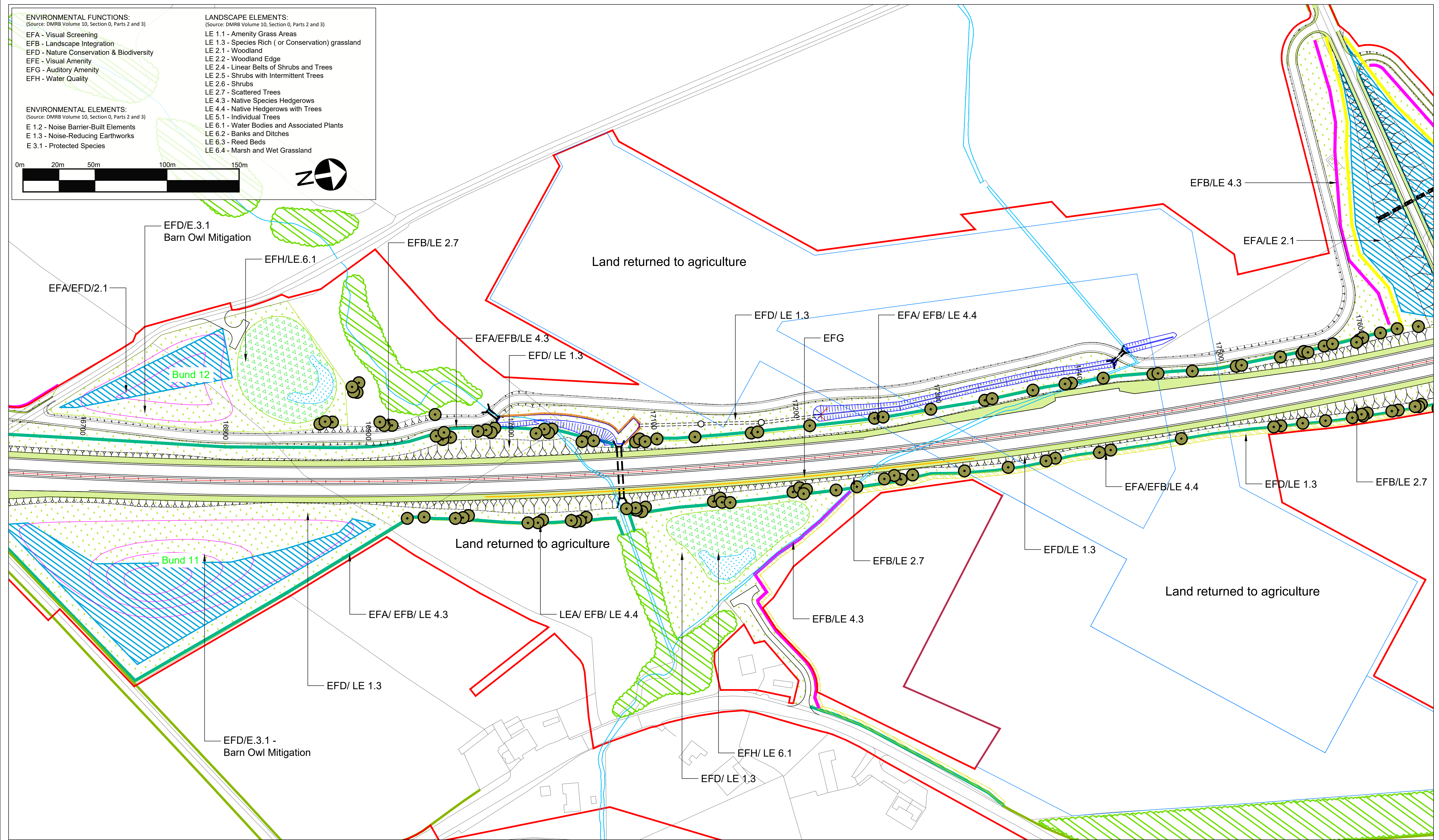


DO NOT SCALE

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Millimetres



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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 soil bund, slackening of slope or disposal of excess site material
Existing hedgerow to be retained	Proposed hedgerow - by agreement	Proposed conservation grassland	Proposed Permanent Highway Boundary	Noise barrier	Essential mitigation - earth bund	Proposed shrub - ecological mitigation
Proposed woodland	Proposed 'Coronation Avenue' trees	Grass verge / central reservations	Vehicle Restraint System	Proposed Great Crested Newt Pond		
Woodland Creation Area	Proposed individual trees	Arable field margins				
Existing running water	Existing waterbodies					

