

A47 North Tuddenham to Easton Dualling

Scheme Number: TR010038

Volume 6 **6.8 Environmental Masterplan**

APFP Regulation 5(2)(a)

Planning Act 2008

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

October 2021

Infrastructure Planning

Planning Act 2008

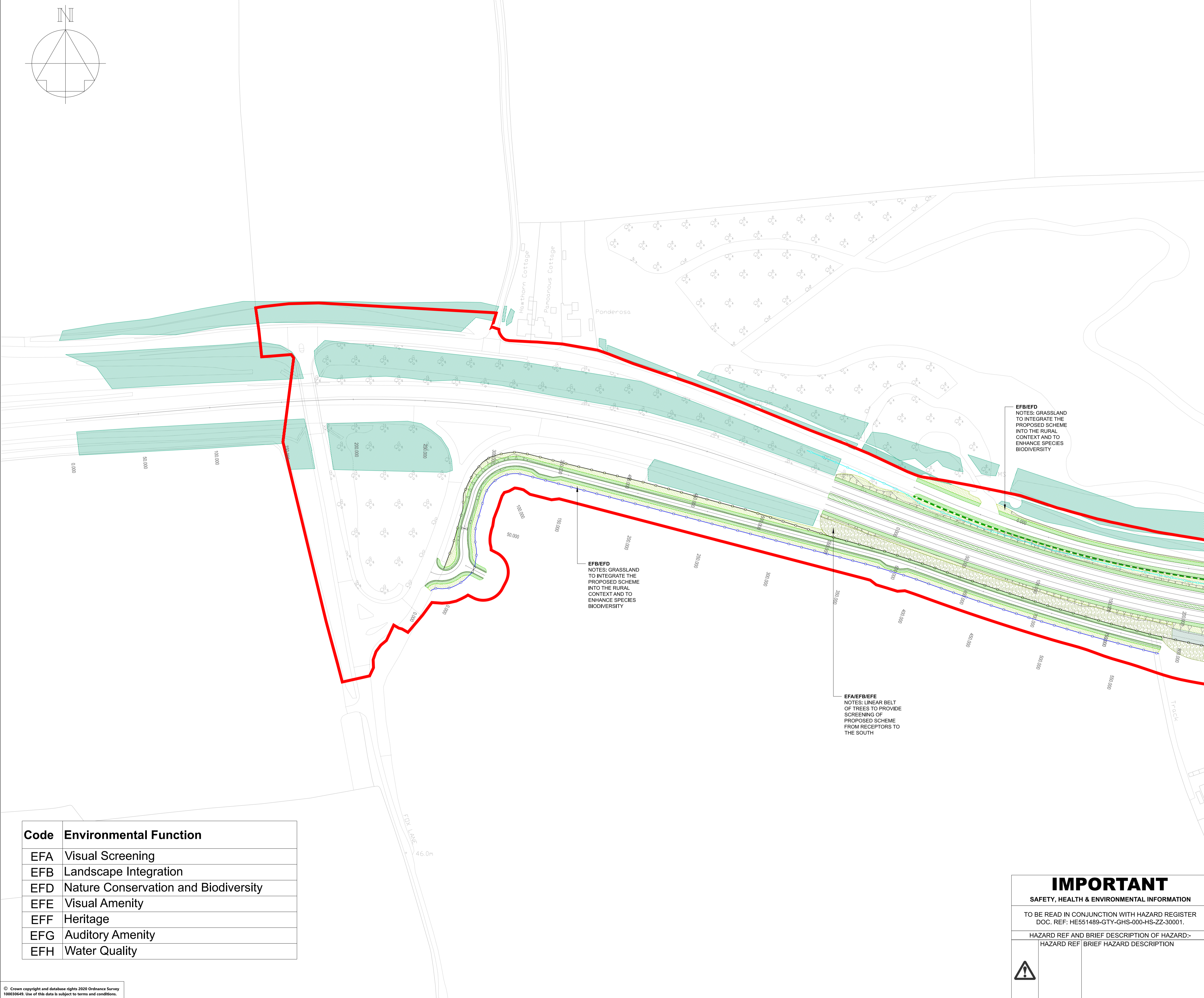
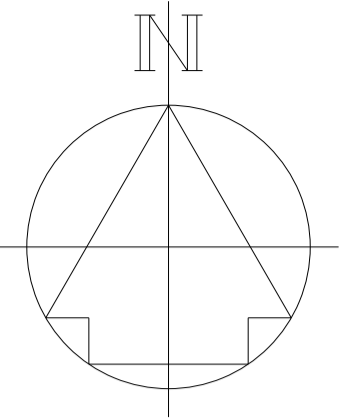
**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

The A47 North Tuddenham to Easton
Development Consent Order 202[x]

ENVIRONMENTAL MASTERPLAN

Regulation Number:	5(2)(a)
Planning Inspectorate Scheme Reference	TR010038
Application Document Reference	TR010038/APP/6.8
BIM Document Reference	HE551489-GTY-ELS-000-DR-LX-30003-C03
Author:	A47 North Tuddenham to Easton Dualling Project Team, Highways England

Version	Date	Status of Version
Rev 0	March 2021	Application Issue
Rev 1	June 2021	S51 Advice and S55 Checklist Amendment
Rev 2	October 2021	Deadline 3 Issue



- NOTES**
1. A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 2. ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 3. ALL STAFF CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
 4. THIS DRAWING SHALL ONLY BE USED FOR THE DESIGN ELEMENT STATED IN THE DRAWING TITLE.
 5. ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
 6. DO NOT SCALE FROM THIS DRAWING.
 7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
HE551489-GTY-ELS-000-DR-LX-30004
HE551489-GTY-ELS-000-DR-LX-30005
HE551489-GTY-ELS-000-DR-LX-30006
HE551489-GTY-ELS-000-DR-LX-30007
HE551489-GTY-ELS-000-DR-LX-30008
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HE551489-GTY-ELS-000-DR-LX-30013
HE551489-GTY-ELS-000-DR-LX-30014
HE551489-GTY-ELS-000-DR-LX-30015
HE551489-GTY-ELS-000-DR-LX-30016
 8. FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	LE1.1 INDIVIDUAL TREES
ORSTED HORNSEA WIND FARM	LE1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE2.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION
E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	8M RIPARIAN FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	8M RIPARIAN FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.5 SHRUBS WITH INTERMITTENT TREES	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 40T. BOLT.
LE2.6 SHRUBS	
LE4.3 NATIVE SPECIES HEDGEROWS	
LE4.4 NATIVE HEDGEROWS WITH TREES	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
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C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
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DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 1 of 14 TR010038/APP/6.8

SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE: **A1** SCALE: **1:1250** STATUS: **S4** REVISION: **P05**

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30003

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
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EFH	Water Quality

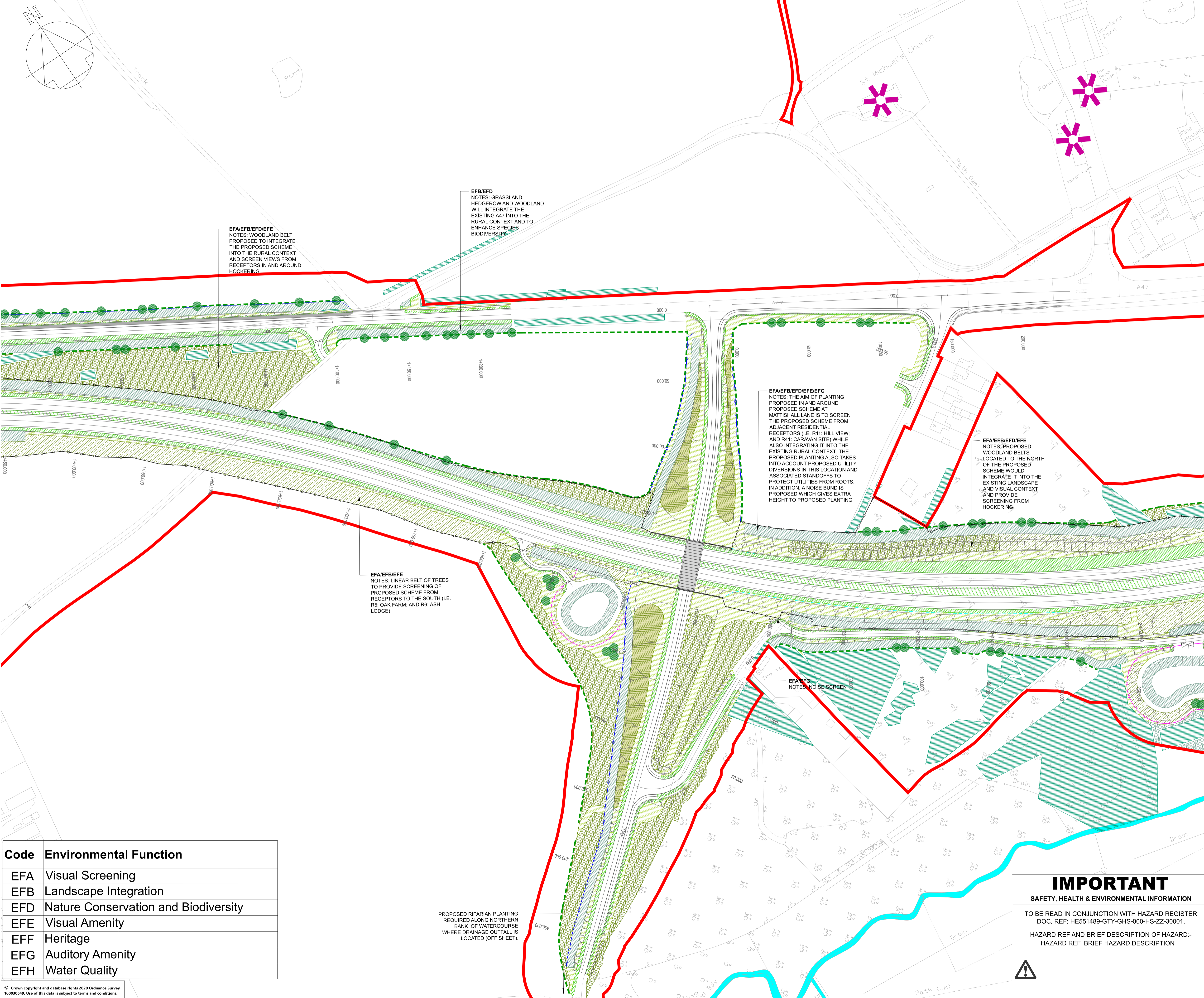
IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
HAZARD REF BRIEF HAZARD DESCRIPTION

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 HE551489-GTY-ELS-000-DR-LX-30007
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KEY TO SYMBOLS

DOD BOUNDARY	LE.1 INDIVIDUAL TREES
CRISTED HORNEGA WIND FARM	LE.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
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FISHING/RECREATION FLOOR STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE
LE.1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE.1.3 SPECIES RICH GRASSLAND	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE.2 WOODLAND	2m HIGH NOISE AND VISUAL SCREEN
LE.2.1 WOODLAND RW (RIPARIAN WOODLAND)	3m HIGH NOISE BARRIER
LE.2.4 LINEAR BELTS OF SHRUBS AND TREES	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE.2.5 SHRUBS WITH INTERMITTENT TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE.2.6 SHRUBS	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE.4.3 NATIVE SPECIES HEDGEROWS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 4.5m BOLT.
LE.4.4 NATIVE HEDGEROWS WITH TREES	

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C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 3 of 14 TR010038/APP/6.8

SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30005

IMPORTANT

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HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
 HAZARD REF: BRIEF HAZARD DESCRIPTION

PROPOSED RIPARIAN PLANTING REQUIRED ALONG NORTHERN BANK OF WATERCOURSE WHERE DRAINAGE OUTFALL IS LOCATED (OFF SHEET).

