

A12 Chelmsford to A120 widening scheme

TR010060

6.3 ENVIRONMENTAL STATEMENT

APPENDIX 14.5 FLOOD RISK ASSESSMENT

– ANNEX E BASELINE FLUVIAL FLOOD RISK

APFP Regulation 5(2)(e)

Planning Act 2008

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

Volume 6

August 2022

Infrastructure Planning

Planning Act 2008

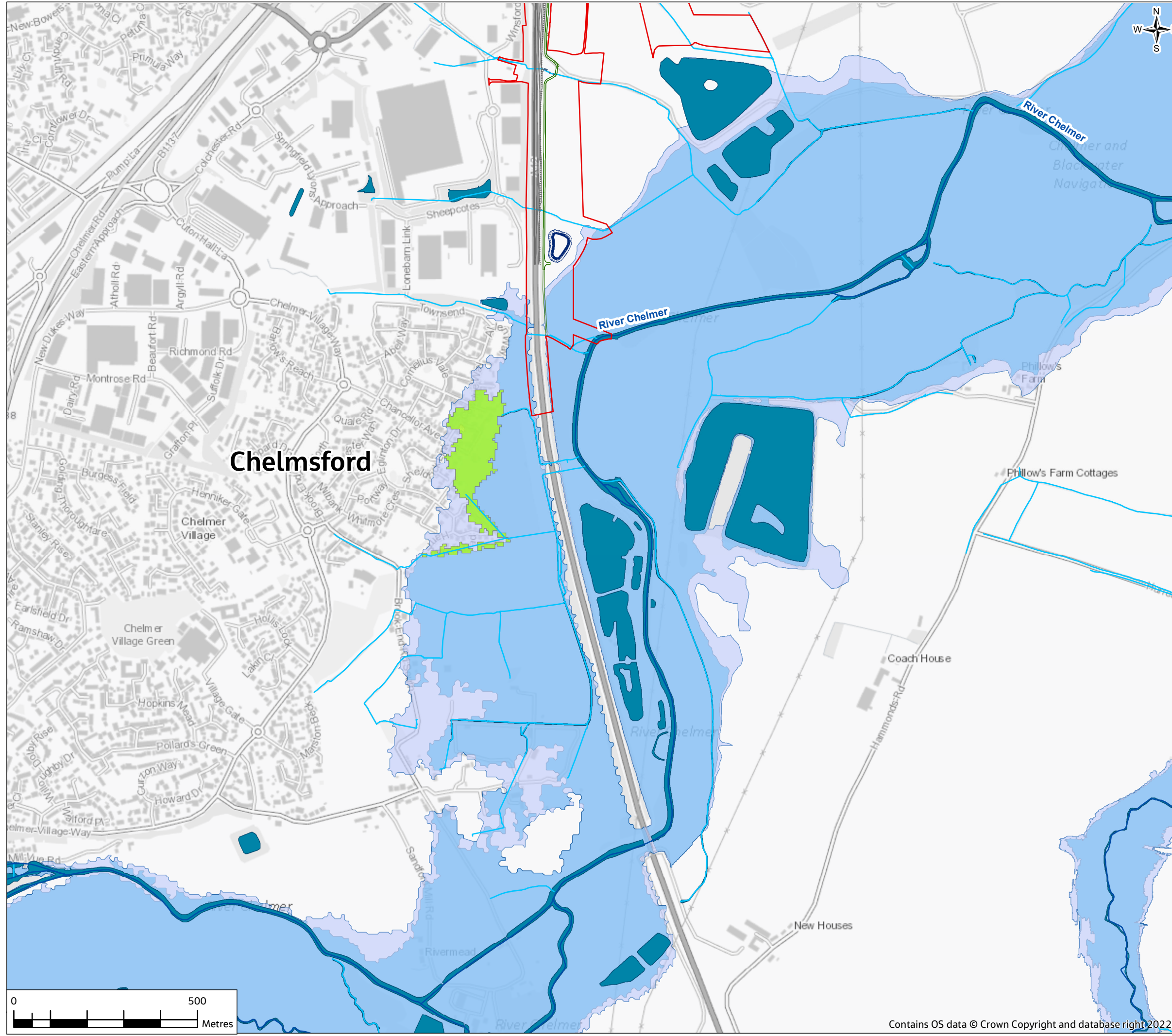
A12 Chelmsford to A120 widening scheme
Development Consent Order 202[]

ENVIRONMENTAL STATEMENT
APPENDIX 14.5 FLOOD RISK ASSESSMENT – ANNEX E BASELINE
FLUVIAL FLOOD RISK

Regulation Reference	Regulation 5(2)(e)
Planning Inspectorate Scheme Reference	TR010060
Application Document Reference	TR010060/APP/6.3
Author	A12 Project Team & National Highways

Version	Date	Status of Version
Rev 1	August 2022	DCO Application

ANNEX E



Legend

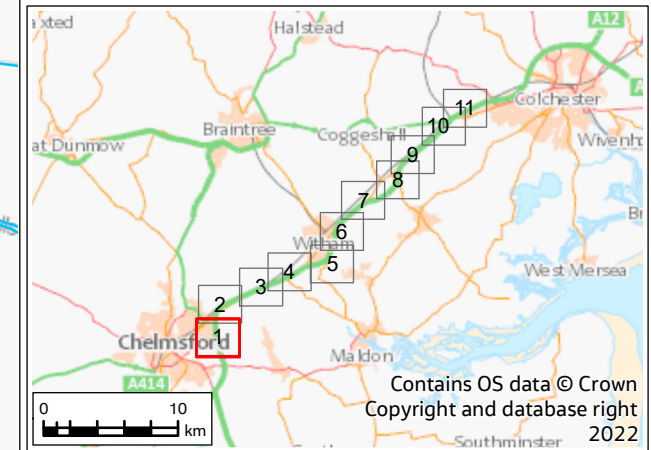
Proposed scheme

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Drainage ponds
- Areas benefiting from flood defences

Water environment

- Main River
- Ordinary Watercourses
- Realigned watercourses
- Existing water features (river, ponds, lakes and reservoirs)
- Flood Map for Planning Flood Zone 2
- Flood Map for Planning Flood Zone 3

Note:
River Chelmer has not been modelled. EA flood zones shown.
**see FRA for details of climate change allowance applied to modelled watercourses



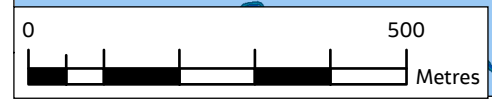
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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TRO10060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			

Client

Project
**REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title
**FLOOD RISK ASSESSMENT ANNEX E
BASELINE FLUVIAL FLOOD RISK
SHEET 1 OF 11**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL	
Scale @ A3	1:10000	DO NOT SCALE
Jacobs No.	B36601D1	Rev P01
Client No.	HE551497	
Drawing Number	HE551497-JAC-LDC-SCHW-SK-GI-0278	