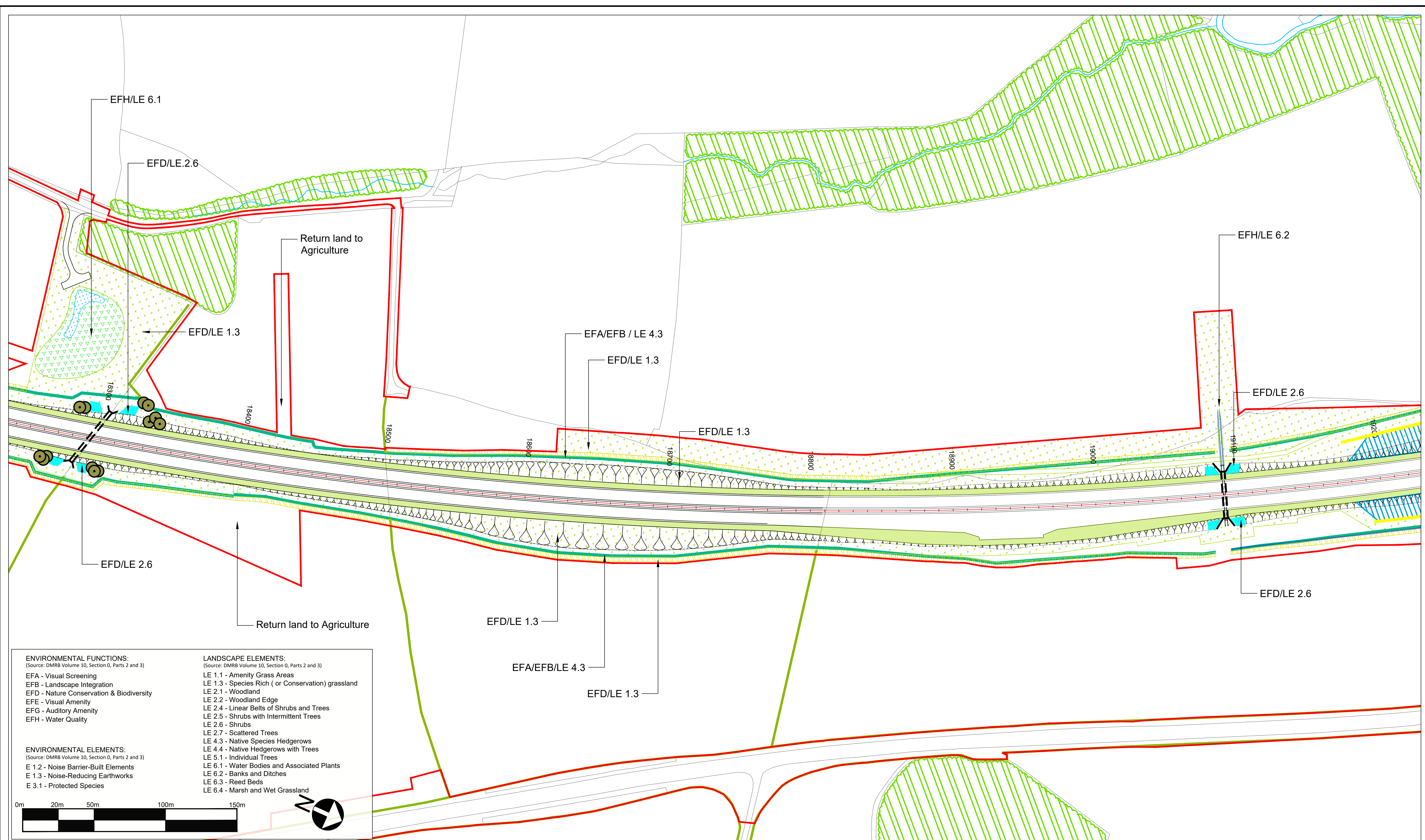
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8	June 2020	Project Details Updated		GH	AW	NM
7	29.08.2019	Update to Key		GH	AW	NM
6	05.06.2019	Update to landscape hatches		CM	CH	NM
5	25.03.2019	Update to Key		CL	CH	
4	21.03.2019	Update to highways layout		CL	CH	
3	19.03.2019	Update to landscape hatches		CL	CH	
2	14.03.2019	Changes to Temporary Boundary		FS	CH	
P08	nv date	Rev 1 description				

Sustainability		Status		Project Title	
For Information		S1		A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM	
Client				Drawing Title	
highways england				Figure 7.8 - Landscape Mitigation Masterplan SHEET 10 OF 19	
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Original Size	A1	Date	14.03.2019	Approved	KS
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Project	M2F	Direction	RP	Revision	P08
Section		Type	LE	Number	1942

