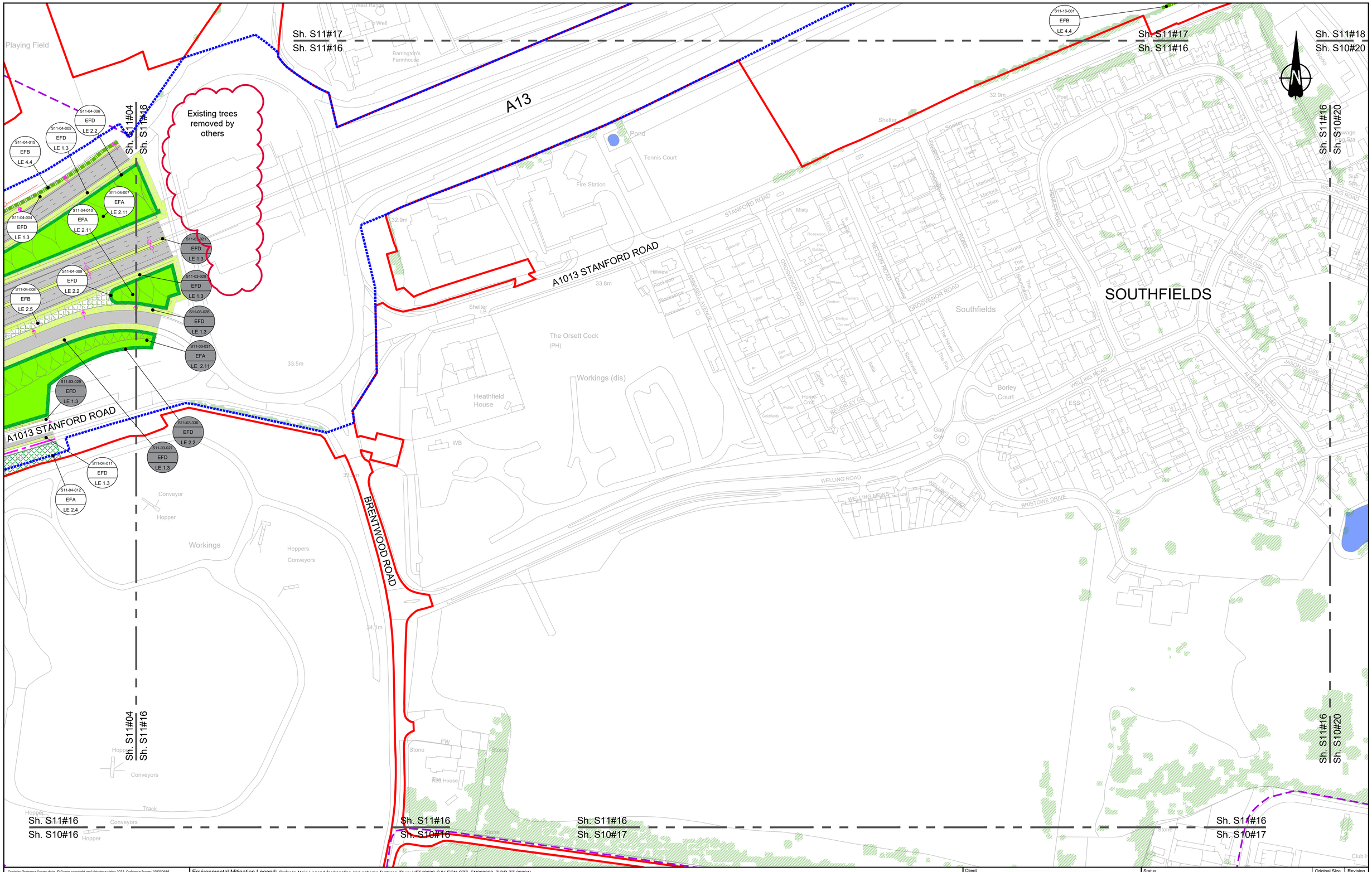
Project: LOWER THAMES CROSSING

Status: Initial Status or WIP
Original Size: A1
Revision: P01.5
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 15

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00016

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00016.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).

