

A1 in Northumberland: Morpeth to Ellingham

Scheme Number: TR010059

6.31 Landscape Mitigation Masterplan Part A for Change Request

Rule 8(1)(c)

Planning Act 2008

Infrastructure Planning (Examination Procedure) Rules 2010

March 2021

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Examination Procedure) Rules
2010**

**The A1 in Northumberland: Morpeth to
Ellingham**

Development Consent Order 20[xx]

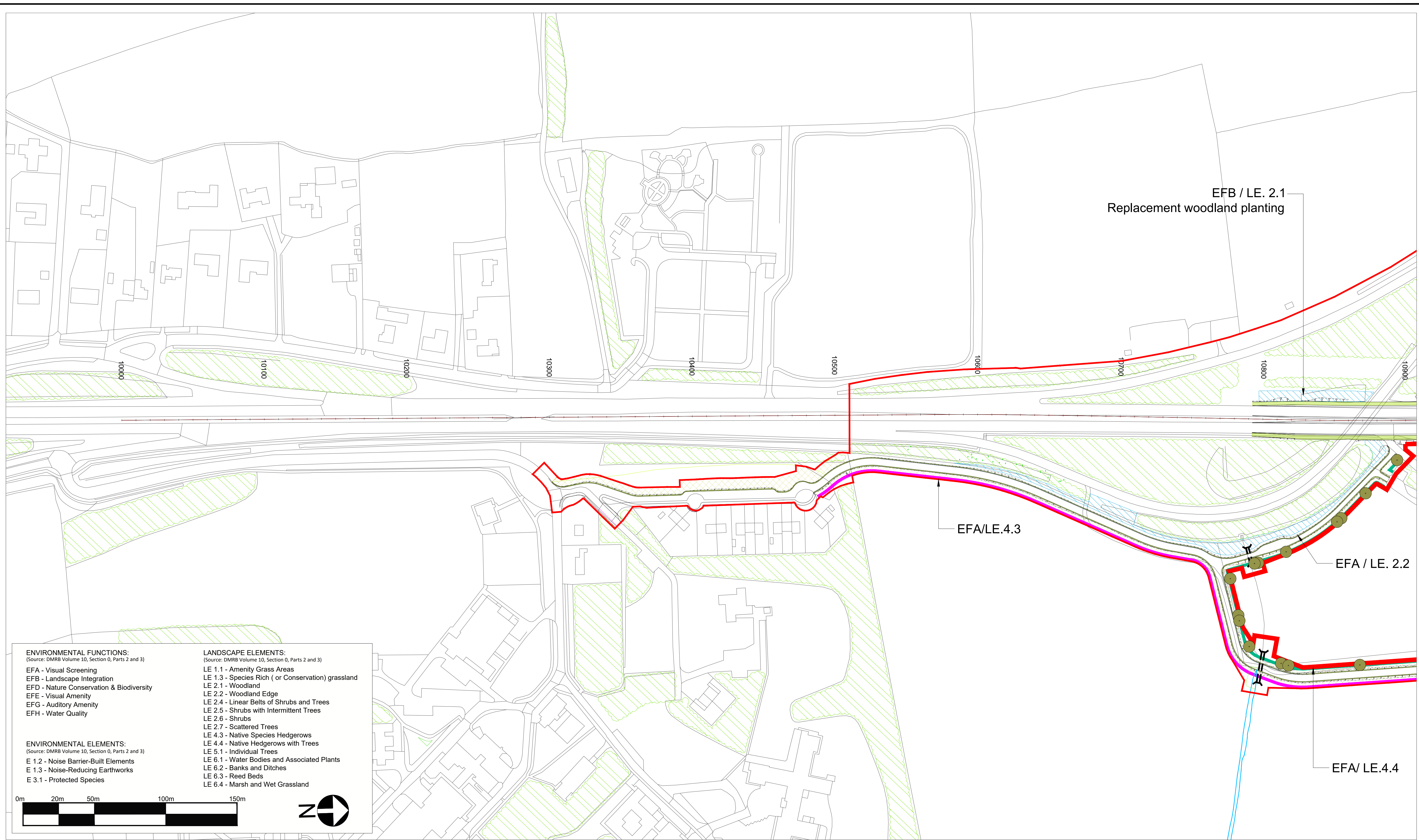
**Landscape Mitigation Masterplan Part A for Change
Request**

Rule Reference:	8(1)(c)
Planning Inspectorate Scheme Reference:	TR010059
Doc Reference:	6.31
Author:	A1 in Northumberland: Morpeth to Ellingham Project Team, Highways England

Version	Date	Status of Version
Rev 3	March 2021	Deadline 4

DO NOT SCALE

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ENVIRONMENTAL FUNCTIONS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

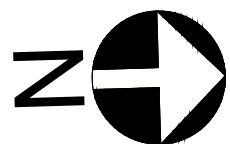
EFA - Visual Screening
EFB - Landscape Integration
EFD - Nature Conservation & Biodiversity
EFE - Visual Amenity
EFG - Auditory Amenity
EFH - Water Quality

ENVIRONMENTAL ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
E 3.1 - Protected Species

LANDSCAPE ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

LE 1.1 - Amenity Grass Areas
LE 1.3 - Species Rich (or Conservation) grassland
LE 2.1 - Woodland
LE 2.2 - Woodland Edge
LE 2.4 - Linear Belts of Shrubs and Trees
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LE 2.6 - Shrubs
LE 2.7 - Scattered Trees
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LE 6.1 - Water Bodies and Associated Plants
LE 6.2 - Banks and Ditches
LE 6.3 - Reed Beds
LE 6.4 - Marsh and Wet Grassland



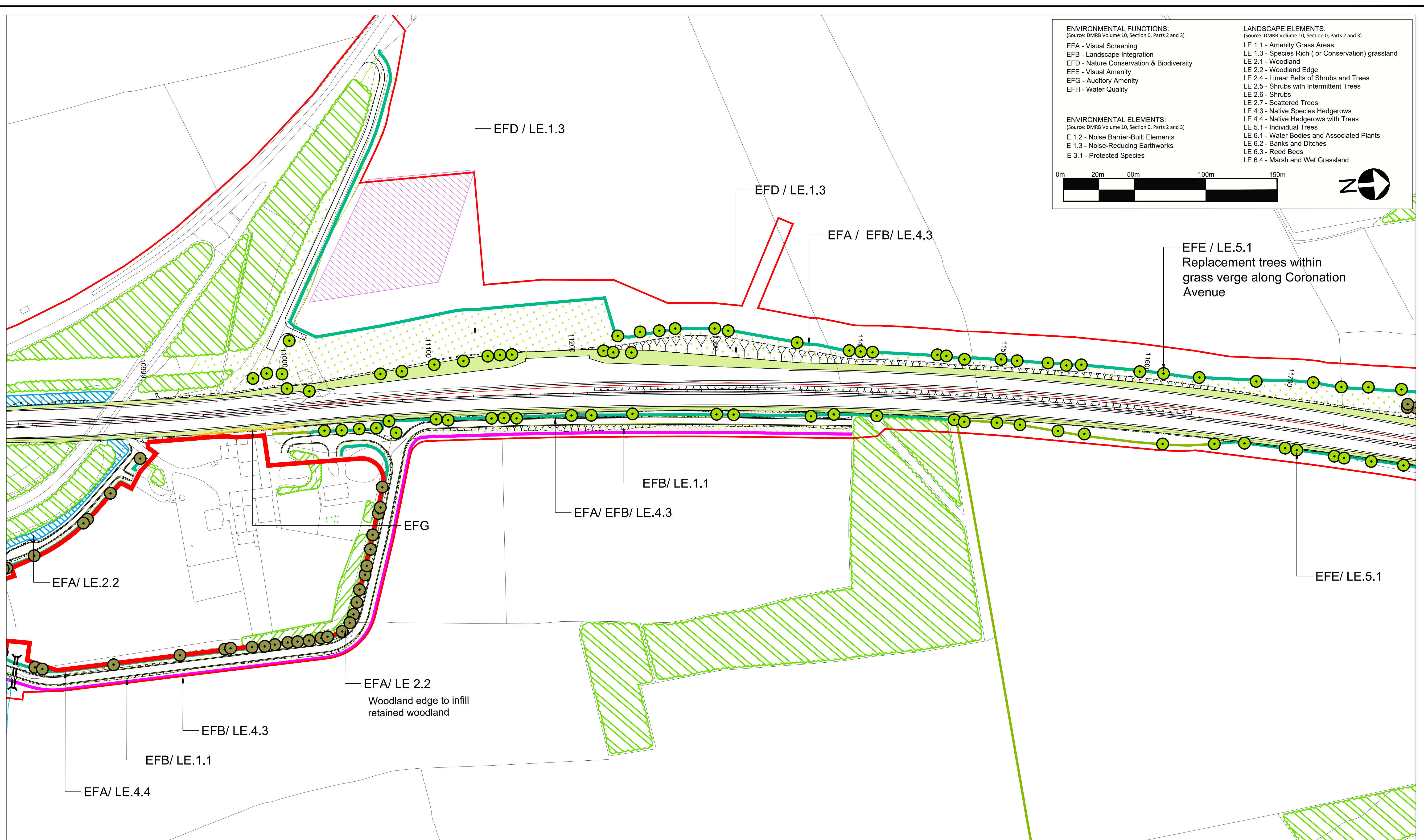
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9	11.03.2021	Amendments to mitigation strategy	NB	AW	AW	
8	02.02.2021	Amendments to mitigation strategy	NB	AW	AW	
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Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd

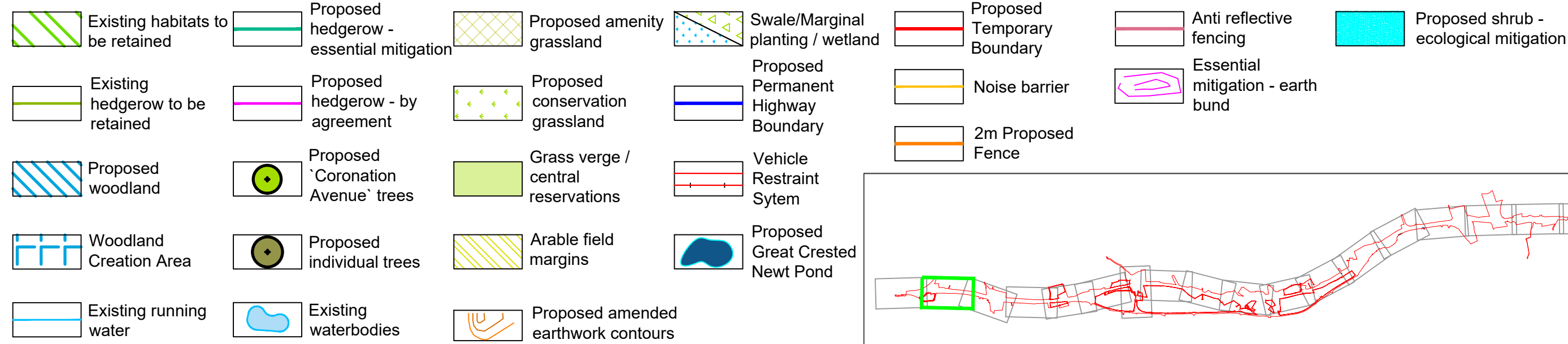
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Client 								Drawing Title										Figure 7.8 - Landscape Mitigation Masterplan SHEET 1 OF 19													
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								HE551459										Originator										Volume		PW Stage Code	
										M2F																					
Section		Type		ID				Direction		Type		Role		Number																	