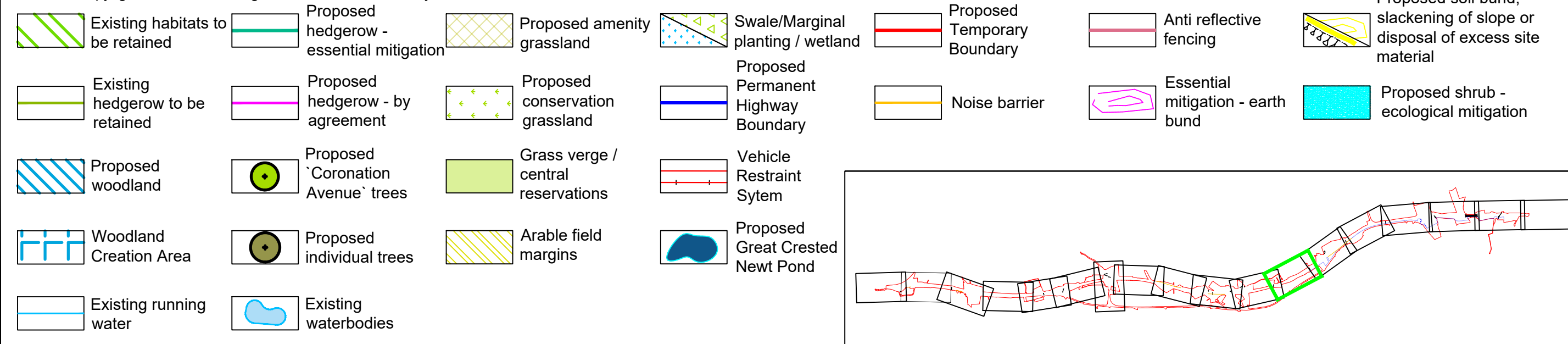
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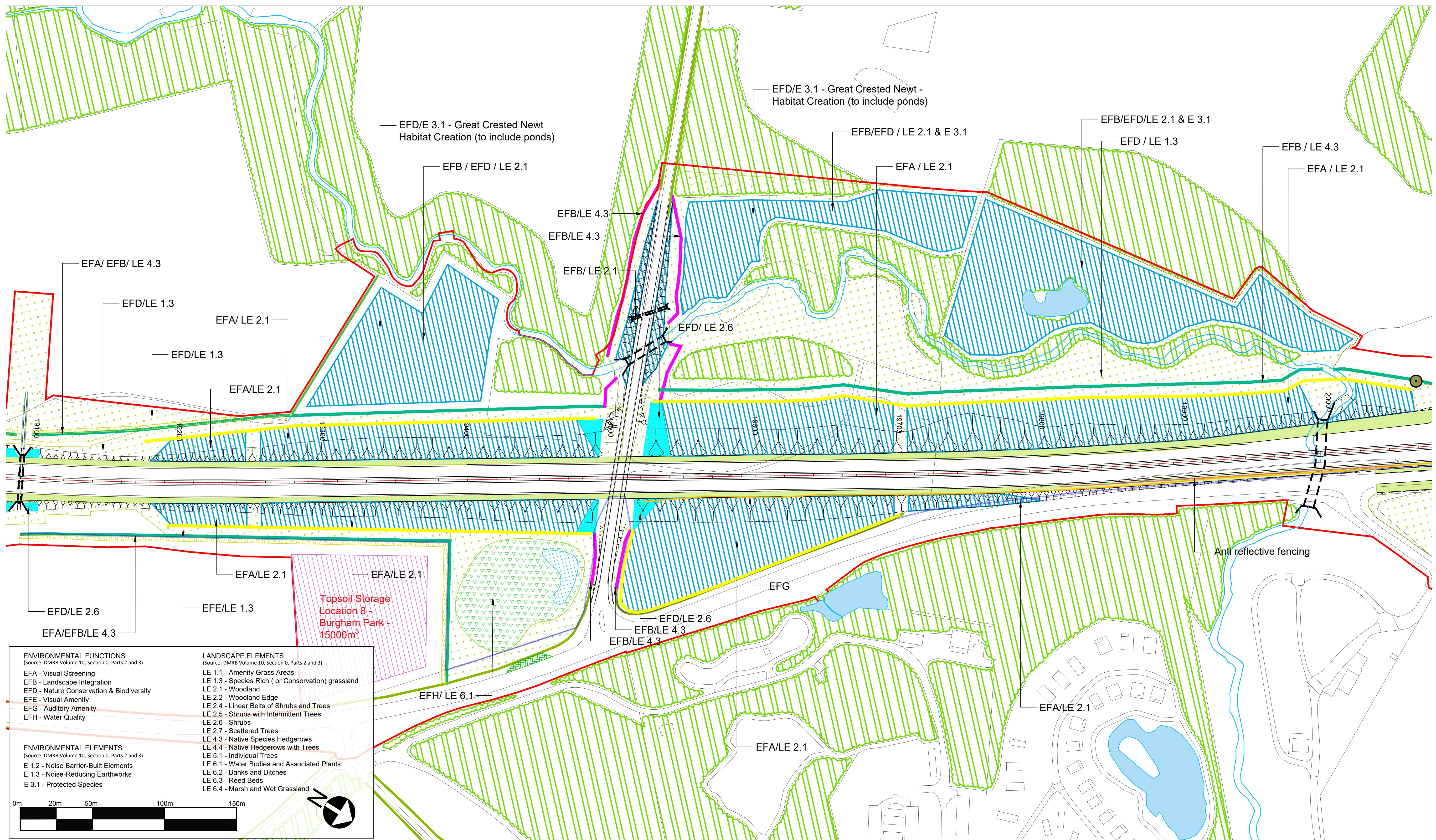
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8	June 2020	Project Details Updated		GH	AW	NM
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5	25.03.2019	Update to Key		CL	CH	
4	21.03.2019	Update to highways layout		CL	CH	
3	19.03.2019	Update to landscape hatches		CL	CH	
2	14.03.2019	Changes to Temporary Boundary		FS	CH	
P08	rv date	Rev 1 description		By	Eng Chk	Disc Chk
Rev.	Date	Description		By	Eng/ Chk	Disc/ Chk

Sustainability	For Information
Client	 highways england

Status	Project Title									
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Drawing Title										
Figure 7.8 - Landscape Mitigation Masterplan SHEET 12 OF 19										
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HE551459				WSP		6.5		P08		
M2F				RP		LE		1942		
Section		Type	ID	Direction	Type	LE	Number	PW Stage Code		



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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 soil bund, slackening of slope or disposal of excess site material

