

# 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

January 2022

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]

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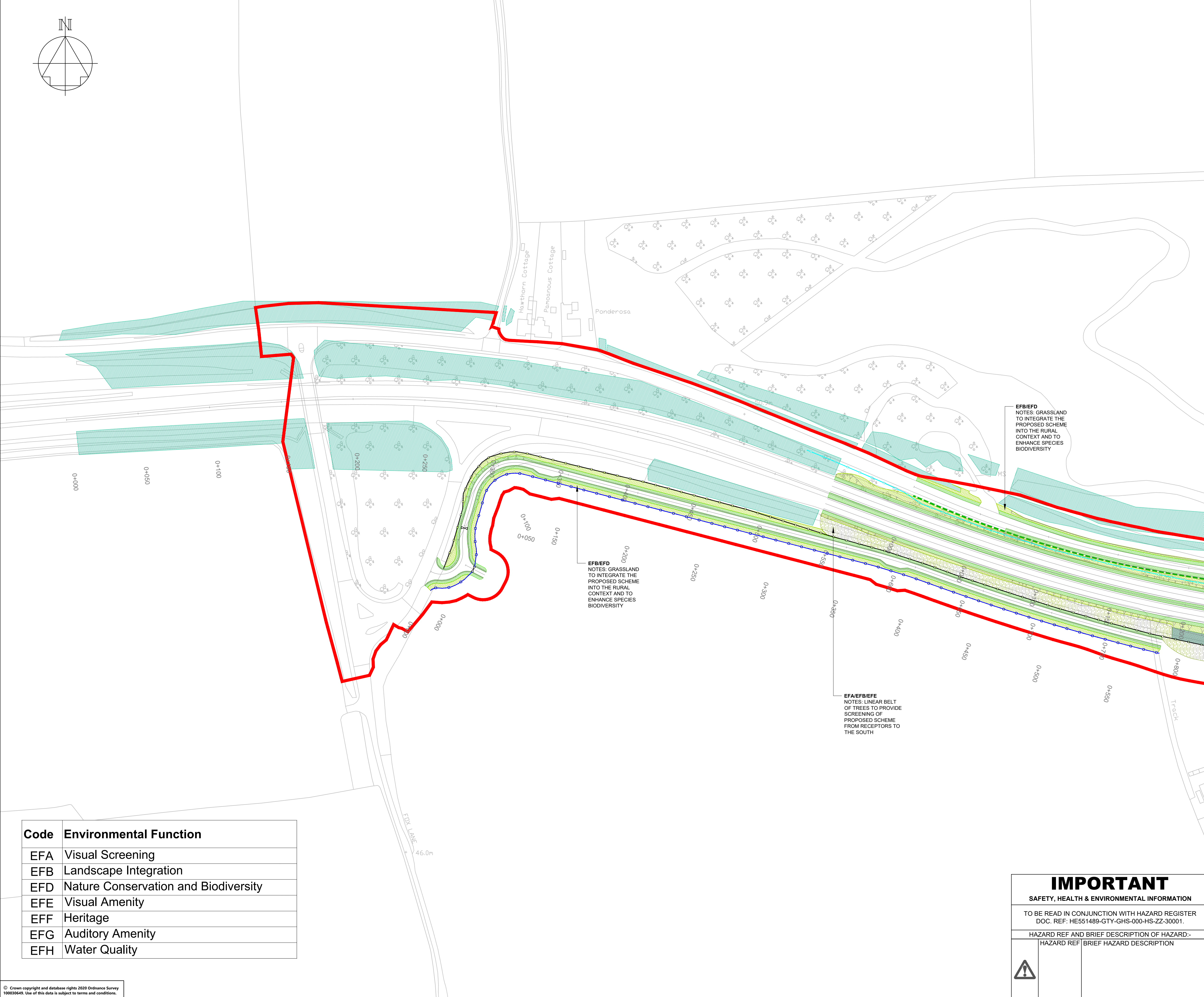
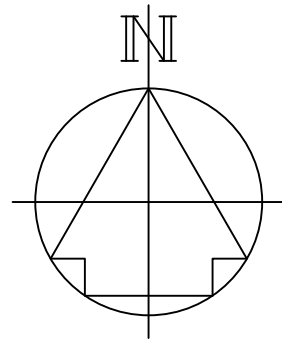
**ENVIRONMENTAL MASTERPLAN**

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

<b>Version</b>	<b>Date</b>	<b>Status of Version</b>
Rev 0	March 2021	Application Issue
Rev 1	June 2021	S51 Advice and S55 Checklist Amendment
Rev 2	October 2021	Deadline 3 Issue
Rev 3	December 2021	Deadline 6 Non-Material DCO Change Request
Rev.4	January 2022	Deadline 8 Update





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

**KEY TO SYMBOLS**

DCO BOUNDARY	LE1 1 INDIVIDUAL TREES
ORSTED HORNSSEA 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 - MCHV 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
LE2 1 WOODLAND	3m HIGH NOISE BARRIER
LE2 1 WOODLAND RIV (RIPARIAN WOODLAND)	BASIN FENCING - MCHV HCD H13 POST AND STRAINED WIRE
LE2 4 LINEAR BELTS OF SHRUBS AND TREES	ANTI CLARE 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 8 SHRUBS	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE. GATE SHALL BE LOCKABLE AND SHALL HAVE HEAVY DUTY DROP BOLT.
LE4 3 NATIVE SPECIES HEDGEROWS	
LE4 4 NATIVE HEDGEROWS WITH TREES	

P01	26/02/21	P01	LS	ECoo	BJon
P02	03/03/21	FINAL	SWIt	ECoo	BJon
C01	03/03/21	FINAL	SWIt	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
P06	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
C04	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

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

**AUTHORISED AS STAGE 4 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A4	C04

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
EFG	Auditory Amenity
EFH	Water Quality