EFA/EFB/EFD/EFE/EFH
 NOTES: THE AIM OF PLANTING PROPOSED IN AND AROUND PROPOSED SCHEME AT MATTISHALL LANE IS TO SCREEN THE PROPOSED SCHEME FROM ADJACENT RESIDENTIAL RECEPTORS (I.E. R11: HILL VIEW; AND R41: CARAWAN SITE) WHILE ALSO INTEGRATING IT INTO THE EXISTING RURAL CONTEXT. THE PROPOSED PLANTING ALSO TAKES INTO ACCOUNT PROPOSED UTILITY DIVERSIONS IN THIS LOCATION AND ASSOCIATED STANDOFFS TO PROTECT UTILITIES FROM ROOTS. IN ADDITION, A NOISE BUND IS PROPOSED WHICH GIVES EXTRA HEIGHT TO PROPOSED PLANTING

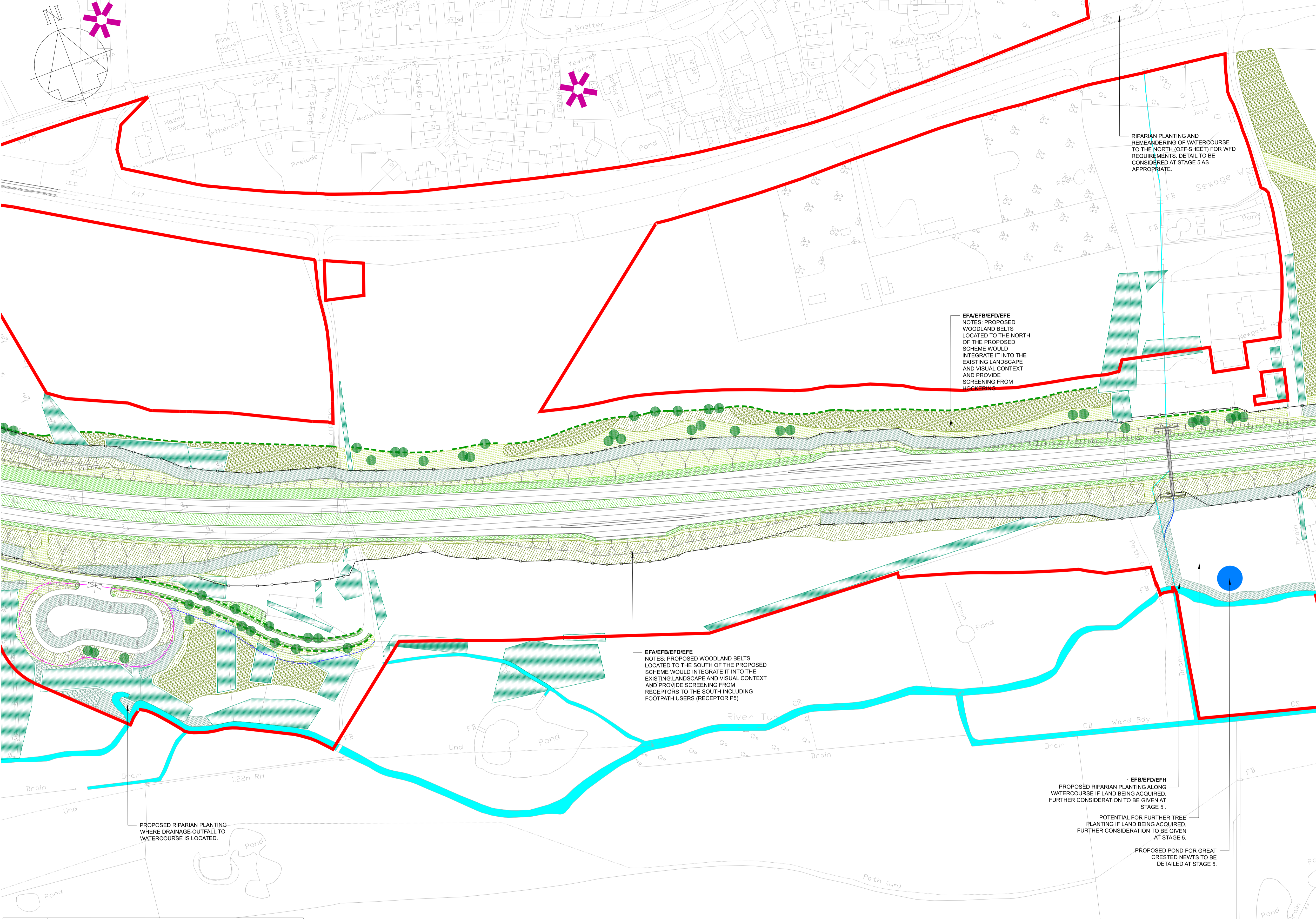
EFA/EFB/EFD/EFH
 NOTES: PROPOSED WOODLAND BELTS LOCATED TO THE NORTH OF THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM HOCKERING

EFA/EFB/EFD/EFH
 NOTES: WOODLAND BELT PROPOSED TO INTEGRATE THE PROPOSED SCHEME INTO THE RURAL CONTEXT AND SCREEN VIEWS FROM RECEPTORS IN AND AROUND HOCKERING

EFB/EFD
 NOTES: GRASSLAND, HEDGEROW AND WOODLAND WILL INTEGRATE THE EXISTING A47 INTO THE RURAL CONTEXT AND TO ENHANCE SPECIES BIODIVERSITY

EFA/EFB/EFH
 NOTES: LINEAR BELT OF TREES TO PROVIDE SCREENING OF PROPOSED SCHEME FROM RECEPTORS TO THE SOUTH (I.E. R5: OAK FARM; AND R6: ASH LODGE)

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KEY TO SYMBOLS

DCO BOUNDARY	LE1.1 INDIVIDUAL TREES
CRISTED HORSEHAIR WIND FARM	LE1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LE2.2 SHRUBS AND DETICHES (RIPARIAN SEEDING MIX)
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PROPOSED COMPENSATORY FLOOD STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H11 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
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LE2.5 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1.117 STEEL SINGLE FIELD GATE
LE2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 40' BOLT
LE4.3 NATIVE SPECIES HEDGEROWS	
LE4.4 NATIVE HEDGEROWS WITH TREES	

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PROJECT STAGE

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DRAWING TITLE

Environmental Masterplan Sheet 4 of 14
TR010038/APP/6.8

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SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

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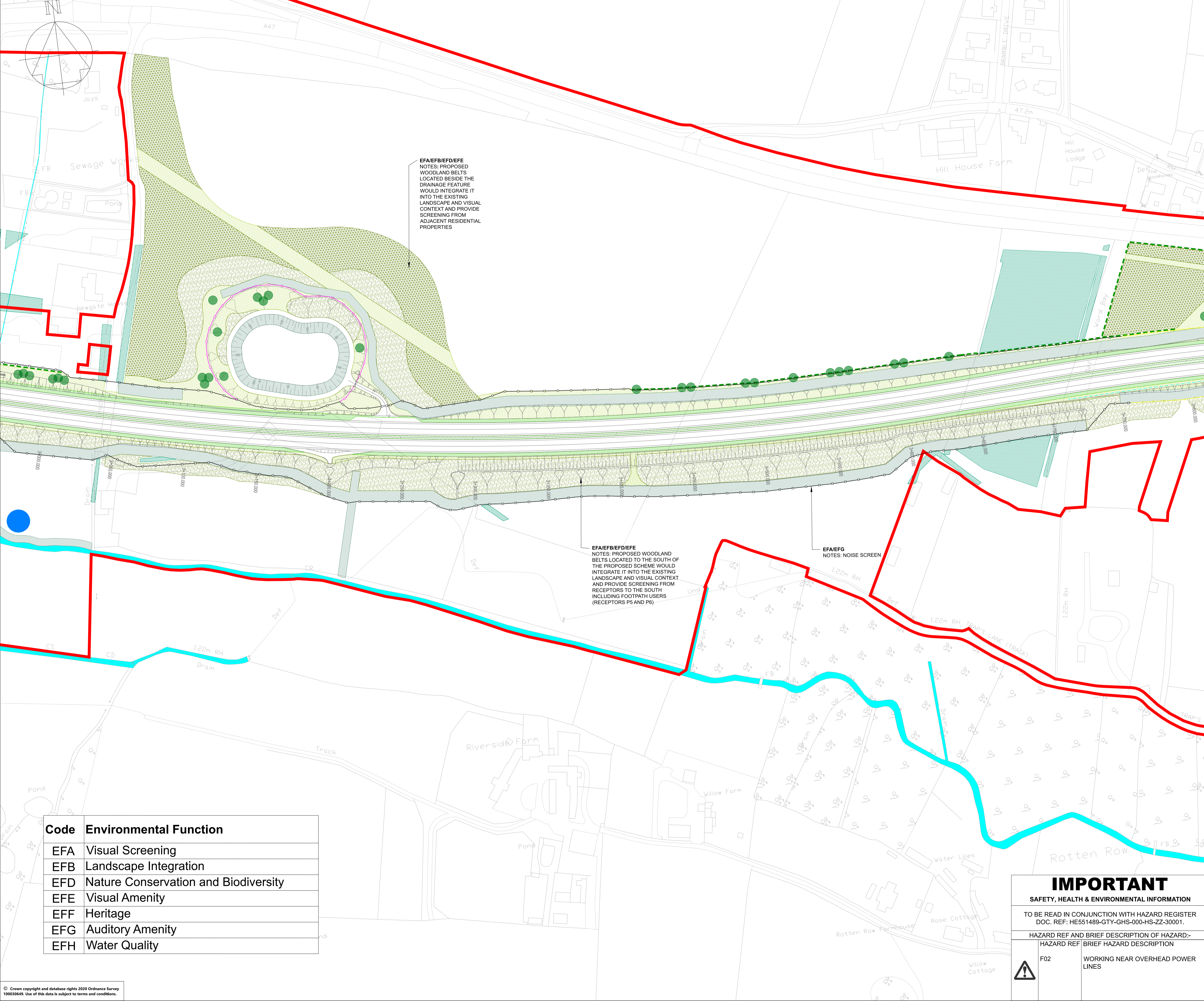
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HAZARD REF	BRIEF HAZARD DESCRIPTION
F02	WORKING NEAR OVERHEAD POWER LINES