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ANNEX E

Legend

Proposed scheme

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Drainage ponds

Water environment

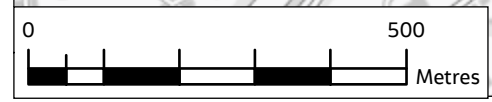
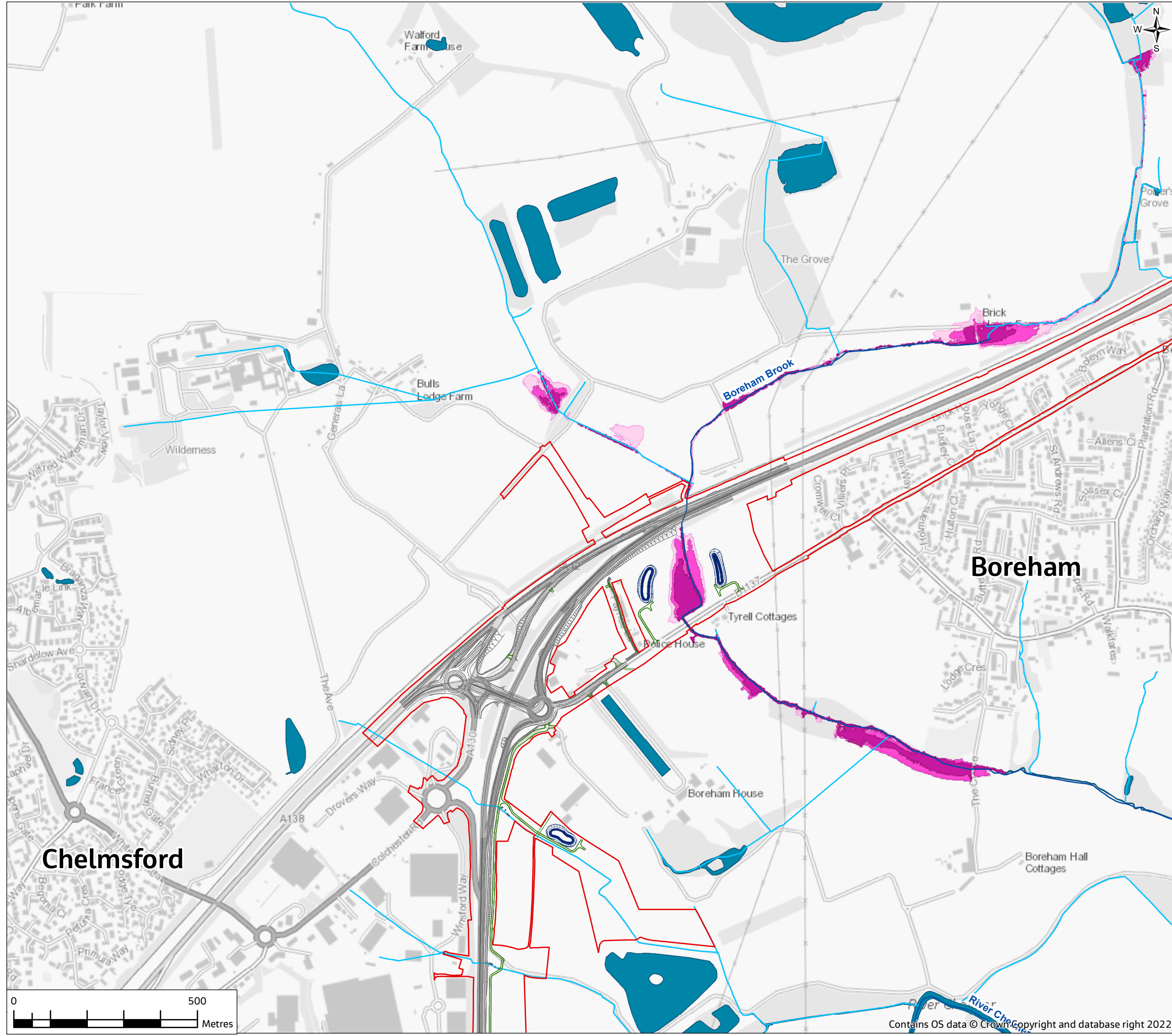
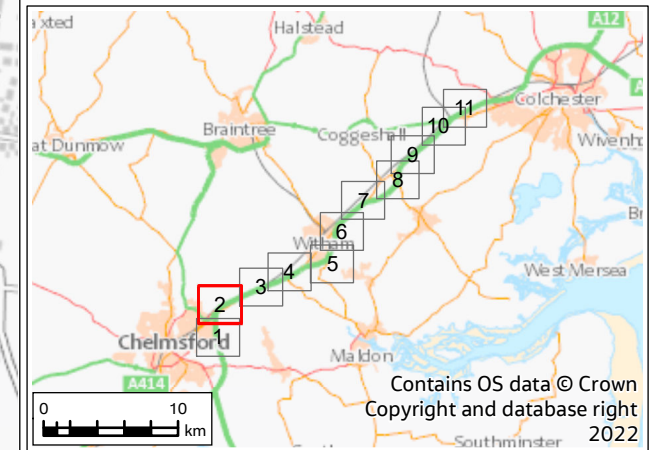
- Main River
- Ordinary Watercourses
- Realigned watercourses

Existing water features (river, ponds, lakes and reservoirs)

Modelled existing fluvial flood

- 1% (1 in 100) AEP plus allowance for climate change**
- 1% (1 in 100) AEP
- 5% (1 in 20) AEP

Note:
River Chelmer has not been modelled. EA flood zones shown.
**see FRA for details of climate change allowance applied to modelled watercourses



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PO1	20/07/22	For DCO application	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			



Project
**REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

Drawing Title
**FLOOD RISK ASSESSMENT ANNEX E
BASELINE FLUVIAL FLOOD RISK
SHEET 2 OF 11**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
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Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-LDC-SCHW-SK-GI-0279		

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ANNEX E

Legend

Proposed scheme

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Drainage ponds

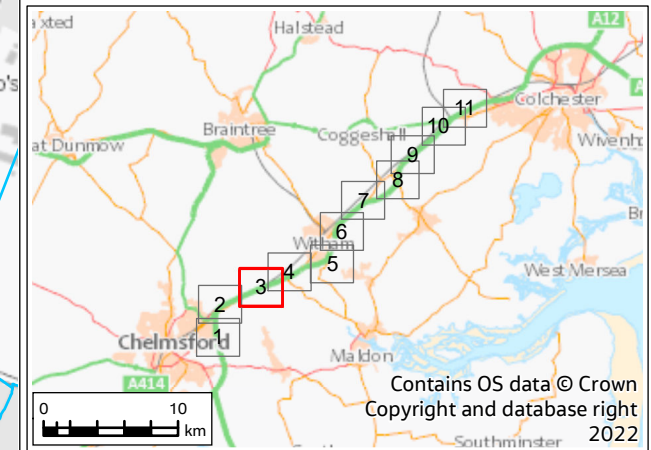
Water environment

- Main River
- Ordinary Watercourses
- Existing water features (river, ponds, lakes and reservoirs)

Modelled existing fluvial flood

- 1% (1 in 100) AEP plus allowance for climate change**
- 1% (1 in 100) AEP
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Note:
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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Development Consent Order Drawing Number: TR010060/APP/6.3
APPP Regulation: Regulation 5(2)(e)