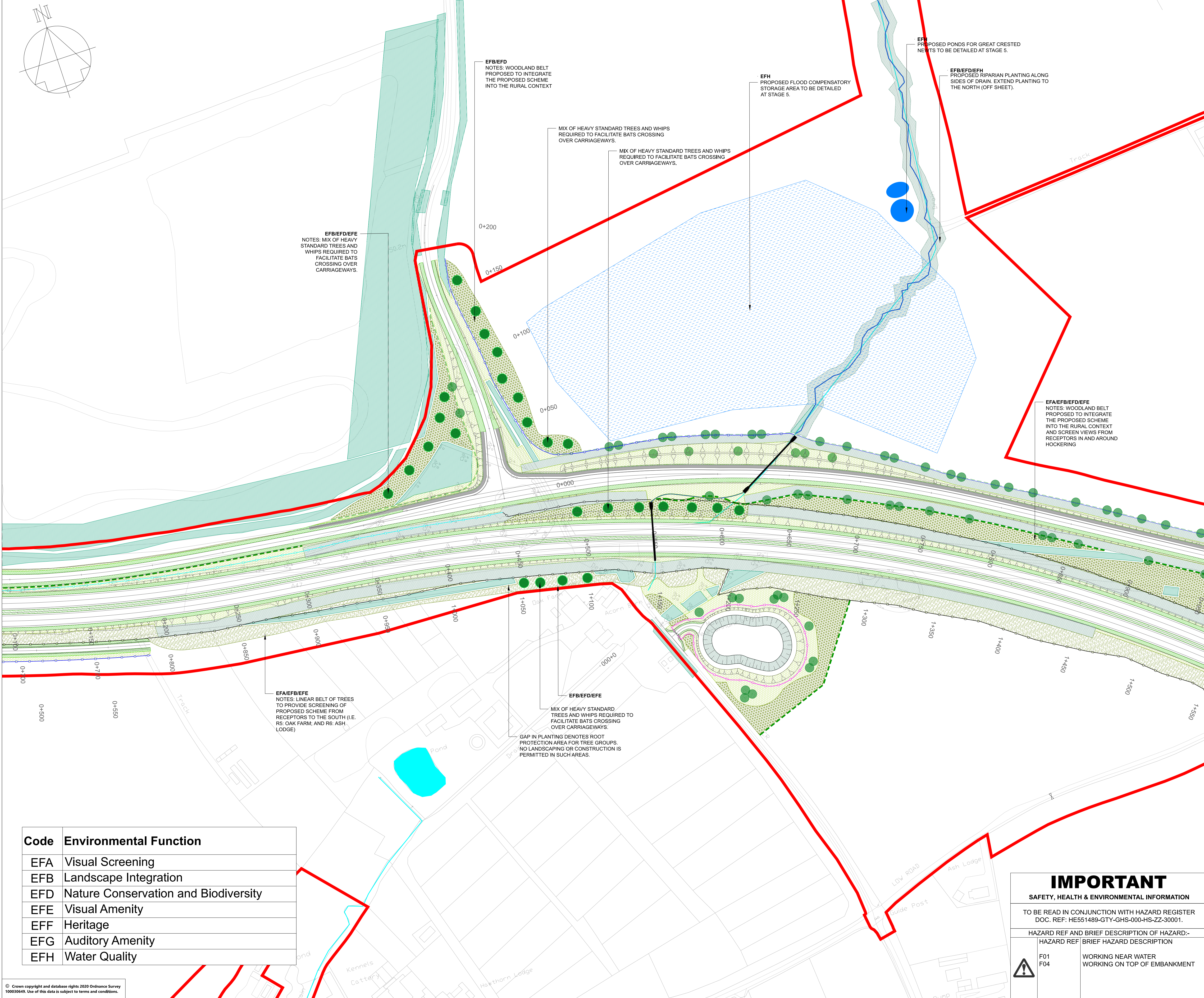
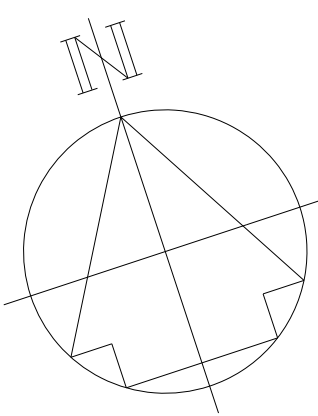
**IMPORTANT**

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

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

HAZARD REF	BRIEF DESCRIPTION OF HAZARD-
	BRIEF HAZARD DESCRIPTION





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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  
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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**

DOO BOUNDARY	EXISTING VEGETATION	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LANDSCAPE ELEMENTS	LE1.1 AMENITY GRASS AREAS	LE1.2 SPECIES RICH GRASSLAND	LE1.3 WOODLAND	LE1.4 WOODLAND RIV (RIPARIAN WOODLAND)	LE1.5 SHRUBS WITH INTERMITTENT TREES	LE2.5 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES
CRISTED HORNSEA WIND FARM	EXISTING VEGETATION TO BE RETAINED	E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/INFILTRATION PONDS	LISTED MILESTONE	LE1.1 AMENITY GRASS AREAS	LE2.1 WOODLAND	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES
PROPOSED COMPENSATORY FLOOD STORAGE AREA	PROPOSED ENVIRONMENTAL ELEMENTS	E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/INFILTRATION PONDS	PROPOSED LANDSCAPE ELEMENTS	LE1.1 AMENITY GRASS AREAS	LE2.1 WOODLAND	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES
PROPOSED LIGHTING COLUMN LOCATION	PROPOSED ENVIRONMENTAL ELEMENTS	E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/INFILTRATION PONDS	PROPOSED LANDSCAPE ELEMENTS	LE1.1 AMENITY GRASS AREAS	LE2.1 WOODLAND	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES
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26/02/21	P01		LS	ECoo	BJon
03/03/21	FINAL		SWrt	ECoo	BJon
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04/03/21	FINAL		LS	JMee	BJon
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
P06	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
C04	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

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 2 of 14 TR010038/APP/6.8**

SUITABILITY  
**AUTHORISED AS STAGE 3 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C04
DRAWING NUMBER			
HE551489-GTY-ELS-000-DR-LX-30004			

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.

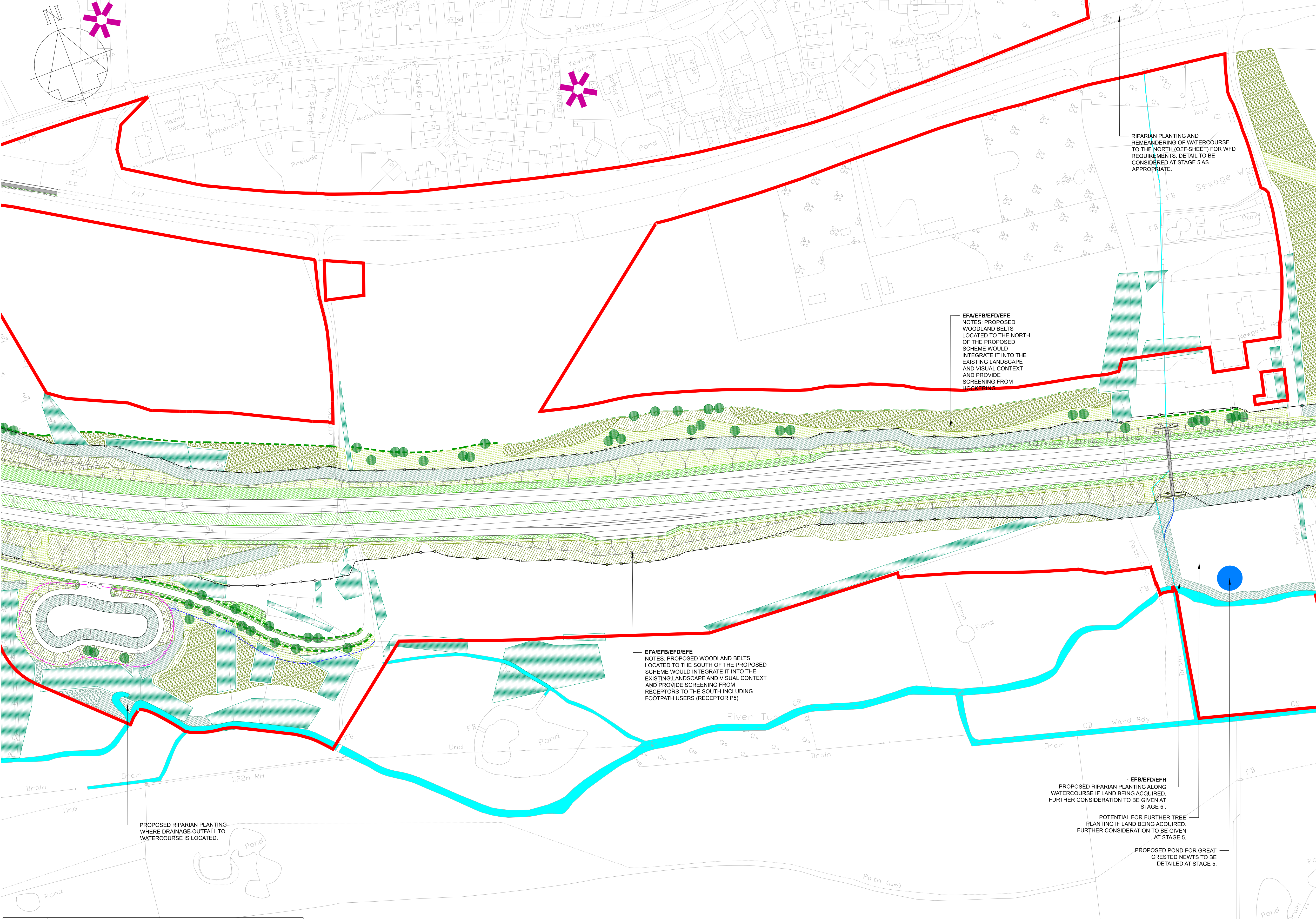
HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:  
HAZARD REF: F01 F04  
BRIEF HAZARD DESCRIPTION: WORKING NEAR WATER WORKING ON TOP OF EMBANKMENT