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EFA/EFB/EFD/EFE
 NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE DRAINAGE FEATURE WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM ADJACENT RESIDENTIAL PROPERTIES

EFA/EFB/EFD/EFE
 NOTES: PROPOSED WOODLAND BELTS LOCATED TO THE SOUTH OF THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM RECEPTORS TO THE SOUTH INCLUDING FOOTPATH USERS (RECEPTORS P5 AND P6)

EFA/EFG
 NOTES: NOISE SCREEN

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PROPOSED COMPENSATORY FLOOD STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND RW (RIPARIAN WOODLAND)	BASKET FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.2 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.2 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.2 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 0.4m BOLT.
LE2.3 NATIVE SPECIES HEDGEROWS	
LE2.4 NATIVE HEDGEROWS WITH TREES	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWR	ECoo	BJon
C01	03/03/21	FINAL	SWR	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon
P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 5 of 14 TR010038/APP/6.8

SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30007

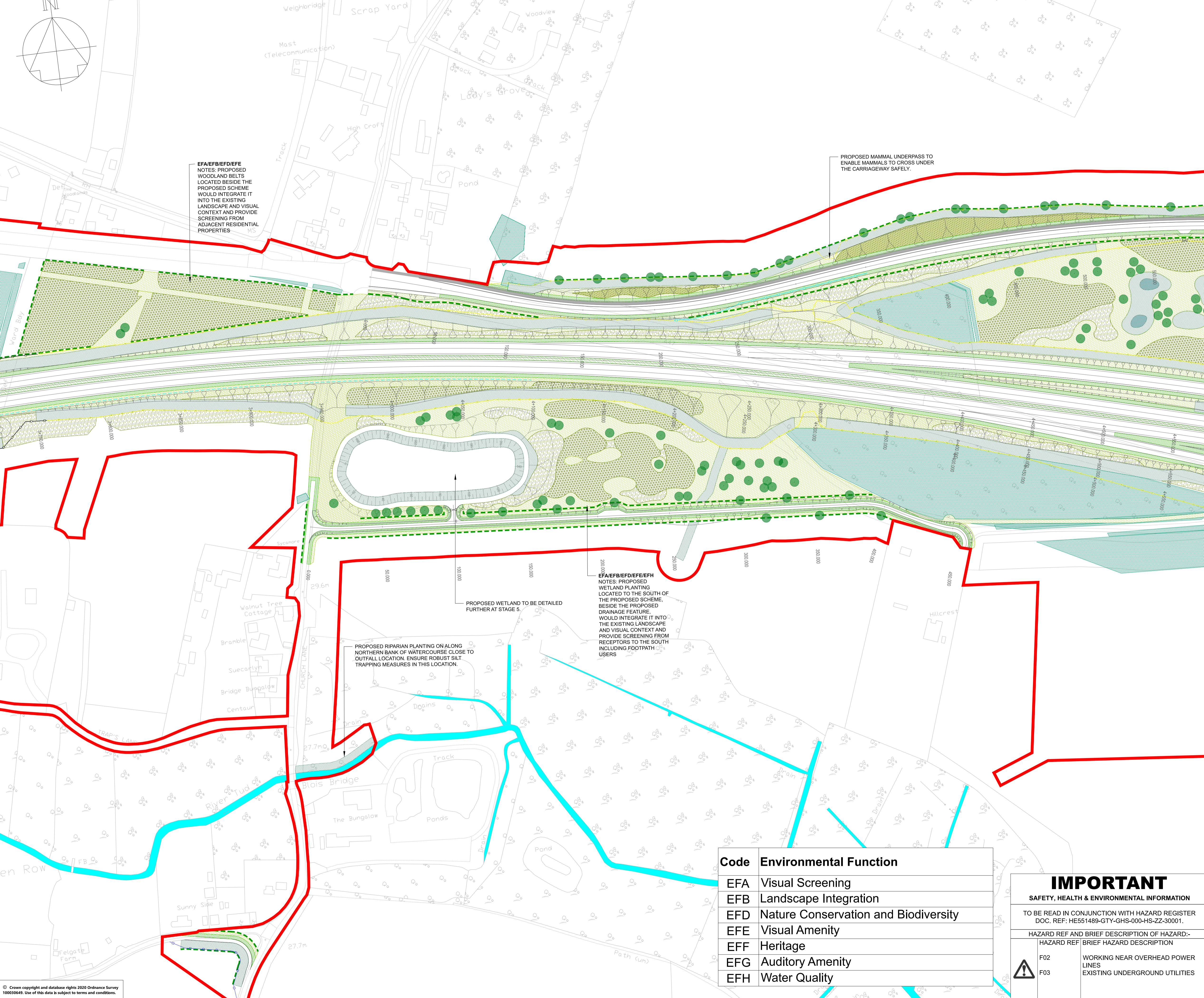
IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF AND BRIEF DESCRIPTION OF HAZARD- HAZARD REF BRIEF HAZARD DESCRIPTION

F02	WORKING NEAR OVERHEAD POWER LINES
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EFA/EFB/EFD/EFE
 NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM ADJACENT RESIDENTIAL PROPERTIES

PROPOSED MAMMAL UNDERPASS TO ENABLE MAMMALS TO CROSS UNDER THE CARRIAGEWAY SAFELY.

PROPOSED WETLAND TO BE DETAILED FURTHER AT STAGE 5.

PROPOSED RIPARIAN PLANTING ON ALONG NORTHERN BANK OF WATERCOURSE CLOSE TO OUTFALL LOCATION. ENSURE ROBUST SILT TRAPPING MEASURES IN THIS LOCATION.

EFH/EFB/EFD/EFE/EFH
 NOTES: PROPOSED WETLAND PLANTING LOCATED TO THE SOUTH OF THE PROPOSED SCHEME, BESIDE THE PROPOSED DRAINAGE FEATURE, WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM RECEPTORS TO THE SOUTH INCLUDING FOOTPATH USERS

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

IMPORTANT
 SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F02	WORKING NEAR OVERHEAD POWER LINES
F03	EXISTING UNDERGROUND UTILITIES

- NOTES**
- A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 - ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 - ALL STAGE CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
 - THIS DRAWING SHALL ONLY BE USED FOR THE DESIGN ELEMENT STATED IN THE DRAWING TITLE.
 - ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
 - DO NOT SCALE FROM THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
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 HE551489-GTY-ELS-000-DR-LX-30009
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 HE551489-GTY-ELS-000-DR-LX-30011
 HE551489-GTY-ELS-000-DR-LX-30012
 HE551489-GTY-ELS-000-DR-LX-30013
 HE551489-GTY-ELS-000-DR-LX-30014
 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

SYMBOL	DESCRIPTION
[Red line]	DCO BOUNDARY
[Hatched area]	CRISTED HORNSEA WIND FARM
[Green hatched area]	EXISTING VEGETATION TO BE RETAINED
[Blue hatched area]	PROPOSED ENVIRONMENTAL ELEMENTS
[Blue box]	E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION PONDS
[Blue box]	PROPOSED COMPENSATORY FLOOD STORAGE
[Star symbol]	LISTED MILESTONE
[Green hatched area]	PROPOSED LANDSCAPE ELEMENTS
[Green hatched area]	LE1.1 AMENITY GRASS AREAS
[Green hatched area]	LE1.3 SPECIES RICH GRASSLAND
[Green hatched area]	LE2.1 WOODLAND
[Green hatched area]	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)
[Green hatched area]	LE2.4 LINEAR BELTS OF SHRUBS AND TREES
[Green hatched area]	LE2.5 SHRUBS WITH INTERMITTENT TREES
[Green hatched area]	LE2.6 SHRUBS
[Green hatched area]	LE4.3 NATIVE SPECIES HEDGEROWS
[Green hatched area]	LE4.4 NATIVE HEDGEROWS WITH TREES
[Green circle]	LE1.1 INDIVIDUAL TREES
[Green circle]	LE1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
[Green circle]	LE2.1 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
[Green circle]	PROPOSED ELEMENTS - OTHER
[Circle with cross]	PROPOSED LIGHTING COLUMN LOCATION
[Red line]	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT.1 H3 TIMBER POST AND RAIL
[Yellow line]	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
[Blue line]	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE
[Blue line]	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
[Blue line]	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
[Blue line]	2m HIGH NOISE AND VISUAL SCREEN
[Blue line]	3m HIGH NOISE BARRIER
[Blue line]	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
[Blue line]	ANTI GLARE SCREEN - 2m HIGH GLOSS BOARDED FENCE
[Blue line]	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
[Blue line]	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 600mm SOLT.