Client: **REGIONAL DELIVERY PARTNERSHIP**
A12 CHELMSFORD TO A120 WIDENING SCHEME

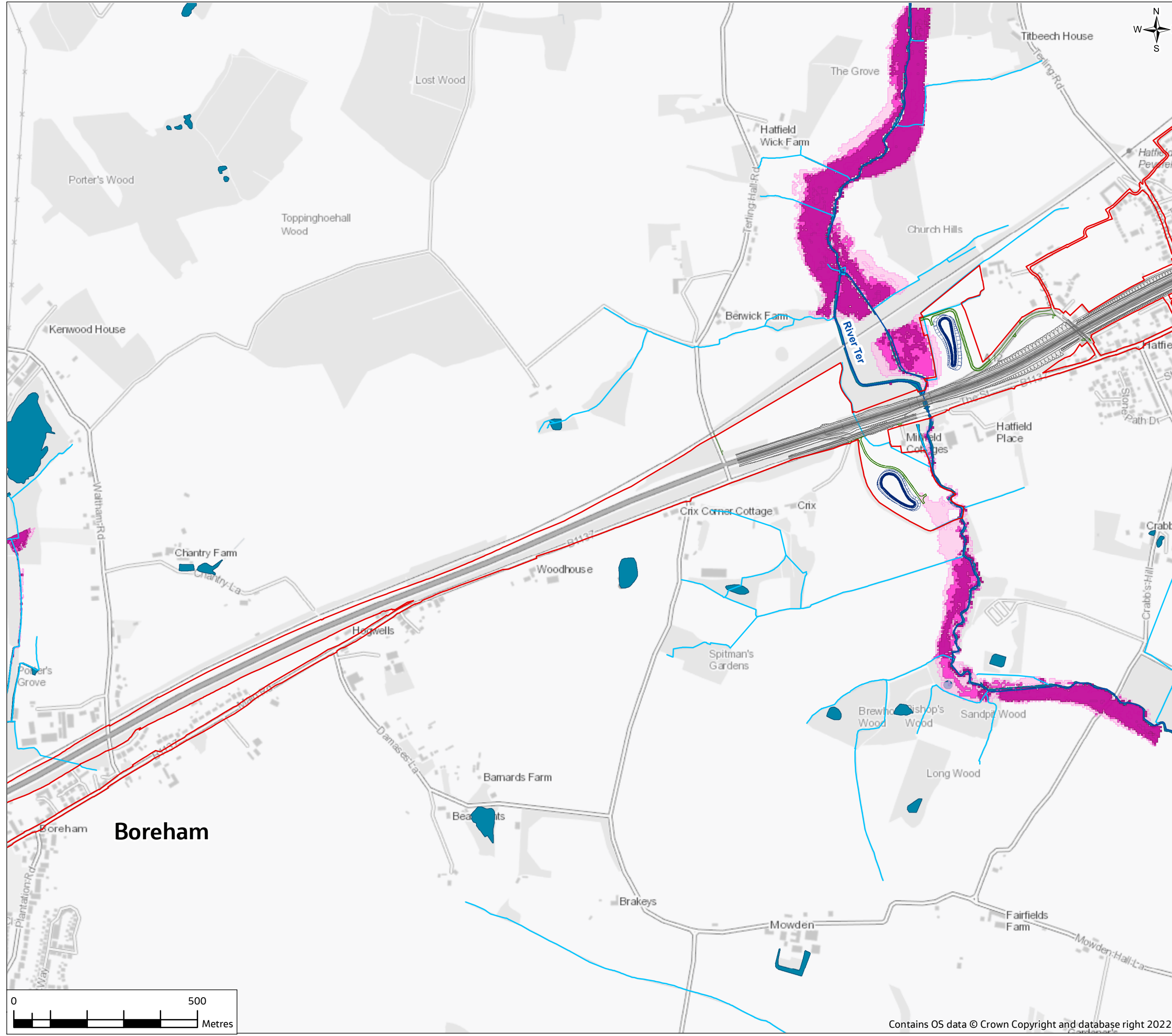
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BASELINE FLUVIAL FLOOD RISK
SHEET 3 OF 11

Drawing Status: **S4 - SUITABLE FOR STAGE APPROVAL**

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Client No.	HE551497	

Drawing Number: **HE551497-JAC-LDC-SCHW-SK-GI-0280**

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ANNEX E

Legend

Proposed scheme

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Drainage ponds
- Flood mitigation area

Water environment

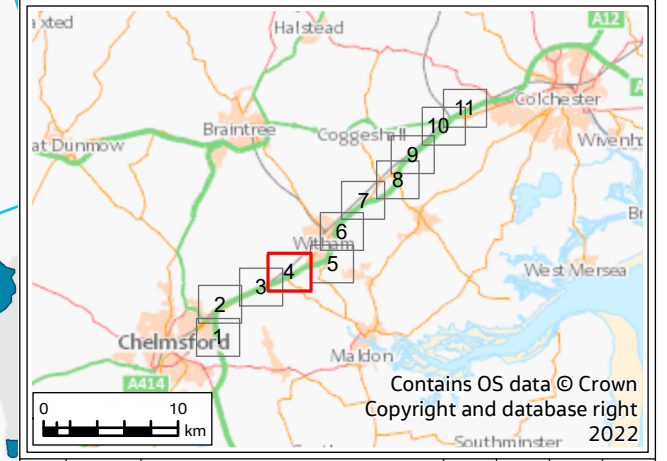
- Main River
- Ordinary Watercourses
- Abandoned watercourses
- Realigned watercourses

Existing water features (river, ponds, lakes and reservoirs)

Modelled existing fluvial flood

- 1% (1 in 100) AEP plus allowance for climate change**
- 1% (1 in 100) AEP
- 5% (1 in 20) AEP

Note:
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PO1	20/07/22	For DCO application	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			

