

Lower Thames Crossing

6.2 Environmental Statement Figures

Figure 2.4 - Environmental Masterplan Section 3 (3 of 10) (Clean 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

List of contents

| | Page number |
|--|--------------------|
| 1 Environmental Masterplan: Section 3..... | 1 |
| 1.1 Schedule of Plans included in this application document..... | 1 |
| 1.2 Section 3 (Sheets 1-11) | 2 |
| 1.3 Scheme Overview..... | 3 |
| 1.4 Environmental Masterplan Legend | 5 |
| 1.5 Section 3..... | 7 |

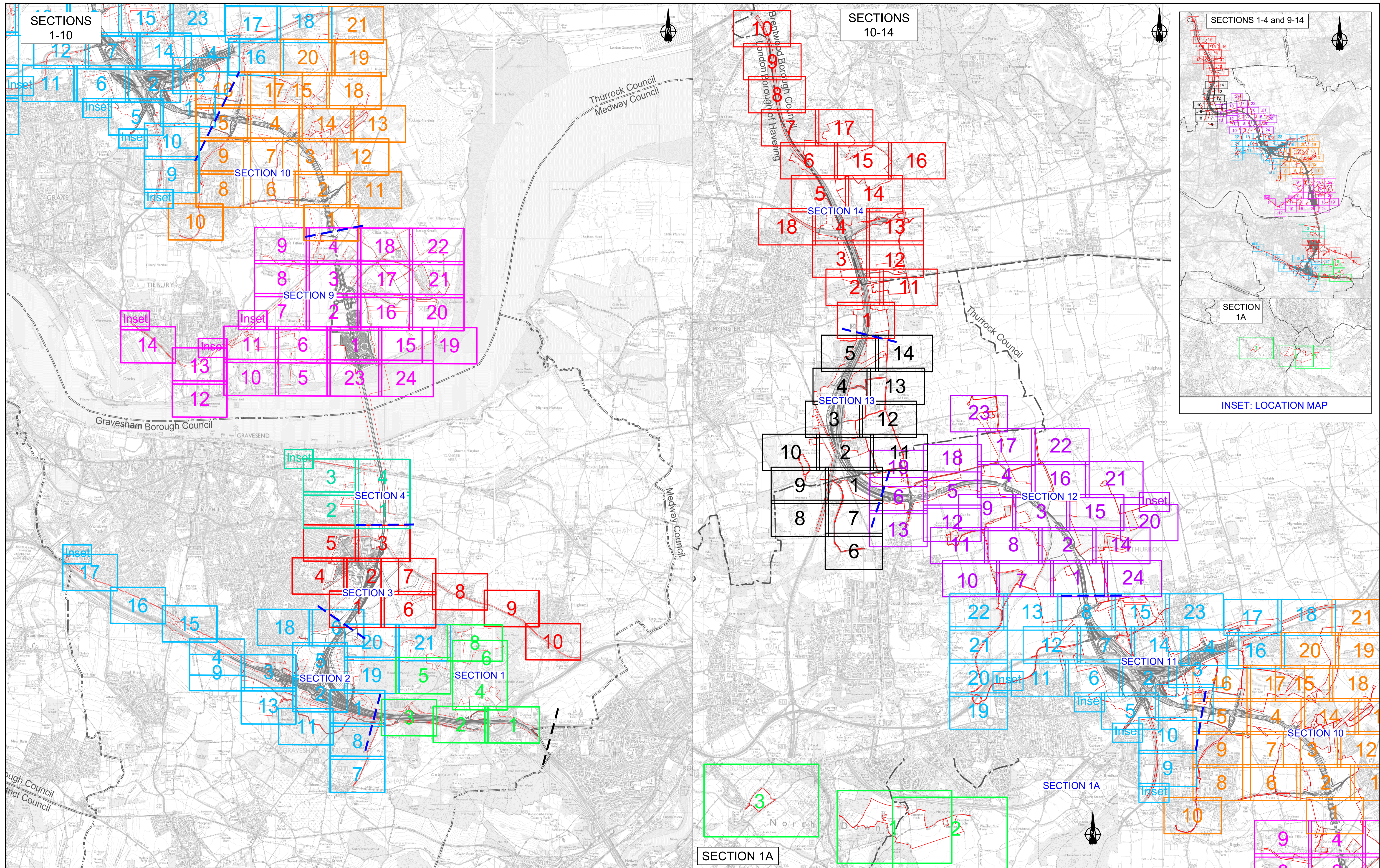
1 Environmental Masterplan: Section 3

1.1 Schedule of Plans included in this application document

1.2 Section 3 (Sheets 1-11)

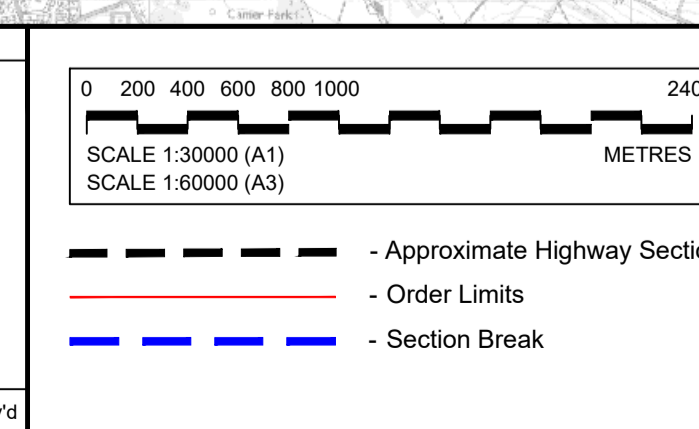
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|--|------------------|-------|
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00001 – Section 3 Overview | TR010032/APP/6.2 | P01.6 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00002 - Section 3 Sheet 1 | TR010032/APP/6.2 | P02 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00003 - Section 3 Sheet 2 | TR010032/APP/6.2 | P02 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00004 - Section 3 Sheet 3 | TR010032/APP/6.2 | P02 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00005 - Section 3 Sheet 4 | TR010032/APP/6.2 | P01.6 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00006 - Section 3 Sheet 5 | TR010032/APP/6.2 | P01.5 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00007 - Section 3 Sheet 6 | TR010032/APP/6.2 | P01.5 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00008 - Section 3 Sheet 7 | TR010032/APP/6.2 | P01.6 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00009 - Section 3 Sheet 8 | TR010032/APP/6.2 | P01.6 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00010 - Section 3 Sheet 9 | TR010032/APP/6.2 | P01.6 |
| HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ- 00012 - Section 3 Sheet 10 | TR010032/APP/6.2 | P01.5 |

1.3 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) | 1 Section S10 (Sheets 1 - 21) |
| 1A Section S1A (Sheets 1 - 3) | 1 Section S11 (Sheets 1 - 22) |
| 1 Section S2 (Sheets 1 - 21) | 1 Section S12 (Sheets 1 - 24) |
| 1 Section S3 (Sheets 1 - 10) | 1 Section S13 (Sheets 1 - 14) |
| 1 Section S4 (Sheets 1 - 4) | 1 Section S14 (Sheets 1 - 18) |
| 1 Section S9 (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

Project

LOWER THAMES CROSSING

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

1.4 Environmental Masterplan Legend

EXISTING FEATURES

General Features

- Existing WCH Route
- Overhead Power Lines

Environmental Features

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

PROPOSED PROJECT FEATURES

- Order Limits
- Permanent Acquisition of Land

General Project Features

- Existing Overhead Power Lines to be Removed
- Indicative Diverted and Modified Overhead Power Lines
- Proposed / Improved WCH Route
- Diverted / Redesignated WCH Route
- Proposed Carriageway
- Proposed Retaining Wall
- Proposed Cutting
- Proposed Embankment
- Proposed False Cutting Earthwork (up to 4m height above carriageway level typically at 1(v) 4(h) gradient)
- Proposed Watercourse Diversion
- Proposed Attenuation Ponds / 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