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### KEY TO SYMBOLS

DCO BOUNDARY	LE1.1 INDIVIDUAL TREES
CRISTED HORNSEA WIND FARM	LE1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIGENS
EXISTING VEGETATION	LE2.2 BARKS AND DITCHES (RIPARIAN SEEDING MIX)
EXISTING VEGETATION TO BE RETAINED	PROPOSED ELEMENTS - OTHER
PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION
E3.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION POND	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT.1.10 TIMBER POST AND RAIL
PROPOSED COMPENSATORY FLOOD STORAGE AREA	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
LISTED MILESTONE	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H115 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 - 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.1.117 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	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	P01	LS	ECoo	BJon
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P05	05/10/21	DEADLINE 3	LS	JMee	MR
P06	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
C04	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE  
**A47 NORTH TUDDENHAM TO EASTON DUALLING**

PROJECT STAGE  
**PCF STAGE 4**

DRAWING TITLE  
**Environmental Masterplan Sheet 4 of 14 TR010038/APP/6.8**

SUITABILITY  
**AUTHORISED AS STAGE 3 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C04

DRAWING NUMBER  
**HE551489-GTY-ELS-000-DR-LX-30006**

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

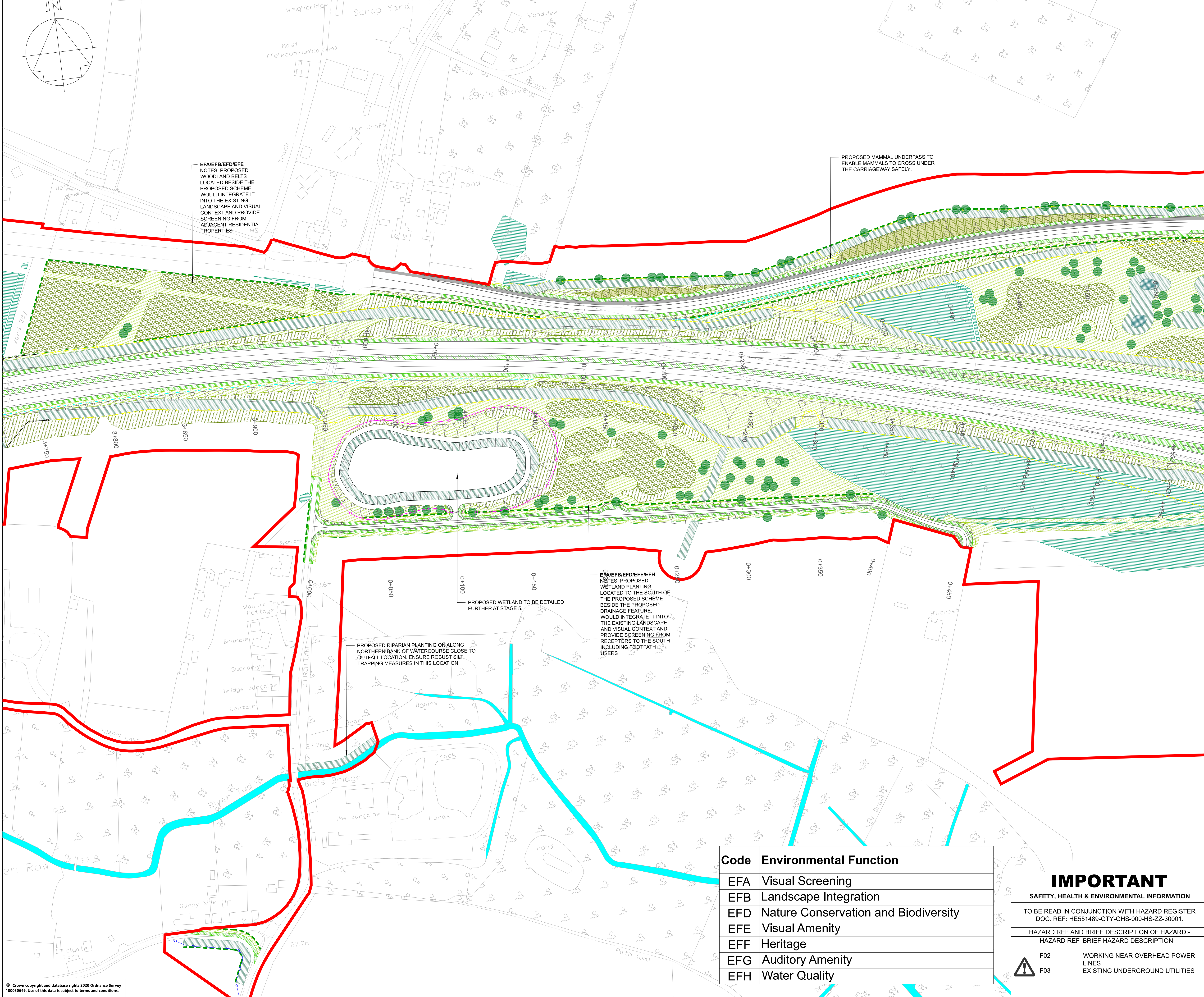
**IMPORTANT**  
 SAFETY, HEALTH & ENVIRONMENTAL INFORMATION  
 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-  
 HAZARD REF: F02 BRIEF HAZARD DESCRIPTION: WORKING NEAR OVERHEAD POWER LINES









**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.

**EFD/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

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

PROPOSED WETLAND TO BE DETAILED FURTHER AT STAGE 5.

Code	Environmental Function
EFA	Visual Screening
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 HAZARD REF AND BRIEF DESCRIPTION OF HAZARD:-  
 HAZARD REF: F02 WORKING NEAR OVERHEAD POWER LINES  
 HAZARD REF: F03 EXISTING UNDERGROUND UTILITIES

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**KEY TO SYMBOLS**

DCO BOUNDARY	EXISTING VEGETATION TO BE RETAINED	PROPOSED ENVIRONMENTAL ELEMENTS	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	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES
CRISTED HORNSHEA WIND FARM	PROPOSED ELEMENTS - OTHER	E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS	PROPOSED LIGHTING COLUMN LOCATION	LE1.2 WOODLAND	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.3 SHRUBS WITH INTERMITTENT TREES	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
EXISTING VEGETATION	PROPOSED ELEMENTS - OTHER	E2.2 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE1.3 SPECIES RICH GRASSLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LISTED MILESTONE	PROPOSED ELEMENTS - OTHER	E2.3 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
PROPOSED LANDSCAPE ELEMENTS	PROPOSED ELEMENTS - OTHER	E2.4 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE1.1 AMENITY GRASS AREAS	PROPOSED ELEMENTS - OTHER	E2.5 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	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	PROPOSED ELEMENTS - OTHER	E2.6 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE2.1 WOODLAND	PROPOSED ELEMENTS - OTHER	E2.7 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	PROPOSED ELEMENTS - OTHER	E2.8 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	PROPOSED ELEMENTS - OTHER	E2.9 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE2.5 SHRUBS WITH INTERMITTENT TREES	PROPOSED ELEMENTS - OTHER	E2.10 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE2.6 SHRUBS	PROPOSED ELEMENTS - OTHER	E2.11 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE4.3 NATIVE SPECIES HEDGEROWS	PROPOSED ELEMENTS - OTHER	E2.12 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	
LE4.4 NATIVE HEDGEROWS WITH TREES	PROPOSED ELEMENTS - OTHER	E2.13 FLOOD STORAGE	PROPOSED LIGHTING COLUMN LOCATION	LE2.1 WOODLAND	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.2 WOODLAND RIV (RIPARIAN WOODLAND)	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.6 SHRUBS	LE4.3 NATIVE SPECIES HEDGEROWS	LE4.4 NATIVE HEDGEROWS WITH TREES	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	P01	LS	ECoo	BJon
P02	03/03/21	FINAL	SWRt	ECoo	BJon
C01	03/03/21	FINAL	SWRt	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
P06	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
C04	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt