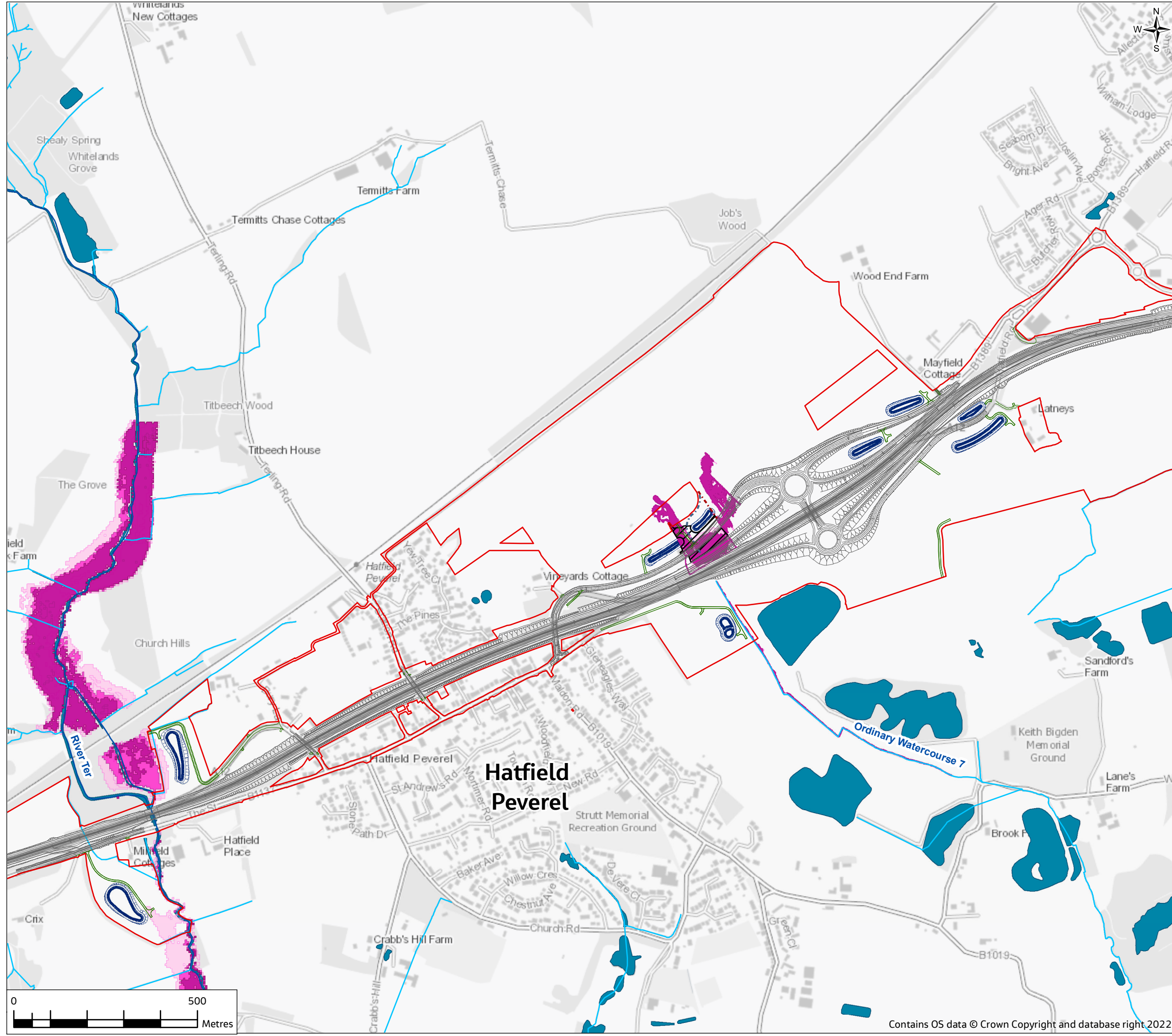


Client: **REGIONAL DELIVERY PARTNERSHIP**
A12 CHELMSFORD TO A120 WIDENING SCHEME

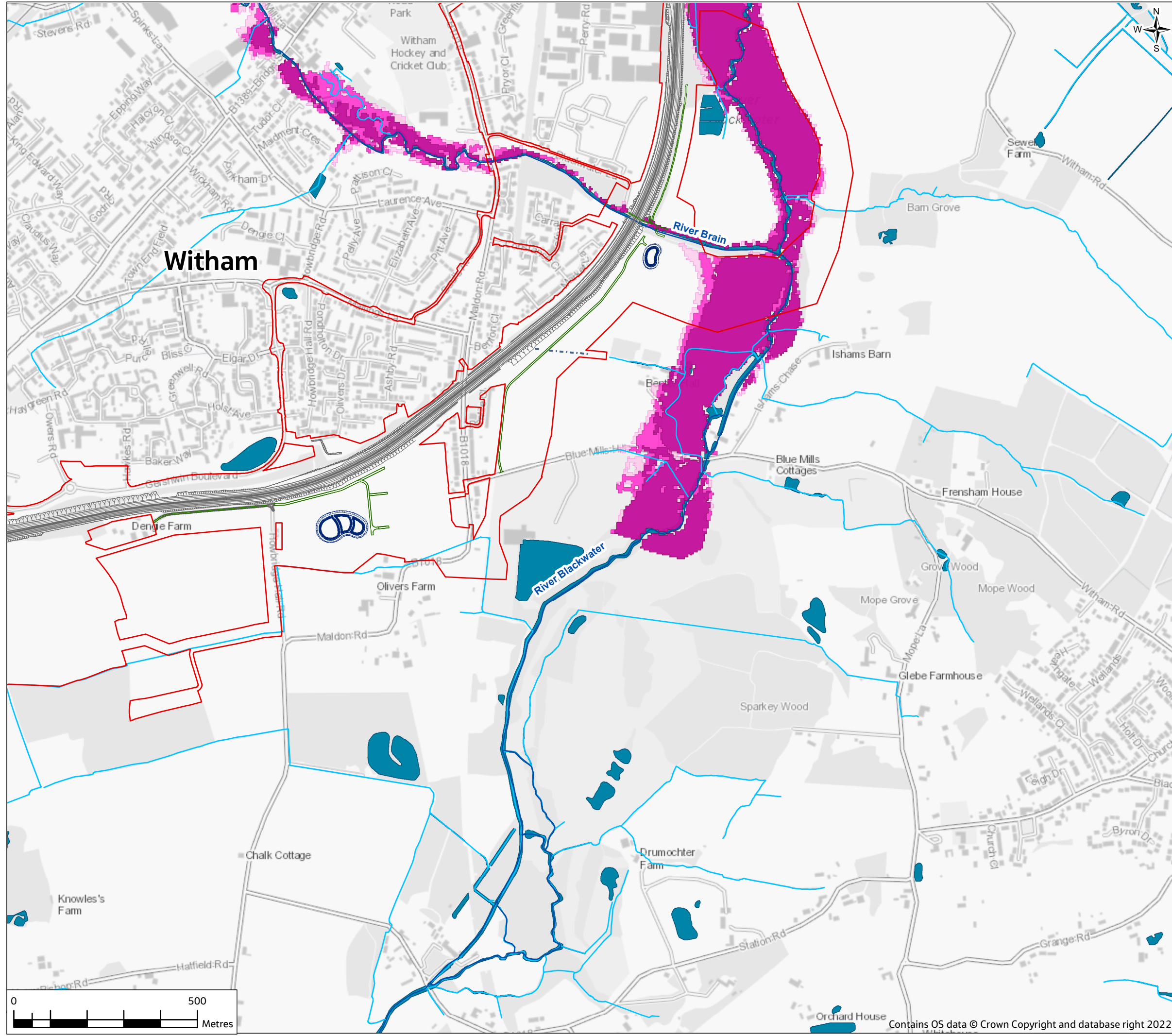
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BASELINE FLUVIAL FLOOD RISK
SHEET 4 OF 11

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
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Jacobs No.	B36601D1	Rev	P01
Client No.	HE551497		
Drawing Number	HE551497-JAC-LDC-SCHW-SK-GI-0281		

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ANNEX E



Legend

Proposed scheme

- Order Limits
- Scheme
- Private means of access and pond access tracks
- Drainage ponds

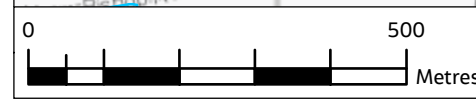
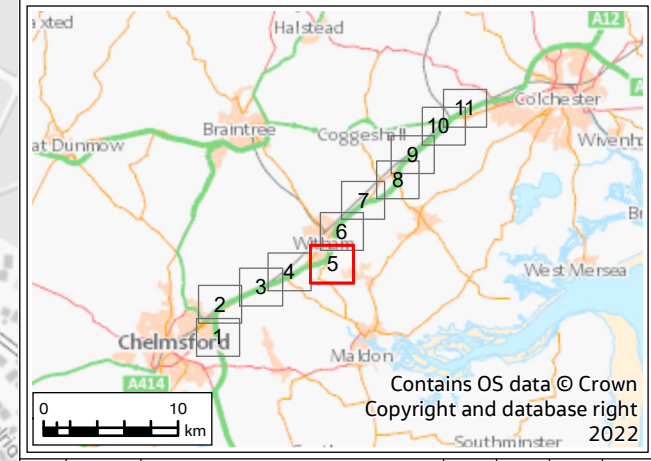
Water environment


- Main River
- Ordinary Watercourses
- Realigned watercourses
- Existing water features (river, ponds, lakes and reservoirs)

Modelled existing fluvial flood

- 1% (1 in 100) AEP plus allowance for climate change**
- 1% (1 in 100) AEP
- 5% (1 in 20) AEP

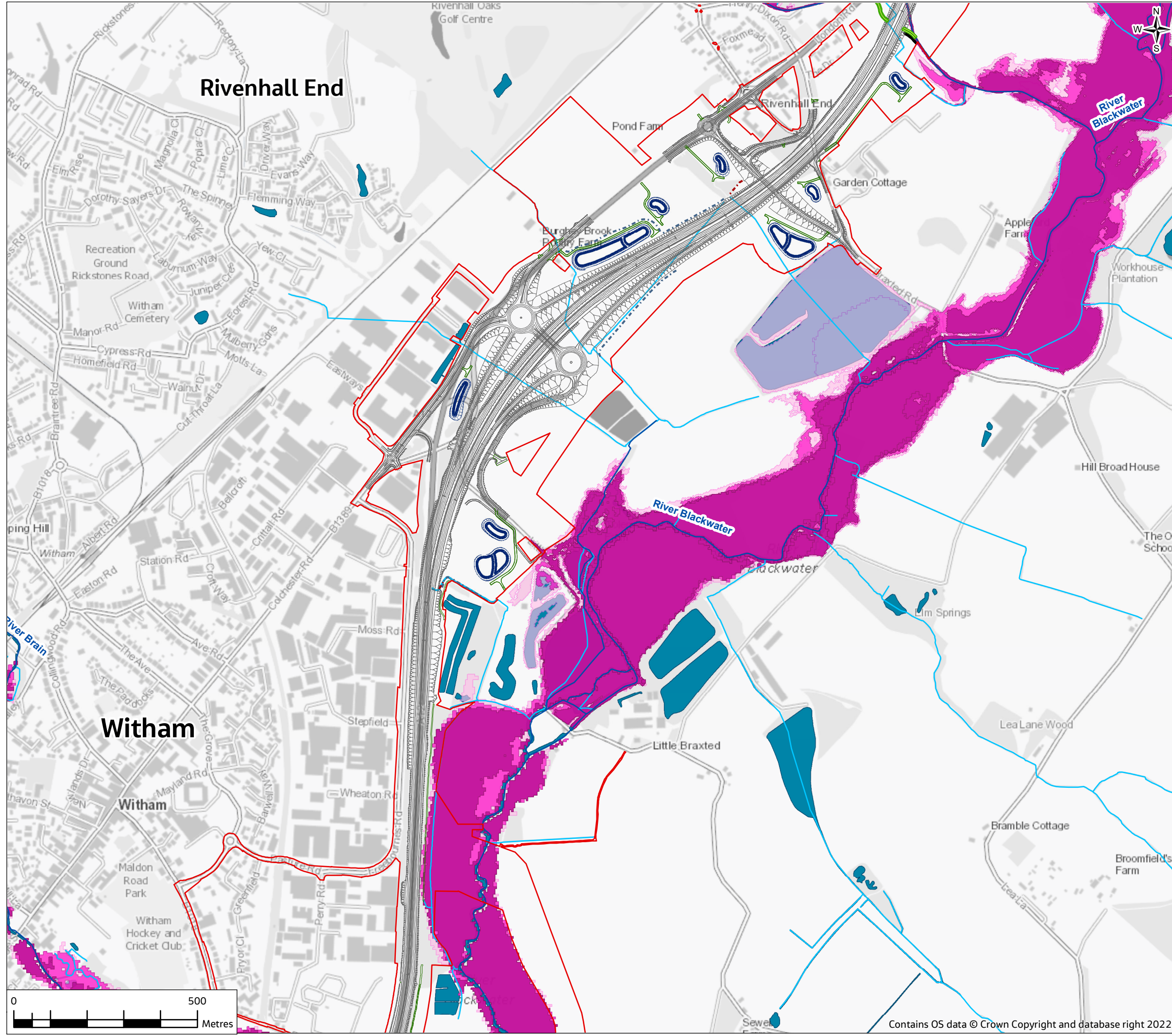
Note:
 River Chelmer has not been modelled. EA flood zones shown.
 **see FRA for details of climate change allowance applied to modelled watercourses