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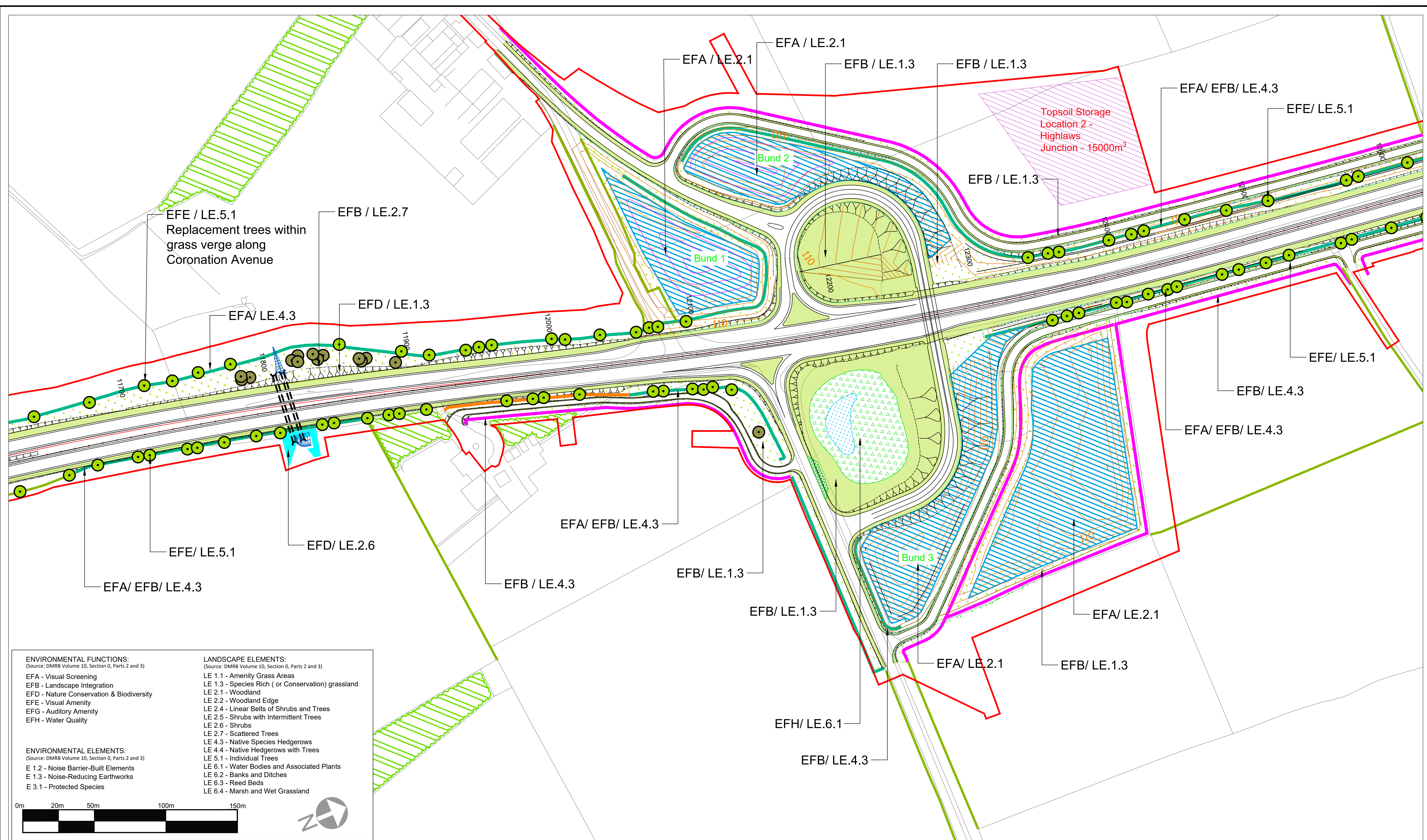
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For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client:		

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Drawing Number	Project	Originator	Volume	Revision
HE551459		WSP	6.2	P09
Section	Type	ID	Direction	Type

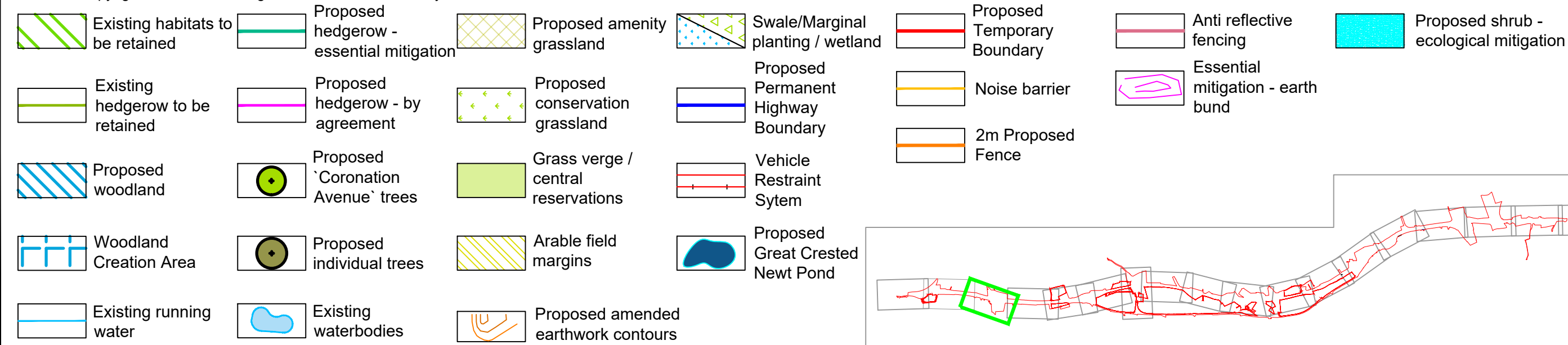
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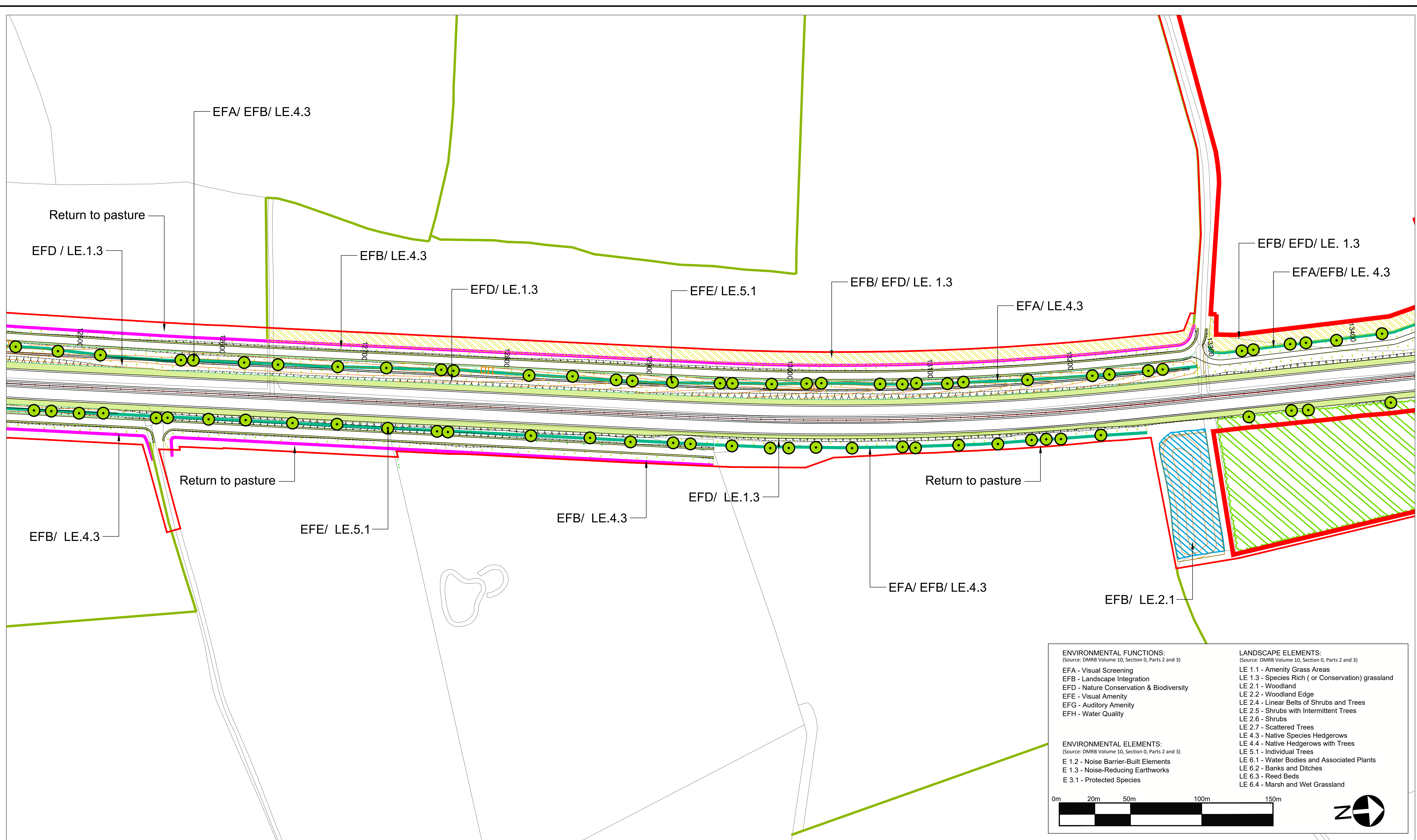
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Suitability	For Information
Client	 highways england
op'd	

Status	Project Title				
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Drawing Number				Revision	
Project					
HE551459				P09	
Originator		Volume			
WSP		6.2			
M2F					
				PW Stage Code	

DO NOT SCALE

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ENVIRONMENTAL FUNCTIONS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

- EFA - Visual Screening
- EFB - Landscape Integration
- EFD - Nature Conservation & Biodiversity
- EFE - Visual Amenity
- EFG - Auditory Amenity
- EFH - Water Quality

ENVIRONMENTAL ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

- E 1.2 - Noise Barrier-Built Elements
- E 1.3 - Noise-Reducing Earthworks
- E 3.1 - Protected Species