Existing hedgerow to be retained

Proposed hedgerow - by agreement

Proposed conservation grassland

Proposed Permanent Highway Boundary

Noise barrier

Essential mitigation - earth bund

Proposed shrub - ecological mitigation

Proposed woodland

Proposed 'Coronation Avenue' trees

Grass verge / central reservations

Vehicle Restraint System

Woodland Creation Area

Proposed individual trees

Arable field margins

Proposed Great Crested Newt Pond

Existing running water

Existing waterbodies

Scale 1:1250

Drawn FS

Eng. Check CH

Approved KS

Authorised DM

Original Size A1

Date 14.03.2019

Date 14.03.2019

Date 14.03.2019

Date 14.03.2019

Drawing Number Project HE551459

Originator WSP

Volume 6.5

Revision P08

M2f Section

Type

ID

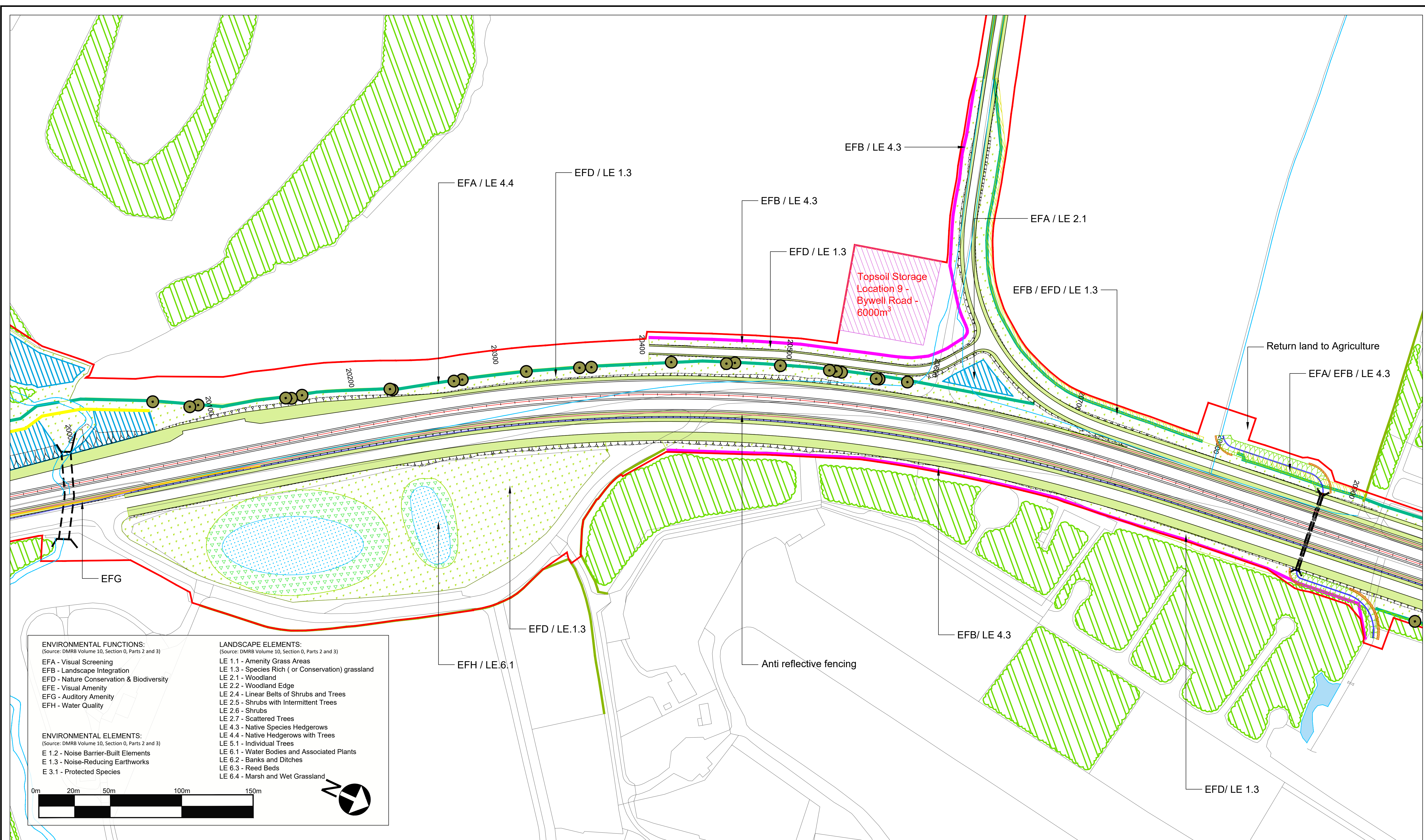
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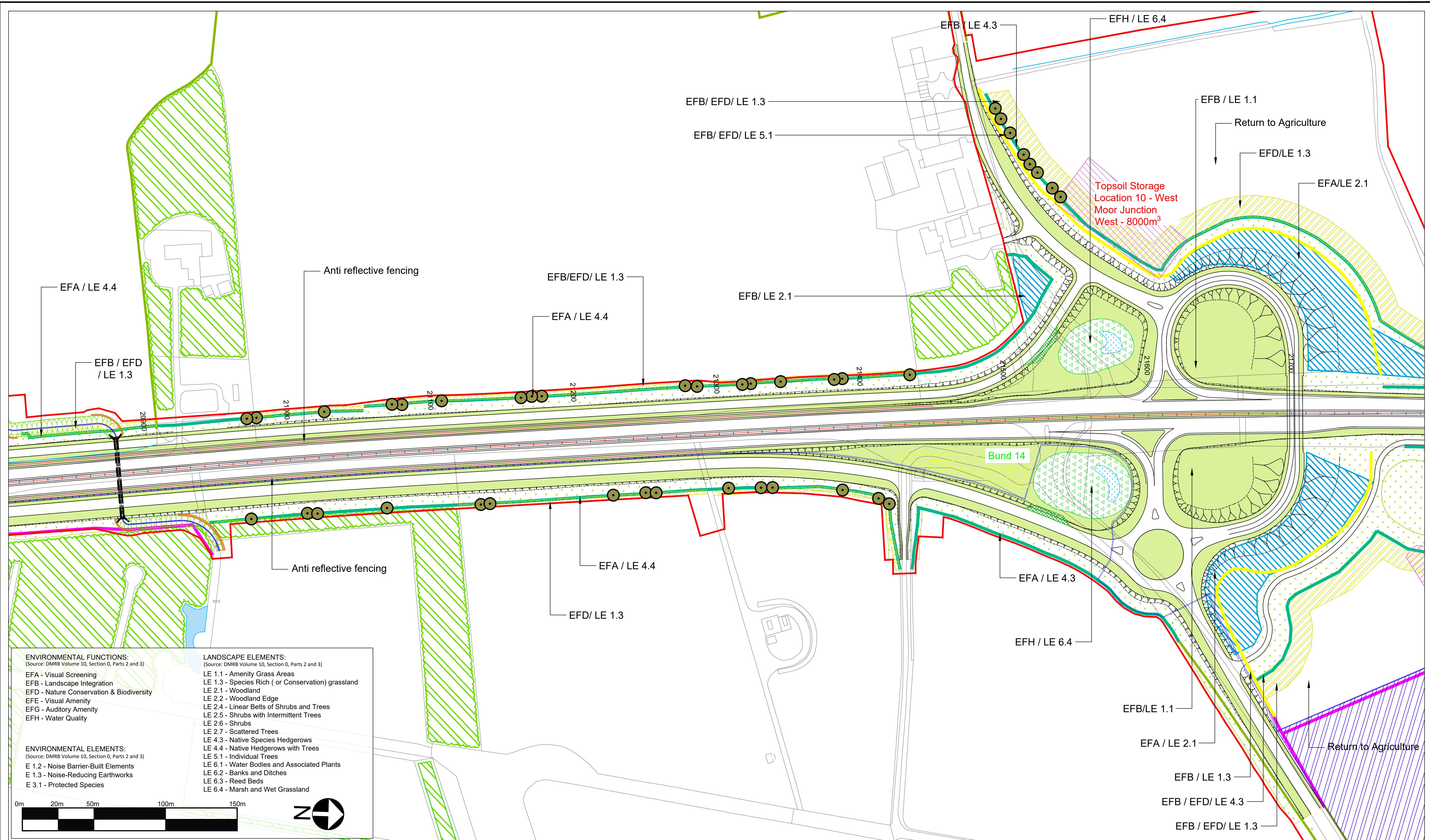
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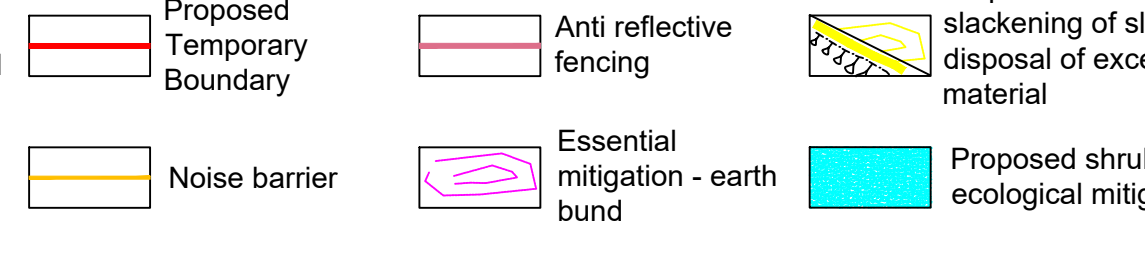
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PW Stage Code