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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			
						
Project REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title FLOOD RISK ASSESSMENT ANNEX E BASELINE FLUVIAL FLOOD RISK SHEET 5 OF 11						
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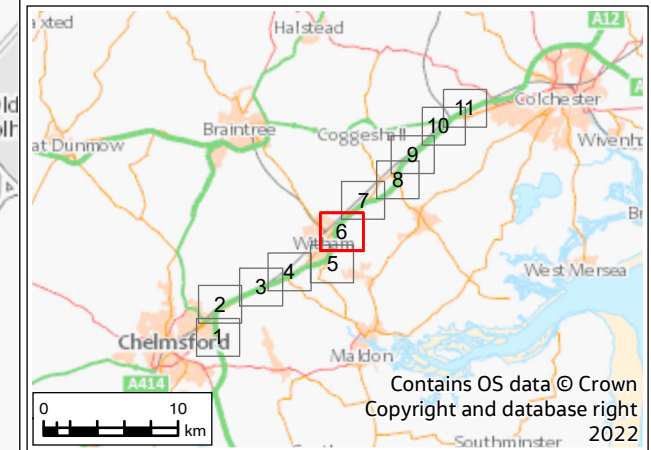
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ANNEX E



- Legend**
- Proposed scheme**
 - Order Limits
 - Scheme
 - Flood bund
 - River diversion
 - Private means of access and pond access tracks
 - Drainage ponds
 - Water environment**
 - Main River
 - Ordinary Watercourses
 - Abandoned watercourses
 - Realigned watercourses
 - Existing water features (river, ponds, lakes and reservoirs)
 - Modelled existing fluvial flood**
 - 1% (1 in 100) AEP plus allowance for climate change**
 - 1% (1 in 100) AEP

Note:
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P01	20/07/22	For DCO application	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TR010060/APP/6.3			APFF Regulation: Regulation 5(2)(e)			



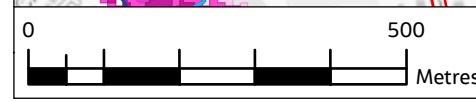
Client
national highways

Project
REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title
FLOOD RISK ASSESSMENT ANNEX E
BASELINE FLUVIAL FLOOD RISK
SHEET 6 OF 11

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL	
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Drawing Number	HE551497-JAC-LDC-SCHW-SK-GI-0283	

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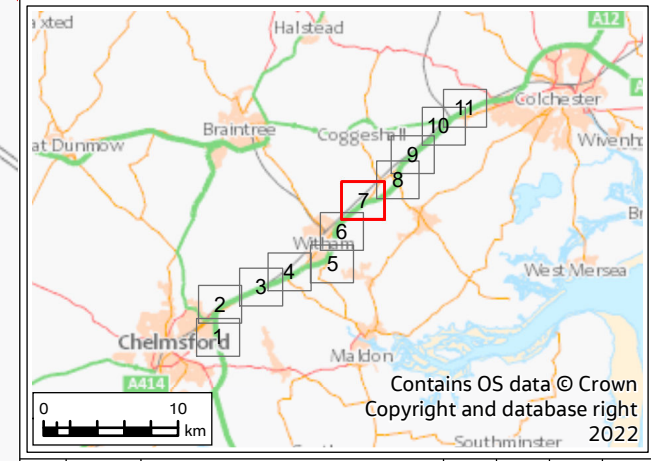
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ANNEX E

Legend

- Proposed scheme**
- Order Limits
- Scheme
- Flood bund
- River diversion
- Private means of access and pond access tracks
- Drainage ponds
- Flood mitigation area
- Water environment**
- Main River
- Ordinary Watercourses
- Abandoned watercourses
- Realigned watercourses
- Existing water features (river, ponds, lakes and reservoirs)
- Modelled existing fluvial flood**
- 1% (1 in 100) AEP
- 5% (1 in 20) AEP

Note:
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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Development Consent Order Drawing Number: TR010060/APP/6.3
APFP Regulation: Regulation 5(2)(e)



Client: **national highways**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

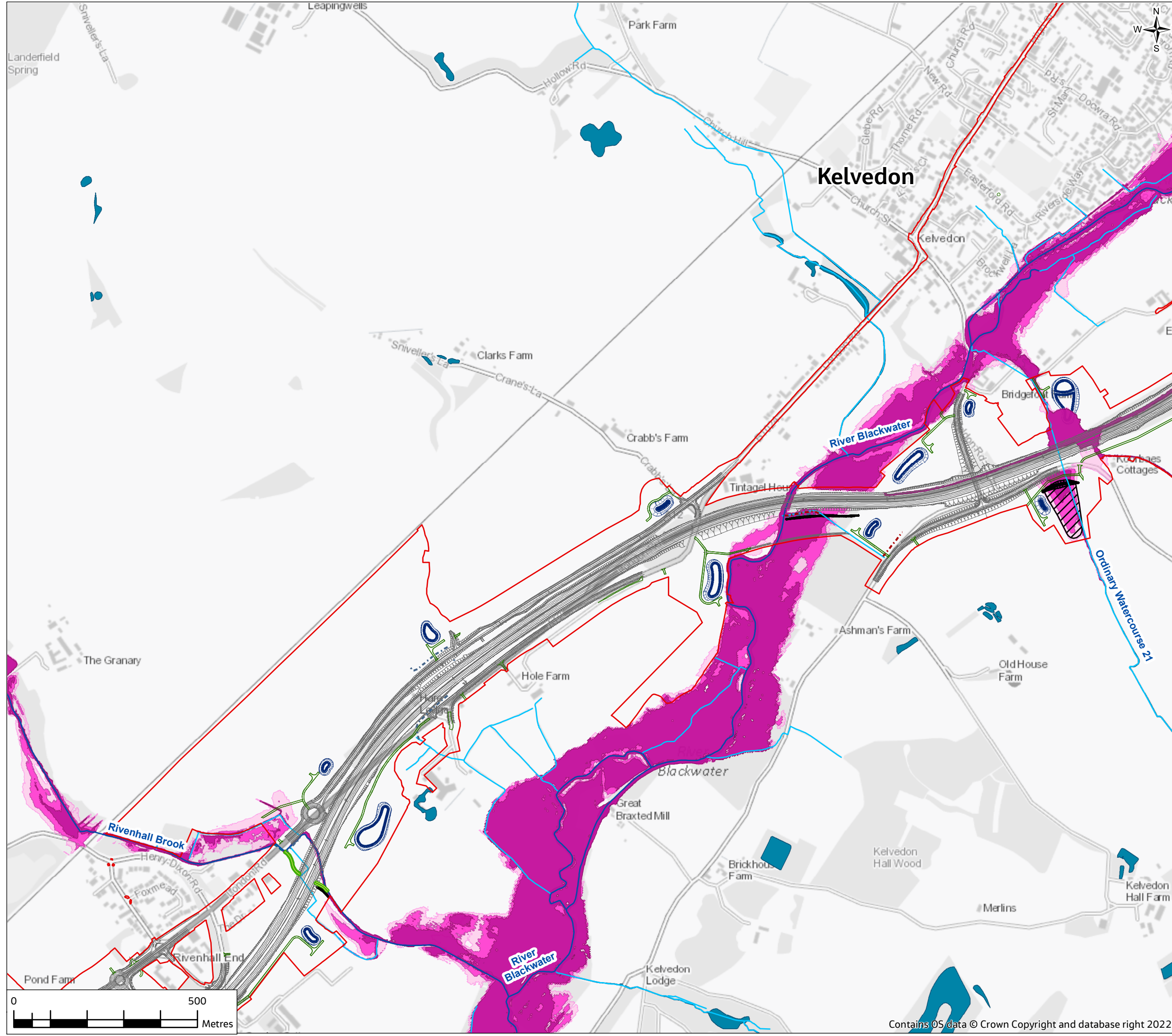
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BASELINE FLUVIAL FLOOD RISK
SHEET 7 OF 11