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- E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species
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- 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	Original Size	Revision
PINS Submission	A1	P02

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 16

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00017

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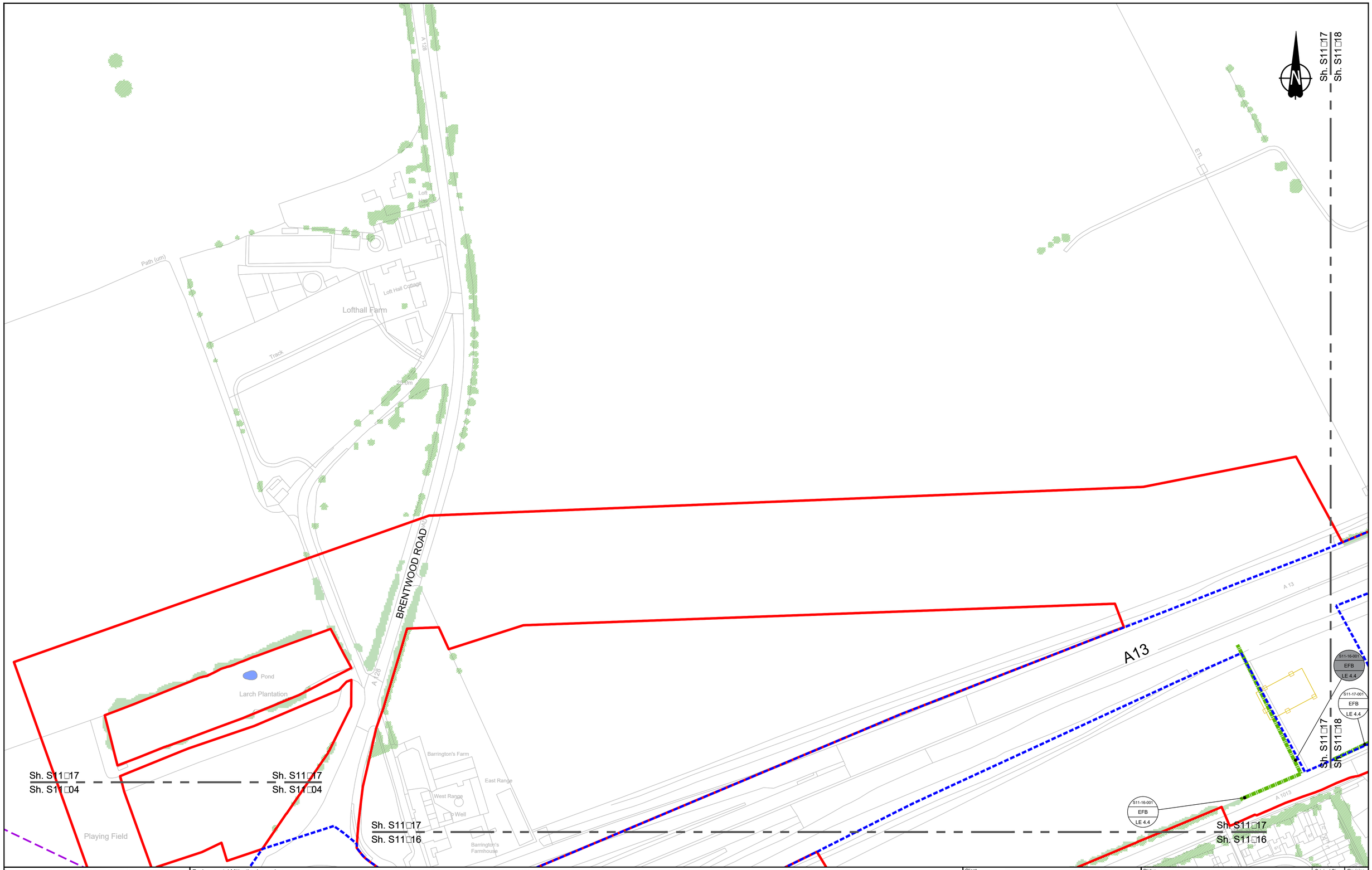

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SCALE 1:1250 (A1)
SCALE 1:2500 (A3)
METRES

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
P01.5	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).

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- 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: P01.5
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 17

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00018

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00018.dwg

Sh. S11#17
Sh. S11#18

Sh. S11#18
Sh. S10#21

A13

A1013 STANFORD ROAD

STANFORD ROAD

Track

Filling Station

Services

Filling Station

Services

Track

Name Elyns

Red Lion Cottage

Lilac Acres

El Sub Sta

A 10

Mast (telecommunication)

33.2m

Ashcera

Valhalla

Orsett Industrial Park

Lilena

31.1m

Broadview

Orsett House

Greenwood

Tanglewood

Cedarwood

Birkurt

Rosedale

Chesterton

Hatches

Ashcroft

Tor Craig

Inglenook

Brendon

Tallahar

Glenroy

Laboratories

S11-16-001
EFB
LE 4.4

S11-17-001
EFB
LE 4.4

S10-15-001
EFD
LE 8.7

Sh. S11#17
Sh. S11#18

Sh. S11#18
Sh. S10#21

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

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

P01.4 S0 16/07/2021

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	Original Size	Revision
Initial Status or WIP	A1	P01.4

Application Document Number: TR010032/APP/6.2

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 18

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00019

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Sh. S11#20
Sh. S11#19

Sh. S11#20
Sh. S11#19

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0 10 20 30 40 50 60 70 80 90 100