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWR	ECoo	BJon
C01	03/03/21	FINAL	SWR	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon
P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 6 of 14
 TR010038/APP/6.8

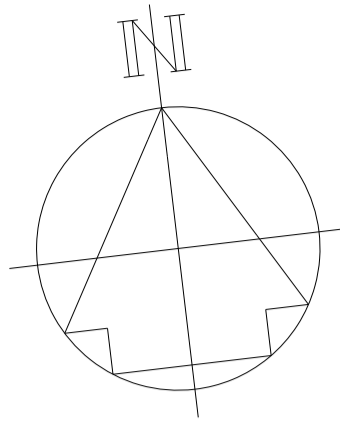
SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30008



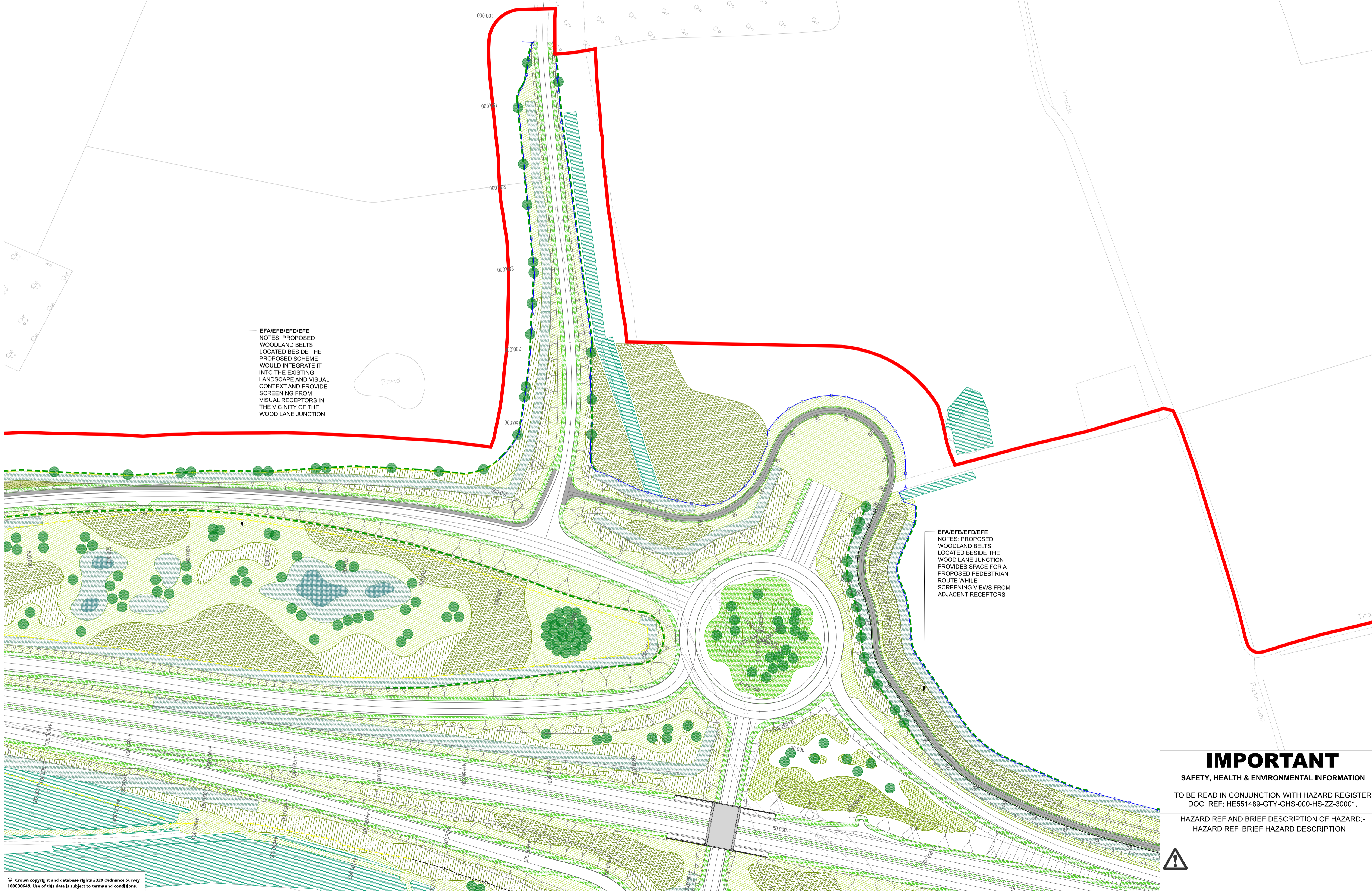
Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

NOTES

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HE551489-GTY-ELS-000-DR-LX-30003
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HE551489-GTY-ELS-000-DR-LX-30005
HE551489-GTY-ELS-000-DR-LX-30006
HE551489-GTY-ELS-000-DR-LX-30007
HE551489-GTY-ELS-000-DR-LX-30008
HE551489-GTY-ELS-000-DR-LX-30010
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HE551489-GTY-ELS-000-DR-LX-30014
HE551489-GTY-ELS-000-DR-LX-30015
HE551489-GTY-ELS-000-DR-LX-30016
- FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DDD BOUNDARY	LES-1 INDIVIDUAL TREES
CRISTED HORSEWIND FARM	LES-1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LES-2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION
LE1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION POND	HIGHWAY BOUNDARY - MCHV VOL. 3, SECT. 1 H3 TRIMMER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE2.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	BASH FENCING - MCHV HCD H13 POST AND STRAINED WIRE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.5 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHV VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, 60% WOOD
LE2.7 SHRUBS	
LE2.8 SHRUBS	
LE2.9 SHRUBS	
LE3 NATIVE SPECIES HEDGEROWS	
LE4 NATIVE HEDGEROWS WITH TREES	



EFA/EFB/EFD/EFE
NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE PROPOSED SCHEME WOULD INTEGRATE IT INTO THE EXISTING LANDSCAPE AND VISUAL CONTEXT AND PROVIDE SCREENING FROM VISUAL RECEPTORS IN THE VICINITY OF THE WOOD LANE JUNCTION

EFA/EFB/EFD/EFE
NOTES: PROPOSED WOODLAND BELTS LOCATED BESIDE THE WOOD LANE JUNCTION PROVIDES SPACE FOR A PROPOSED PEDESTRIAN ROUTE WHILE SCREENING VIEWS FROM ADJACENT RECEPTORS

REV	DATE	REVISION NOTE	ORG	CHK'D	APP'D
P01	26/02/21	FOR ISSUE	LS	ECo	BJon
P02	03/03/21	FINAL	SWR	ECo	BJon
CD1	03/03/21	FINAL	SWR	ECo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
CD2	04/03/21	FINAL	LS	JMee	BJon
P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 4

DRAWING TITLE
**Environmental Masterplan Sheet 7 of 14
TR010038/APP/6.8**

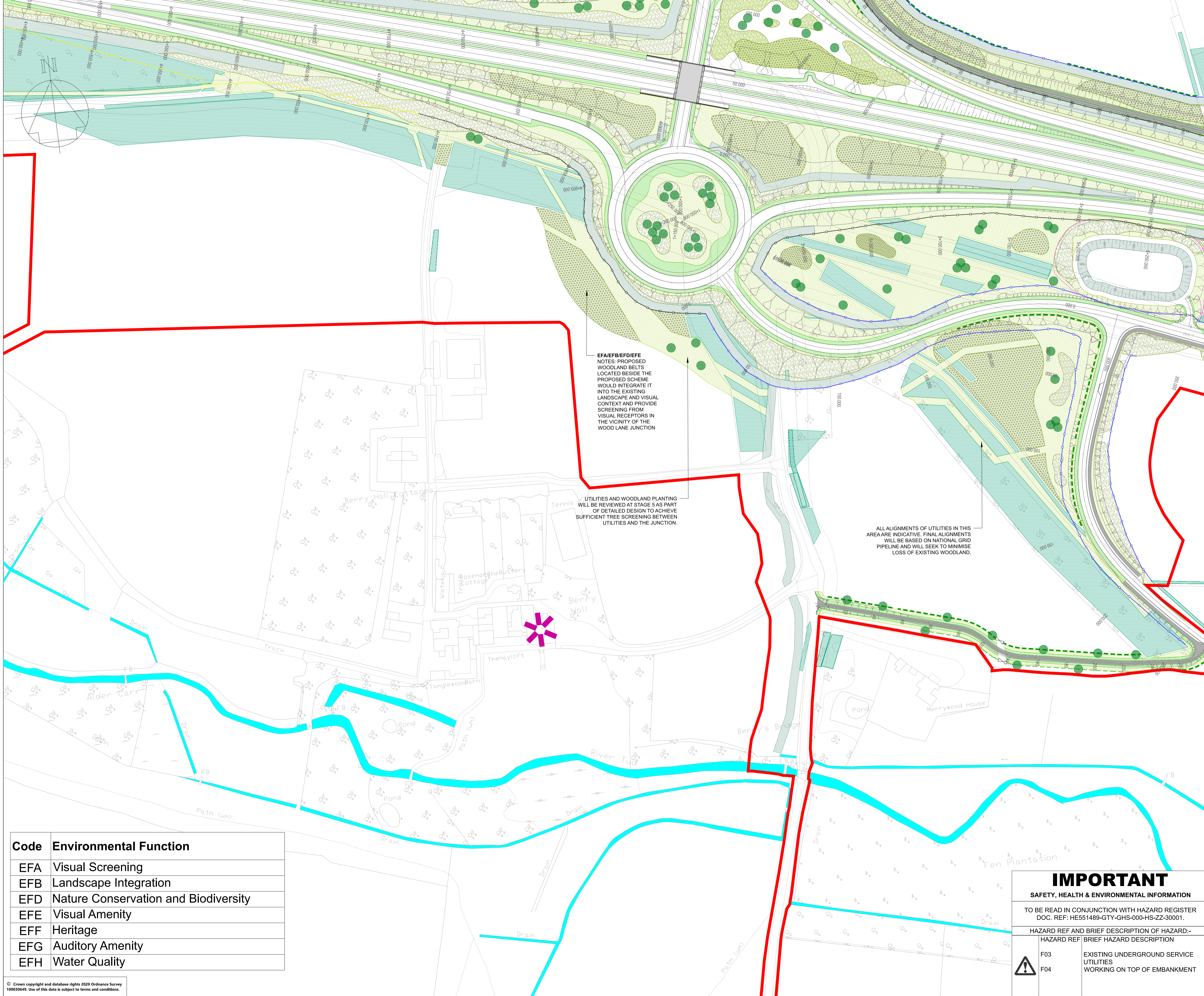
SUITABILITY
SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30009

IMPORTANT
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
TO BE READ IN CONJUNCTION WITH HAZARD REGISTER
DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.
HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
HAZARD REF | BRIEF HAZARD DESCRIPTION

This drawing should not be relied on or used in circumstances other than those for which it was originally prepared and for which Sweco UK Ltd was commissioned. Sweco UK Ltd accepts no responsibility for this drawing to any party other than the person by whom it was commissioned. This drawing has been prepared on behalf of Galliford Try by Sweco UK Ltd for the stated project on behalf thereof and should not be used for any other project without an independent check being carried out as to its suitability and prior written authority of Galliford Try being obtained. Sweco UK Ltd accepts no responsibility or liability for the consequences of this drawing being used for a purpose other than the purpose for which it was commissioned. Any person using or relying on this drawing for such other purpose agrees, and will by such use of reliance be taken to confirm their agreement, to indemnify Sweco UK Ltd for all loss or damage sustained therefrom.