DESIGNER

CONTRACTOR

CLIENT

PROJECT TITLE  
**A47 NORTH TUDDENHAM TO EASTON DUALLING**

PROJECT STAGE  
**PCF STAGE 4**

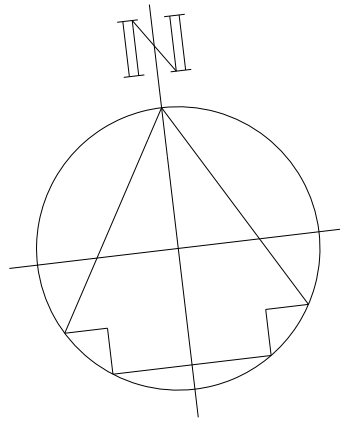
DRAWING TITLE  
 Environmental Masterplan Sheet 6 of 14  
 TR010038/APP/6.8

SUITABILITY  
**AUTHORISED AS STAGE 3 COMPLETED**

SHEET SIZE	SCALE	A3	REVISION
A1	1:1250	A3	C04

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**
- 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.
  - 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  
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  
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**

DDD BOUNDARY	LES.1 INDIVIDUAL TREES
CRISTED HORNESEA 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
LE1.1 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, 0.6M
LE4.3 NATIVE SPECIES HEDGEROWS	
LE4.4 NATIVE HEDGEROWS WITH TREES	

REV	DATE	REVISION NOTE	ORG	CHK'D	APP'D
P01	26/02/21	P01		LS	ECo0 BJon
P02	03/03/21	FINAL		SWR	ECo0 BJon
C01	03/03/21	FINAL		SWR	ECo0 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
P06	14/12/21	DEADLINE 6 ISSUE		LS	JMee BArt
C04	14/12/21	DEADLINE 6 ISSUE		LS	JMee BArt

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 7 of 14  
TR010038/APP/6.8**

SUITABILITY

**AUTHORISED AS STAGE 3 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C04

DRAWING NUMBER

**HE551489-GTY-ELS-000-DR-LX-30009**

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

**IMPORTANT**

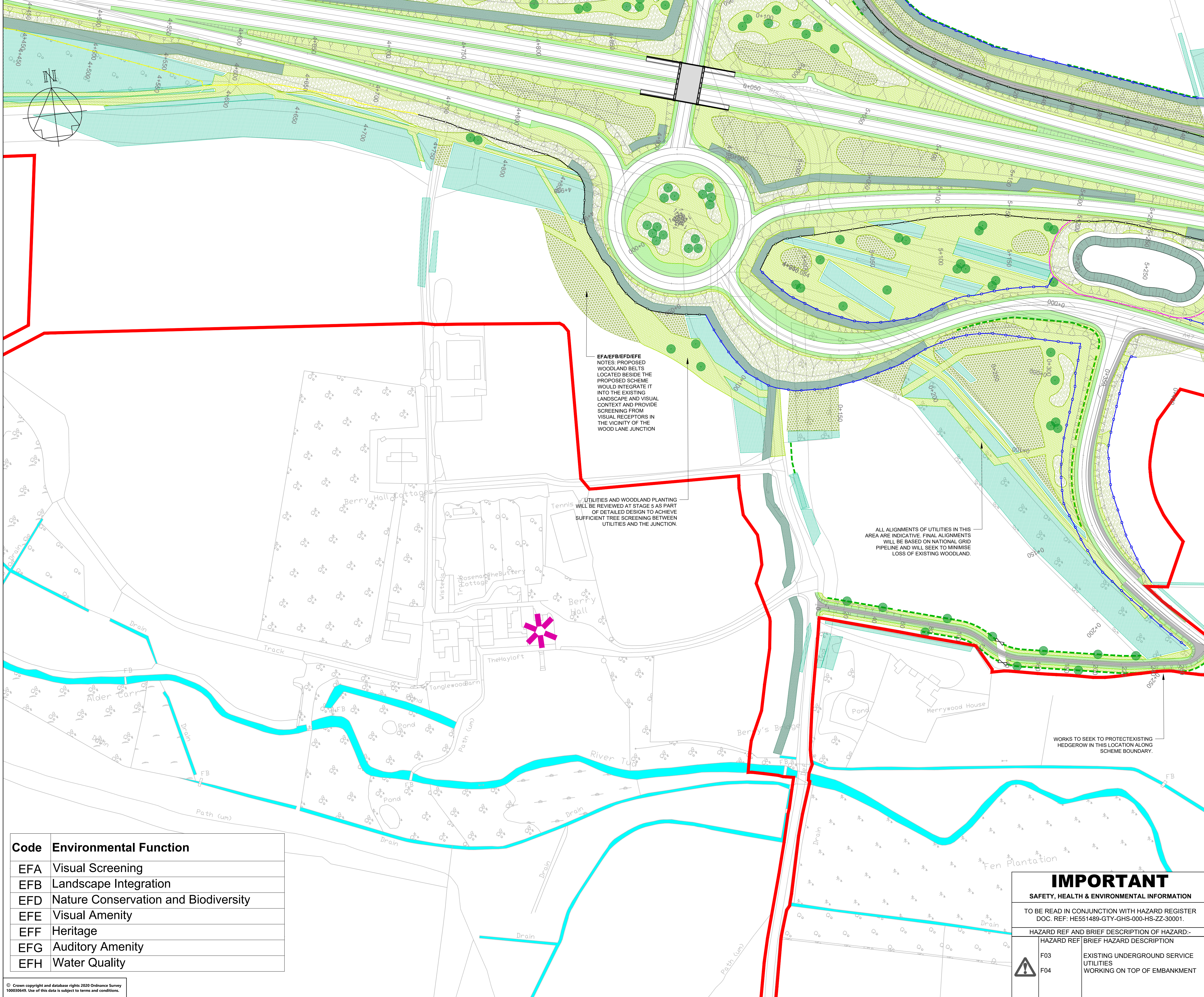
SAFETY, HEALTH & ENVIRONMENTAL INFORMATION

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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- NOTES**
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  - 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.
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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-30008  
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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**

DDO BOUNDARY	EXISTING VEGETATION	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED VEGETATION TO BE RETAINED	PROPOSED LIGHTING COLUMN LOCATION	LE1 INDIVIDUAL TREES
CRISTED HORNSEA WIND FARM	EXISTING VEGETATION TO BE RETAINED	E1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/RETENTION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	LE1.1 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIES
LISTED MILESTONE	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED COMPENSATORY FLOOD STORAGE AREA	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	LE1.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
PROPOSED LANDSCAPE ELEMENTS	PROPOSED ENVIRONMENTAL ELEMENTS	LISTED MILESTONE	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED ELEMENTS - OTHER
LE1 AMENITY GRASS AREAS	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LANDSCAPE ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE1.3 SPECIES RICH GRASSLAND	PROPOSED ENVIRONMENTAL ELEMENTS	LE1 AMENITY GRASS AREAS	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE2 WOODLAND	PROPOSED ENVIRONMENTAL ELEMENTS	LE1.3 SPECIES RICH GRASSLAND	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE2.1 WOODLAND RW (RIPARIAN WOODLAND)	PROPOSED ENVIRONMENTAL ELEMENTS	LE2 WOODLAND	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE2.4 LINEAR BELTS OF SHRUBS AND TREES	PROPOSED ENVIRONMENTAL ELEMENTS	LE2.1 WOODLAND RW (RIPARIAN WOODLAND)	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE2.5 SHRUBS WITH INTERMITTENT TREES	PROPOSED ENVIRONMENTAL ELEMENTS	LE2.4 LINEAR BELTS OF SHRUBS AND TREES	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE2.6 SHRUBS	PROPOSED ENVIRONMENTAL ELEMENTS	LE2.5 SHRUBS WITH INTERMITTENT TREES	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE3 NATIVE SPECIES HEDGEROWS	PROPOSED ENVIRONMENTAL ELEMENTS	LE2.6 SHRUBS	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
LE4 NATIVE HEDGEROWS WITH TREES	PROPOSED ENVIRONMENTAL ELEMENTS	LE3 NATIVE SPECIES HEDGEROWS	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION
		LE4 NATIVE HEDGEROWS WITH TREES	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION	PROPOSED LIGHTING COLUMN LOCATION

EFAEFBIEFIEFE  
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

UTILITIES AND WOODLAND PLANTING WILL BE REVIEWED AT STAGE 5 AS PART OF DETAILED DESIGN TO ACHIEVE SUFFICIENT TREE SCREENING BETWEEN UTILITIES AND THE JUNCTION.