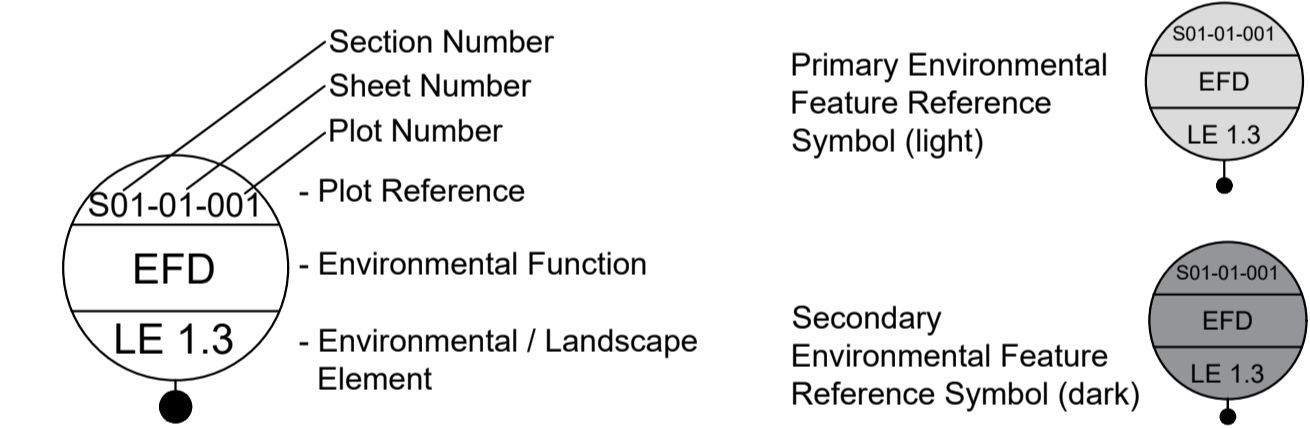
The outline Landscape and Ecology Management Plan (LEMP) separately sets out the proposed management for the environmental / landscape elements shown on the Environmental Masterplan. The Environment Masterplan secures the spatial extent and location of the environmental / landscape elements detailed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

Status: Initial Status or WIP

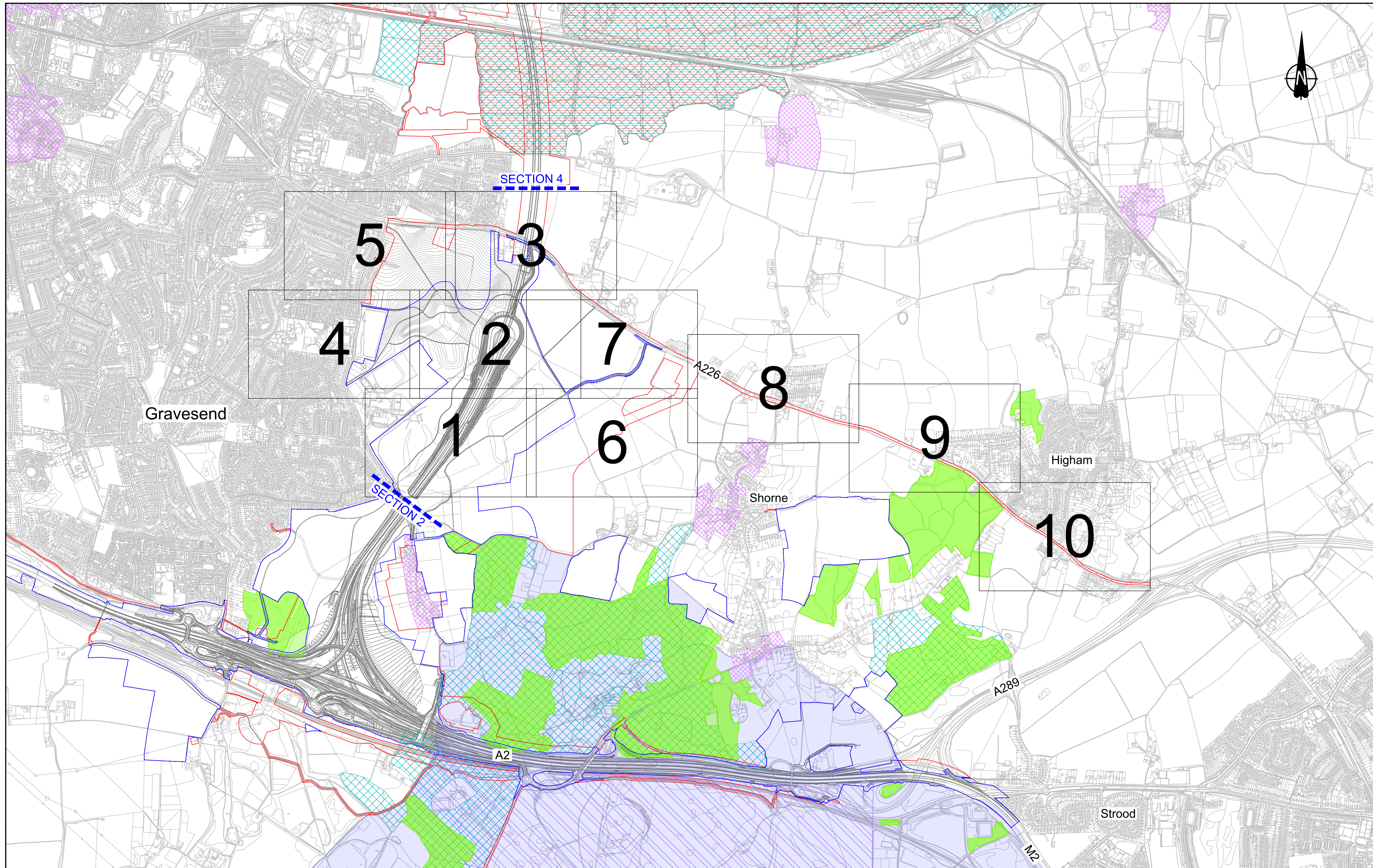
Application Document Number: TR010032/APP/6.2

Drawing title: ENVIRONMENTAL MASTERPLAN LEGEND

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

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|-------------------|-----------------|
| Original Size: A1 | Revision: P01.6 |
|-------------------|-----------------|

1.5 Section 3



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SCALE 1:10000 (A1)
SCALE 1:20000 (A3)