LANDSCAPE ELEMENTS:
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Existing habitats to be retained	Proposed hedgerow - essential mitigation	Proposed amenity grassland	Swale/Marginal planting / wetland	Proposed Temporary Boundary	Anti reflective fencing	Proposed shrub - ecological mitigation
Existing hedgerow to be retained	Proposed hedgerow - by agreement	Proposed conservation grassland	Proposed Permanent Highway Boundary	Noise barrier	Essential mitigation - earth bund	
Proposed woodland	Proposed 'Coronation Avenue' trees	Grass verge / central reservations	Vehicle Restraint System	2m Proposed Fence		
Woodland Creation Area	Proposed individual trees	Arable field margins	Proposed Great Crested Newt Pond			
Existing running water	Existing waterbodies	Proposed amended earthwork contours				

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Suitability

For Information

Status

S1

Project Title

A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM

Drawing Title

Figure 7.8 - Landscape Mitigation Masterplan SHEET 4 OF 19

Scale

1:1250

Drawn

NB

Eng. Check

AW

Approved

AW

Authorised

DM

Original Size

A1

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Drawing Number

HE551459

Project

WSP

Volume

6.2

Revision

P09

PW Stage Code

Section

Type

ID

Direction

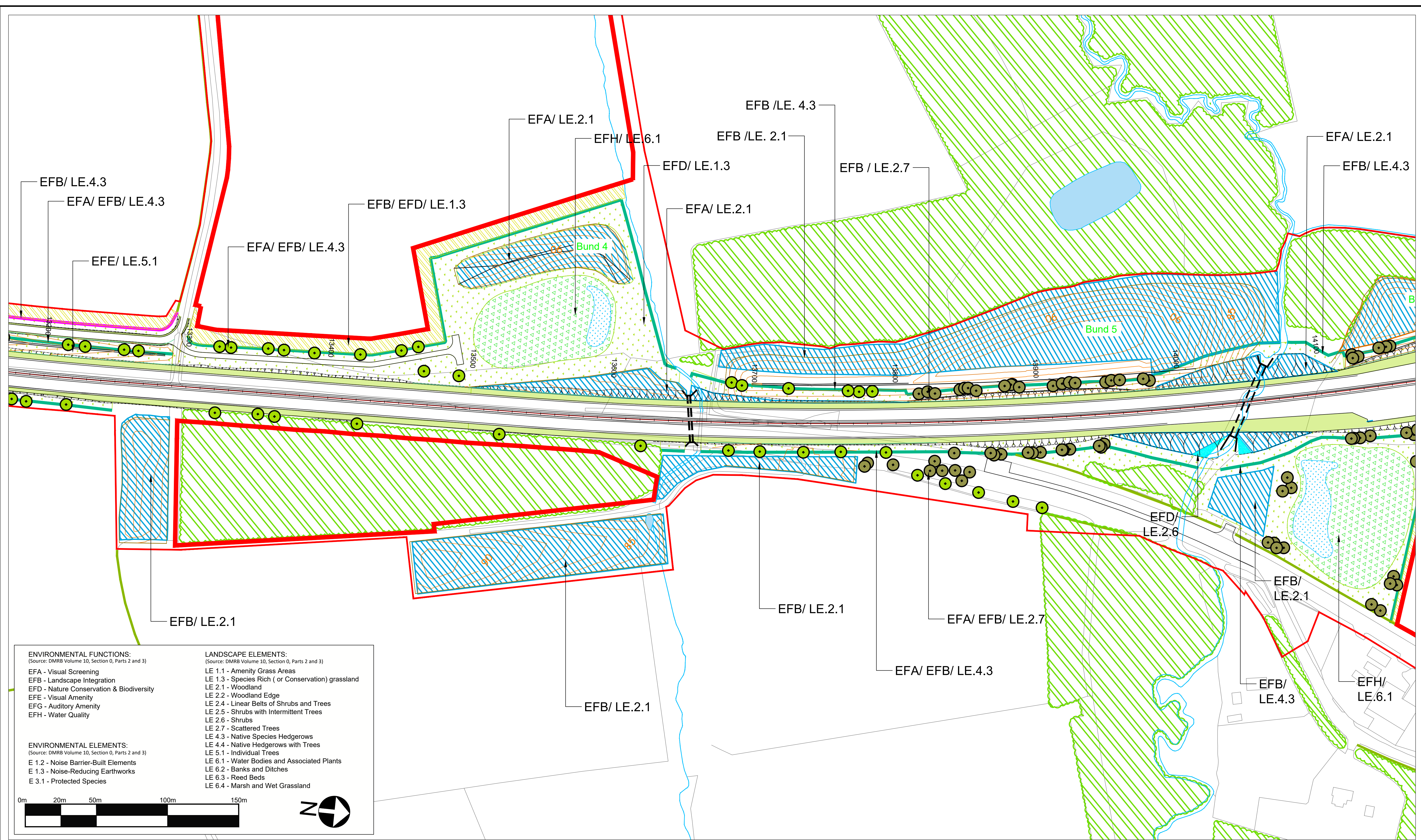
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Role

Number

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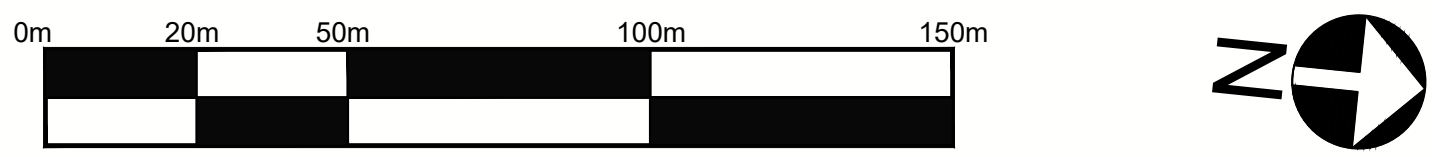
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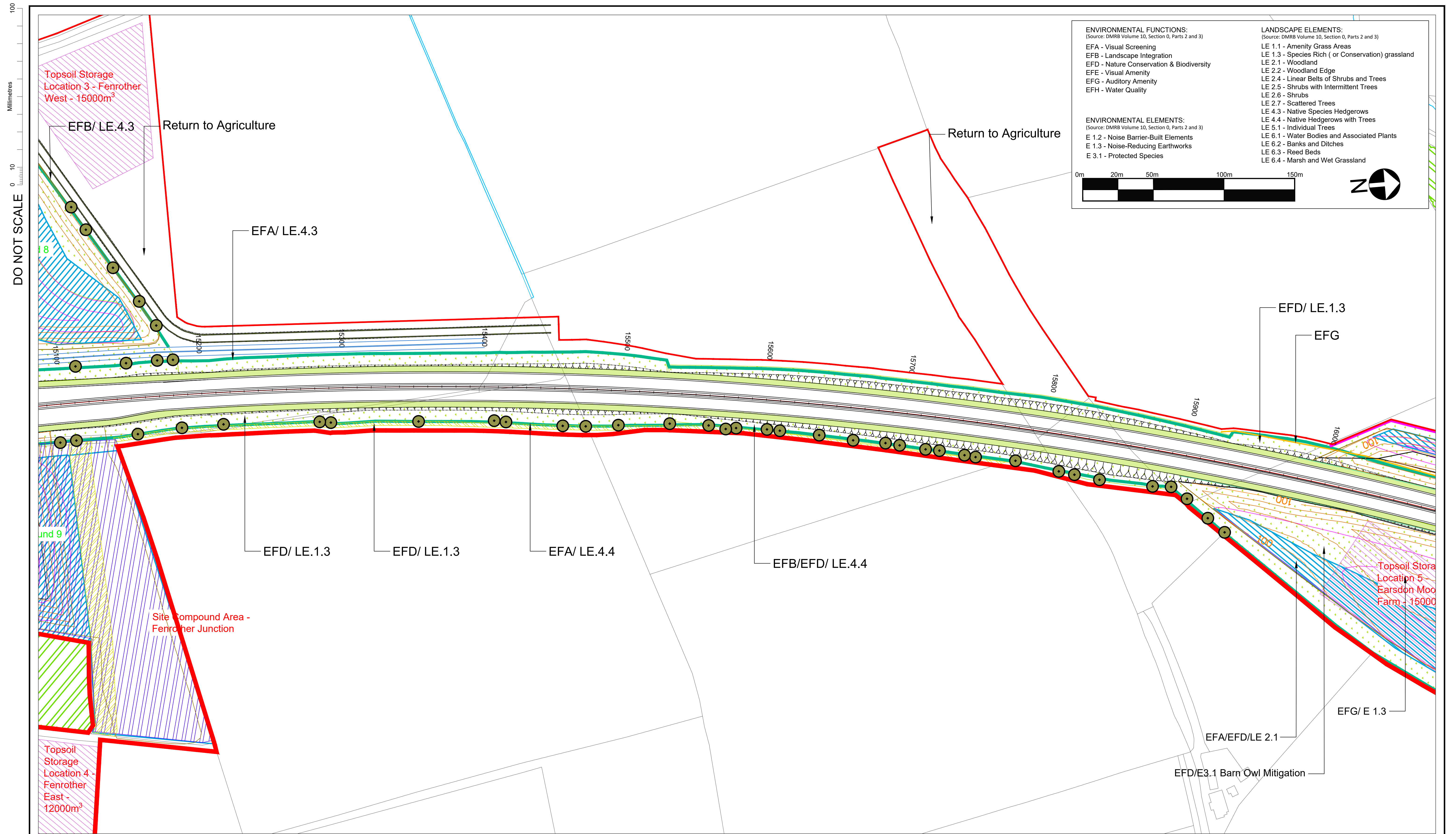
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Suitability	For Information	Status	S1
Client			

Project Title	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM				
Drawing Title	Figure 7.8 - Landscape Mitigation Masterplan SHEET 5 OF 19				
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Drawing Number	HE551459	Volume	6.2	Approved	AW
Project	WSP	Revision	P09	Authorised	DM
Section	Type	ID	Direction	Type	Role
					Number



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ENVIRONMENTAL ELEMENTS:
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E 1.2 - Noise Barrier-Built Elements
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LANDSCAPE ELEMENTS:
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LE 6.4 - Marsh and Wet Grassland