ALL ALIGNMENTS OF UTILITIES IN THIS AREA ARE INDICATIVE. FINAL ALIGNMENTS WILL BE BASED ON NATIONAL GRID PIPELINE AND WILL SEEK TO MINIMISE LOSS OF EXISTING WOODLAND.

WORKS TO SEEK TO PROTECT EXISTING HEDGEROW IN THIS LOCATION ALONG SCHEME BOUNDARY.

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

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
C01	03/03/21	C01	SWil	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
P06	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
C04	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
P07	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
C05	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR

DESIGNER  
**SWECO**

CONTRACTOR  
**GallifordTry**

CLIENT  
**highways england**

PROJECT TITLE  
**A47 NORTH TUDDENHAM TO EASTON DUALLING**

PROJECT STAGE  
**PCF STAGE 4**

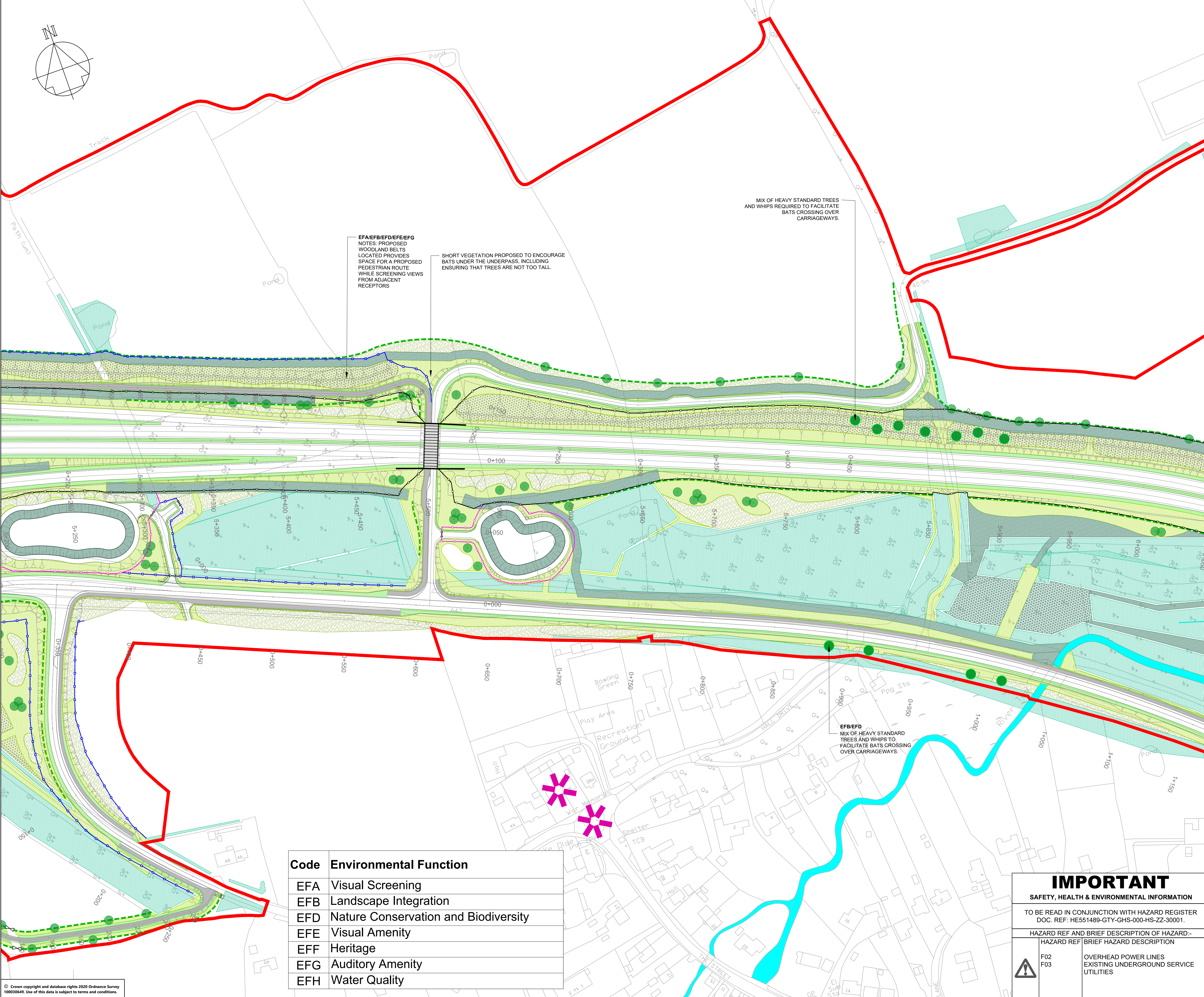
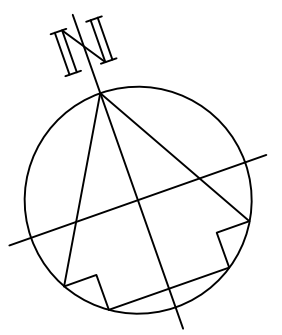
DRAWING TITLE  
**Environmental Masterplan Sheet 8 of 14 TR010038/APP/6.8**

SUITABILITY  
**AUTHORISED AS STAGE 4 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A4	C05

DRAWING NUMBER  
**HE551489-GTY-ELS-000-DR-LX-30010**





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
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EFH	Water Quality

- NOTES**
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  - 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 STATS CORRIDORS ARE INDICATIVE ONLY AND WILL BE FINALISED AT THE DETAILED DESIGN STAGE.
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  - 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-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**

DCO BOUNDARY	LES 1 INDIVIDUAL TREES
CRISTED HORNESEA 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
E1 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 - H15 POST AND STRAINED WIRE
PROPOSED LANDSCAPE ELEMENTS	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1 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)	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. GATE SHALL BE LOCKABLE AND SHALL HAVE HEAVY DUTY DROP BOLT.
LE3 NATIVE SPECIES HEDGEROWS	
LE4 NATIVE HEDGEROWS WITH TREES	

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
C01	03/03/21	C01	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
P06	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
C04	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
P07	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
C05	25/01/22	DEADLINE 8 UPDATE	JL	MR	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