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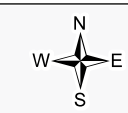
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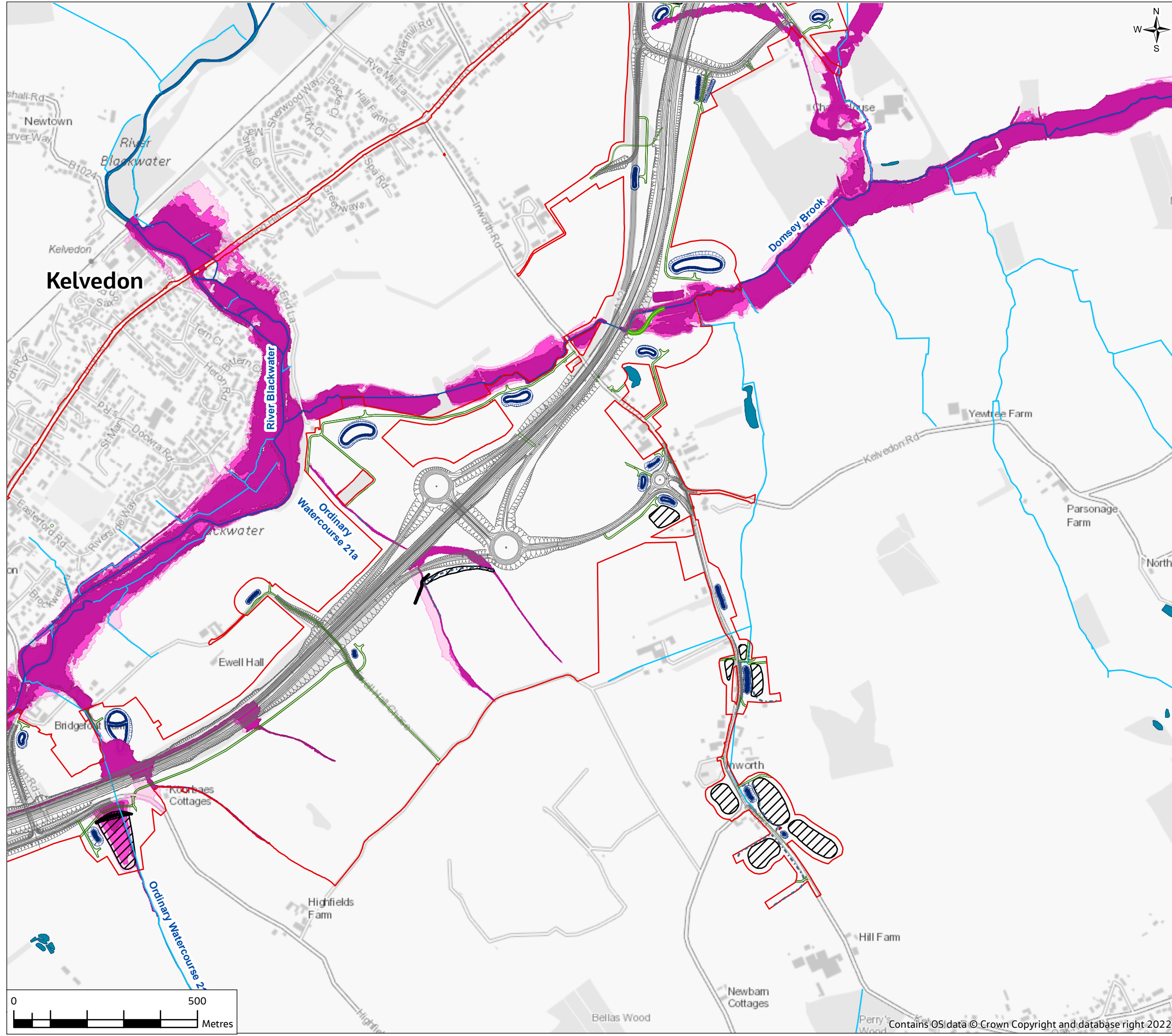
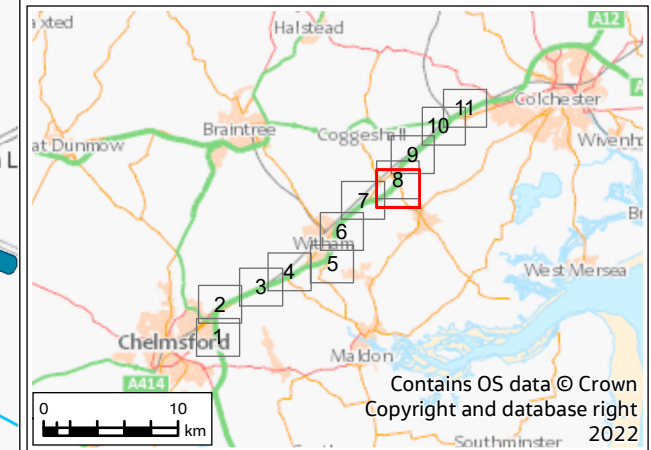
ANNEX E