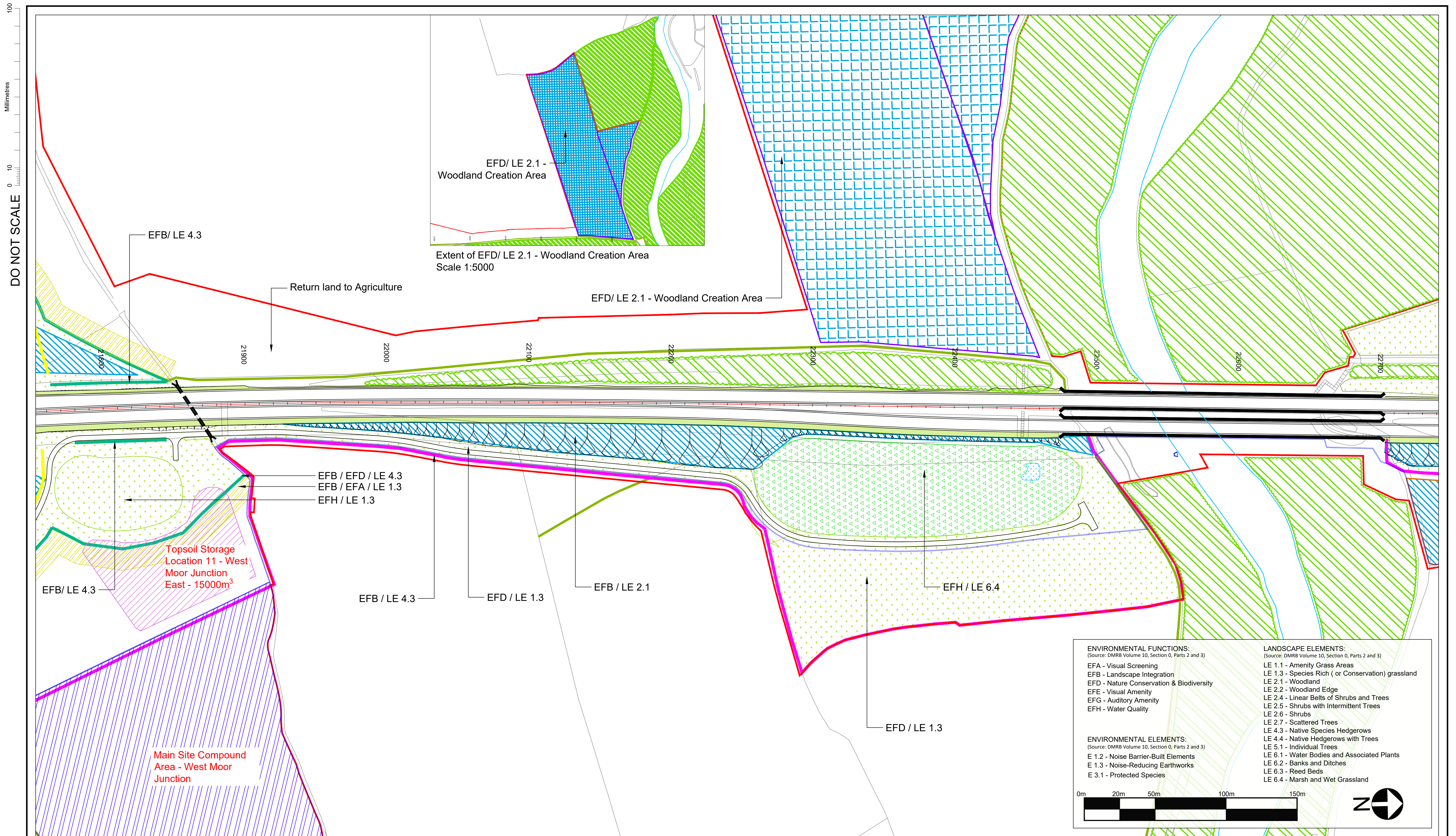


	Existing habitats to be retained		Proposed hedgerow - essential mitigation		Proposed amenity grassland		Swale/Marginal planting / wetland		Proposed Temporary Boundary		Anti reflective fencing		Slackening of slope or disposal of excess site material
	Existing hedgerow to be retained		Proposed hedgerow - by agreement		Proposed conservation grassland		Proposed Permanent Highway Boundary		Noise barrier		Essential mitigation - earth bund		Proposed shrub - ecological mitigation
	Proposed woodland		Proposed 'Coronation Avenue' trees		Grass verge / central reservations		Vehicle Restraint System						
	Woodland Creation Area		Proposed individual trees		Arable field margins		Proposed Great Crested Newt Pond						
	Existing running water		Existing waterbodies										

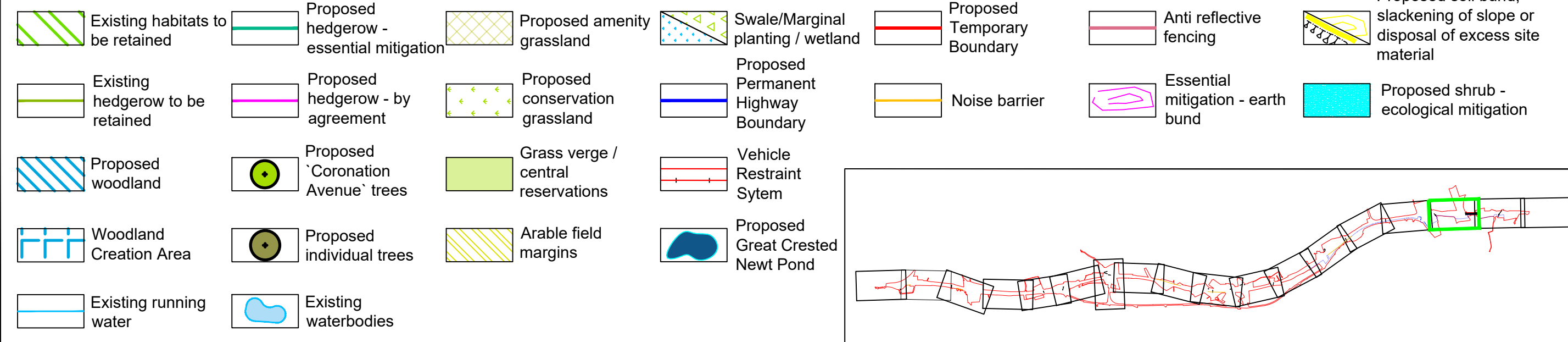
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Sustainability	For Information
Client	

Status	Project Title									
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Drawing Title										
Figure 7.8 - Landscape Mitigation Masterplan SHEET 15 OF 19										