0m 20m 50m 100m 150m

Z

Existing habitats to be retained

Existing hedgerow to be retained

Proposed woodland

Woodland Creation Area

Existing running water

Proposed hedgerow - essential mitigation

Proposed hedgerow - by agreement

Proposed 'Coronation Avenue' trees

Proposed individual trees

Existing waterbodies

Proposed amenity grassland

Proposed conservation grassland

Grass verge / central reservations

Arable field margins

Proposed amended earthwork contours

Swale/Marginal planting / wetland

Proposed Permanent Highway Boundary

Vehicle Restraint System

Proposed Great Crested Newt Pond

Proposed Temporary Boundary

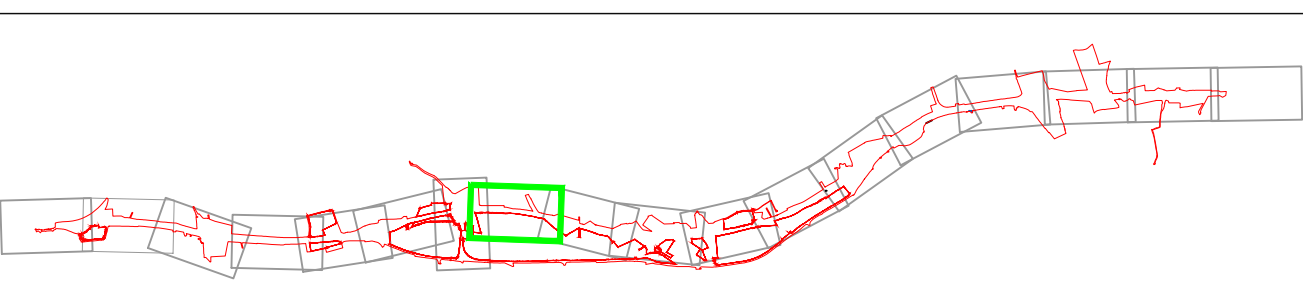
Noise barrier

2m Proposed Fence

Anti reflective fencing

Essential mitigation - earth bund

Proposed shrub - ecological mitigation



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Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd

Suitability

For Information

Client

highways england

Status

S1

Project Title

A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM

Drawing Title

Figure 7.8 - Landscape Mitigation Masterplan
SHEET 8 OF 19

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Drawing Number	HE551459	Originator	WSP	Volume	6.2	Revision	P09
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Section		Type	ID	Direction	Type	Role	Number

M2F

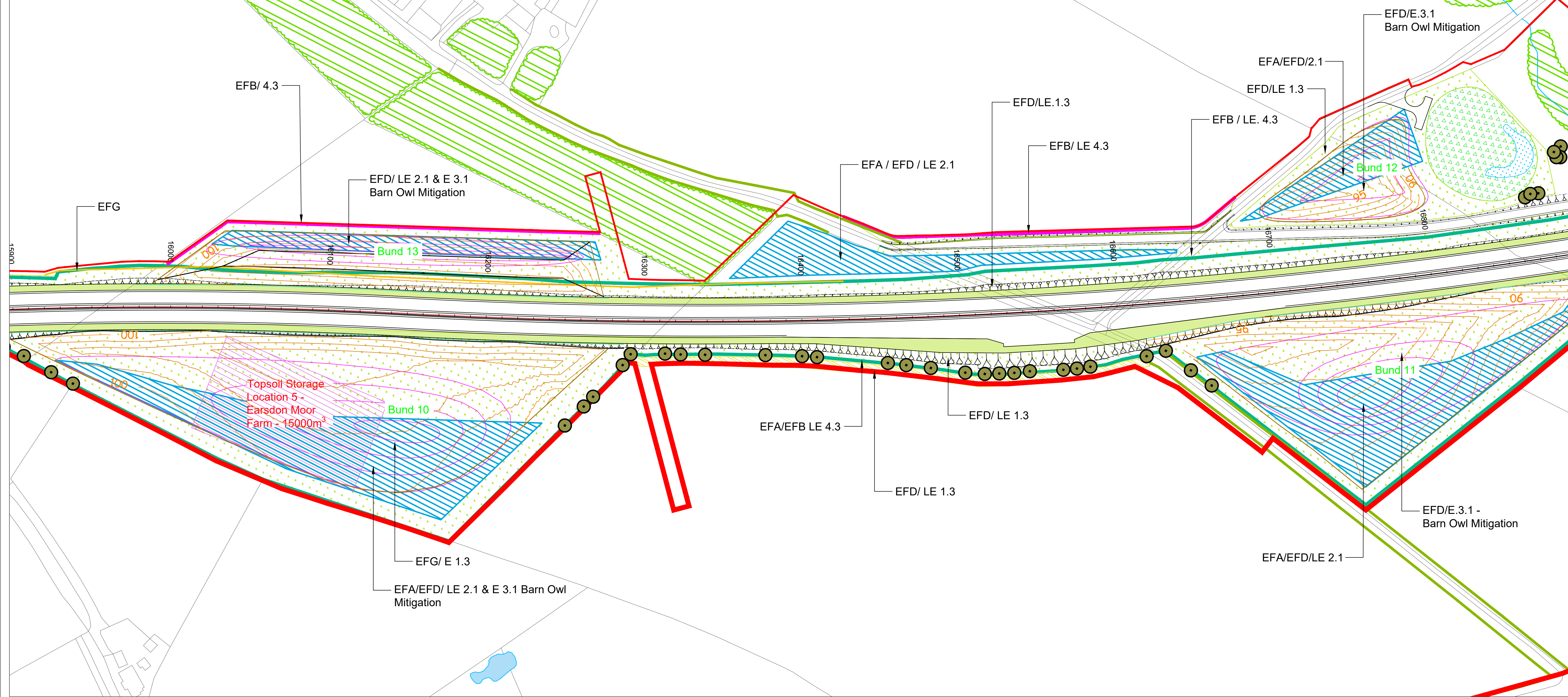
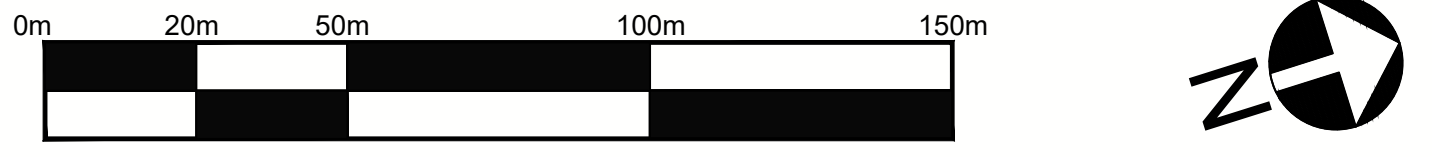
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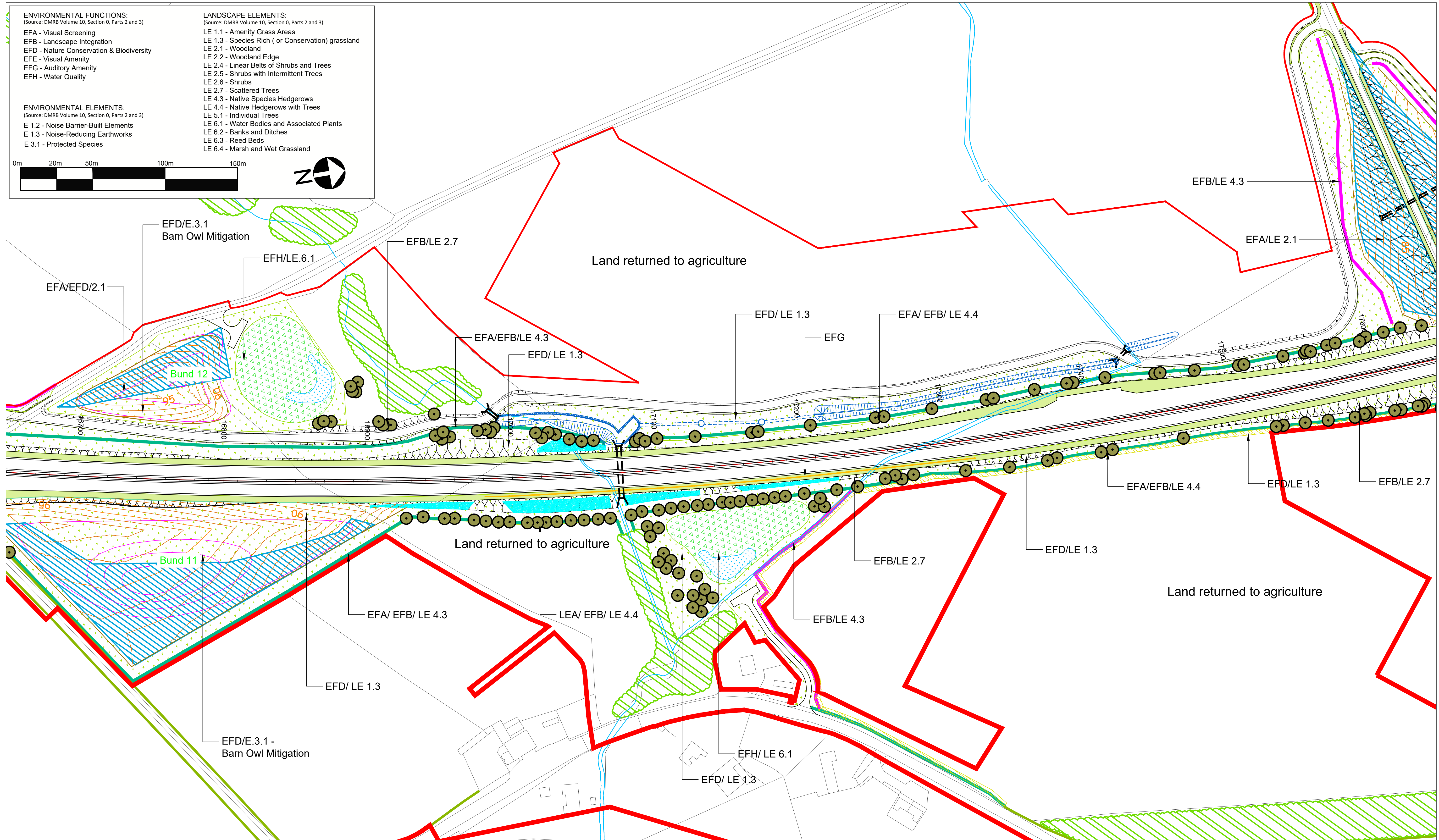
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HE551459		WSP		P09		
M2F		Volume 6.2		PW Stage Code		
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Direction		Type		Role		
Number		Number		Number		