P01.5 50 10/05/2022

| Rev | Status | Rev. Date | Purpose of revision | Drawn | Chck'd | Apprv'd |
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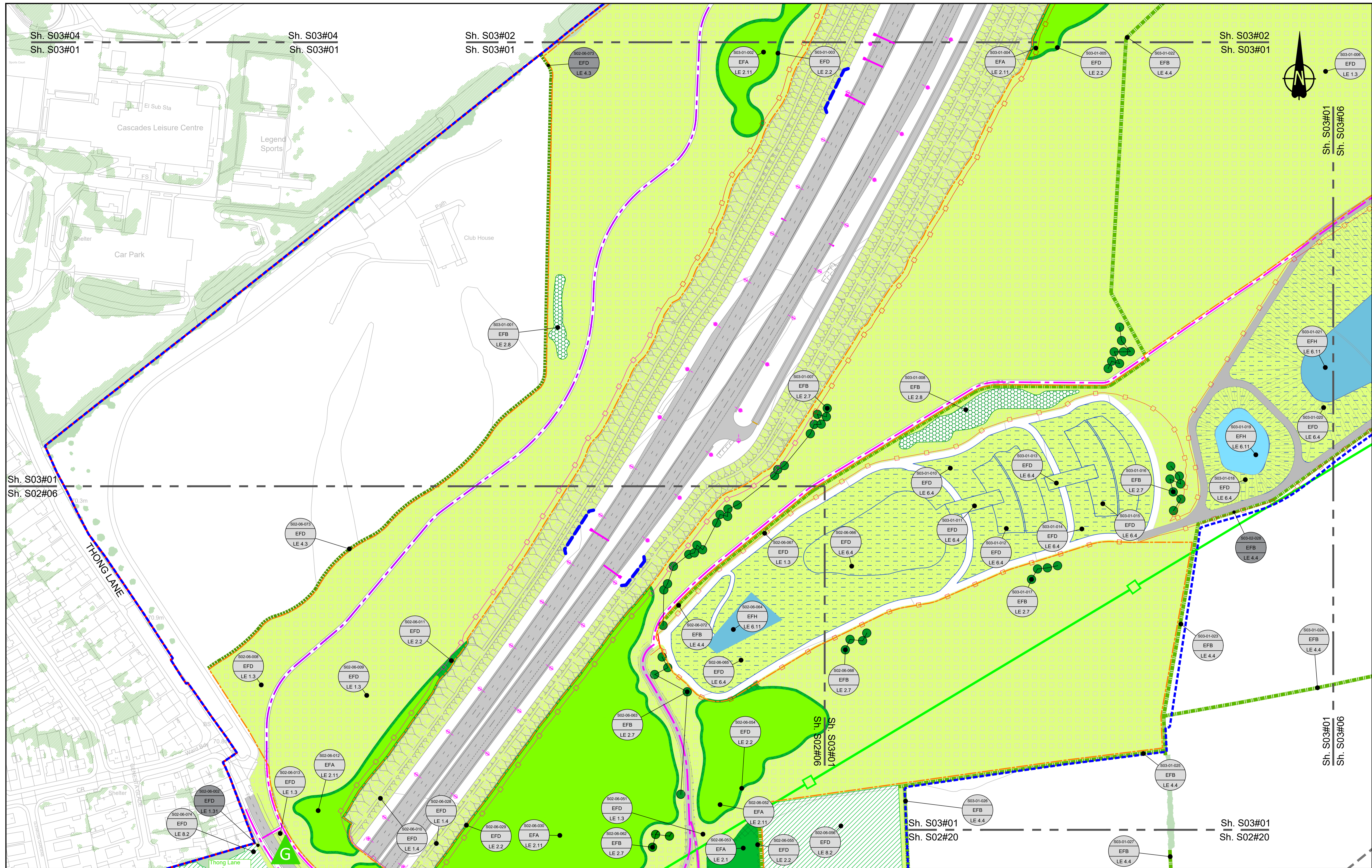
- LEGEND**
- Order Limits
 - Permanent Acquisition of Land
 - Area of Outstanding National Beauty (AONB)
 - Site of Special Scientific Interest (SSSI)
 - Registered Parks and Gardens
 - Ramsar Sites
 - Ancient Woodland
 - Conservation Area

Client: national highways

Project: LOWER THAMES CROSSING

| | | | |
|-----------------------------|--|---------------|----------|
| Status | Initial Status or WIP | Original Size | Revision |
| Application Document Number | TR010032/APP/6.2 | A1 | P01.5 |
| Drawing title | ENVIRONMENTAL MASTERPLAN OVERVIEW PLAN SECTION 3 | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00001 | | |

Scale: As Shown



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SCALE 1:2500 (A3)

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

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| P01 | S2 | 25/10/2022 | DCO Application | SA | PS | MH |
| P02 | S9 | 19/07/2023 | Deadline 2 | LD | SK | BF |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Chkd | Apprv'd |

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

| | | | |
|--|--|---|---|
| Order Limits | Planting (LE 2) | LE 2.5 Shrubs With Intermittent Trees | Individual Trees (LE 5) |
| Permanent Acquisition of Land | LE 2.1 Woodland | LE 2.7 Scattered Trees | LE 5.1 Individual Trees |
| Grassland (LE 1) | LE 2.11 Woodland With Non-Native Species | LE 2.8 Scrub / Scattered Scrub | Wetland Habitats (LE 6) |
| LE 1.3 Species Rich Grassland | LE 2.14 Wet / Carr Woodland | Hedges (LE 4) | LE 6.1 Marsh and Wet Grassland - Coastal Grazing Marsh |
| LE 1.31 Species Rich Chalk Grassland | LE 2.2 Woodland Edge | LE 4.3 Native Species Hedge (untrimmed) | LE 6.12 Water Bodies and Associated Plants - Shallow Scrape |
| LE 1.32 Species Rich Annual Wildflower Grassland | LE 2.22 Scrub Woodland | LE 4.4 Native Hedgerow With Trees | 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 6.4 Wet Grassland | Hard Landscape Features (LE 7) |
| LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh | LE 7.4 Reinforced Earth Band |
| LE 6.42 Wetland Mitigation Planting | Earthworks |
| LE 6.4 Wetland / Farmland Creation | Proposed Contours |
| LE 6.5 Ecology Pond (indicative symbol only) | |
| LE 6.6 Acid Grassland Soil Salvage | |

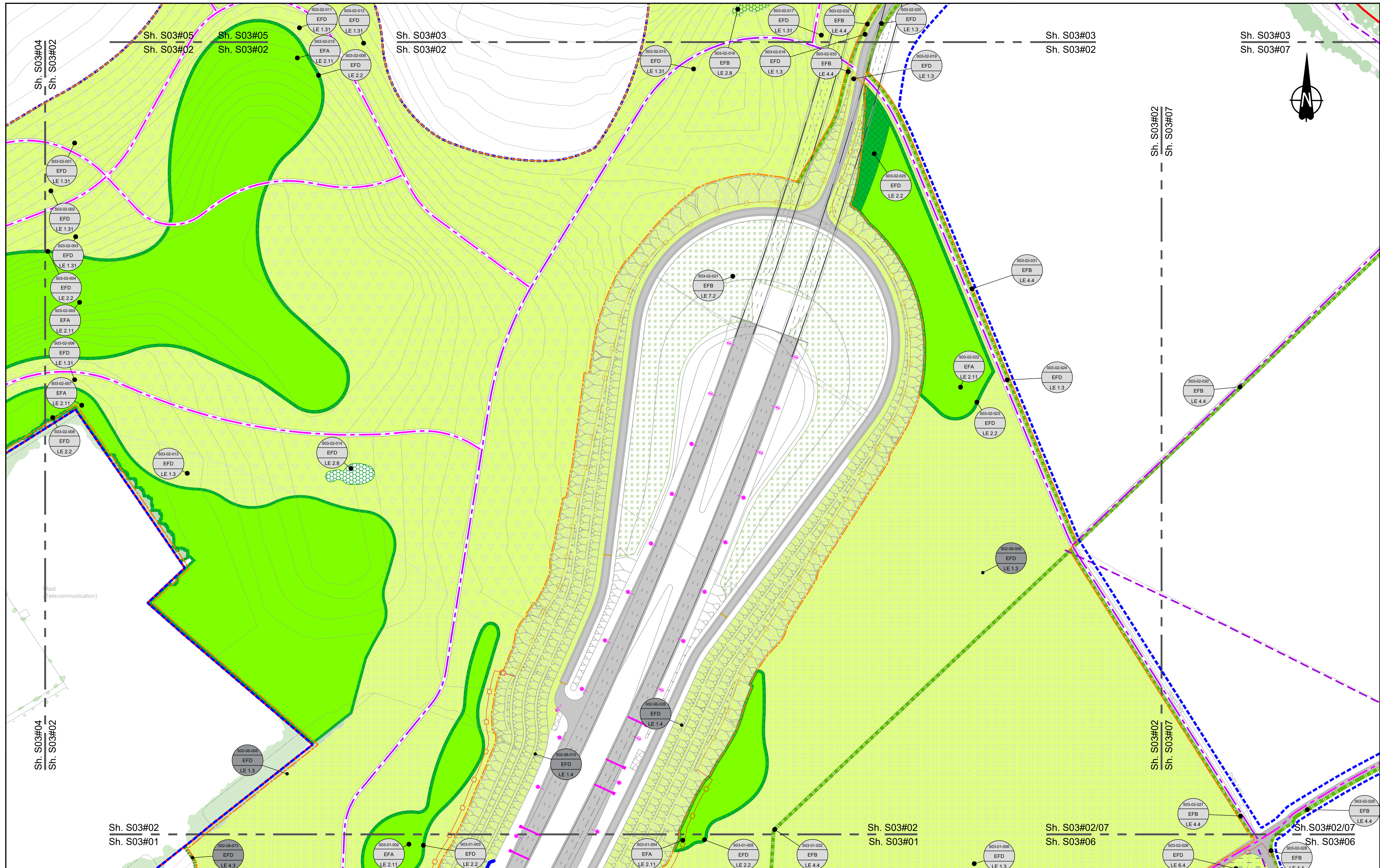
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| LE 8.7 Nitrogen Deposition (NDEP) Compensation Area | Ecological (E 3) |
| Noise (E 1) | E 3.2 Ecological Habitat Creation and Receptor sites for Protected Species |
| E 1.2 Acoustic Barrier-Built Elements (typically inc. highway boundary fence) | E 3.2 Dormouse Boxes |
| Water (E 2) | E 3.2 Bat Boxes |
| Flood Compensation Areas (E 2-FCA) | E 3.2 Ecological Culvert |
| Flood Defence (E 2-FD) | E 3.2 Bat Barn Block |
| E 2.1 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 3 SHEET 1 | | |
| Drawing Number: HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00002 | | |