**AUTHORISED AS STAGE 4 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A4	C05

DRAWING NUMBER

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

**IMPORTANT**

**SAFETY, HEALTH & ENVIRONMENTAL INFORMATION**

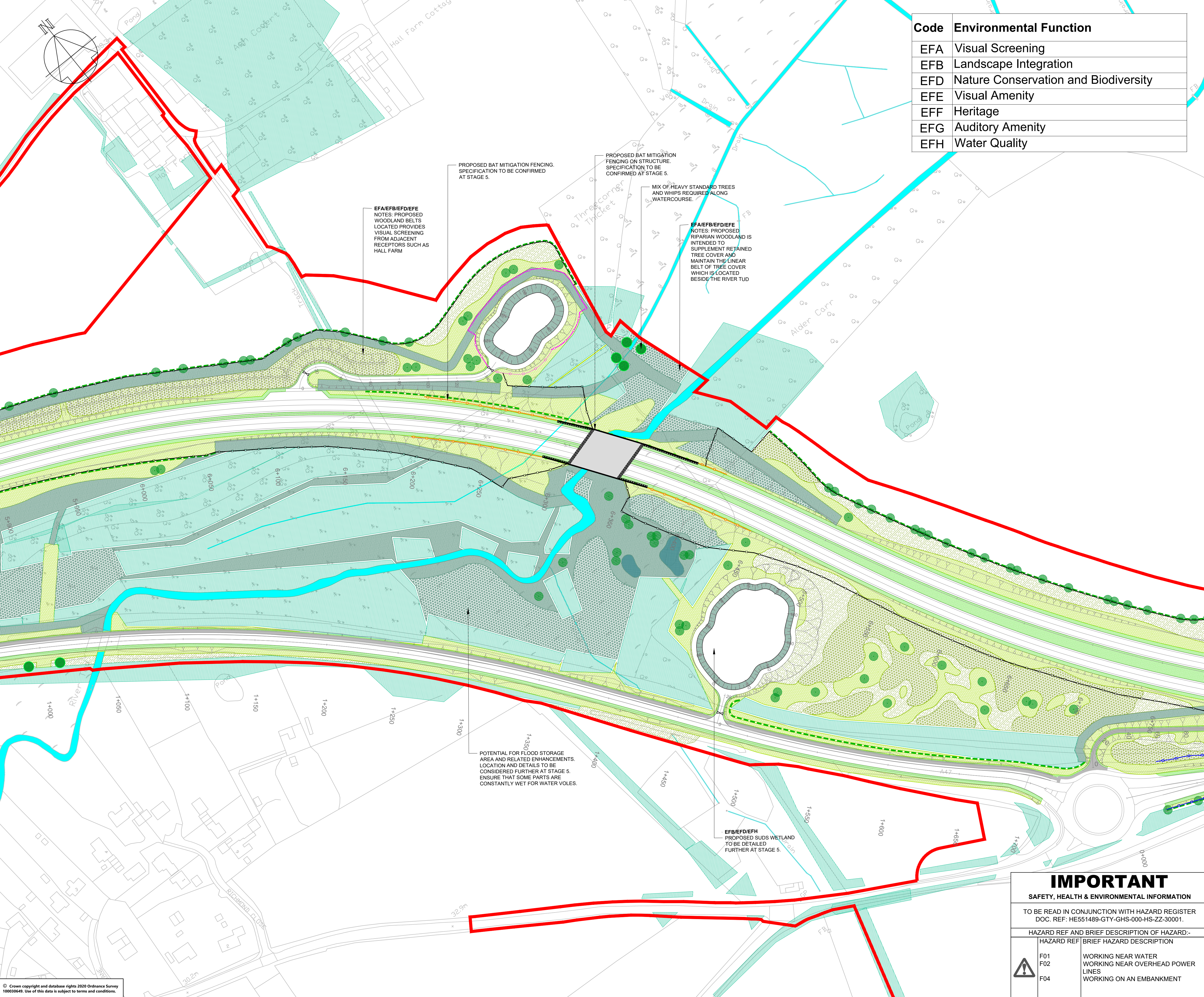
TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

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.
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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  
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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**

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

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	P01	LS	ECoo	BJon
P02	03/03/21	FINAL	SWIt	ECoo	BJon
C01	03/03/21	FINAL	SWIt	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
P06	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
C04	25/01/22	DEADLINE 8 UPDATE	JL	MR	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

**AUTHORISED AS STAGE 4 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A4	C04

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.

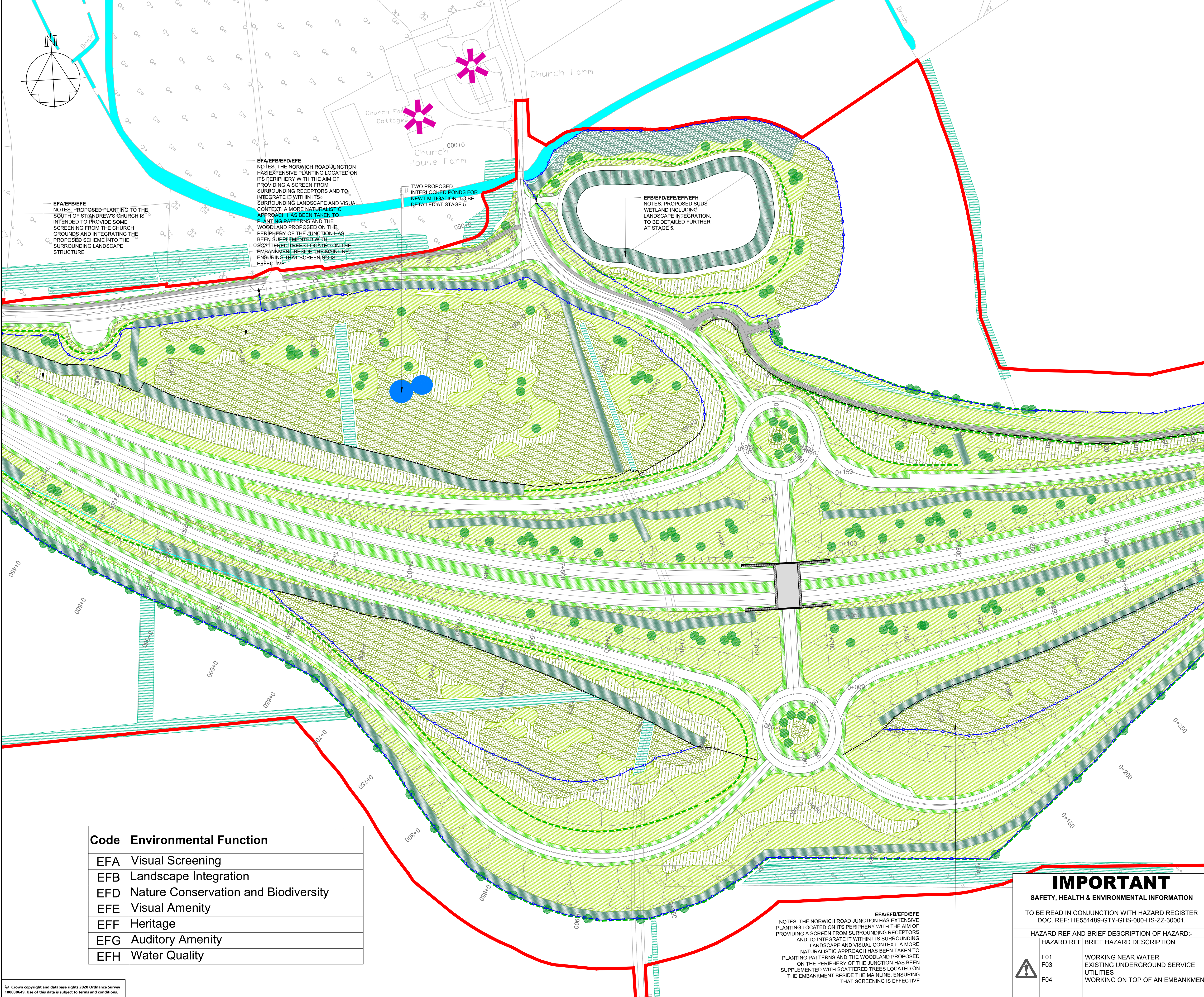
HAZARD REF	BRIEF HAZARD DESCRIPTION
F01	WORKING NEAR WATER
F02	WORKING NEAR OVERHEAD POWER LINES
F04	WORKING ON AN EMBANKMENT