- NOTES**
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 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
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 HE551489-GTY-ELS-000-DR-LX-30007
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 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DDO BOUNDARY	EXISTING VEGETATION	PROPOSED ENVIRONMENTAL ELEMENTS	EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
CRUSTED HORNSEA WIND FARM	PROPOSED WATER POLLUTION CONTROL MEASURES - ATTENUATION/STORAGE/STORAGE AREA	LISTED MILESTONE	PROPOSED LANDSCAPE ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION
LISTED MILESTONE	LE1.1 AMENITY GRASS AREAS	LE1.3 SPECIES RICH GRASSLAND	LE2.1 WOODLAND	LE2.1 WOODLAND RW (RIPARIAN WOODLAND)
LE1.1 AMENITY GRASS AREAS	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES
LE1.3 SPECIES RICH GRASSLAND	LE2.2 WOODLAND	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS
LE2.1 WOODLAND	LE2.3 SPECIES RICH GRASSLAND	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS
LE2.1 WOODLAND	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS
LE2.1 WOODLAND	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES
LE2.1 WOODLAND	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE2.1 WOODLAND	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES		
LE2.1 WOODLAND	LE4.4 NATIVE HEDGEROWS WITH TREES			

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P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 8 of 14 TR010038/APP/6.8

SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER

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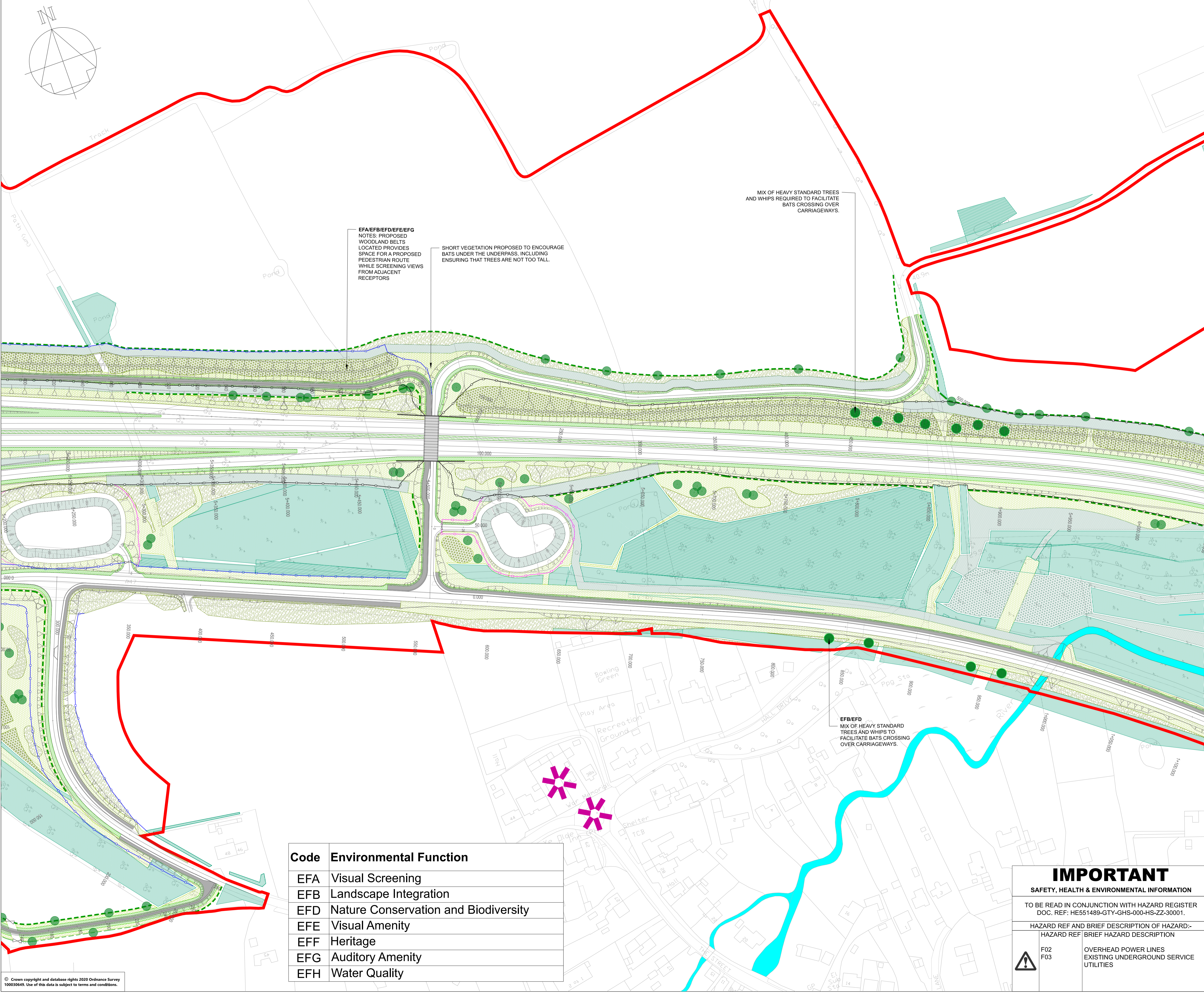
Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F03	EXISTING UNDERGROUND SERVICE UTILITIES WORKING ON TOP OF EMBANKMENT
F04	EXISTING UNDERGROUND SERVICE UTILITIES WORKING ON TOP OF EMBANKMENT



EFA/EFB/efd/efe/efg
 NOTES: PROPOSED WOODLAND BELTS LOCATED PROVIDES SPACE FOR A PROPOSED PEDESTRIAN ROUTE WHILE SCREENING VIEWS FROM ADJACENT RECEPTORS

SHORT VEGETATION PROPOSED TO ENCOURAGE BATS UNDER THE UNDERPASS, INCLUDING ENSURING THAT TREES ARE NOT TOO TALL.

MIX OF HEAVY STANDARD TREES AND WHIPS REQUIRED TO FACILITATE BATS CROSSING OVER CARRIAGEWAYS.

EFB/efd
 MIX OF HEAVY STANDARD TREES AND WHIPS TO FACILITATE BATS CROSSING OVER CARRIAGEWAYS.

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
efd	Nature Conservation and Biodiversity
efe	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

- NOTES**
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 HE551489-GTY-ELS-000-DR-LX-30013
 HE551489-GTY-ELS-000-DR-LX-30014
 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	LES.1 INDIVIDUAL TREES
ORSTED HORNSEA WIND FARM	LES.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LES.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION
E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/INFILTRATION PONDS	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE1.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE1.1 WOODLAND	3m HIGH NOISE BARRIER
LE2.1 WOODLAND ROW (RIPARIAN WOODLAND)	BASH FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE2.5 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H3 STEEL SINGLE FIELD GATE
LE2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PAUSADE GATE, GATE BOLT.
LE4.3 NATIVE SPECIES HEDGEROWS	
LE4.4 NATIVE HEDGEROWS WITH TREES	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
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P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon
P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways
england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 9 of 14 TR010038/APP/6.8

SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30011

IMPORTANT

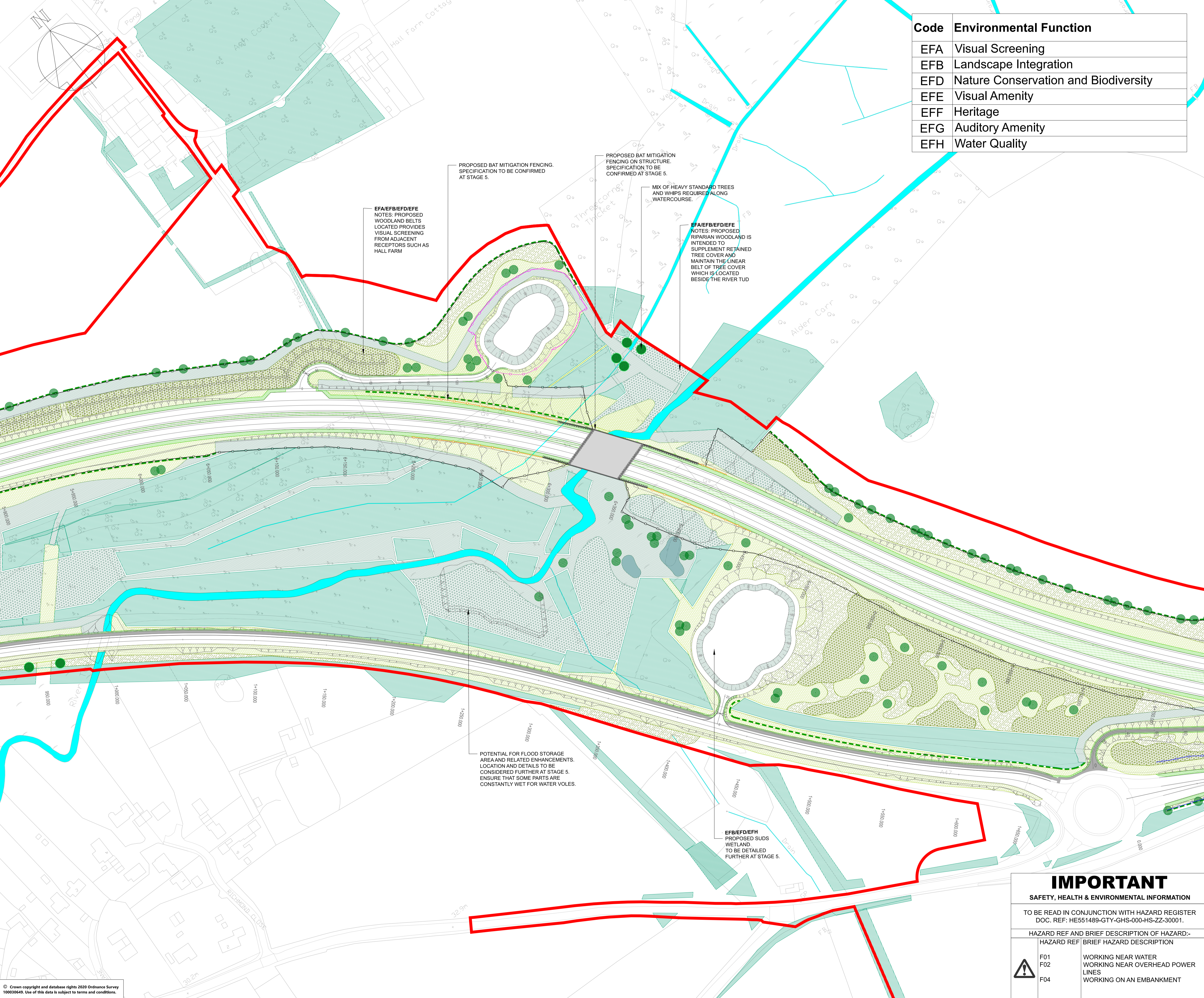
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF AND BRIEF DESCRIPTION OF HAZARD- HAZARD REF/ BRIEF HAZARD DESCRIPTION

F02	OVERHEAD POWER LINES
F03	EXISTING UNDERGROUND SERVICE UTILITIES

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Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