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

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

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| P01 | S2 | 25/10/2022 | DCO Application | SA | PS | MH |
| P02 | S9 | 19/07/2023 | Deadline 2 | LD | SK | BF |
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Apprv'd |

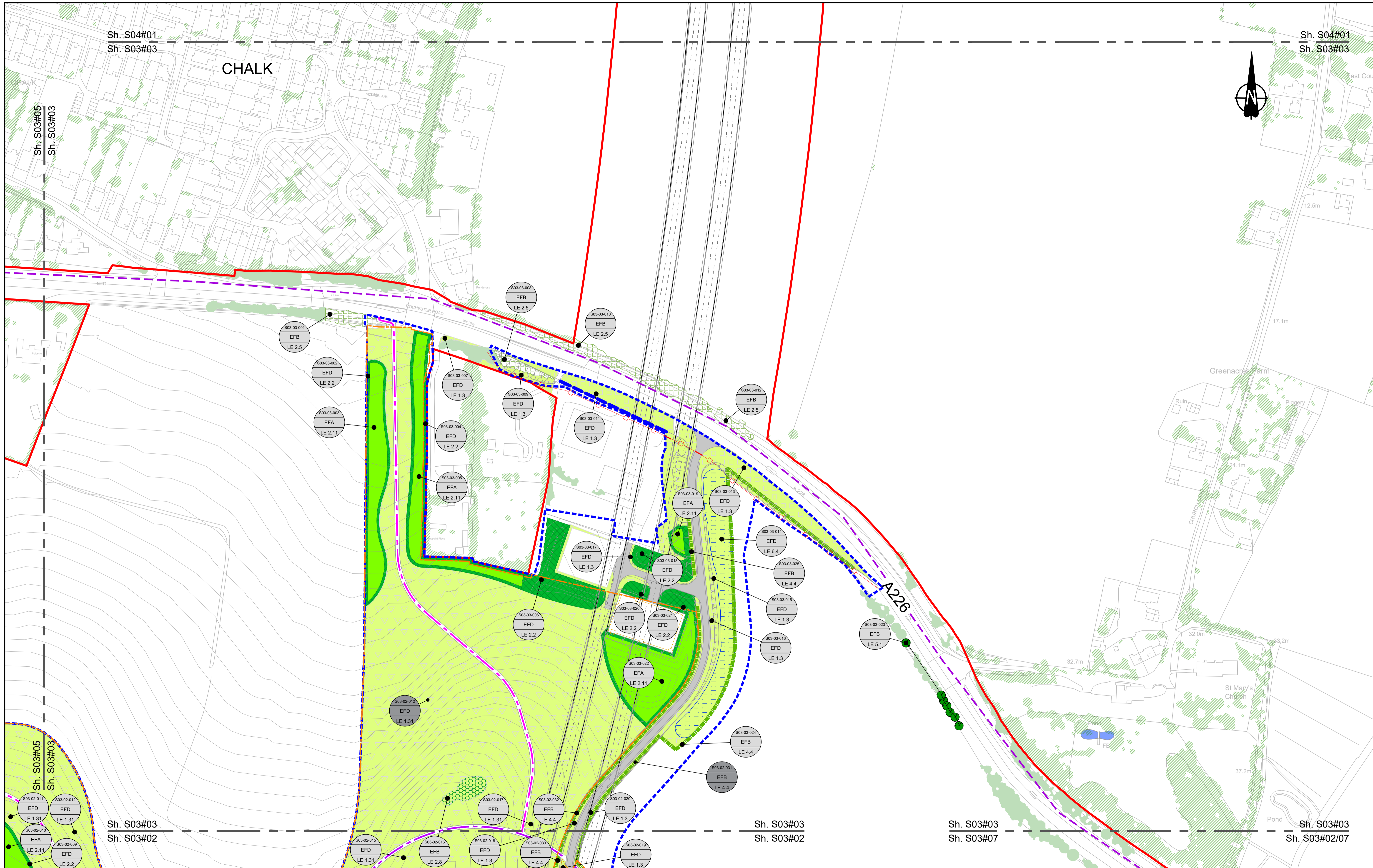
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| | | | | | | |
|--|---|---|--|---|--|--|
| <p>Order Limits</p> <ul style="list-style-type: none"> Order Limits Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich 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 (untrimmed) LE 4.4 Native Hedgerow With Trees | <p>Individual Trees (LE 5)</p> <ul style="list-style-type: none"> LE 5.1 Individual Trees <p>Wetland Habitats (LE 6)</p> <ul style="list-style-type: none"> LE 6.11 Water Bodies - Standing Water LE 6.12 Water Bodies and Associated Plants - Shallow Scrape LE 6.2 Banks and Ditches LE 6.21 Banks and Ditches - High Tide Roost Features <p>Hard Landscape Features (LE 7)</p> <ul style="list-style-type: none"> LE 7.4 Reinforced Earth Bund <p>Earthworks</p> <ul style="list-style-type: none"> Proposed Contours | <p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage | <p>Noise (E 1)</p> <ul style="list-style-type: none"> 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: **national highways**

Project: **LOWER THAMES CROSSING**

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|-----------------------------|---|---------------|--------|----------|-----|
| Status | PINS Submission | Original Size | A1 | Revision | P02 |
| Application Document Number | TR010032/APP/6.2 | Scale | 1:1250 | | |
| Drawing Title | ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 2 | | | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00003 | | | | |



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

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

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| P02 | S9 | 19/07/2023 | Deadline 2 | LD | SK | BF |