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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  
 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-30016
  - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

**KEY TO SYMBOLS**

DDO BOUNDARY	EXISTING VEGETATION TO BE RETAINED	PROPOSED ENVIRONMENTAL ELEMENTS	PROPOSED LIGHTING COLUMN LOCATION
ORISTED HORNSHORN WIND FARM	PROPOSED WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS	PROPOSED COMPENSATORY FLOOD STORAGE AREA	PROPOSED MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
EXISTING VEGETATION	LISTED MILESTONE	PROPOSED LANDSCAPE ELEMENTS	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H15 POST AND STRAINED WIRE
LE1 AMENITY GRASS AREAS	LE1 INDIVIDUAL TREES	LE1 WOODLAND	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE2 SPECIES RICH GRASSLAND	LE1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS	LE2 WOODLAND	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
LE3 WOODLAND	LE2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)	2m HIGH NOISE AND VISUAL SCREEN
LE4 LINEAR BELTS OF SHRUBS AND TREES	LE2.5 SHRUBS WITH INTERMITTENT TREES	LE2.2 SHRUBS	3m HIGH NOISE BARRIER
LE5 SHRUBS	LE3 NATIVE SPECIES HEDGEROWS	LE4 NATIVE HEDGEROWS WITH TREES	BASIN FENCING - MCHW HCD H13 POST AND STRAINED WIRE
LE6 NATIVE HEDGEROWS WITH TREES			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. GATE SHALL BE LOCKABLE AND SHALL HAVE HEAVY DUTY DROP BOLT

C01	03/03/21	C01	SWII	ECooc	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
P06	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
C04	14/12/21	DEADLINE 6 ISSUE	LS	JMee	BArt
P07	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
C05	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
REV	DATE	REVISION NOTE	ORG	CHKD	APPD

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 12 of 14 TR010038/APP/6.8**

SUITABILITY  
**AUTHORISED AS STAGE 4 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A4	C05
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

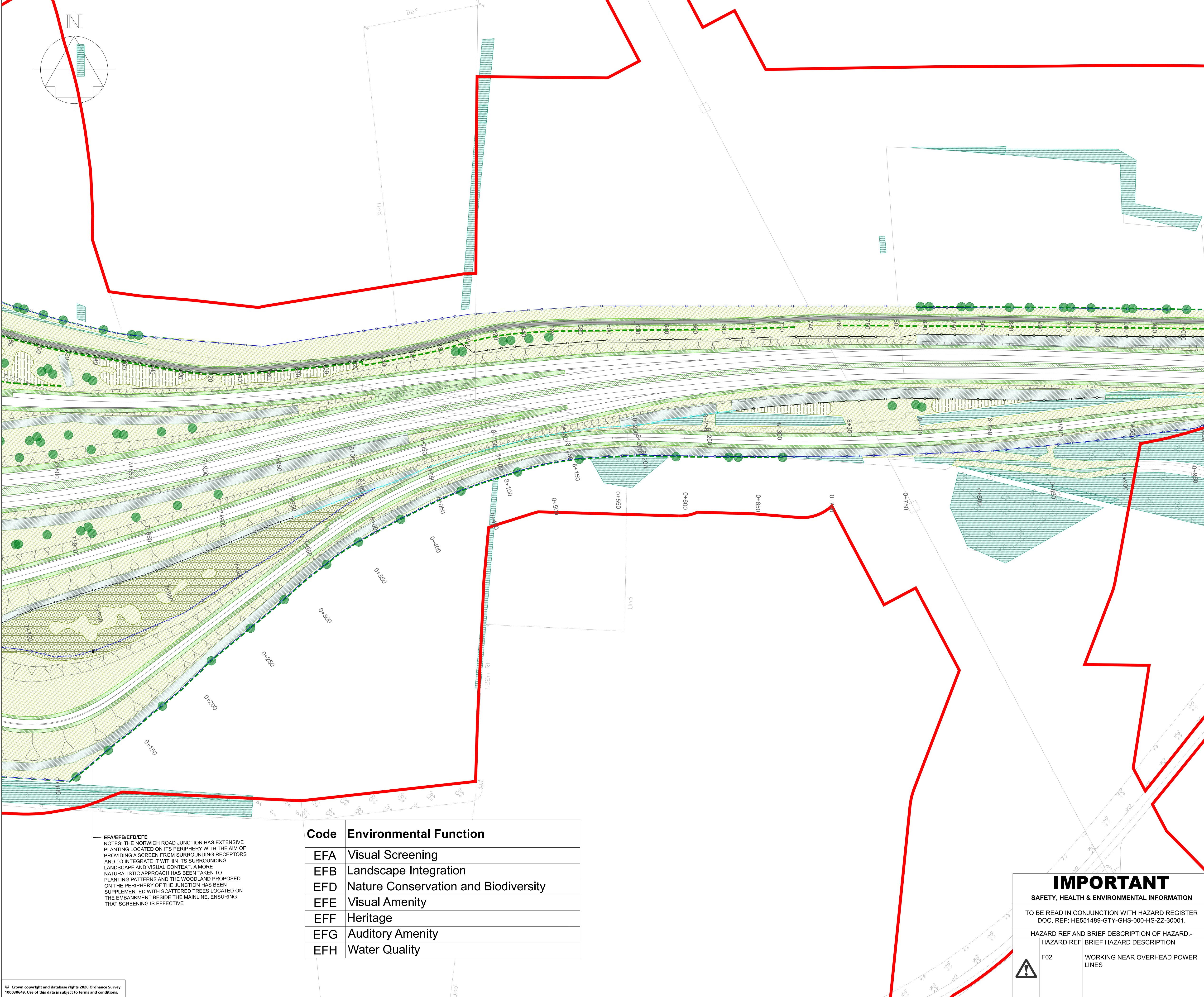
**IMPORTANT**  
 SAFETY, HEALTH & ENVIRONMENTAL INFORMATION  
 TO BE READ IN CONJUNCTION WITH HAZARD REGISTER DOC. REF: HE551489-GTY-GHS-000-HS-ZZ-30001.

HAZARD REF	BRIEF HAZARD DESCRIPTION
F01	WORKING NEAR WATER
F03	EXISTING UNDERGROUND SERVICE UTILITIES
F04	WORKING ON TOP OF AN EMBANKMENT

EFH/EFB/EFD/EFH 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



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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-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 HORSEAWING 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	B&T MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
LE1.1 AMENITY GRASS AREAS	B&T 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 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, G&A BOLT.
LE2.3 SHRUBS	
LE4.3 NATIVE SPECIES HEDGEROWS	
LE4.4 NATIVE HEDGEROWS WITH TREES	

P01	26/02/21	P01		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
P06	14/12/21	DEADLINE 6 ISSUE		LS	JMee	BArt
C04	14/12/21	DEADLINE 6 ISSUE		LS	JMee	BArt
REV	DATE	REVISION NOTE		ORG	CHK'D	APP'D