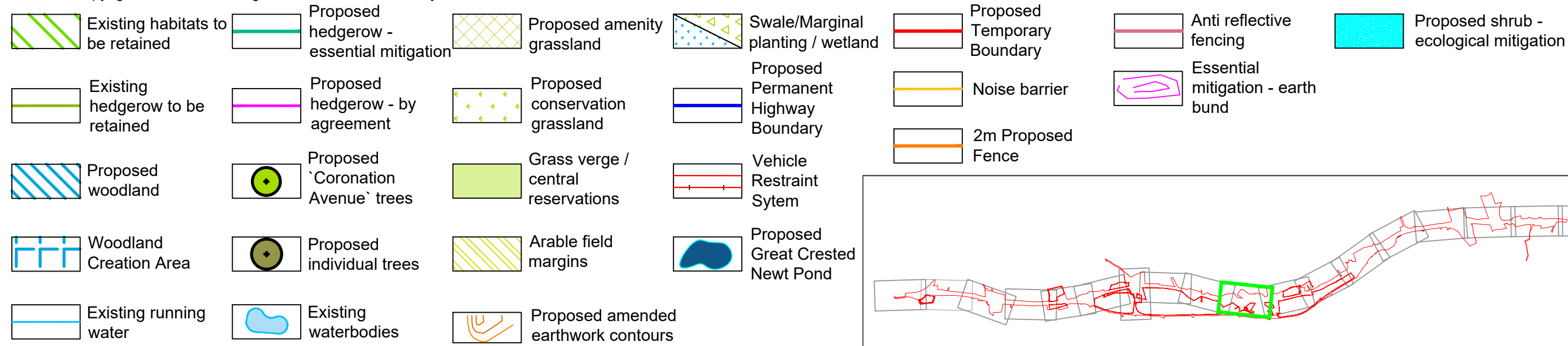
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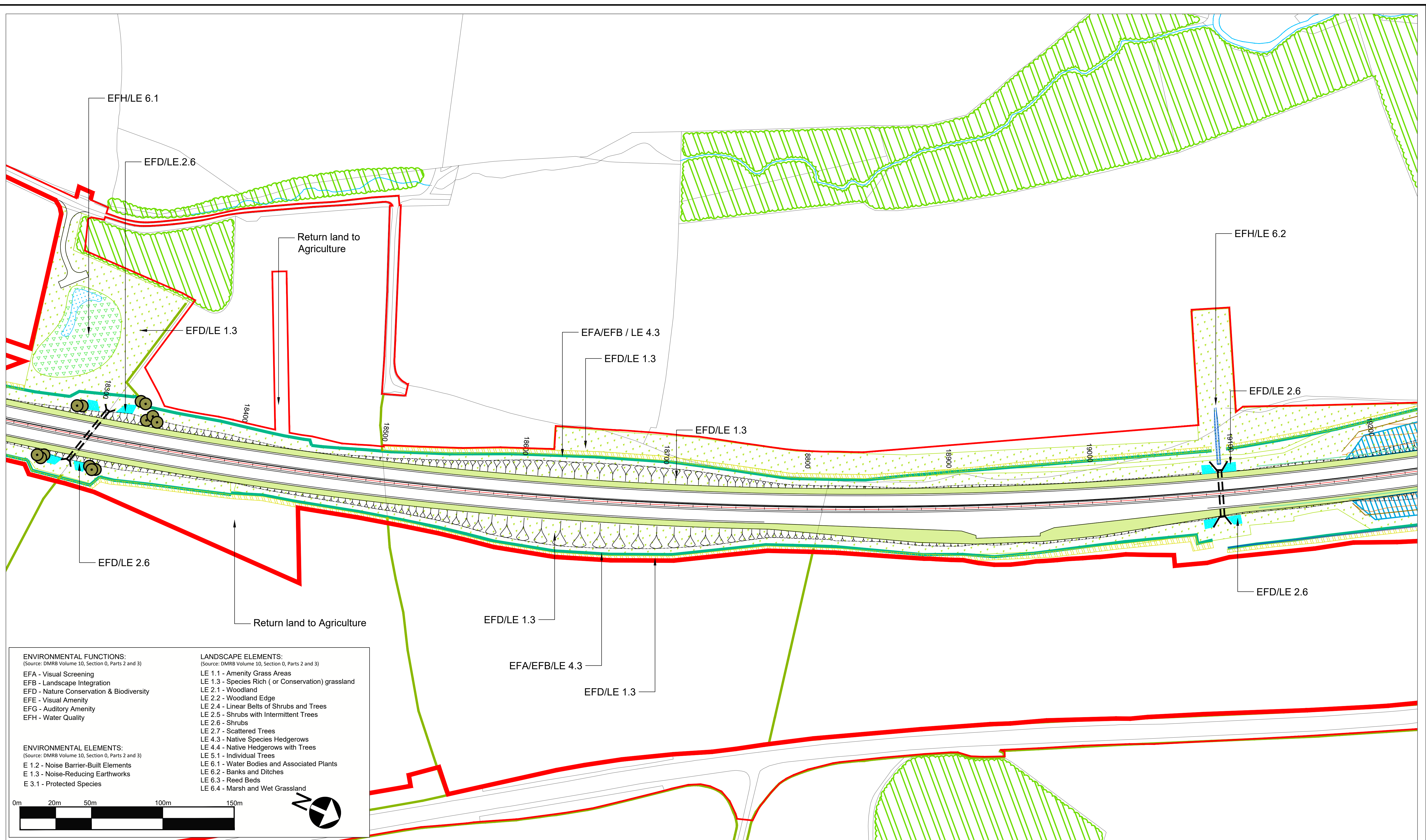
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Suitability	Status	Project Title
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Figure 7.8 - Landscape Mitigation Masterplan SHEET 10 OF 19

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Drawing Number	Project	Originator	Volume	Revision
HE551459		WSP	6.2	P09
Section	Type	ID	Direction	Type

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Millimetres



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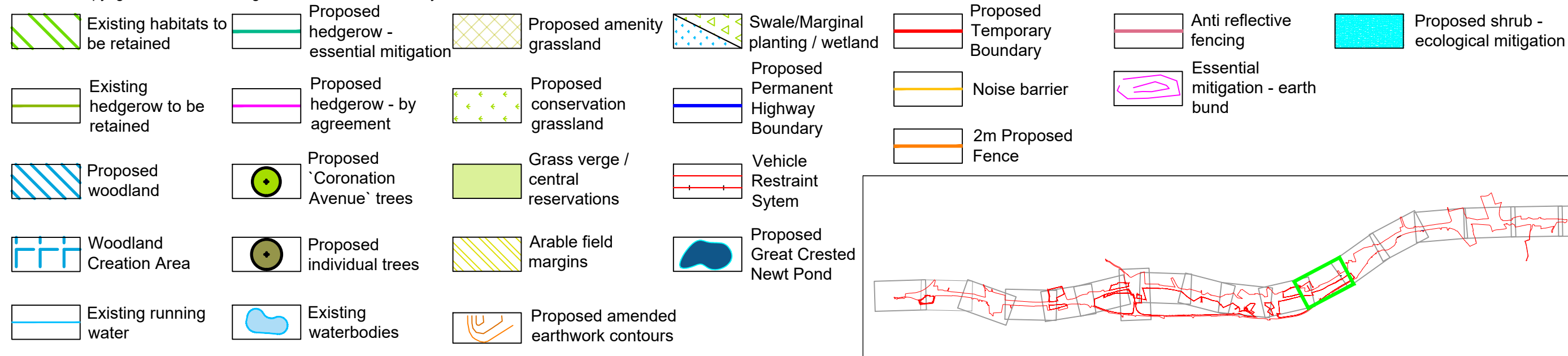
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Suitability

For Information

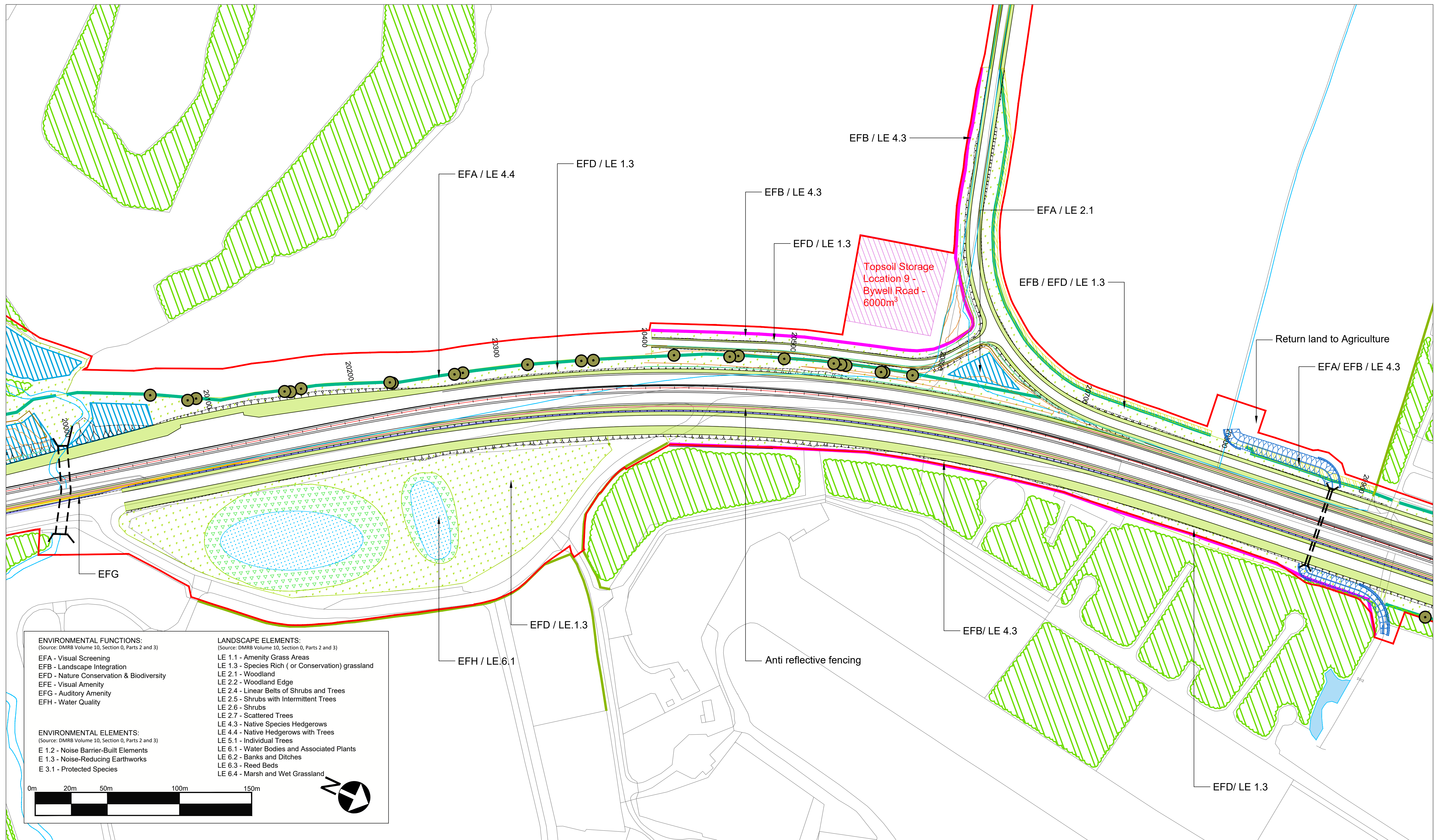
Client

highways
england

Status	Project Title
S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Drawing Title	Figure 7.8 - Landscape Mitigation Masterplan SHEET 12 OF 19
Scale	1:1250
Original Size	A1
Drawn	NB
Date	02.02.2021
Eng. Check	AW
Date	02.02.2021
Approved	AW
Date	02.02.2021
Authorised	DM
Date	02.02.2021
Drawing Number	HE551459
Project	WSP
Volume	6.2
Revision	P09
Section	Type
ID	Direction
Type	Role
Number	