| Rev | Status | Rev. Date | Purpose of revision | Drawn | Chk'd | Apprv'd |
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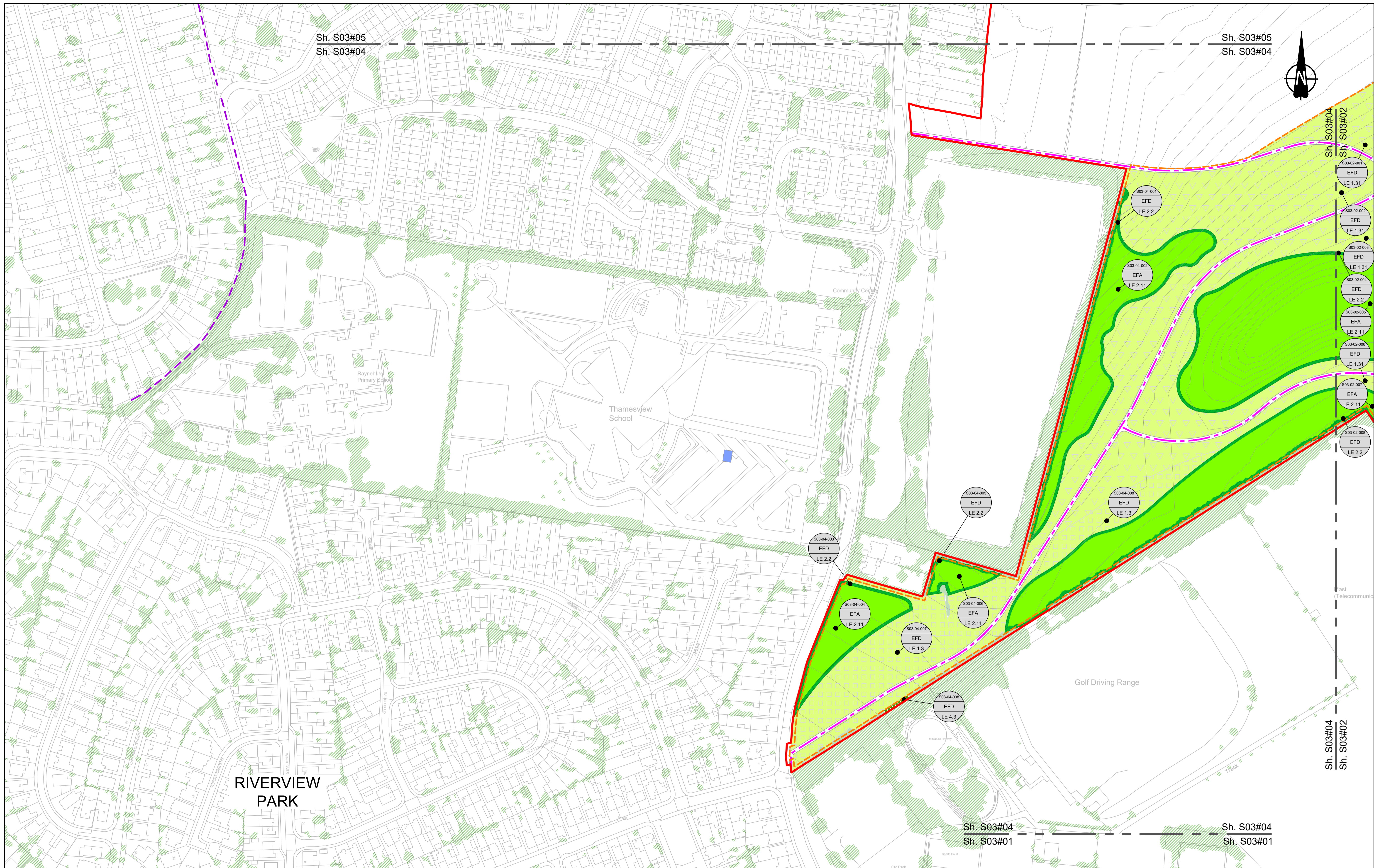
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|--|---|
| Order Limits | Planting (LE 2) |
| Permanent Acquisition of Land | LE 2.1 Woodland |
| Grassland (LE 1) | LE 2.11 Woodland With Non-Native Species |
| LE 1.3 Species Rich Grassland | LE 2.14 Wet / Carr Woodland |
| LE 1.31 Species Rich Chalk Grassland | LE 2.2 Woodland Edge |
| LE 1.32 Species Rich Annual Wildflower Grassland | LE 2.22 Scrub Woodland |
| LE 1.4 Rock and Scree | LE 2.4 Linear Belt of Shrubs and Trees |
| 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 |
| 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 Scraps |
| LE 6.2 Banks and Ditches | LE 6.21 Banks and Ditches - High Tide Root Features |
| LE 6.4 Wet Grassland | LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh |
| LE 7.4 Reinforced Earth Bund | Hard Landscape Features (LE 7) |
| Proposed Contours | Earthworks |
| 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) |
| 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 Bat Boxes |
| E 3.2 Bat Barns | E 3.2 Bat Barn Block |
| E 3.2 Barn Owl Box | |

Client: national highways

Project: LOWER THAMES CROSSING

| | | |
|---|-------------------|---------------|
| Status: DCO Application | Original Size: A1 | Revision: P02 |
| Application Document Number: TR010032/APP/6.2 | Scale: 1:1250 | |
| Drawing title: ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 3 | | |
| Drawing Number: HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00004 | | |

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SCALE 1:2500 (A3)

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

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| 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).

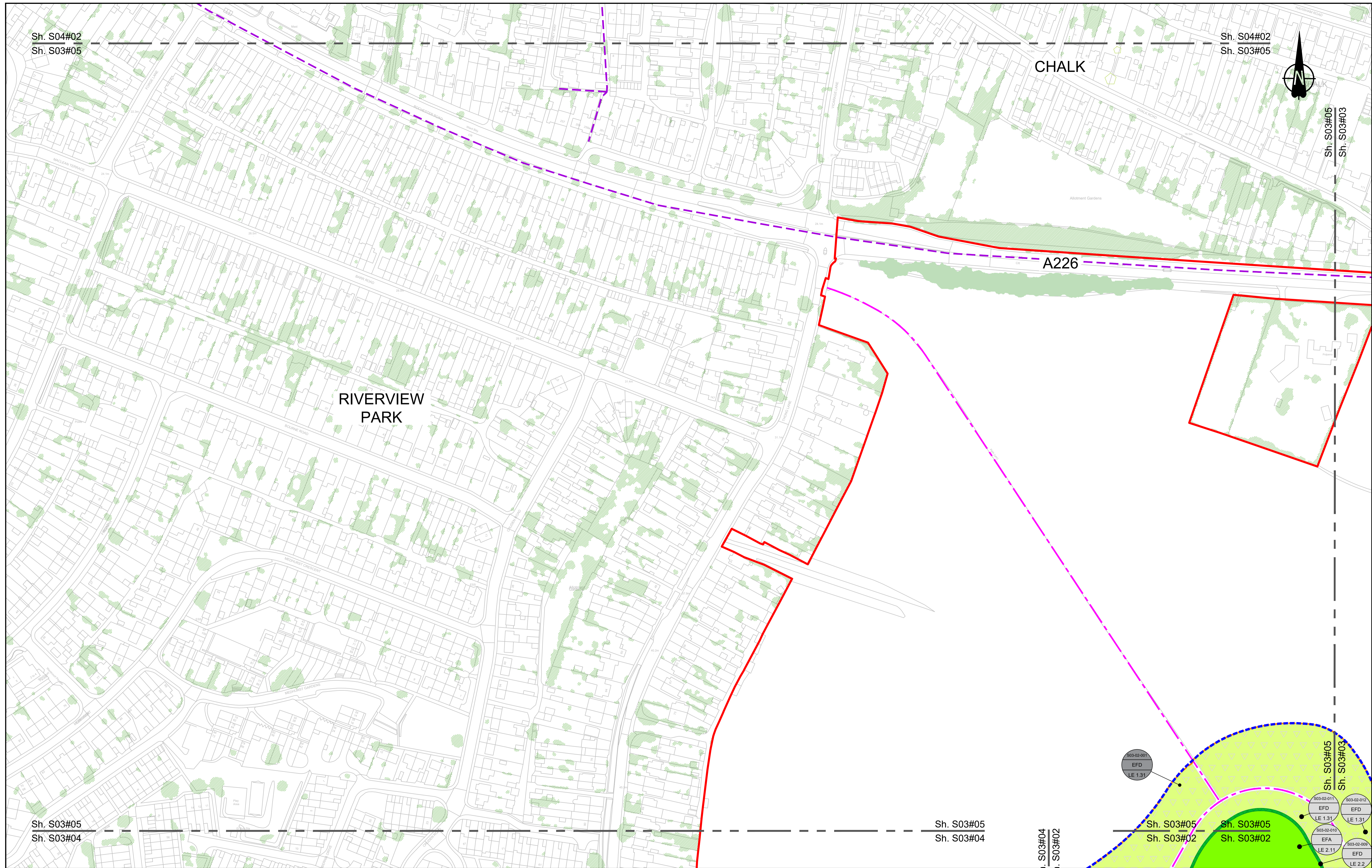
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| Order Limits Permanent Acquisition of Land Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree | Planting (LE 2) LE 2.1 Woodland LE 2.11 Woodland 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 Root Features LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh LE 6.41 Marsh and Wet Grassland - Coastal Grazing Marsh LE 7.4 Reinforced Earth Band 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 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 Ecological Fencing (inc. highway boundary fence) |
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

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| 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 3 SHEET 4 | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00005 | | |

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

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

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

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|-------|--------|------------|---------------------|-------|---------|---------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'd | Apprv'd |
| P01.5 | SD | 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).