Legend

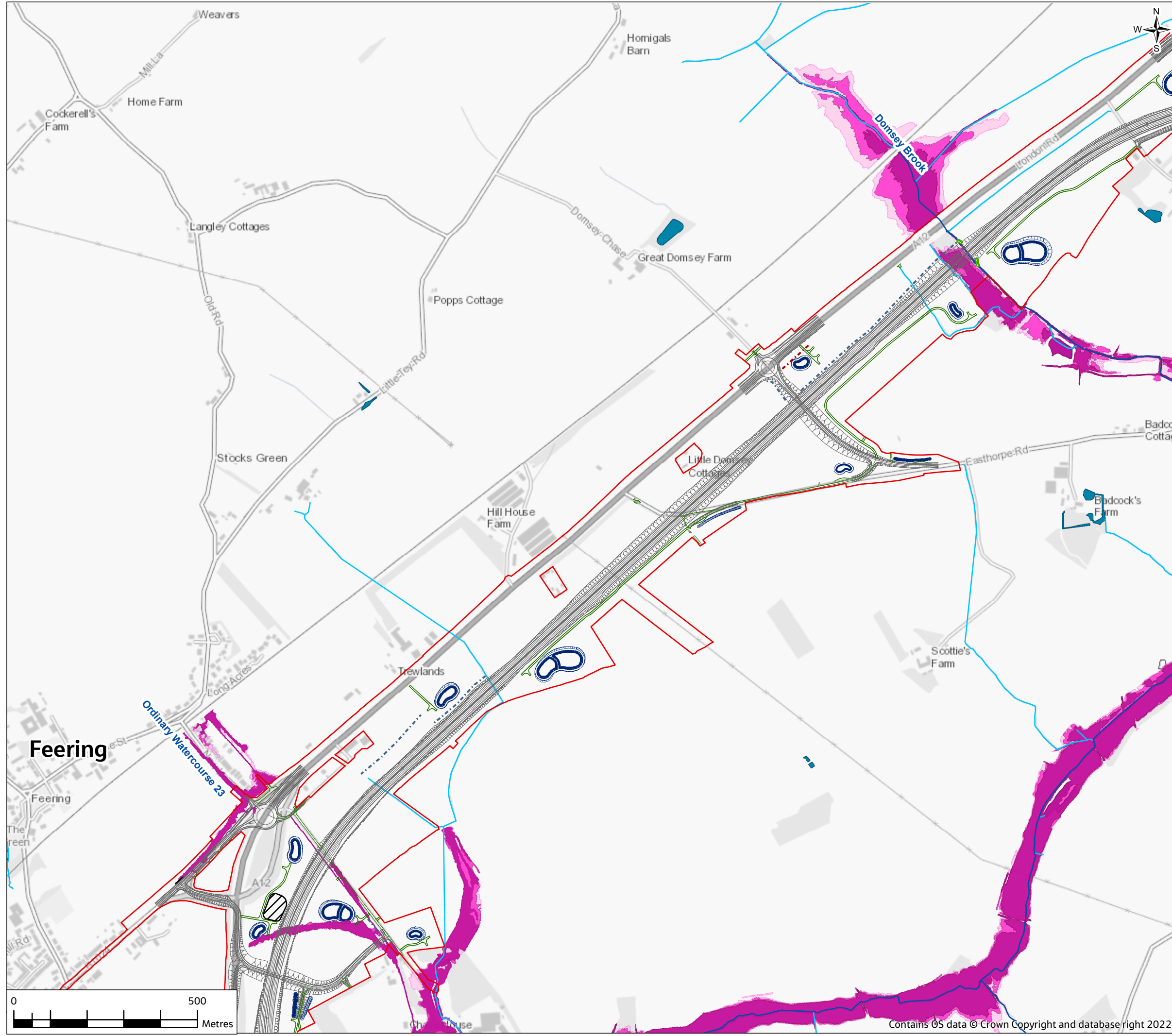
- Proposed scheme**
- Order Limits
- Scheme
- Flood bund
- River diversion
- Private means of access and pond access tracks
- Drainage ponds
- Flood mitigation area
- Water environment**
- Main River
- Ordinary Watercourses
- Abandoned watercourses
- Realigned watercourses
- Existing water features (river, ponds, lakes and reservoirs)
- Modelled existing fluvial flood**
- 1% (1 in 100) AEP plus allowance for climate change**
- 5% (1 in 20) AEP

Note:
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**see FRA for details of climate change allowance applied to modelled watercourses



PO1	20/07/22	For DCO application	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TRO10060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			
Project REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title FLOOD RISK ASSESSMENT ANNEX E BASELINE FLUVIAL FLOOD RISK SHEET 8 OF 11						
Drawing Status S4 - SUITABLE FOR STAGE APPROVAL						
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Drawing Number HE551497-JAC-LDC-SCHW-SK-GI-0285						
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ANNEX E



Legend

Proposed scheme

- Order Limits
- Scheme
- Flood bund
- River diversion
- Private means of access and pond access tracks
- Drainage ponds
- Flood mitigation area

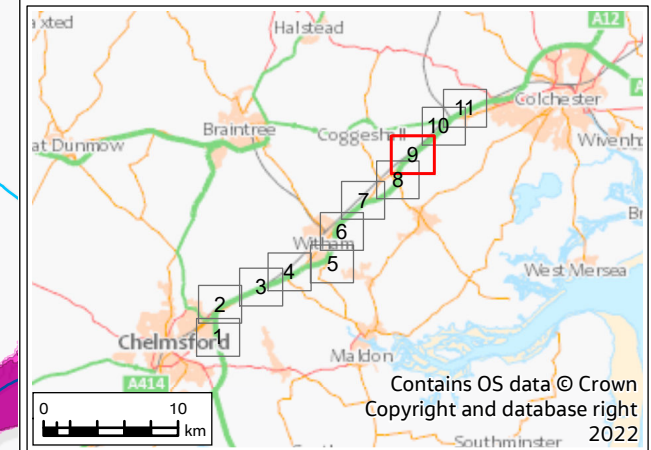
Water environment

- Main River
- Ordinary Watercourses
- Abandoned watercourses
- Realigned watercourses
- Existing water features (river, ponds, lakes and reservoirs)

Modelled existing fluvial flood

- 1% (1 in 100) AEP plus allowance for climate change**

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Client
**REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME**

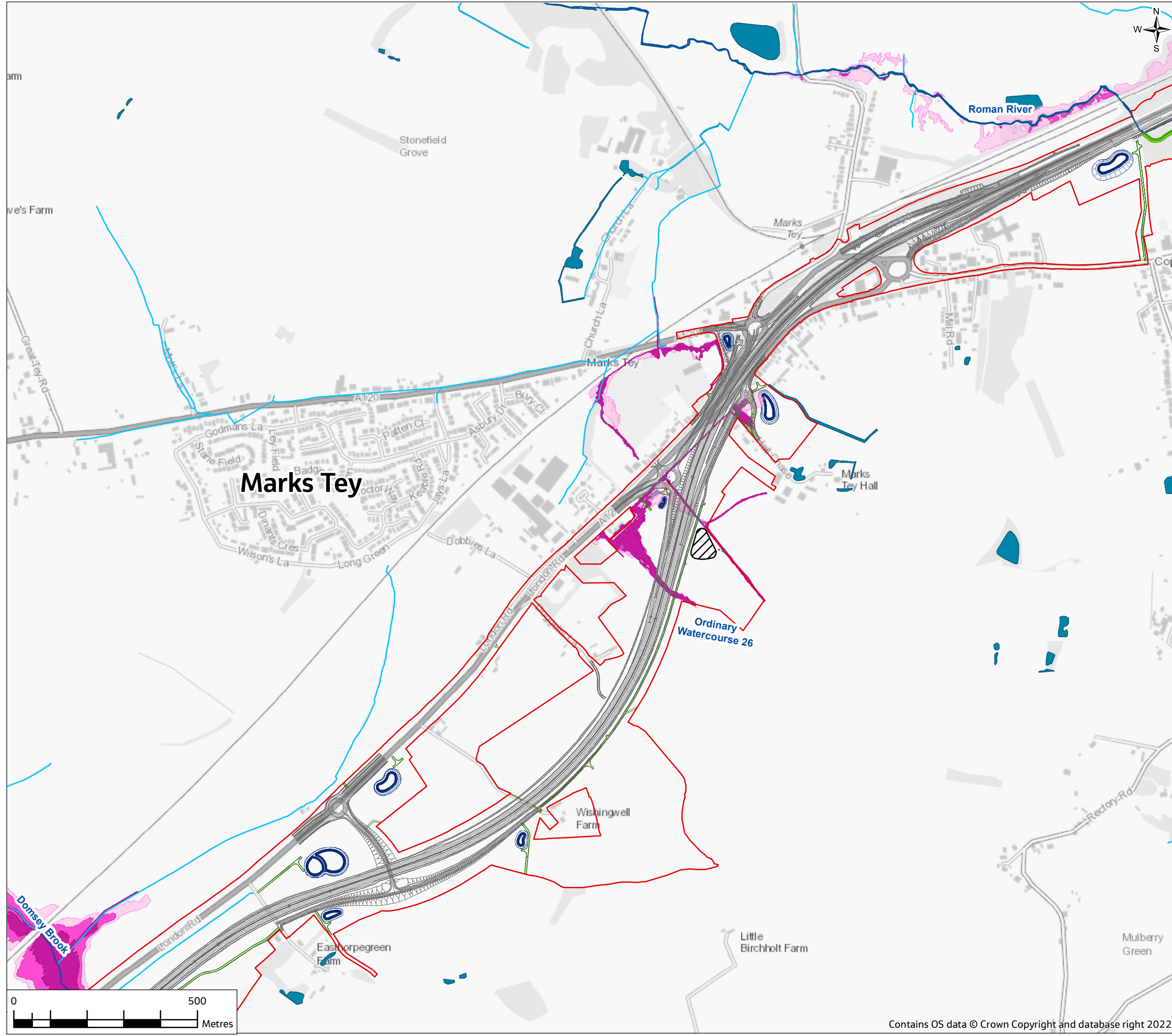
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**FLOOD RISK ASSESSMENT ANNEX E
BASELINE FLUVIAL FLOOD RISK
SHEET 9 OF 11**