DO NOT SCALE

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Millimetres



ENVIRONMENTAL FUNCTIONS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

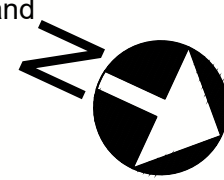
EFA - Visual Screening
EFB - Landscape Integration
EFD - Nature Conservation & Biodiversity
EFE - Visual Amenity
EFG - Auditory Amenity
EFH - Water Quality

ENVIRONMENTAL ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

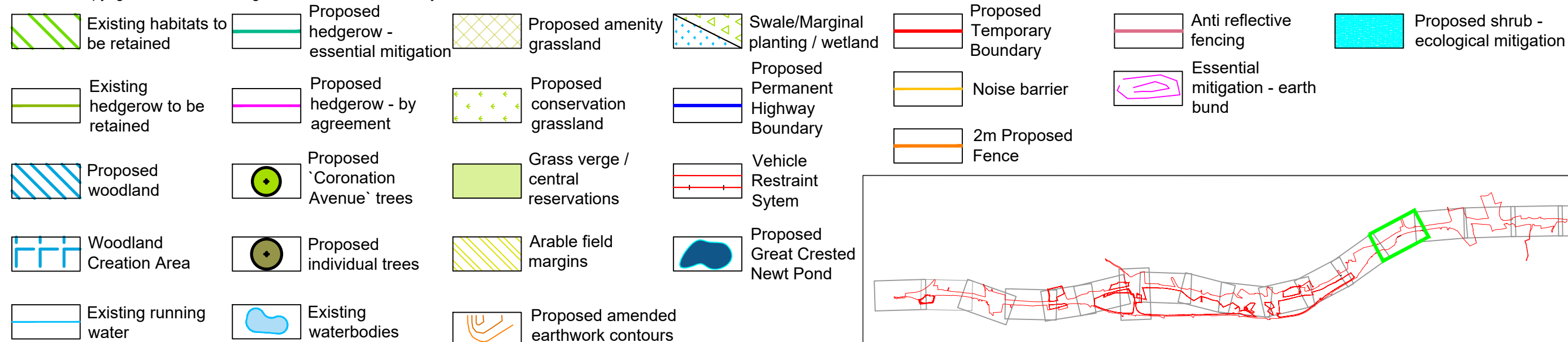
E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
E 3.1 - Protected Species

LANDSCAPE ELEMENTS:
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

LE 1.1 - Amenity Grass Areas
LE 1.3 - Species Rich (or Conservation) grassland
LE 2.1 - Woodland
LE 2.2 - Woodland Edge
LE 2.4 - Linear Belts of Shrubs and Trees
LE 2.5 - Shrubs with Intermittent Trees
LE 2.6 - Shrubs
LE 2.7 - Scattered Trees
LE 4.3 - Native Species Hedgerows
LE 4.4 - Native Hedgerows with Trees
LE 5.1 - Individual Trees
LE 6.1 - Water Bodies and Associated Plants
LE 6.2 - Banks and Ditches
LE 6.3 - Reed Beds
LE 6.4 - Marsh and Wet Grassland



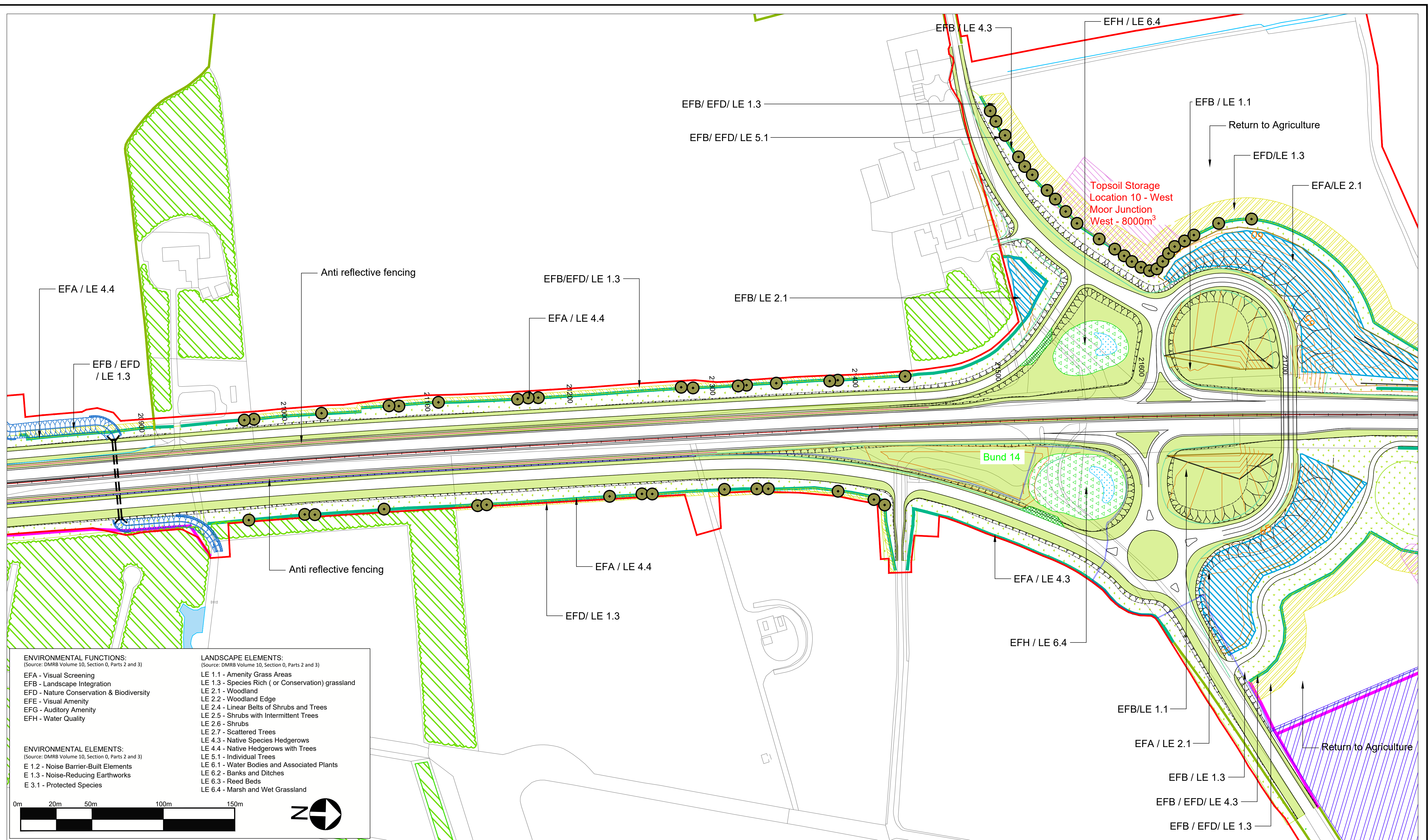
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Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
9	11.03.2021	Amendments to mitigation strategy	NB	AW	AW	
8	02.02.2021	Amendments to mitigation strategy	NB	AW	AW	
7	29.08.2019	Update to Key	GH	AW	NM	
6	05.06.2019	Update to landscape hatches	CM	CH	NM	
5	25.03.2019	Update to Key	CL	CH		
4	21.03.2019	Update to highways layout	CL	CH		
3	19.03.2019	Update to landscape hatches	CL	CH		
2	14.03.2019	Changes in Temporary Boundary	FS	CH		
1	rv date	Rev 1 description	By	Eng	Disc	

Suitability	Status	Project Title
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Figure 7.8 - Landscape Mitigation Masterplan SHEET 14 OF 19

Scale	Drawn	Eng. Check	Approved	Authorised
1:1250	NB	AW	AW	DM
Original Size	Date	Date	Date	Date
A1	02.02.2021	02.02.2021	02.02.2021	02.02.2021
Drawing Number	Project	Originator	Volume	Revision
HE551459		WSP	6.2	P09
Section	Type	ID	Direction	Type



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 Existing habitats to be retained