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Drawing Number				Originator				Volume		Revision
HE551459				WSP				6.5		P08
M2F				RP				LE		1942
Section		Type	ID	Direction		Type	Scale	Number		PW Stage Code



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Rev.	Date	Rev 1 description	By	Eng' Chk	Disc' Chk	App'd
8	June 2020	Project Details Updated	GH	AW	NM	
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		
P08	rv date	Rev 1 description	By	Eng' Chk	Disc' Chk	App'd

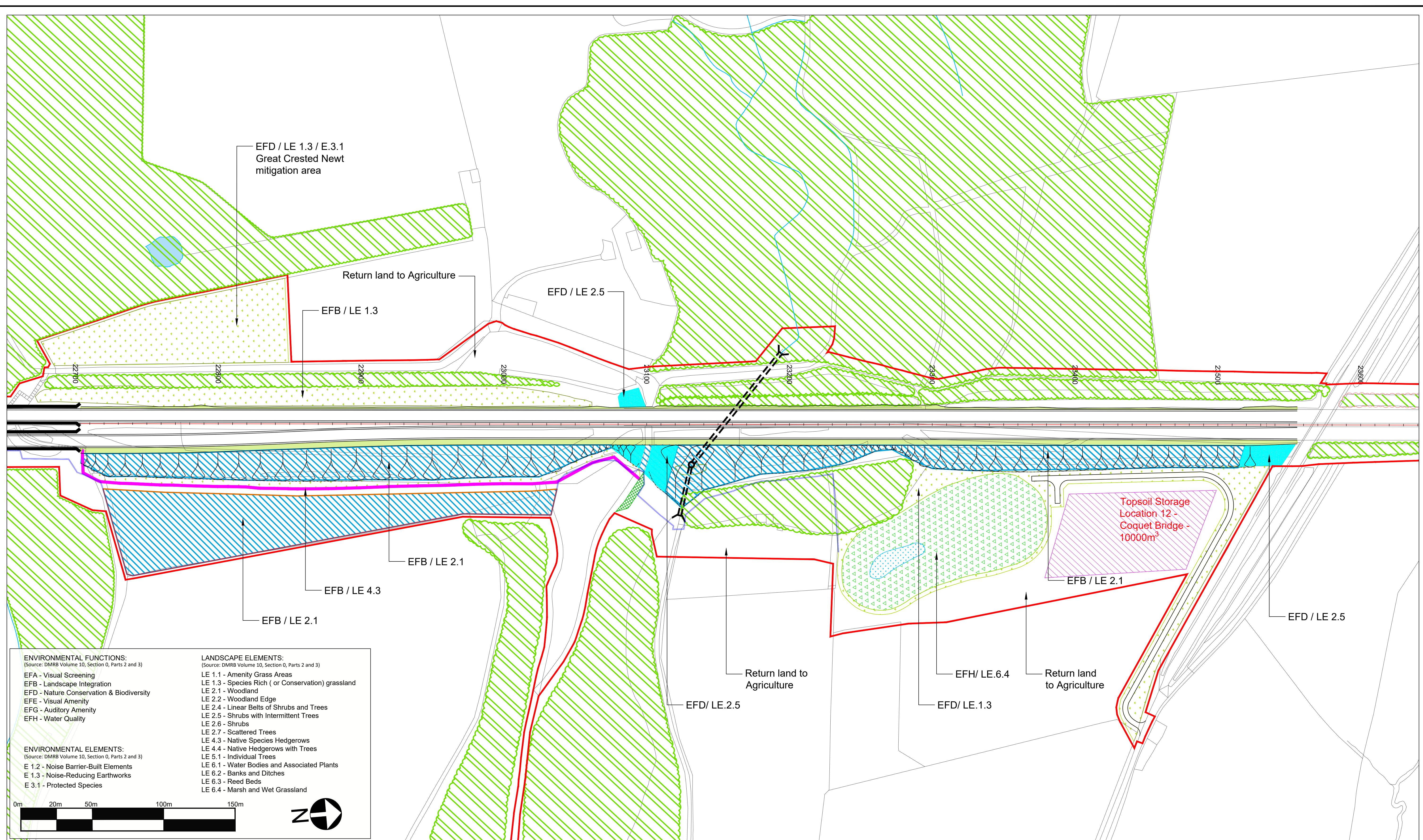
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For Information	S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM
Client		Drawing Title
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		FS
		Eng. Check
		CH
		Approved
		KS
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		Date
		14.03.2019
		Date
		14.03.2019
		Date
		14.03.2019
		Date
		14.03.2019
		Drawing Number
		HE551459
		Project
		M2F
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		Role
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		Revision
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		PW Stage Code