- NOTES**
- A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 - ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 - ALL STAIRS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
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 - ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
 - DO NOT SCALE FROM THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
HE551489-GTY-ELS-000-DR-LX-30003
HE551489-GTY-ELS-000-DR-LX-30004
HE551489-GTY-ELS-000-DR-LX-30005
HE551489-GTY-ELS-000-DR-LX-30006
HE551489-GTY-ELS-000-DR-LX-30007
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HE551489-GTY-ELS-000-DR-LX-30009
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HE551489-GTY-ELS-000-DR-LX-30011
HE551489-GTY-ELS-000-DR-LX-30013
HE551489-GTY-ELS-000-DR-LX-30014
HE551489-GTY-ELS-000-DR-LX-30015
HE551489-GTY-ELS-000-DR-LX-30016
FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

	DCO BOUNDARY		LES.1 INDIVIDUAL TREES
	CRISTED HORSESHOE FARM		LES.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY SEEDING SPECIES
	EXISTING VEGETATION		LES.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
	EXISTING VEGETATION TO BE RETAINED		PROPOSED ELEMENTS - OTHER
	PROPOSED ENVIRONMENTAL ELEMENTS		PROPOSED LIGHTING COLUMN LOCATION
	E4.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTERING POOLS		HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TRIMMER POST AND RAIL
	PROPOSED COMPENSATORY FLOOD STORAGE AREA		MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
	LISTED MILESTONE		LOCAL AUTHORITY ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
	PROPOSED LANDSCAPE ELEMENTS		BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
	LE1.1 AMENITY GRASS AREAS		BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
	LE1.3 SPECIES RICH GRASSLAND		2m HIGH NOSE AND VISUAL SCREEN
	LE2.1 WOODLAND		3m HIGH NOSE BARRIER
	LE2.1 WOODLAND RW (RIPARIAN WOODLAND)		BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
	LE2.4 LINEAR BELTS OF SHRUBS AND TREES		ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
	LE2.5 SHRUBS WITH INTERMITTENT TREES		FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
	LE2.6 SHRUBS		4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, GAT BOLT
	LE4.3 NATIVE SPECIES HEDGEROWS		
	LE4.4 NATIVE HEDGEROWS WITH TREES		

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
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C02	04/03/21	FINAL	LS	JMee	BJon
P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

**highways
england**

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

**Environmental Masterplan Sheet 10 of 14
TR010038/APP/6.8**

SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30012

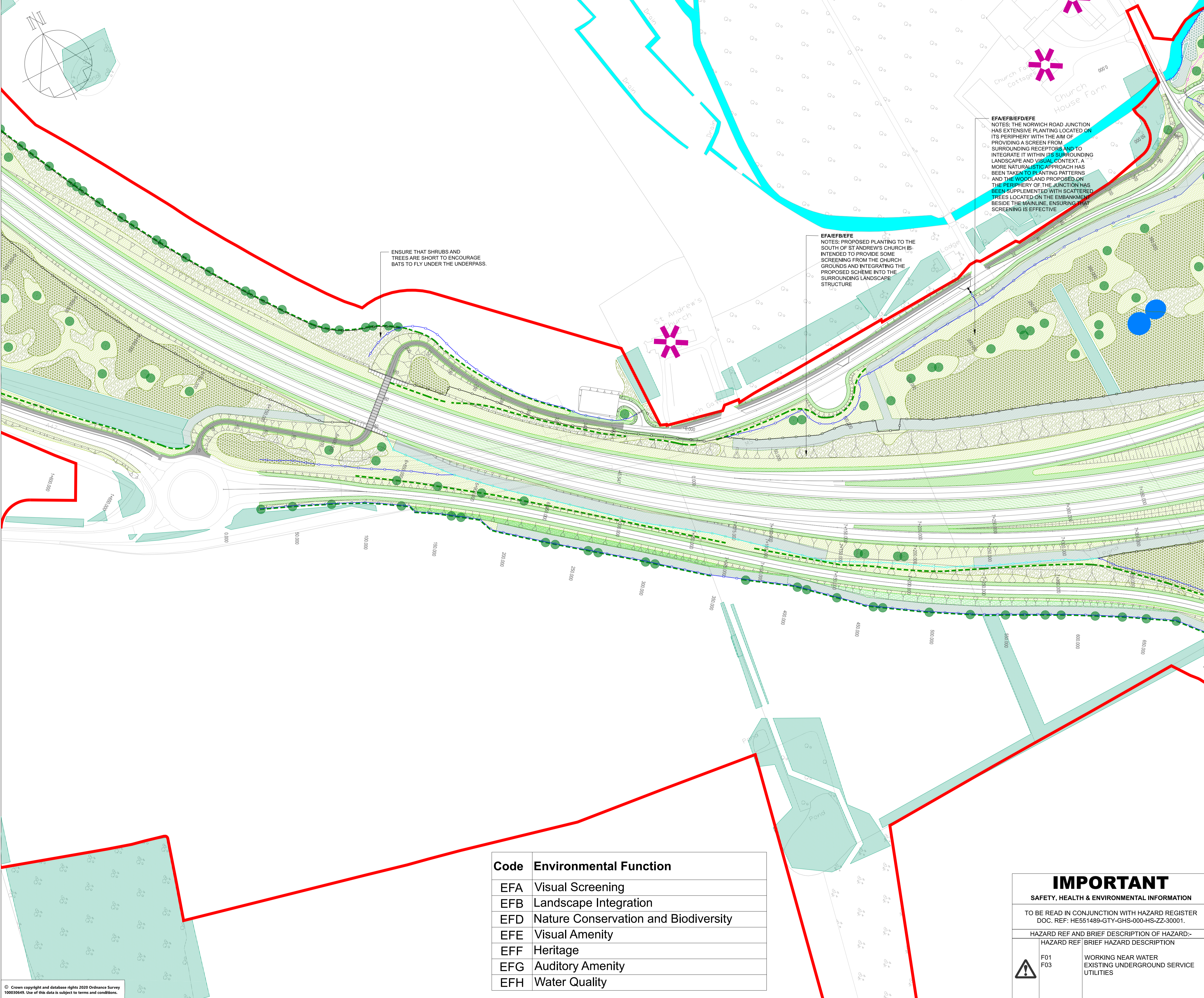
IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF DESCRIPTION OF HAZARD-
F01	WORKING NEAR WATER
F02	WORKING NEAR OVERHEAD POWER LINES
F04	WORKING ON AN EMBANKMENT

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 2. ALL AREAS OF PROPOSED WOOLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOOLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 3. ALL STAGE CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
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 7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
HE551489-GTY-ELS-000-DR-LX-30003
HE551489-GTY-ELS-000-DR-LX-30004
HE551489-GTY-ELS-000-DR-LX-30005
HE551489-GTY-ELS-000-DR-LX-30006
HE551489-GTY-ELS-000-DR-LX-30007
HE551489-GTY-ELS-000-DR-LX-30008
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HE551489-GTY-ELS-000-DR-LX-30015
HE551489-GTY-ELS-000-DR-LX-30016
 8. FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

[Red line]	DOO BOUNDARY	[Green circle]	LE3.1 INDIVIDUAL TREES
[Blue hatched area]	CRISTED HORNSIA WIND FARM	[Green circle with dot]	LE3.1 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
[Green hatched area]	EXISTING VEGETATION	[Green hatched area]	LE3.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
[Green hatched area]	EXISTING VEGETATION TO BE RETAINED	[Green hatched area]	PROPOSED ELEMENTS - OTHER
[Blue hatched area]	PROPOSED ENVIRONMENTAL ELEMENTS	[Green circle]	PROPOSED LIGHTING COLUMN LOCATION
[Blue hatched area]	E3.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PORDS STORAGE AREA	[Blue line]	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
[Blue hatched area]	PROPOSED LANDSCAPE ELEMENTS	[Blue line]	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
[Green hatched area]	LE1.1 AMENITY GRASS AREAS	[Blue line]	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE
[Green hatched area]	LE1.2 WOOLAND	[Blue line]	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
[Green hatched area]	LE1.3 SPECIES RICH GRASSLAND	[Blue line]	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
[Green hatched area]	LE1.4 WOOLAND RW (RIPARIAN WOOLAND)	[Blue line]	2m HIGH NOSE AND VISUAL SCREEN
[Green hatched area]	LE1.5 LINEAR BELTS OF SHRUBS AND TREES	[Blue line]	3m HIGH NOSE BARRIER
[Green hatched area]	LE1.6 SHRUBS WITH INTERMITTENT TREES	[Blue line]	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
[Green hatched area]	LE1.7 SHRUBS	[Blue line]	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
[Green hatched area]	LE1.8 NATIVE SPECIES HEDGEROWS	[Blue line]	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H7 STEEL SINGLE FIELD GATE
[Green hatched area]	LE1.9 NATIVE HEDGEROWS WITH TREES	[Blue line]	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, GATE SOULT

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWH	ECoo	BJon
C01	03/03/21	FINAL	SWH	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon
P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 11 of 14
TR010038/APP/6.8