 Existing hedgerow to be retained

 Proposed woodland

 Woodland Creation Area

 Existing running water

 Proposed hedgerow - essential mitigation

 Proposed hedgerow - by agreement

 Proposed 'Coronation Avenue' trees

 Proposed individual trees

 Existing waterbodies

 Proposed amenity grassland

 Proposed conservation grassland

 Grass verge / central reservations

 Arable field margins

 Proposed amended earthwork contours

 Swale/Marginal planting / wetland

 Proposed Permanent Highway Boundary

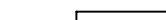
 Vehicle Restraint System

 Proposed Great Crested Newt Pond

 Proposed Temporary Boundary

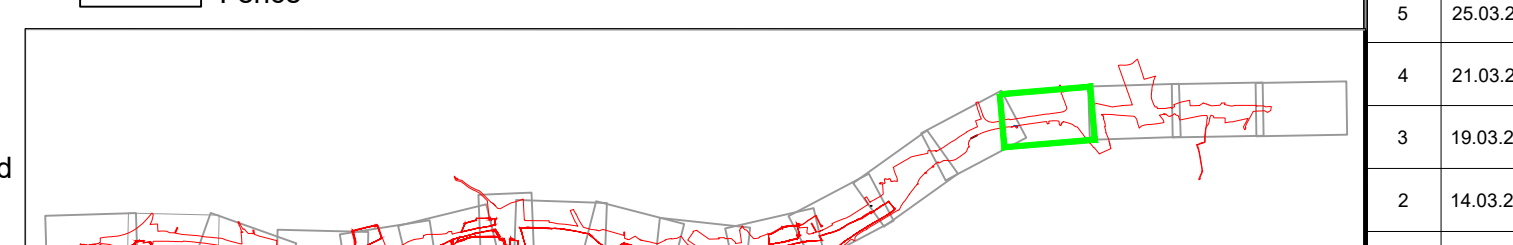
 Noise barrier

 2m Proposed Fence

 Anti reflective fencing

 Essential mitigation - earth bund

 Proposed shrub - ecological mitigation

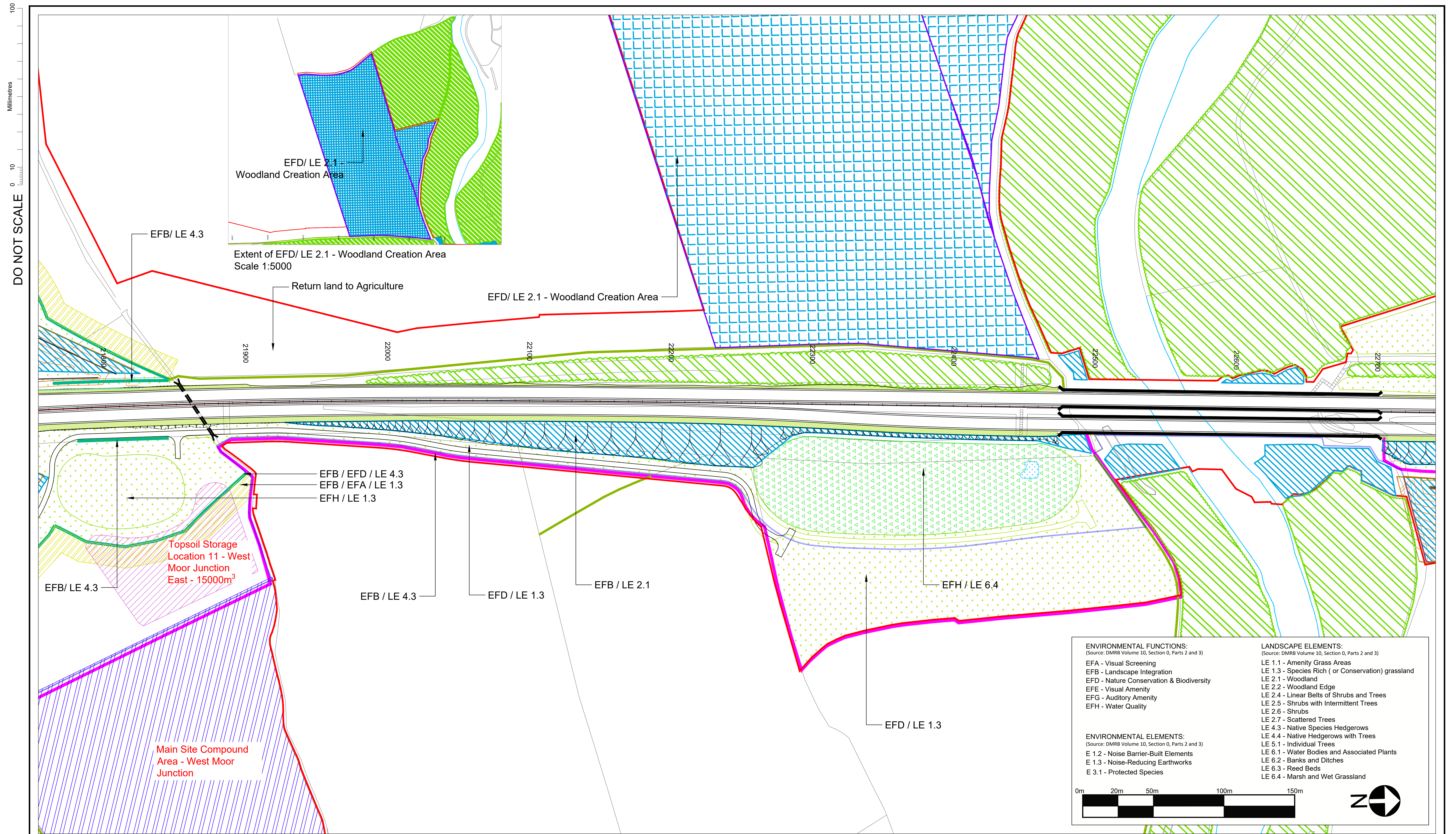


Rev.	Date	Description	By	Eng' Ch'k	Disc' Ch'k	App'd
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8	02.02.2021	Amendments to mitigation strategy	NB	AW	AW	
7	29.08.2019	Update to Key	GH	AW	NM	
6	05.06.2019	Update to landscape hatches	CM	CH	NM	
5	25.03.2019	Update to Key	CL	CH		
4	21.03.2019	Update to highways layout	CL	CH		
3	19.03.2019	Update to landscape hatches	CL	CH		
2	14.03.2019	Changes to Temporary Boundary	FS	CH		
1	rv date	Rev 1 description	By	Eng	Disc	

Sustainability		Status	Project Title			
For Information		S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM			

Drawing Title					
Figure 7.8 - Landscape Mitigation Masterplan SHEET 15 OF 19					
Scale 1:1250	Drawn NB	Eng. Check AW	Approved AW	Authorised DM	
Original Size A1	Date 02.02.2021	Date 02.02.2021	Date 02.02.2021	Date 02.02.2021	
Drawing Number HE551459		Originator WSP		Volume 6.2	
Section		Type	ID	Revision	
				P09	
				PW Stage Code	





DO NOT SCALE

100
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Millimetres

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Existing habitats to be retained

Existing hedgerow to be retained

Proposed woodland

Woodland Creation Area

Existing running water

Proposed hedgerow - essential mitigation

Proposed hedgerow - by agreement

Proposed 'Coronation Avenue' trees

Proposed individual trees

Existing waterbodies

Proposed amenity grassland

Proposed conservation grassland

Grass verge / central reservations

Arable field margins

Proposed amended earthwork contours

Swale/Marginal planting / wetland

Proposed Permanent Highway Boundary

Vehicle Restraint System

Proposed Great Crested Newt Pond

Proposed Temporary Boundary

Noise barrier

2m Proposed Fence

Anti reflective fencing

Essential mitigation - earth bund

Proposed shrub - ecological mitigation

Rev.	Date	Rev 1 description	By	Eng' Chk	Disc' Chk	App'd
9	11.03.2021	Amendments to mitigation strategy	NB	AW	AW	
8	02.02.2021	Amendments to mitigation strategy	NB	AW	AW	
7	29.08.2019	Update to Key	GH	AW	NM	
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2	14.03.2019	Changes to Temporary Boundary	FS	CH		
1	rv date	Rev 1 description	By	Eng' Chk	Disc' Chk	App'd

For Information

S1

Client

Project Title

A1 IN NORTHUMBERLAND:
MORPETH TO ELLINGHAM

Drawing Title

Figure 7.8 - Landscape Mitigation Masterplan
SHEET 16 OF 19

Scale

1:1250

Drawn

NB

Eng. Check

AW

Approved

AW

Authorised

DM

Original Size

A1

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Date

02.02.2021

Drawing Number

HE551459

Project

WSP

Volume

6.2

Revision

P09

Section

Type

ID

Direction

Type

Role

Number

Rev.