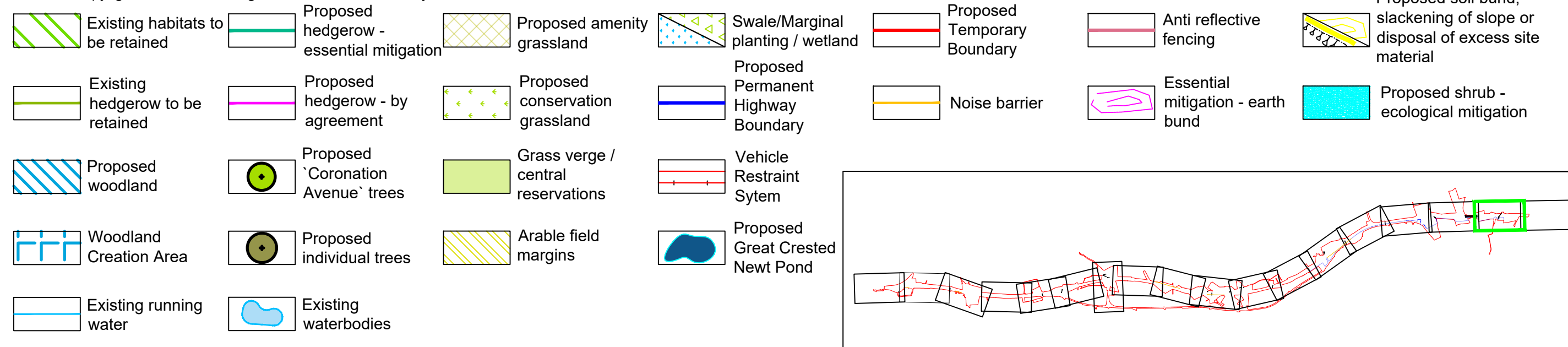
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Millimetres



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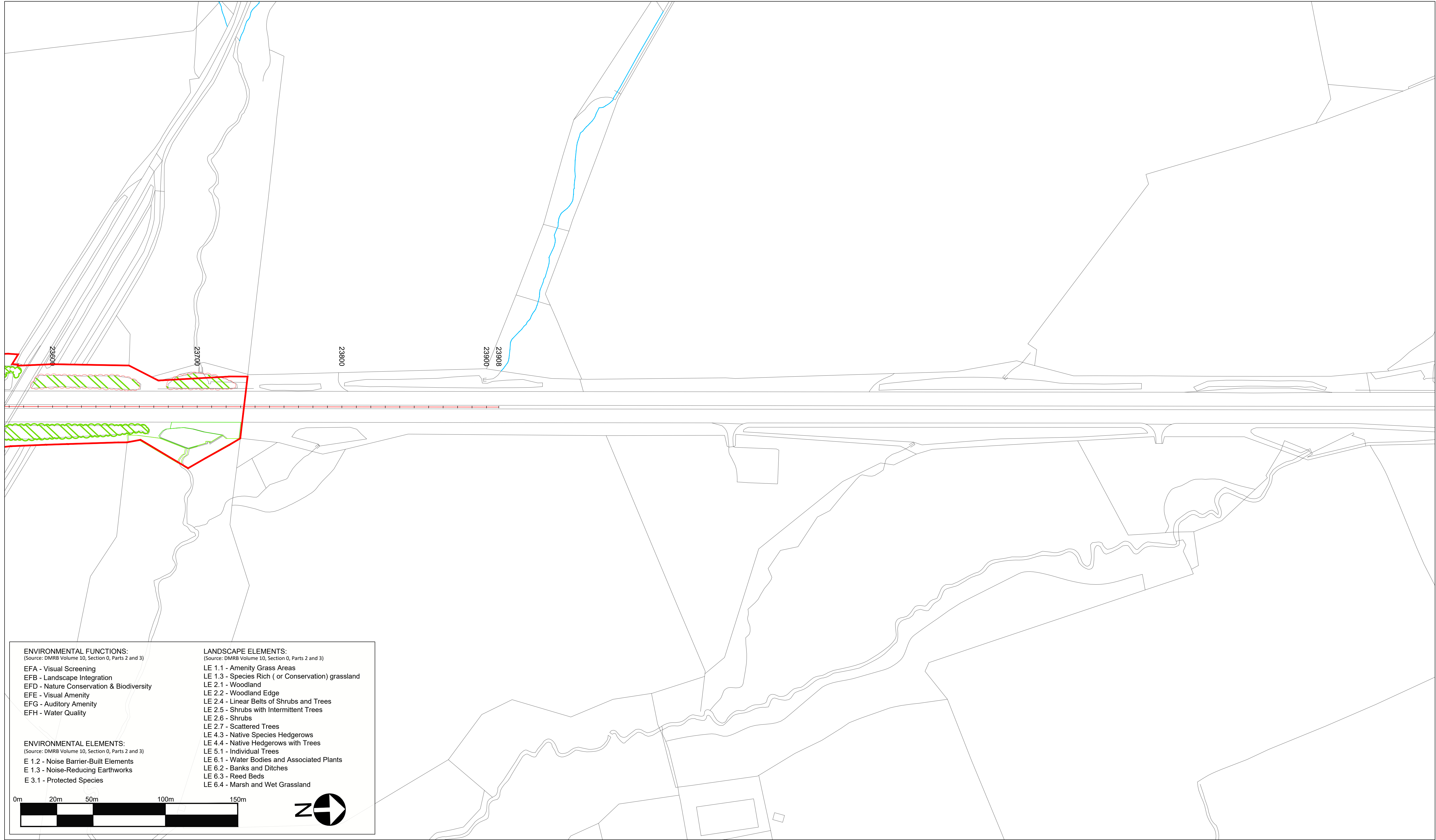
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P08	r\ date	Rev 1 description		By	Eng Ch'k	Disc
Rev.	Date	Description		By	Eng/ Ch'k	Disc/ Ch'k
						App'd