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**

SUITABILITY

**AUTHORISED AS STAGE 3 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A3	C04

DRAWING NUMBER

**HE551489-GTY-ELS-000-DR-LX-30015**

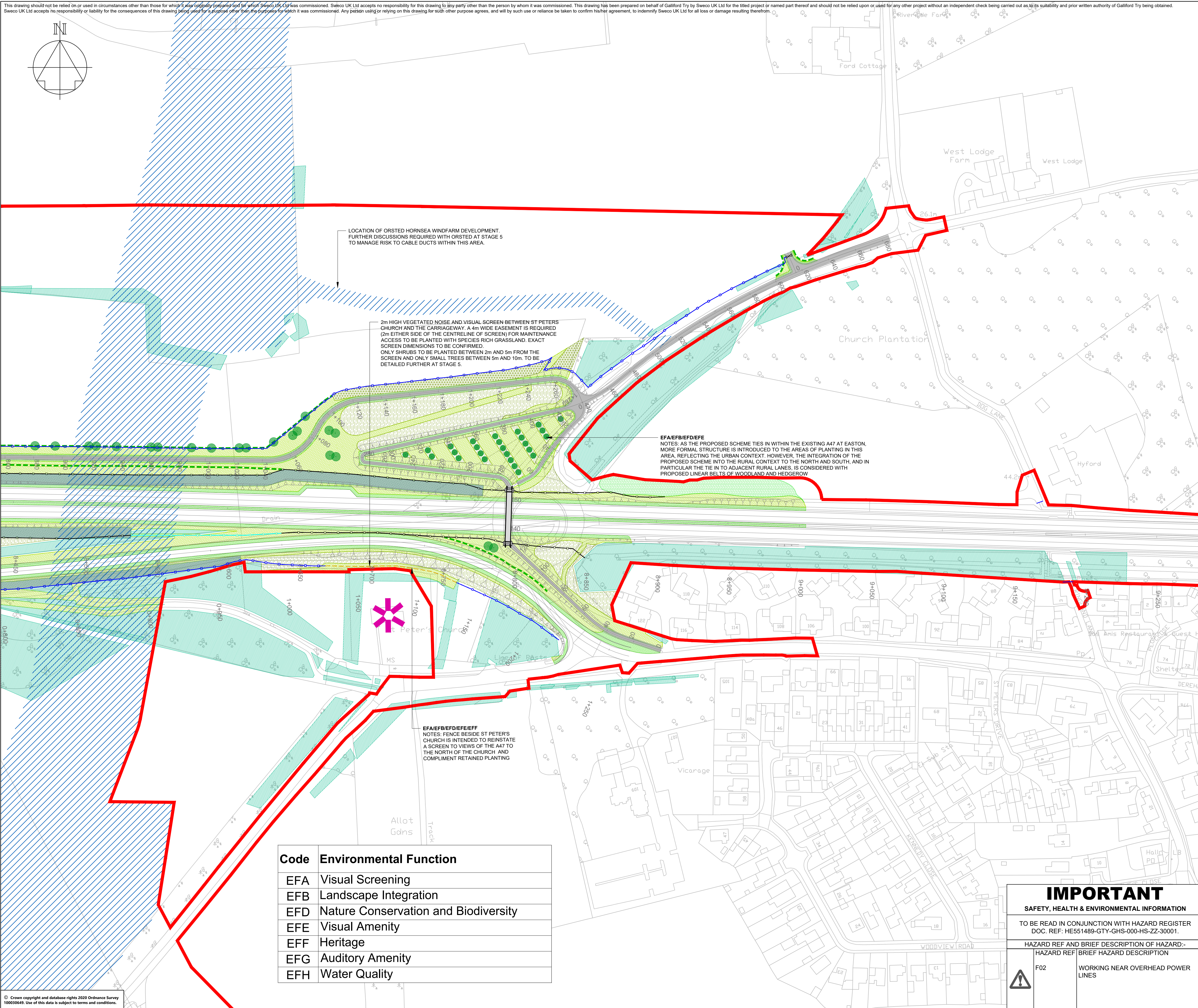
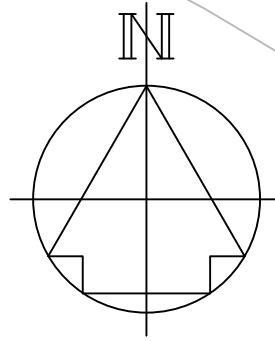
Code	Environmental Function
EFA	Visual Screening
EFB	Landscape Integration
EFD	Nature Conservation and Biodiversity
EFE	Visual Amenity
EFF	Heritage
EFG	Auditory Amenity
EFH	Water Quality

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.

**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





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 PETERS 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
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 STATS 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
    - 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-30015
  - FOR LANDSCAPE ELEMENT CODES REFER TO DMRB LD117 LANDSCAPE DESIGN DOCUMENT.

**KEY TO SYMBOLS**

SYMBOL	DESCRIPTION
[Red outline]	DDO BOUNDARY
[Blue hatched]	ORSTED HORNSEA WIND FARM
[Green hatched]	EXISTING VEGETATION
[Green outline]	PROPOSED VEGETATION TO BE RETAINED
[Blue hatched]	PROPOSED ENVIRONMENTAL ELEMENTS
[Blue hatched]	E2.1 WATER POLLUTION CONTROL MEASURES - ATTENUATION/FILTRATION PONDS
[Blue hatched]	PROPOSED COMPENSATORY FLOOD STORAGE AREA
[Pink star]	LISTED MILESTONE
[Green hatched]	PROPOSED LANDSCAPE ELEMENTS
[Green hatched]	LE1.1 AMENITY GRASS AREAS
[Green hatched]	LE1.3 SPECIES RICH GRASSLAND
[Green hatched]	LE2.1 WOODLAND
[Green hatched]	LE2.1 WOODLAND RIV (RIPARIAN WOODLAND)
[Green hatched]	LE2.4 LINEAR BELTS OF SHRUBS AND TREES
[Green hatched]	LE2.5 SHRUBS WITH INTERMITTENT TREES
[Green hatched]	LE2.6 SHRUBS
[Green hatched]	LE3 NATIVE SPECIES HEDGEROWS
[Green hatched]	LE4.4 NATIVE HEDGEROWS WITH TREES
[Green circle]	LE5.1 INDIVIDUAL TREES
[Green circle]	LE5.1.4 INDIVIDUAL TREES - SMALL TO LARGE SPECIES PLANTED AS EXTRA HEAVY STANDARD SPECIMENS
[Green circle]	LE5.2 BANKS AND DITCHES (RIPARIAN SEEDING MIX)
[Green circle]	PROPOSED ELEMENTS - OTHER
[Green circle]	PROPOSED LIGHTING COLUMN LOCATION
[Black line]	HIGHWAY BOUNDARY - MCHW VOL. 3 SECT. 1 H3 TIMBER POST AND RAIL
[Black line]	MAMMAL FENCING - SPECIFICATION TO BE CONFIRMED
[Black line]	LOCAL AUTHORITY / ACCOMMODATION WORKS FENCING - H3 POST AND STRANDED WIRE
[Black line]	BAT MITIGATION FENCING - SPECIFICATION TO BE CONFIRMED
[Black line]	BAT MITIGATION FENCING ON STRUCTURE - SPECIFICATION TO BE CONFIRMED
[Black line]	2m HIGH NOISE AND VISUAL SCREEN
[Black line]	3m HIGH NOISE BARRIER
[Black line]	BASEIN FENCING - MCHW HCD H3 POST AND STRANDED WIRE
[Black line]	ANTI GLARE SCREEN - 2m HIGH CLOSE BOARDED FENCE
[Black line]	FIELD ACCESS GATE - MCHW VOL.3 SECT.1 H7 STEEL SINGLE FIELD GATE
[Black line]	4.5m WIDE SINGLE HEAVY DUTY TIMBER PALISADE GATE. GATE SHALL BE LOCKABLE AND SHALL HAVE HEAVY DUTY DROP BOLT.

REV	DATE	REVISION NOTE	ORG	CHKD	APPD
P01	26/02/21	P01	LS	ECoo	BJon
P02	03/03/21	FINAL	SWI	ECoo	BJon
C01	03/03/21	FINAL	SWI	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
P06	25/01/22	DEADLINE 8 UPDATE	JL	MR	MR
C04	25/01/22	DEADLINE 8 UPDATE	JL	MR	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**

**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

SUITABILITY

**AUTHORISED AS STAGE 4 COMPLETED**

SHEET SIZE	SCALE	STATUS	REVISION
A1	1:1250	A4	C04

DRAWING NUMBER

**HE551489-GTY-ELS-000-DR-LX-30016**