Date

Description

By

Eng' Chk

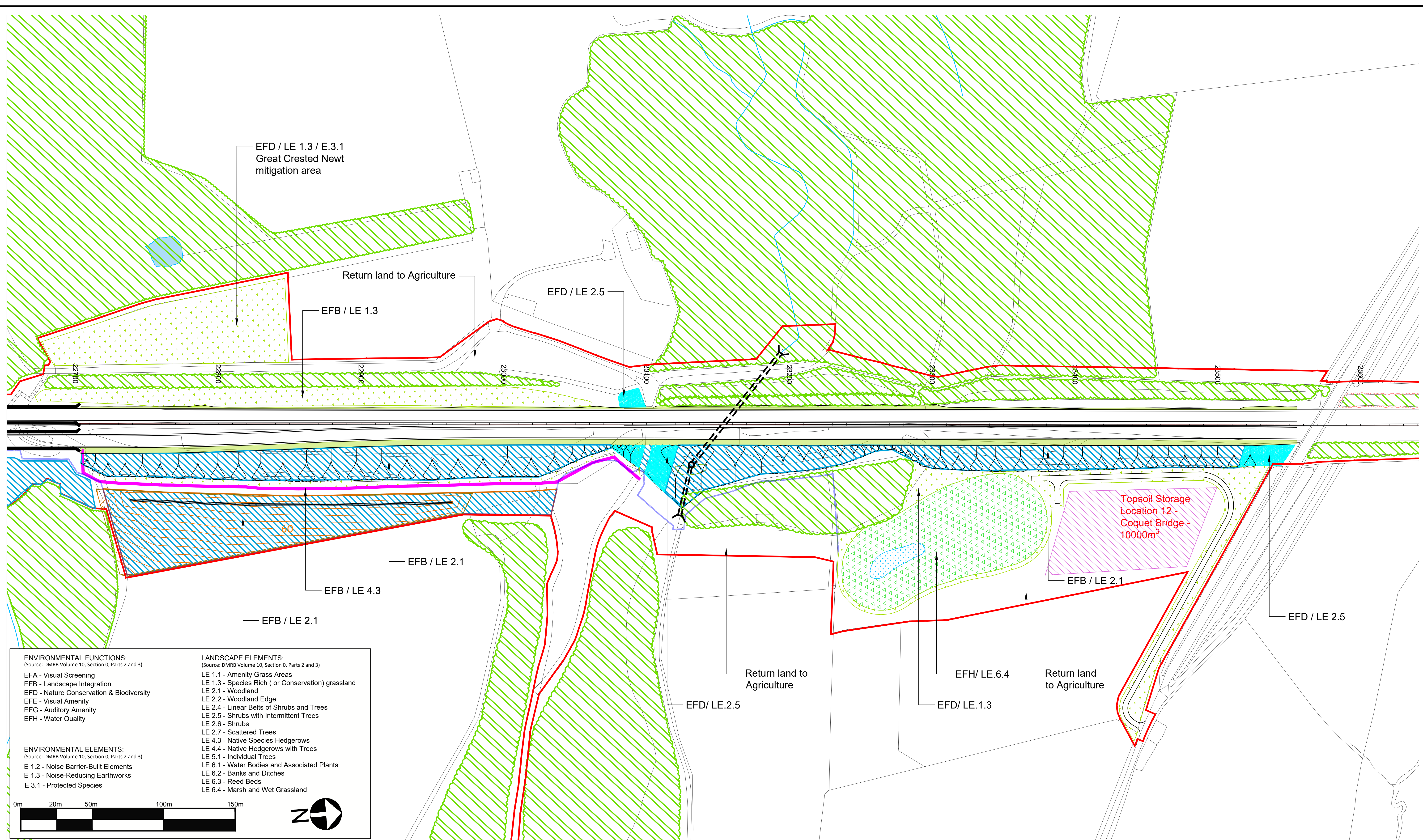
Disc' Chk

App'd

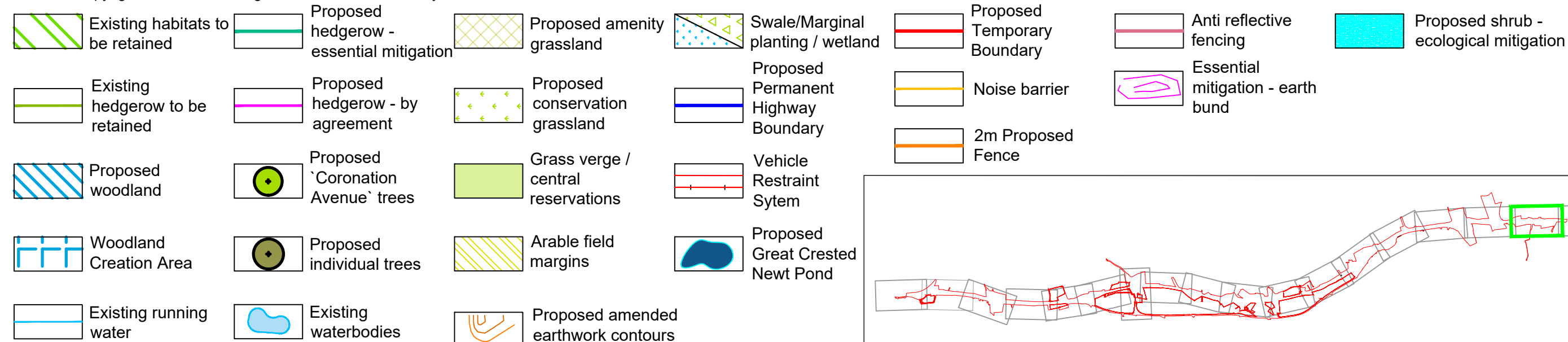
DO NOT SCALE

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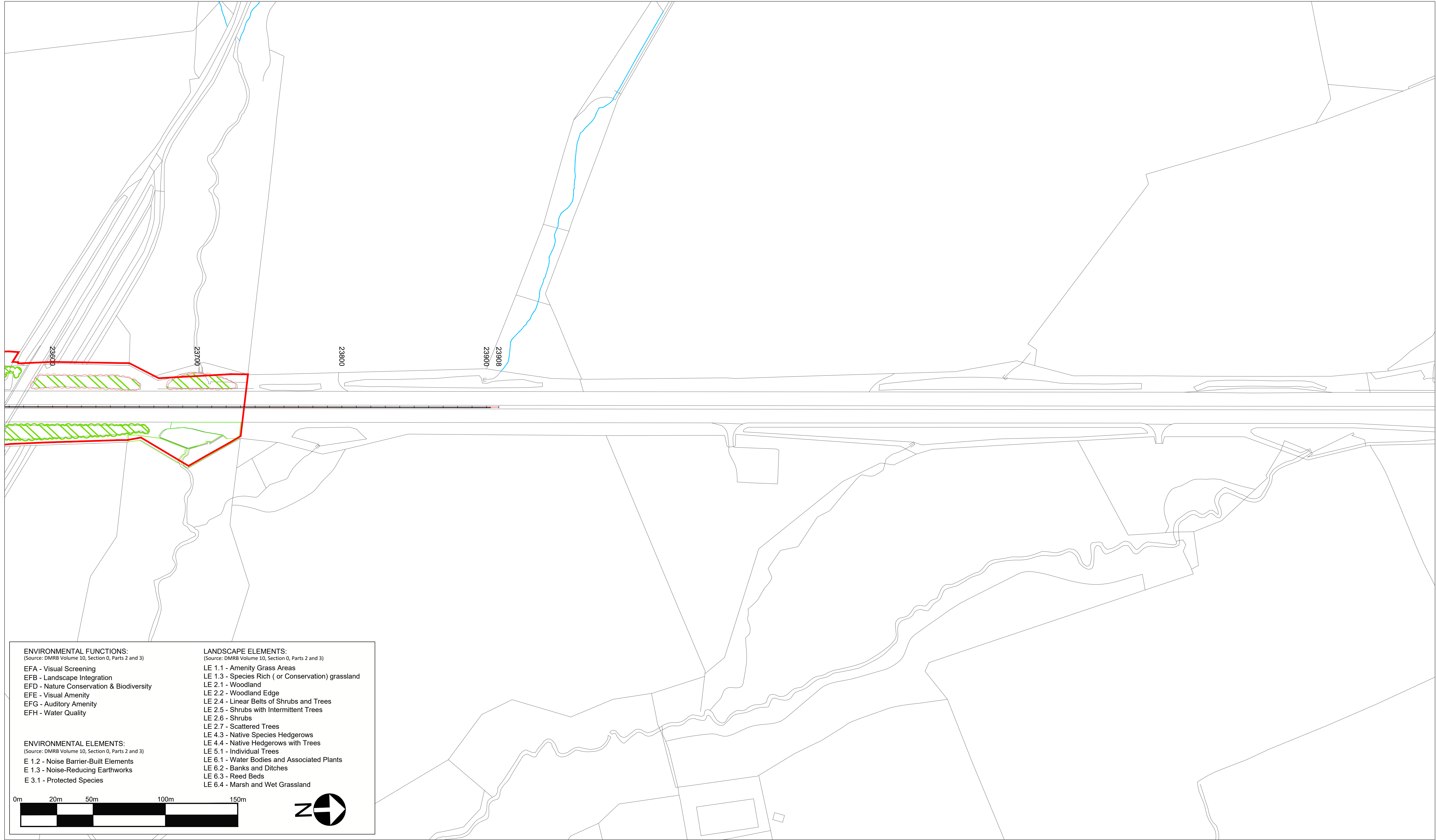
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Suitability	Status	Project Title			
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM			
Client	Drawing Title				
	Figure 7.8 - Landscape Mitigation Masterplan SHEET 17 OF 19				
	Scale	Drawn	Eng. Check	Approved	Authorised
	1:1250	NB	AW	AW	DM
	Original Size	Date	Date	Date	Date
	A1	02.02.2021	02.02.2021	02.02.2021	02.02.2021
Drawing Number	Project	Originator	Volume	Revision	
HE551459		WSP	6.2	P09	
		M2F		PW Stage Code	

DO NOT SCALE

0 10 100
Millimetres



ENVIRONMENTAL FUNCTIONS:

(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

EFA - Visual Screening
EFB - Landscape Integration
EFD - Nature Conservation & Biodiversity
EFE - Visual Amenity
EFG - Auditory Amenity
EFH - Water Quality

ENVIRONMENTAL ELEMENTS:

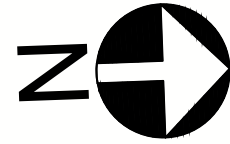
(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
E 3.1 - Protected Species

LANDSCAPE ELEMENTS:

(Source: DMRB Volume 10, Section 0, Parts 2 and 3)

LE 1.1 - Amenity Grass Areas
LE 1.3 - Species Rich (or Conservation) grassland
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LE 6.2 - Banks and Ditches
LE 6.3 - Reed Beds
LE 6.4 - Marsh and Wet Grassland



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Existing habitats to be retained	Proposed hedgerow - essential mitigation	Proposed amenity grassland	Swale/Marginal planting / wetland
Existing hedgerow to be retained	Proposed hedgerow - by agreement	Proposed conservation grassland	Proposed Permanent Highway Boundary
Proposed woodland	Proposed 'Coronation Avenue' trees	Grass verge / central reservations	Vehicle Restraint Sytem
Woodland Creation Area	Proposed individual trees	Arable field margins	Proposed Great Crested Newt Pond
Existing running water	Existing waterbodies	Proposed amended earthwork contours	



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
9	11.03.2021	Amendments to mitigation strategy	NB	AW	AW	
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2	14.03.2019	Changes to Temporary Boundary	FS	CH		
1	rv date	Rev 1 description	By	Eng	Disc	

Suitability	Status	Project Title
For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Figure 7.8 - Landscape Mitigation Masterplan SHEET 18 OF 19

Scale	Drawn	Eng. Check	Approved	Authorised
1:1250	NB	AW	AW	DM
Original Size	Date	Date	Date	Date
A1	02.02.2021	02.02.2021	02.02.2021	02.02.2021
Drawing Number	Project	Originator	Volume	Revision
HE551459		WSP	6.2	P09
Section	Type	ID	Direction	Type

Indicative Grassland Seed Mixes	
Botanical Name	Common Name
<i>Landscape Element</i>	Discription
LE.1.1	Amenity Grass Areas
LE.1.3	Species Rich (or Conservation) grassland
LE.1.3	Species Rich (or Conservation) grassland Arable Field Margins
LE.1.3	Species Rich (or Conservation) grassland Ancient Woodland - understory
LE.1.3	Species Rich (or Conservation) grassland verges / junctions
LE.6.3	Marsh an Wet Grassland
Seed mixes based on those supplied by Germinal Seeds.	

Indicative Native Hedgerow Mix		
Botanical Name	Common Name	% Mix
<i>Prunus spinosa</i>	Blackthorn	30
<i>Sambucus nigra</i>	Elder	5
<i>Crataegus monogyna</i>	Haw thorn	40
<i>Corylus avellana</i>	Hazel	10
<i>Ilex aquifolium</i>	Holly	7.5
<i>Rosa arvensis</i>	Field Rose	5
<i>Lonicera periclymenum</i>	Honeysuckle	2.5
<i>Prunus padus</i>	Bird Cherry	
<i>Quercus robur</i>	Common Oak	
<i>Sorbus aucuparia</i>	Row an	
Total		100%

Indicative Ancient Woodland Replacement Mix		
Botanical Name	Common Name	% Mix
<i>Aesculus hippocastanum</i>	Horse Chestnut	5
<i>Fagus sylvatica</i>	Beech	15
<i>Quercus petraea</i>	Sessile Oak	10
<i>Quercus robur</i>	Common Oak	10
<i>Sorbus aucuparia</i>	Rowan	10
<i>Betula pendula</i>	Silver Birch	10
<i>Acer campestre</i>	Field Maple	7.5
<i>Sambucus nigra</i>	Elder	5
<i>Prunus avium</i>	Gean Cherry	7.5
<i>Viburnum opulus</i>	Guelder Rose	5
<i>Ilex aquifolium</i>	Holly	5
<i>Corylus avellana</i>	Hazel	10
Total		100%

Indicative Shrubs & Shrubs with Intermittent Trees Mix		
Botanical Name	Common Name	% Mix
Shrubs		
<i>Prunus spinosa</i>	Blackthorn	20
<i>Sambucus nigra</i>	Elder	15
<i>Rosa canina</i>	Dog Rose	15
<i>Acer campestre</i>	Field Maple	20
<i>Corylus avellana</i>	Hazel	30
Feathered Trees		
<i>Prunus padus</i>	Bird Cherry	
<i>Quercus robur</i>	Common Oak	
<i>Sorbus aucuparia</i>	Row an	
Total		100%

Indicative Woodland Block Planting Mix		
Botanical Name	Common Name	% Mix
<i>Fagus sylvatica</i>	Beech	10
<i>Quercus robur</i>	Common Oak	20
<i>Sorbus aucuparia</i>	Row an	10
<i>Betula pendula</i>	Silver Birch	10
<i>Acer campestre</i>	Field Maple	7.5
<i>Sambucus nigra</i>	Elder	5
<i>Prunus avium</i>	Gean Cherry	7.5
<i>Viburnum opulus</i>	Guelder Rose	5
<i>Ilex aquifolium</i>	Holly	5
<i>Corylus avellana</i>	Hazel	10
<i>Tilia platyphyllos</i>	Large Leaved Lime	10
Total		100%

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