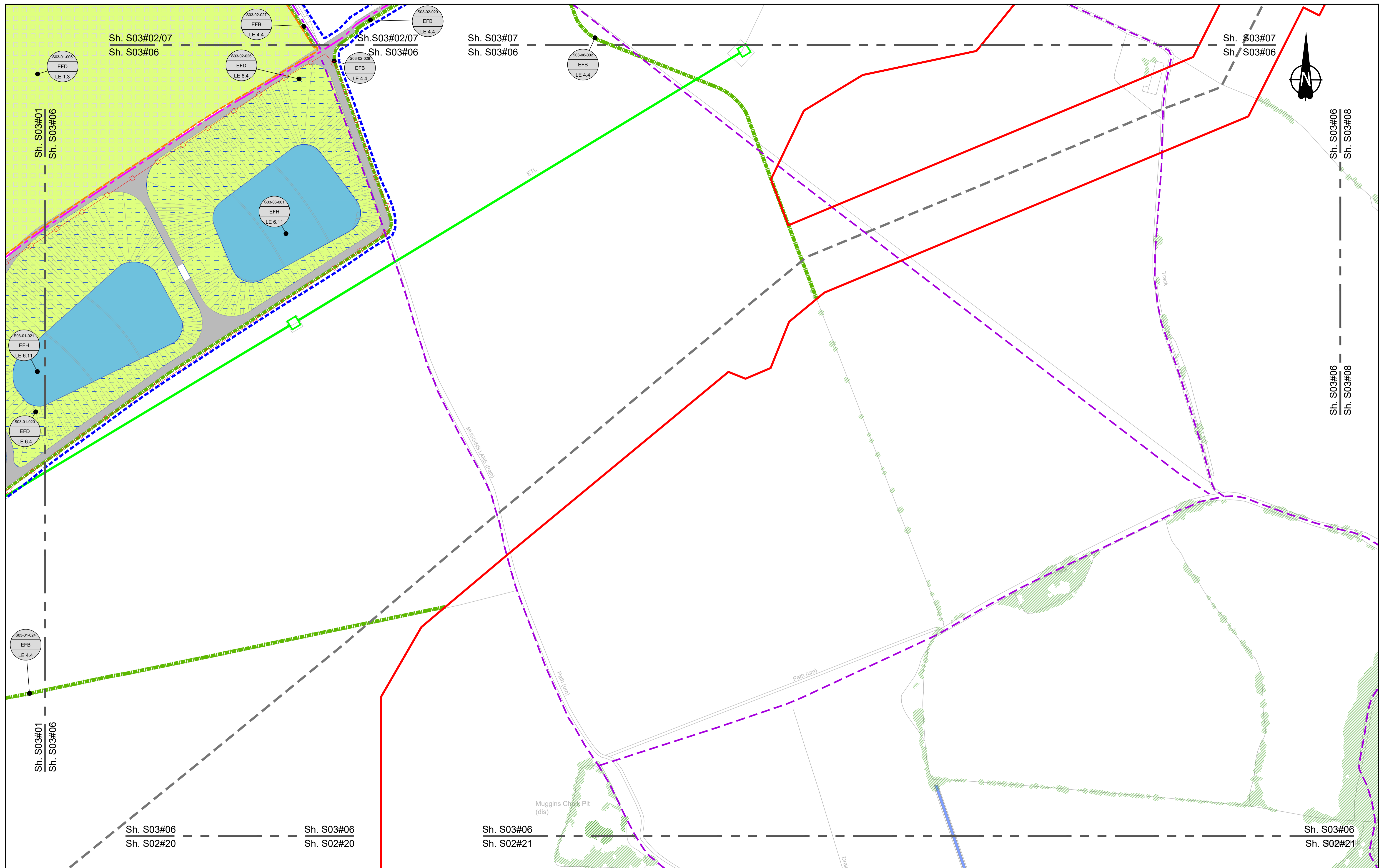
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| <p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree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

Project: **LOWER THAMES CROSSING**

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| Status | Initial Status or WIP | Original Size | Revision |
| Application Document Number | TR010032/APP/6.2 | A1 | P01.5 |
| Scale | 1:1250 | | |
| Drawing Title | ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 5 | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00006 | | |

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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.

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|-------|--------|------------|---------------------|-------|-------|---------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Chk'd | Apprv'd |
| P01.5 | SO | 12/05/2022 | | | | |

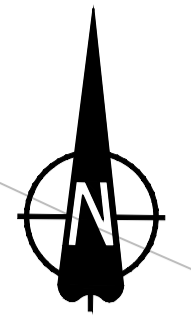
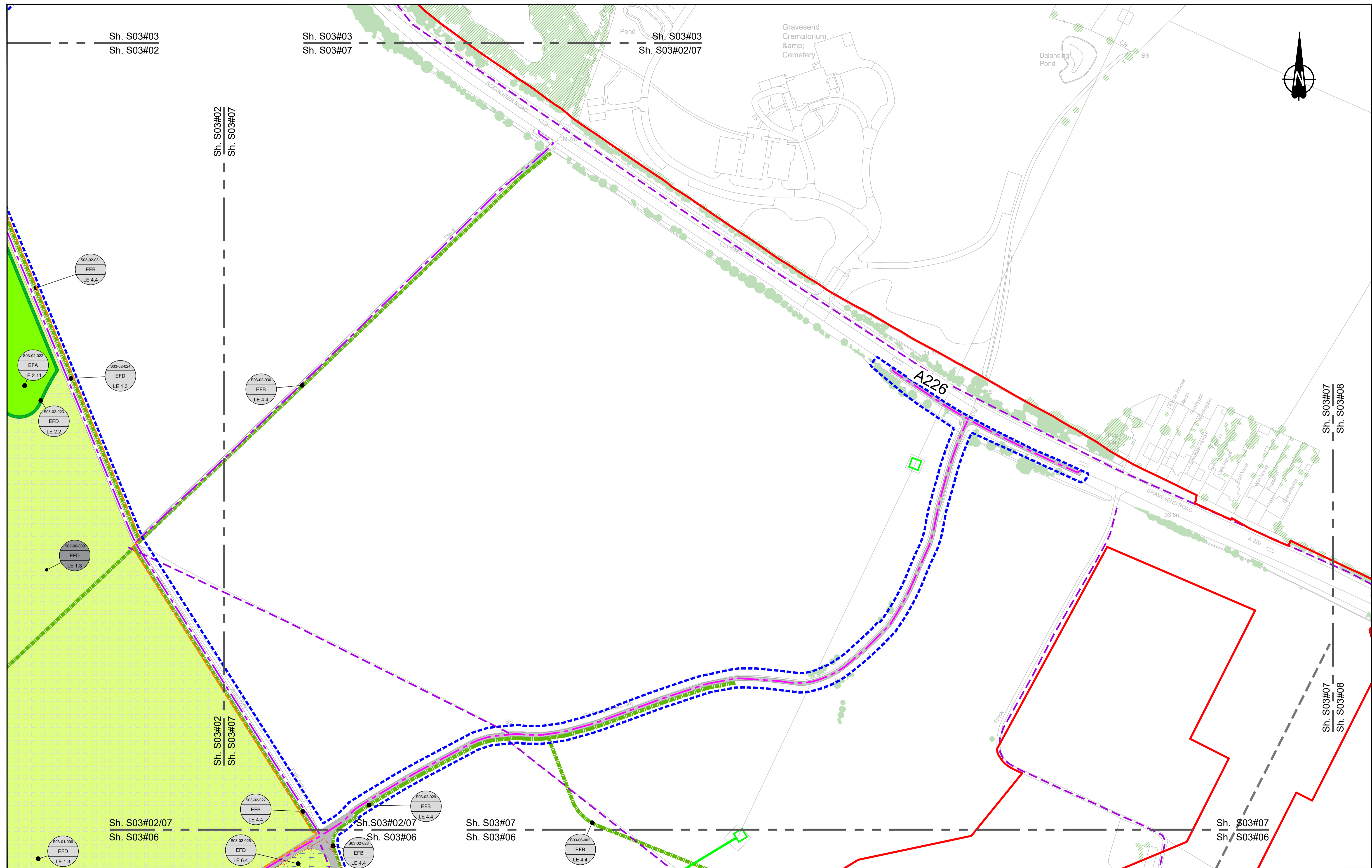
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| <p>Order Limits</p> <ul style="list-style-type: none"> Permanent Acquisition of Land <p>Grassland (LE 1)</p> <ul style="list-style-type: none"> LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower 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>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>Hard Landscape Features (LE 7)</p> <ul style="list-style-type: none"> LE 7.4 Reinforced Earth Bund <p>Earthworks</p> <ul style="list-style-type: none"> Proposed Contours | <p>Ecological Habitats (LE 8)</p> <ul style="list-style-type: none"> LE 8.1 Open Mosaic Habitat LE 8.2 Ancient Woodland Compensation Planting LE 8.3 Woodland Mitigation Planting LE 8.4 Wetland / Fenland Creation LE 8.5 Ecology Pond (indicative symbol only) LE 8.6 Acid Grassland Soil Salvage | <p>Noise (E 1)</p> <ul style="list-style-type: none"> 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 Ecological Fencing (inc. highway boundary fence) E 3.2 Barn Owl Box |
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Client: **national highways**