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
- 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)

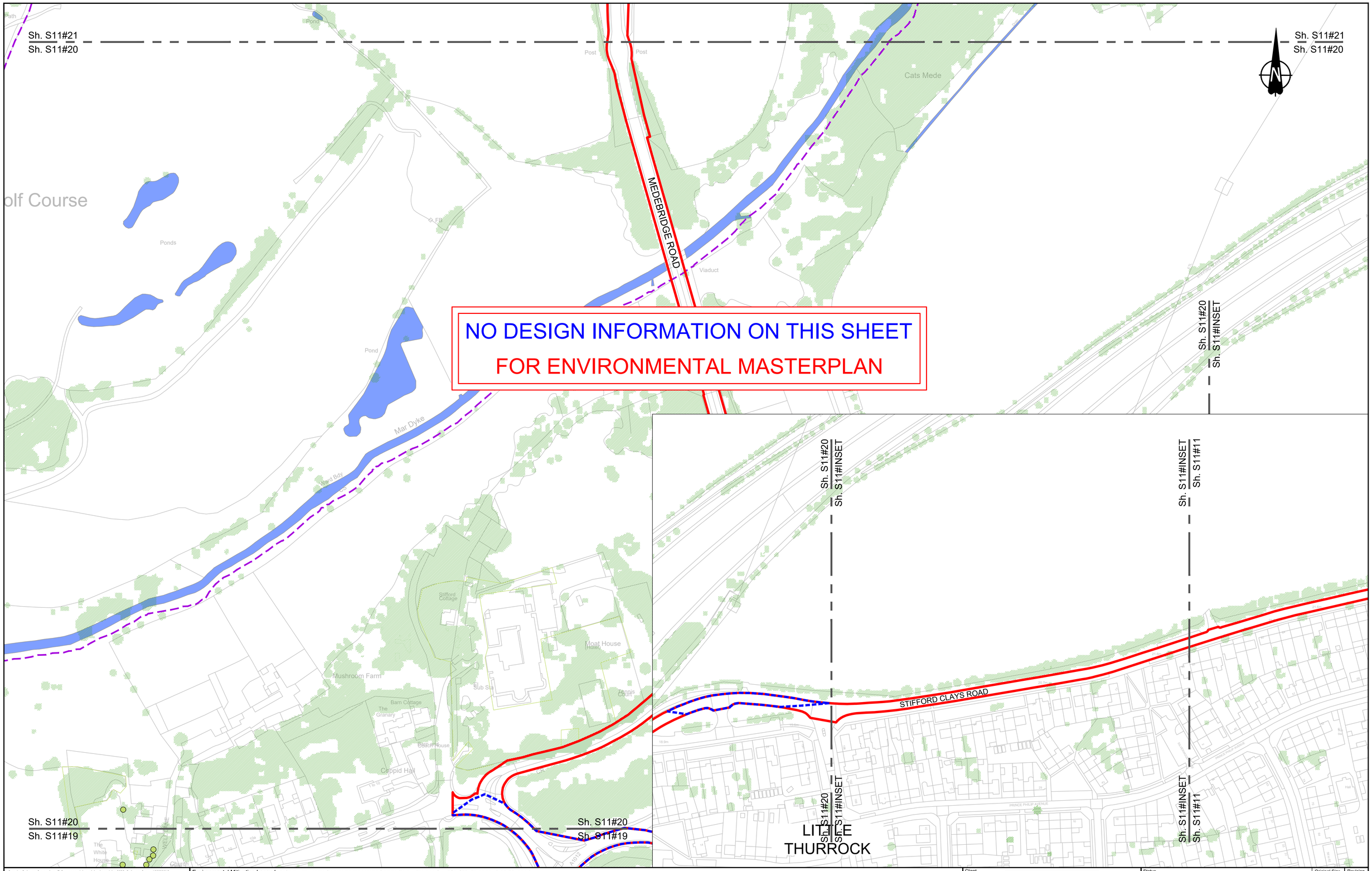
Client: national highways

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 11 SHEET 19

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00020



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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 11 SHEET 20