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
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Client No.	HE551497		
Drawing Number	HE551497-JAC-LDC-SCHW-SK-GI-0286		

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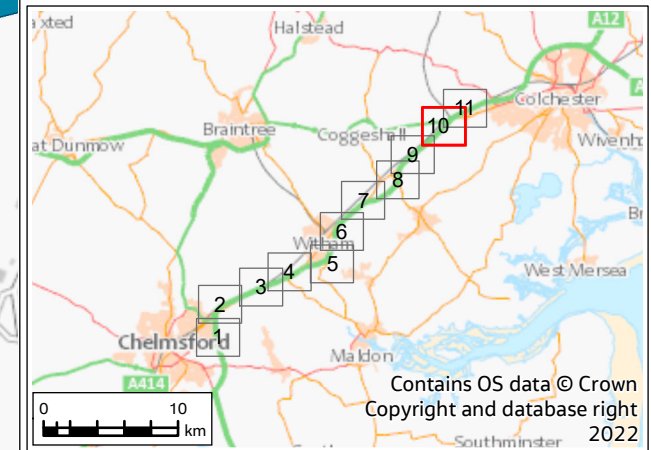


ANNEX E



- Legend**
- Proposed scheme
 - Order Limits
 - Scheme
 - River diversion
 - Private means of access and pond access tracks
 - Drainage ponds
 - Flood mitigation area
 - Water environment**
 - Main River
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Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

Development Consent Order Drawing Number: TRO10060/APP/6.3
APFP Regulation: Regulation 5(2)(e)



Client: **national highways**

Project: REGIONAL DELIVERY PARTNERSHIP
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing Title: FLOOD RISK ASSESSMENT ANNEX E
BASELINE FLUVIAL FLOOD RISK
SHEET 10 OF 11

Drawing Status	S4 - SUITABLE FOR STAGE APPROVAL		
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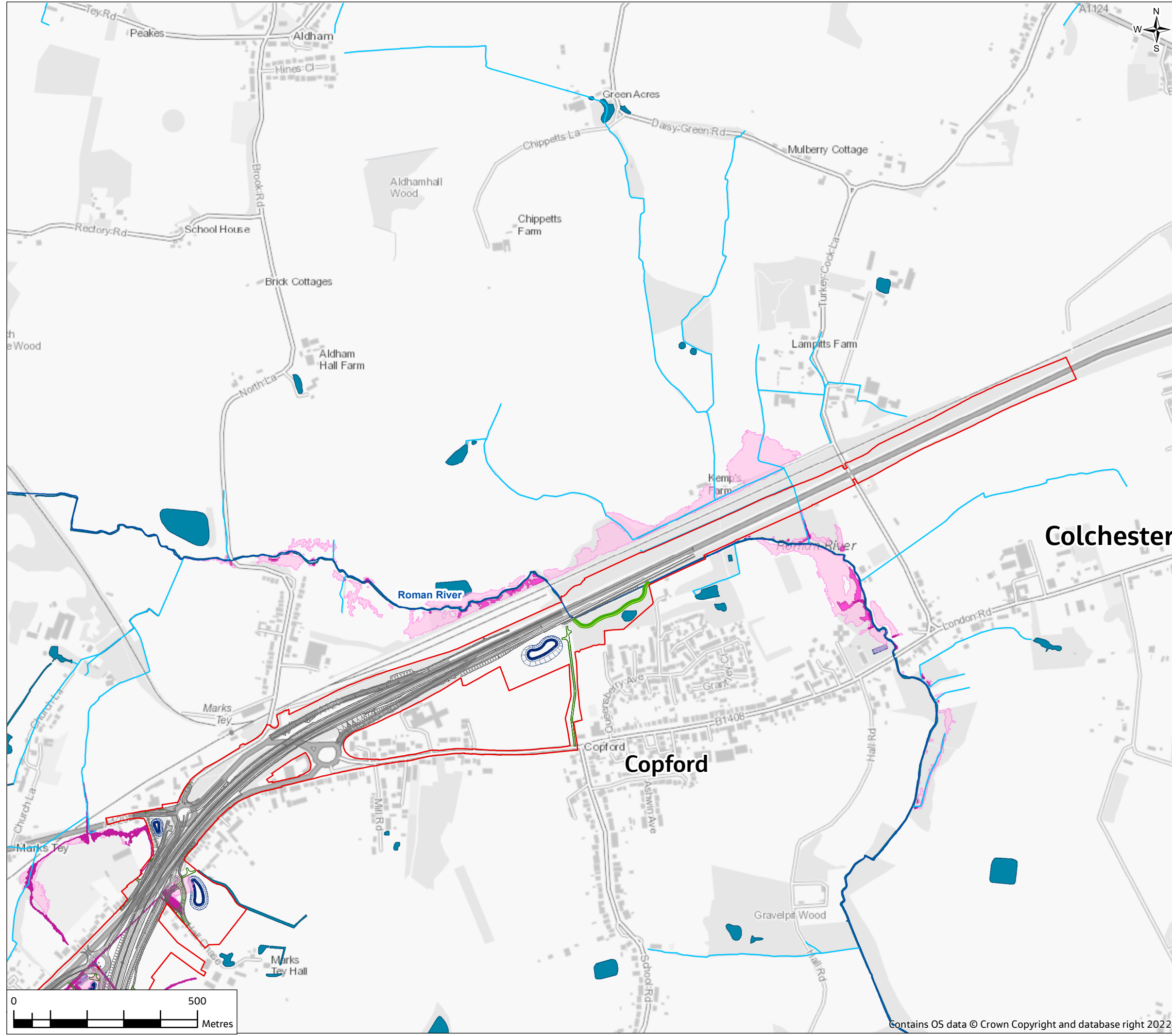
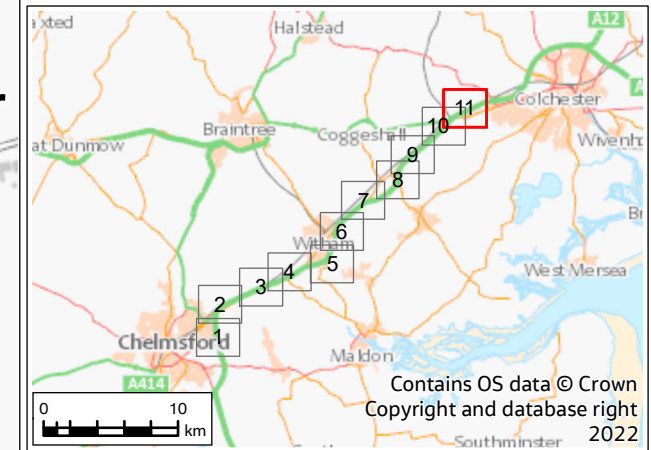
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ANNEX E

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Note:
River Chelmer has not been modelled. EA flood zones shown.
**see FRA for details of climate change allowance applied to modelled watercourses



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PO1	20/07/22	For DCO application	JC	CW	DS	SG
Rev.	Rev. Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd
Development Consent Order Drawing Number: TR010060/APP/6.3			APFP Regulation: Regulation 5(2)(e)			
Project REGIONAL DELIVERY PARTNERSHIP A12 CHELMSFORD TO A120 WIDENING SCHEME						
Drawing Title FLOOD RISK ASSESSMENT ANNEX E BASELINE FLUVIAL FLOOD RISK SHEET 11 OF 11						
Drawing Status						
S4 - SUITABLE FOR STAGE APPROVAL						
Scale @ A3		1:10000		DO NOT SCALE		
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