Project: **LOWER THAMES CROSSING**

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| Status | Initial Status or WIP | Original Size | Revision |
| Application Document Number | TR010032/APP/6.2 | A1 | P01.5 |
| Scale | 1:1250 | | |
| Drawing title | ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 6 | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00007 | | |



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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.

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|-------|--------|------------|---------------------|-------|---------|---------|
| Rev | Status | Rev. Date | Purpose of revision | Drawn | Check'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).

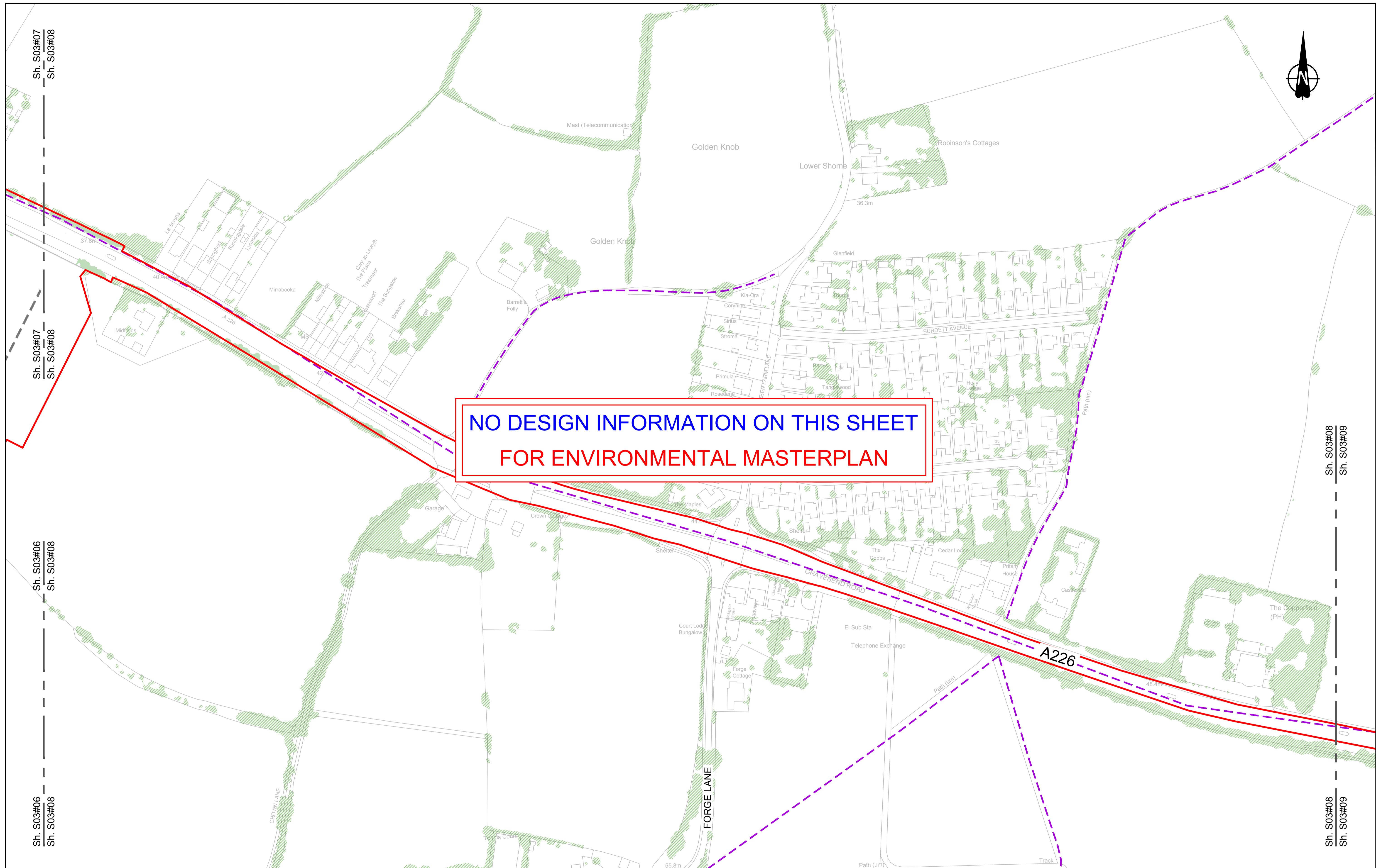
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| Order Limits Order Limits Permanent Acquisition of Land Grassland (LE 1) LE 1.3 Species Rich Grassland LE 1.31 Species Rich Chalk Grassland LE 1.32 Species Rich Annual Wildflower Grassland LE 1.4 Rock and Scree | Planting (LE 2) LE 2.1 Woodland LE 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 Hedges (LE 4) LE 4.3 Native Species Hedge (untrimmied) 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 Wetland Habitats (LE 6) LE 6.4 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 Ecological Fencing (inc. highway boundary fence) |
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Client: national highways

Project: LOWER THAMES CROSSING

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| 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 3 SHEET 7 | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00008 | | |

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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.