Sustainability	For Information
Client	

Status	Project Title						
S1	A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM						
Drawing Title							
Figure 7.8 - Landscape Mitigation Masterplan SHEET 17 OF 19							
Scale	Drawn	Eng. Check	Approved	Authorised			
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Original Size	Date	Date	Date	Date			
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Drawing Number		Originator		Volume		Revision	
HE551459		WSP		6.5		P08	
M2F		RP		LE		1942	
Section	Type	ID	Direction	Type	Role	Number	

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)

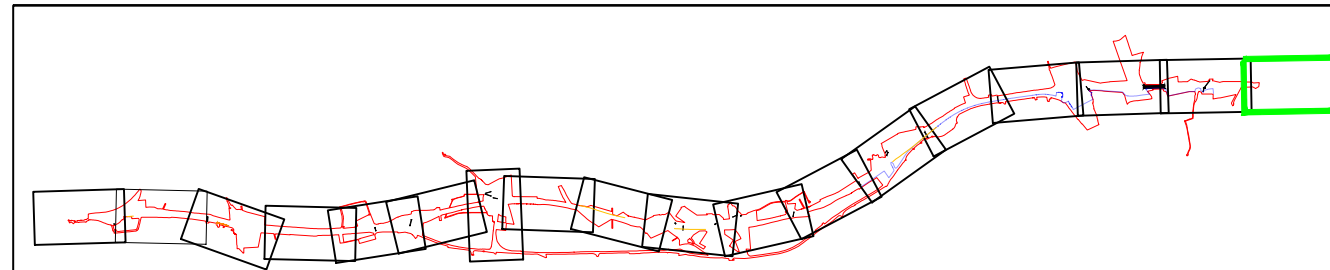
E 1.2 - Noise Barrier-Built Elements
E 1.3 - Noise-Reducing Earthworks
E 3.1 - Protected Species

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
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
8	June 2020	Project Details Updated	GH	AW	NM	
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2	14.03.2019	Changes to Temporary Boundary	FS	CH		
P08	rv date	Rev 1 description	By	Eng' Chk	Disc' Chk	App'd

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

Drawing Title	Scale	Drawn	Eng. Check	Approved	Authorised
Figure 7.8 - Landscape Mitigation Masterplan SHEET 18 OF 19	1:1250	FS	CH	KS	DM
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Drawing Number Project HE551459	Originator WSP	Volume 6.5	Revision P08		
M2F Section	Type	RP Direction	LE Type	1942 Role	PW Stage Code Number

DO NOT SCALE

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Millimetres

Indicative Grassland Seed Mixes	
Botanical Name	Common Name
Landscape Element	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
Prunus spinosa	Blackthorn	30
Sambucus nigra	Elder	5
Crataegus monogyna	Haw thorn	40
Corylus avellana	Hazel	10
Ilex aquifolium	Holly	7.5
Rosa arvensis	Field Rose	5
Lonicera periclymenum	Honeysuckle	2.5
Prunus padus	Bird Cherry	
Quercus robur	Common Oak	
Sorbus aucuparia	Row an	
Total		100%

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

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

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

8	June 2020	Project Details Updated		GH	AW	NM			
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5	25.03.2019	Update to Key		CL	CH				
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Rev.	Date	Description		By	Eng' Chk	Disc' Chk	App'd		

Suitability		Status		Project Title													
For Information		S1		A1 IN NORTHUMBERLAND: MORPETH TO ELLINGHAM													
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				Figure 7.8 - Landscape Mitigation Masterplan SHEET 19 OF 19													
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Project				WSP		6,5		P08									
HE551459																	
M2F		Section		Type		ID		Direction		RP		LE		1942		PW Stage Code	

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If you have any enquiries about this document A1inNorthumberland@highwaysengland.co.uk or call 0300 470 4580*.

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Registered office Bridge House, 1 Walnut Tree Close, Guildford GU1 4LZ
Highways England Company Limited registered in England and Wales number 09346363