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00021

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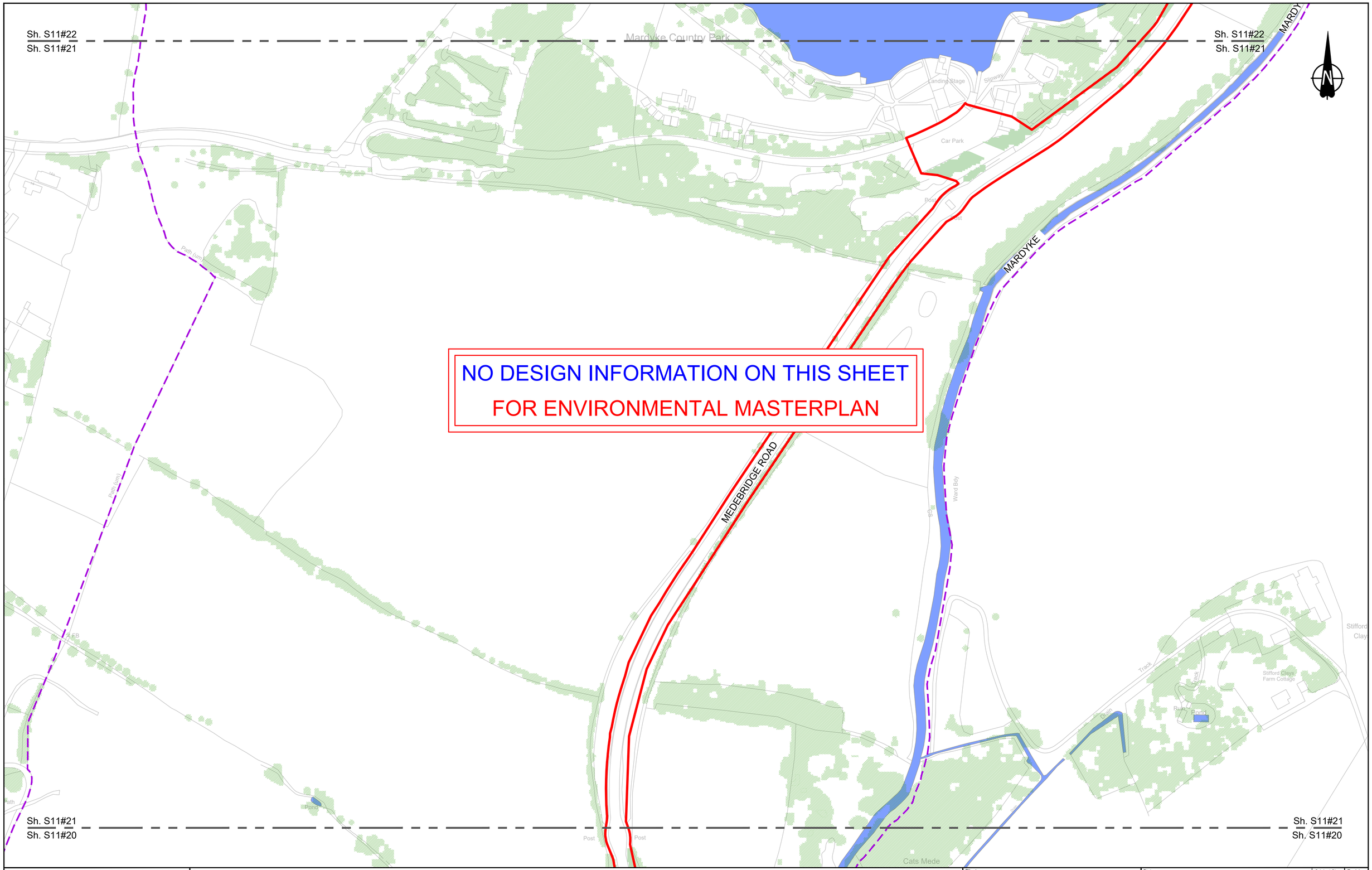

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0 10 20 30 40 50 60 70 80 90 100 METRES

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
- 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

Application Document Number: TR010032/APP/6.2

Original Size: A1

Revision: P01.6

Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 21

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00022

HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00022.dwg

Sh. S12#10
Sh. S11#22

Sh. S12#10
Sh. S11#22

Sh. S12#07
Sh. S11#22

Sh. S11#22
Sh. S11#13

Sh. S11#22
Sh. S11#13

Sh. S11#22
Sh. S11#21

Sh. S11#22
Sh. S11#21

Drain

Grange Farm

MEDEBRIDGE ROAD

MARDYKE

Mardyke Country Park

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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
P01.5	S0	25/03/2022				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

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 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: P01.5
Application Document Number: TR010032/APP/6.2
Scale: 1:1250

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 22

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00023

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Sh. S11#15
Sh. S11#23

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Sh. S11#15
Sh. S11#23

Sh. S11#23
Sh. S11#14

Sh. S11#23
Sh. S11#14

Sh. S11#23
Sh. S11#04

Sh. S11#23
Sh. S11#04

S11-14-001
EFB
LE 4.4

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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
P01.1	S0	03/08/2022				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: P01.1
Application Document Number: TR010032/APP/6.2
Scale: AS SHOWN

Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 11 SHEET 23

Drawing Number: HE540039-CJV-EGN-S11_EN000000_Z-DR-ZZ-00024

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