SUITABILITY

SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER

HE551489-GTY-ELS-000-DR-LX-30013

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

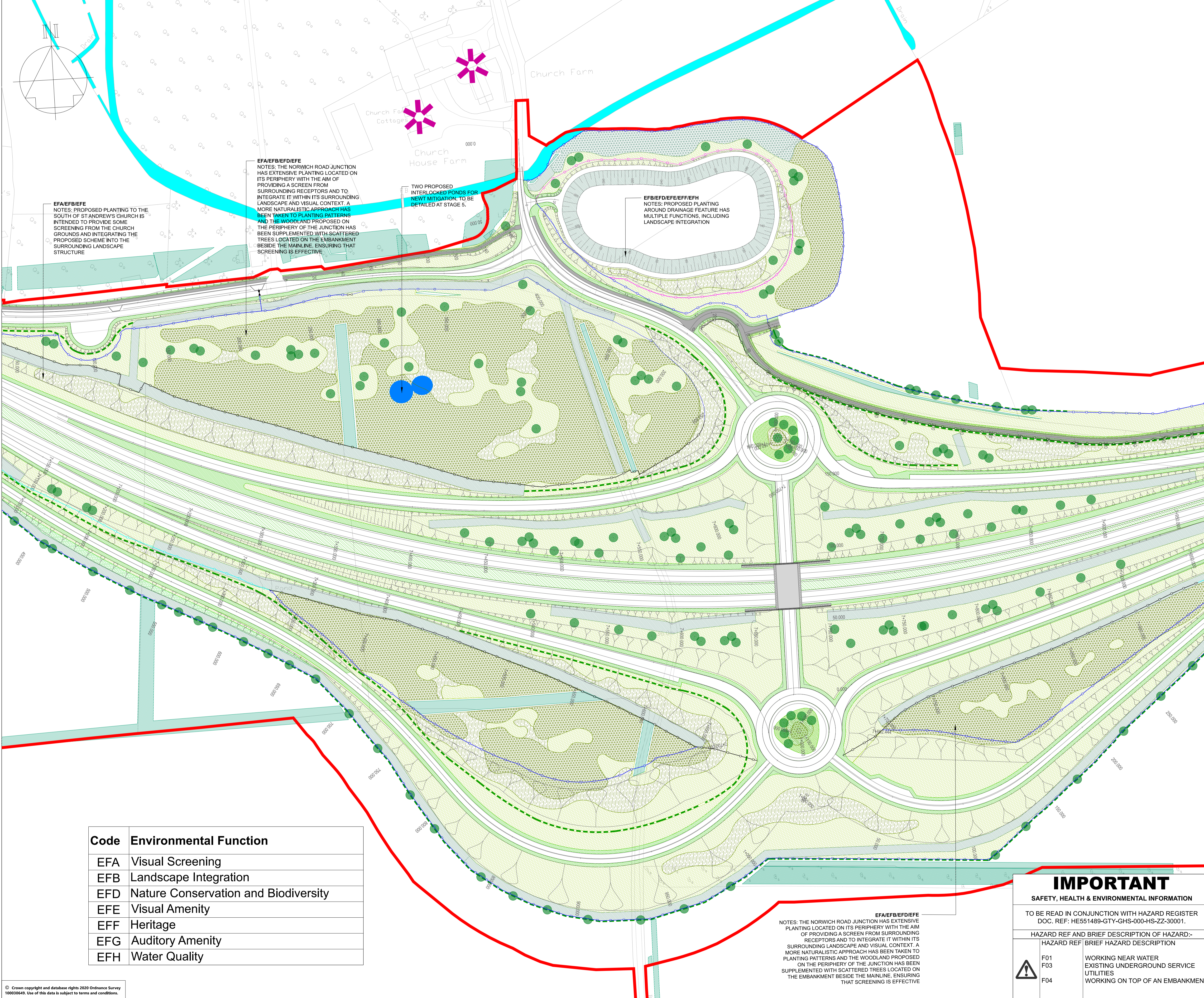
IMPORTANT

SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F01 F03	WORKING NEAR WATER EXISTING UNDERGROUND SERVICE UTILITIES

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- NOTES**
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 2. ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 3. ALL STATUS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
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 5. ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
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 7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
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 HE551489-GTY-ELS-000-DR-LX-30015
 HE551489-GTY-ELS-000-DR-LX-30016
 8. FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

<ul style="list-style-type: none"> DDO BOUNDARY ORSTED HORSESHOE FARM EXISTING VEGETATION EXISTING VEGETATION TO BE RETAINED PROPOSED ENVIRONMENTAL ELEMENTS E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS PROPOSED COMPENSATORY FLOOD STORAGE AREA LISTED MILESTONE PROPOSED LANDSCAPE ELEMENTS LE1.1 AMENITY GRASS AREAS LE1.3 SPECIES RICH GRASSLAND LE2.1 WOODLAND LE2.1 WOODLAND RIV (RIPARIAN WOODLAND) LE2.4 LINEAR BELTS OF SHRUBS AND TREES LE2.5 SHRUBS WITH INTERMITTENT TREES LE2.6 SHRUBS LE2.8 NATIVE SPECIES HEDGEROWS LE4.4 NATIVE HEDGEROWS WITH TREES 	<ul style="list-style-type: none"> LE5.1 INDIVIDUAL TREES LE5.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HIGH STANDARD SPECIMENS LE6.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX) PROPOSED ELEMENTS - OTHER PROPOSED LIGHTING COLUMN LOCATION HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H15 POST AND STRAINED WIRE BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED 3m HIGH NOISE BARRIER 2m HIGH NOISE AND VISUAL SCREEN 3m HIGH NOISE BARRIER ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE 4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, OR BOLT.
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REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWII	ECoo	BJon
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P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 4

DRAWING TITLE
Environmental Masterplan Sheet 12 of 14 TR010038/APP/6.8

SUITABILITY
SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30014

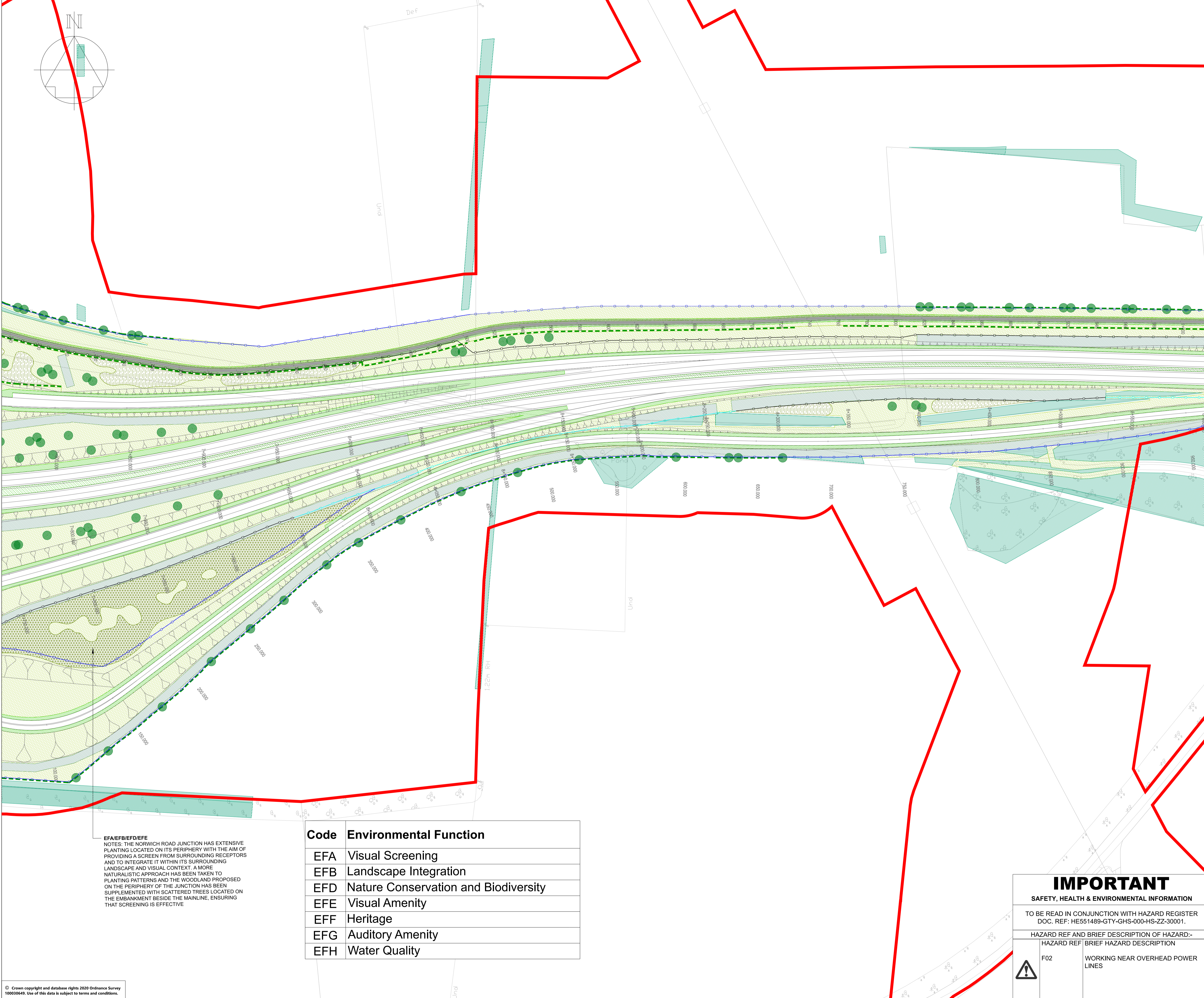
Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

IMPORTANT
 SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.
 HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
 HAZARD REF | BRIEF HAZARD DESCRIPTION

F01	WORKING NEAR WATER
F03	EXISTING UNDERGROUND SERVICE UTILITIES
F04	WORKING ON TOP OF AN EMBANKMENT

EFA/EFB/EFDEFE
 NOTES: THE NORWICH ROAD JUNCTION HAS EXTENSIVE PLANTING LOCATED ON ITS PERIPHERY WITH THE AIM OF PROVIDING A SCREEN FROM SURROUNDING RECEPTORS AND TO INTEGRATE IT WITH ITS SURROUNDING LANDSCAPE AND VISUAL CONTEXT. A MORE NATURALISTIC APPROACH HAS BEEN TAKEN TO PLANTING PATTERNS AND THE WOODLAND PROPOSED ON THE PERIPHERY OF THE JUNCTION HAS BEEN SUPPLEMENTED WITH SCATTERED TREES LOCATED ON THE EMBANKMENT BESIDE THE MAINLINE, ENSURING THAT SCREENING IS EFFECTIVE

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1. A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
 2. ALL AREAS OF PROPOSED WOODLAND, LINEAR BELTS OF SHRUBS AND TREES, SHRUBS WITH INTERMITTENT TREES, AND SHRUBS TO BE PLANTED WITH SPECIES RICH GRASSLAND. ALL AREAS OF RIPARIAN WOODLAND TO BE PLANTED WITH RIPARIAN SEEDING MIX. SEE PLANTING SCHEDULE FOR FURTHER DETAILS.
 3. ALL STAGE CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
 4. THIS DRAWING SHALL ONLY BE USED FOR THE DESIGN ELEMENT STATED IN THE DRAWING TITLE.
 5. ALL DIMENSION IN METRES (m) UNLESS OTHERWISE STATED.
 6. DO NOT SCALE FROM THIS DRAWING.
 7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH:
 HE551489-GTY-ELS-000-DR-LX-30003
 HE551489-GTY-ELS-000-DR-LX-30004
 HE551489-GTY-ELS-000-DR-LX-30005
 HE551489-GTY-ELS-000-DR-LX-30006
 HE551489-GTY-ELS-000-DR-LX-30007
 HE551489-GTY-ELS-000-DR-LX-30008
 HE551489-GTY-ELS-000-DR-LX-30009
 HE551489-GTY-ELS-000-DR-LX-30010
 HE551489-GTY-ELS-000-DR-LX-30011
 HE551489-GTY-ELS-000-DR-LX-30012
 HE551489-GTY-ELS-000-DR-LX-30013
 HE551489-GTY-ELS-000-DR-LX-30014
 HE551489-GTY-ELS-000-DR-LX-30016
 8. FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	LES.1 INDIVIDUAL TREES
ORSTED HORSESHOE FARM	LES.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
EXISTING VEGETATION	LES.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION
E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/INFILTRATION PONDS	HIGHWAY BOUNDARY - MCHW VOL.3 SECT.1 H3 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H13 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	S&M MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE.1 AMENITY GRASS AREAS	S&M MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE.3 SPECIES RICH GRASSLAND	2m HIGH NOISE AND VISUAL SCREEN
LE.2 WOODLAND	3m HIGH NOISE BARRIER
LE.2.1 WOODLAND RHW (RIPARIAN WOODLAND)	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE.2.4 LINEAR BELTS OF SHRUBS AND TREES	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
LE.2.5 SHRUBS WITH INTERMITTENT TREES	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H17 STEEL SINGLE FIELD GATE
LE.2.6 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, GA BOLT.
LE.2.3 SHRUBS	
LE.4.3 NATIVE SPECIES HEDGEROWS	
LE.4.4 NATIVE HEDGEROWS WITH TREES	