P01.6 SO 28/07/2022

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

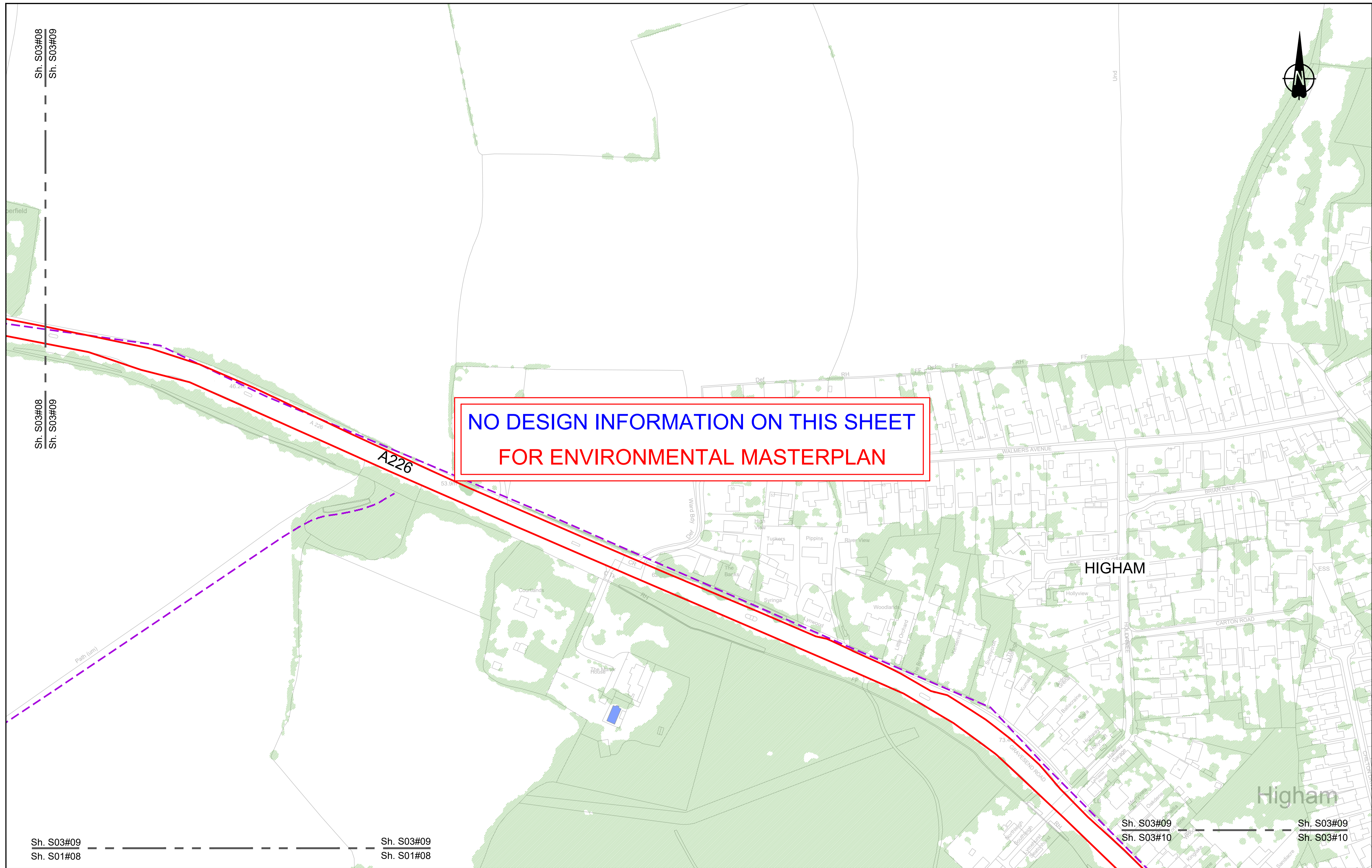
| Order Limits | Planting (LE 2) | Individual Trees (LE 5) | Ecological Habitats (LE 8) | Noise (E 1) | Ecological (E 3) |
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| <ul style="list-style-type: none"> Order Limits Permanent Acquisition of Land | <ul style="list-style-type: none"> LE 2.1 Woodland 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 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 Root 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 8.5 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 1.2 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 E 3.2 Barn Owl Box E 3.2 Ecological Fencing (inc. highway boundary fence) |
| <ul style="list-style-type: none"> 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 | <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) LE 4.3 Native Species Hedge (untrimmed) LE 4.4 Native Hedgerow With Trees | <ul style="list-style-type: none"> Wetland Habitats (LE 6) LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh LE 7.4 Reinforced Earth Bund Earthworks Proposed Contours | <ul style="list-style-type: none"> Hard Landscape Features (LE 7) LE 7.4 Reinforced Earth Bund | <ul style="list-style-type: none"> Water (E 2) Flood Compensation Areas (E 2-FCA) Flood Defence (E 2-FD) | <ul style="list-style-type: none"> LE 6.4 Marsh and Wet Grassland - Coastal Grazing Marsh LE 7.4 Reinforced Earth Bund |

Client: **national highways**

Project: **LOWER THAMES CROSSING**

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| 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 3 SHEET 8 | | | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00009 | | | | |

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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.

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| Rev | Status | Rev. Date | Purpose of revision | Drawn | Chkd | Apprv'd |
| P01.6 | SO | 28/07/2022 | | | | |

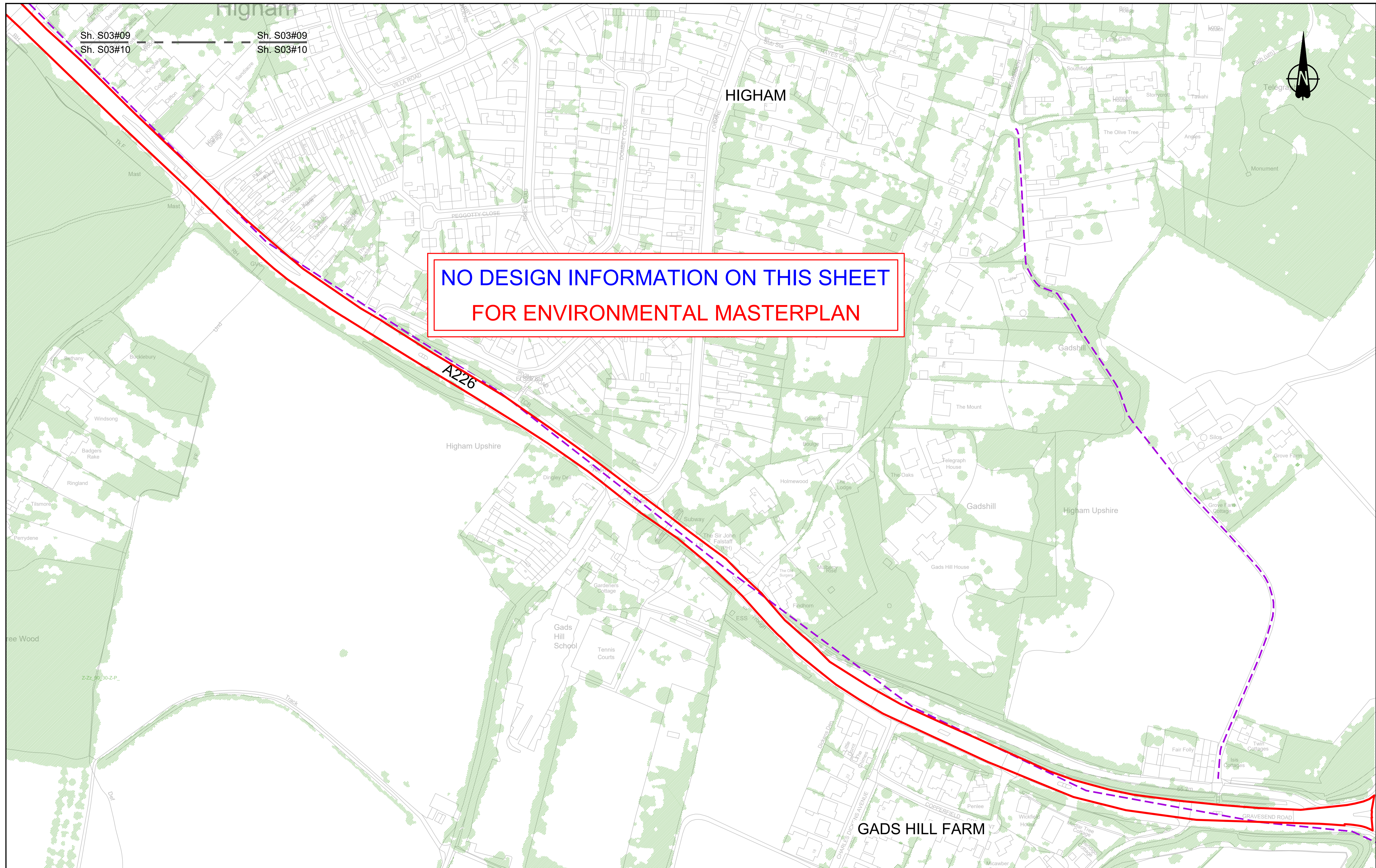
Environmental Mitigation Legend: Refer to Main Legend for baseline and scheme features (Dwg: HE540039-CJV-EGN-SZZ_EN000000_Z-DR-ZZ-00001).

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| <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>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 Scrape LE 6.2 Barks 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 6.41 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"> 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:

Project: LOWER THAMES CROSSING

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



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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.

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| Rev | Status | Rev. Date | Purpose of revision | Drawn | Chkd | Apprv'd |
| P01.5 | 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-000011).

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| <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>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>Wetland 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>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 (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>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 Barn Owl Box</p> <ul style="list-style-type: none"> E 3.2 Ecological Fencing (inc. highway boundary fence) |
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Client:

Project: LOWER THAMES CROSSING

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| Status | Initial Status or WIP | Original Size | Revision |
| Application Document Number | TR010032/APP/6.2 | A1 | P01.5 |
| Scale | 1:1250 | | |
| Drawing title | ENVIRONMENTAL MASTERPLAN SECTION 3 SHEET 10 | | |
| Drawing Number | HE540039-CJV-EGN-S03_EN000000_Z-DR-ZZ-00011 | | |

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National Highways Limited registered in England and Wales number 09346363