REV	DATE	REVISION NOTE	ORG	CHK'D	APP'D
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
P02	03/03/21	FINAL	SWRI	ECoo	BJon
C01	03/03/21	FINAL	SWRI	ECoo	BJon
P03	04/03/21	FINAL	LS	JMee	BJon
C02	04/03/21	FINAL	LS	JMee	BJon
P04	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
C03	24/06/21	S55 CHECKLIST AMENDMENT	LS	JMee	MR
P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER

SWECO

CONTRACTOR

GallifordTry

CLIENT

highways england

PROJECT TITLE

A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE

PCF STAGE 4

DRAWING TITLE

Environmental Masterplan Sheet 13 of 14 TR010038/APP/6.8

IMPORTANT
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F02	WORKING NEAR OVERHEAD POWER LINES

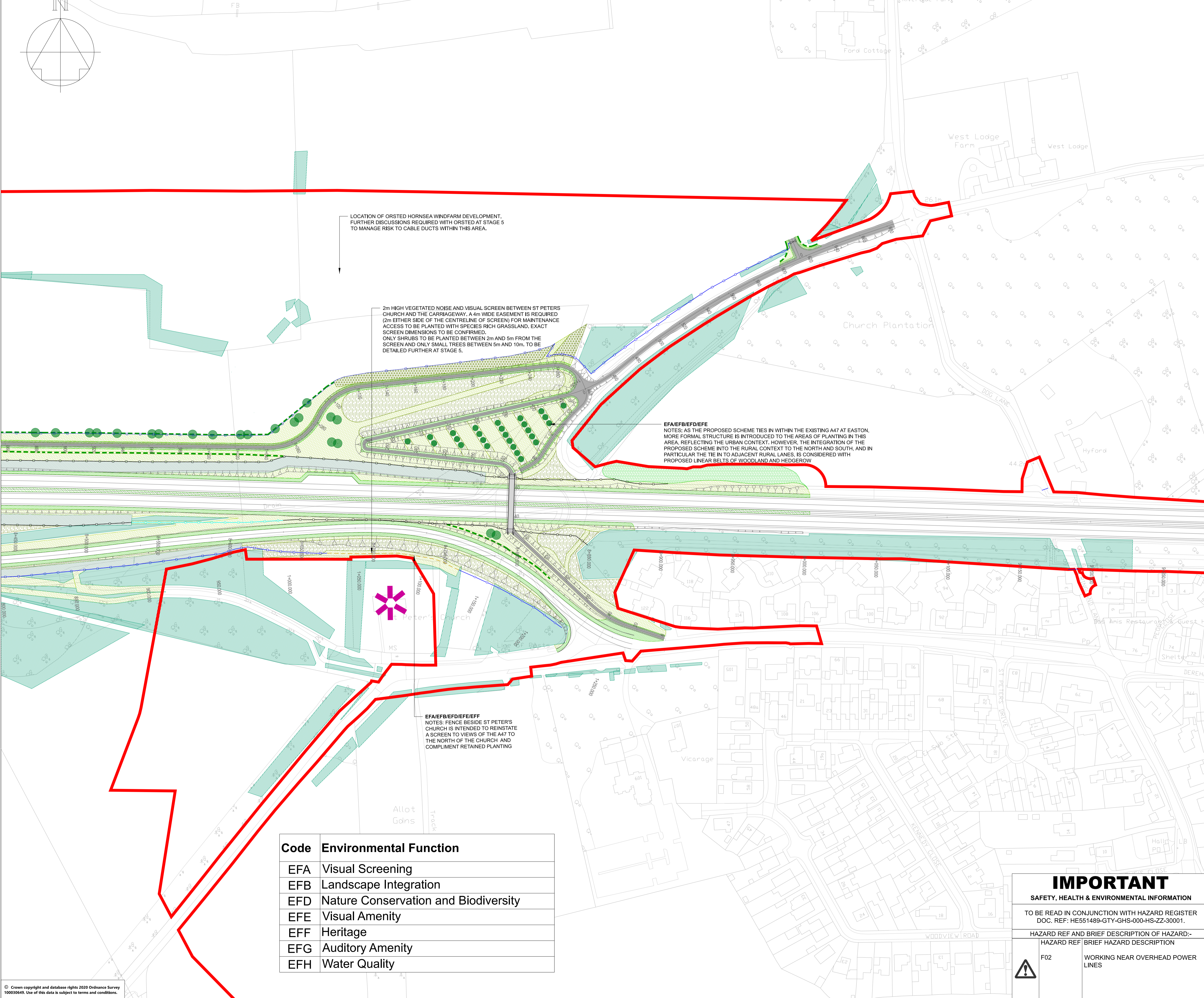
SUITABILITY: **SUITABLE FOR STAGE APPROVAL**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER: **HE551489-GTY-ELS-000-DR-LX-30015**

Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

EFA/EFB/EFD/EFE
 NOTES: THE NORWICH ROAD JUNCTION HAS EXTENSIVE PLANTING LOCATED ON ITS PERIPHERY WITH THE AIM OF PROVIDING A SCREEN FROM SURROUNDING RECEPTORS AND TO INTEGRATE IT WITHIN ITS SURROUNDING LANDSCAPE AND VISUAL CONTEXT. A MORE NATURALISTIC APPROACH HAS BEEN TAKEN TO PLANTING PATTERNS AND THE WOODLAND PROPOSED ON THE PERIPHERY OF THE JUNCTION HAS BEEN SUPPLEMENTED WITH SCATTERED TREES LOCATED ON THE EMBANKMENT BESIDE THE MAINLINE, ENSURING THAT SCREENING IS EFFECTIVE.



LOCATION OF ORSTED HORNSEA WINDFARM DEVELOPMENT. FURTHER DISCUSSIONS REQUIRED WITH ORSTED AT STAGE 5 TO MANAGE RISK TO CABLE DUCTS WITHIN THIS AREA.

2m HIGH VEGETATED NOISE AND VISUAL SCREEN BETWEEN ST PETERS CHURCH AND THE CARRIAGEWAY. A 4m WIDE EASEMENT IS REQUIRED (2m EITHER SIDE OF THE CENTRELINE OF SCREEN) FOR MAINTENANCE ACCESS TO BE PLANTED WITH SPECIES RICH GRASSLAND. EXACT SCREEN DIMENSIONS TO BE CONFIRMED. ONLY SHRUBS TO BE PLANTED BETWEEN 2m AND 5m FROM THE SCREEN AND ONLY SMALL TREES BETWEEN 5m AND 10m. TO BE DETAILED FURTHER AT STAGE 5.

EFA/EFB/efd/efe
NOTES: AS THE PROPOSED SCHEME TIES IN WITHIN THE EXISTING A47 AT EASTON, MORE FORMAL STRUCTURE IS INTRODUCED TO THE AREAS OF PLANTING IN THIS AREA, REFLECTING THE URBAN CONTEXT. HOWEVER, THE INTEGRATION OF THE PROPOSED SCHEME INTO THE RURAL CONTEXT TO THE NORTH AND SOUTH, AND IN PARTICULAR THE TIE IN TO ADJACENT RURAL LANES, IS CONSIDERED WITH PROPOSED LINEAR BELTS OF WOODLAND AND HEDGEROW.

EFA/EFB/efd/efe/eff
NOTES: FENCE BESIDE ST PETER'S CHURCH IS INTENDED TO REINSTATE A SCREEN TO VIEWS OF THE A47 TO THE NORTH OF THE CHURCH AND COMPLEMENT RETAINED PLANTING

Code	Environmental Function
EFA	Visual Screening
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efd	Nature Conservation and Biodiversity
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- NOTES**
- A MAINTENANCE STRIP OF 1M (MINIMUM) WILL BE REQUIRED ON THE HIGHWAY SIDE OF ALL PROPOSED FENCING. TO BE PLANTED WITH SPECIES RICH GRASSLAND/AMENITY GRASS, WHERE APPROPRIATE. DETAILING WILL BE PROVIDED AT STAGE 5.
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 - HE551489-GTY-ELS-000-DR-LX-30004
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 - HE551489-GTY-ELS-000-DR-LX-30007
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 - HE551489-GTY-ELS-000-DR-LX-30015
 - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

KEY TO SYMBOLS

DCO BOUNDARY	EXISTING VEGETATION	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LANDSCAPE ELEMENTS	LE1.1 AMENITY GRASS AREAS	LE1.3 SPECIES RICH GRASSLAND	LE1.4 INDIVIDUAL TREES	LE1.5 SHRUBS	LE1.6 NATIVE SPECIES HEDGEROWS	LE1.7 NATIVE SPECIES HEDGEROWS WITH TREES	LE2.1 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS	LE2.2 BANS AND DITCHES (RIPARIAN SEEDING MIX)	PROPOSED ELEMENTS - OTHER	PROPOSED LIGHTING COLUMN LOCATION	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT. 1 H3 TIMBER POST AND RAIL	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRAINED WIRE	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED	SAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED	2m HIGH NOISE AND VISUAL SCREEN	3m HIGH NOISE BARRIER	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE	FIELD ACCESS GATE - MCHW VOL.3 SECT. 1 H7 STEEL SINGLE FIELD GATE	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE, GAT BOLT.
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REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	FOR ISSUE	LS	ECoo	BJon
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P05	05/10/21	DEADLINE 3	LS	JMee	MR

DESIGNER
SWECO

CONTRACTOR
GallifordTry

CLIENT
highways england

PROJECT TITLE
A47 NORTH TUDDENHAM TO EASTON DUALLING

PROJECT STAGE
PCF STAGE 4

DRAWING TITLE
Environmental Masterplan Sheet 14 of 14 TR010038/APP/6.8

SUITABILITY
SUITABLE FOR STAGE APPROVAL

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	S4	P05

DRAWING NUMBER
HE551489-GTY-ELS-000-DR-LX-30016

IMPORTANT
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION
TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.
HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-
F02 WORKING NEAR OVERHEAD POWER LINES