

A12 Chelmsford to A120 Widening Scheme

TR010060

2.13 DRAINAGE AND SURFACE WATER PLANS PART 2

APFP Regulation 5(2)(o)

Planning Act 2008

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

Volume 2

August 2022

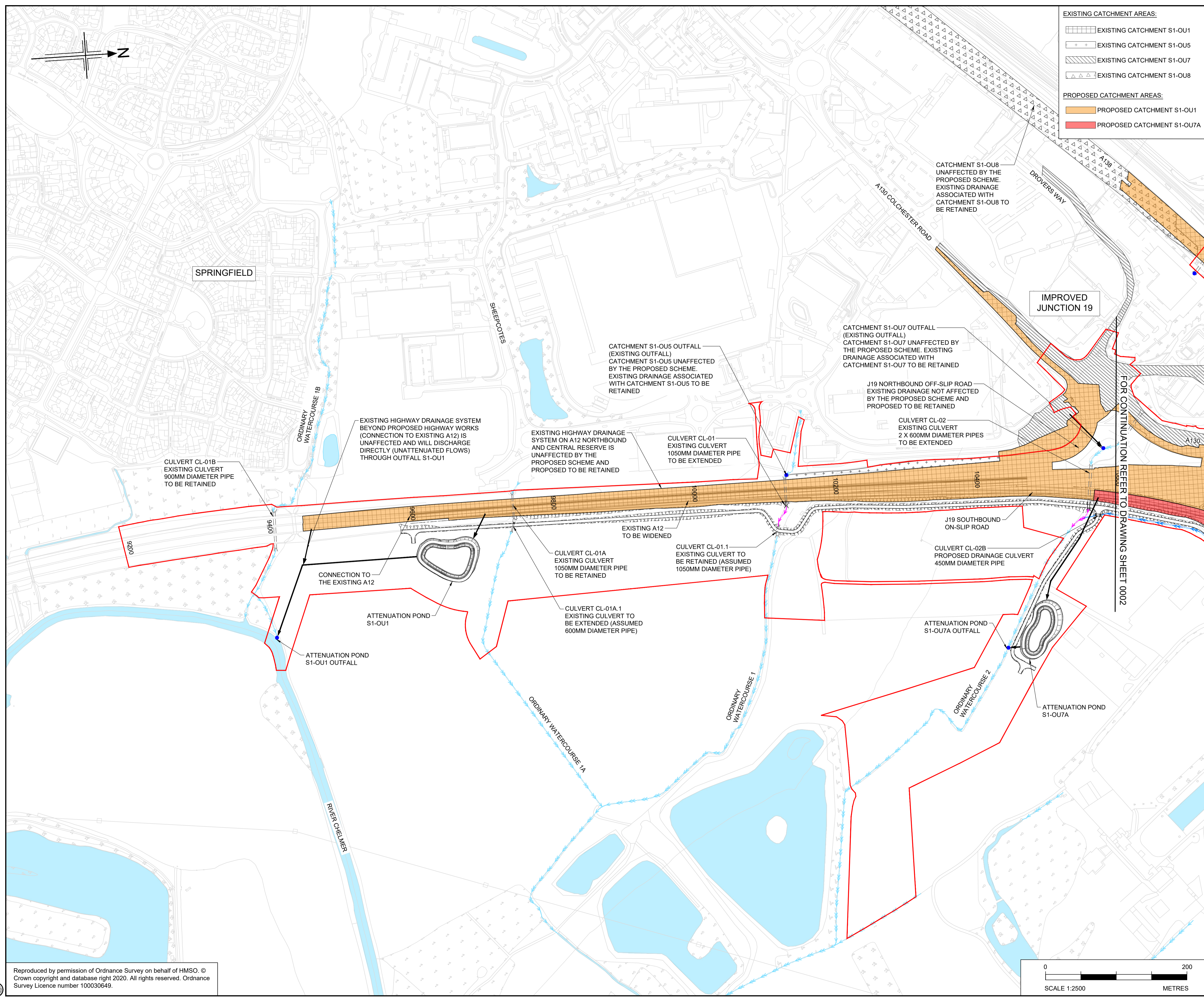
Infrastructure Planning
Planning Act 2008

**A12 Chelmsford to A120 Widening
Scheme**
Development Consent Order 202[]

DRAINAGE AND SURFACE WATER PLANS PART 2

Regulation Number:	Regulation 5(2)(o)
Planning Inspectorate Scheme Reference	TR010060
Plot Application Document Reference	TR010060/APP/2.13
Author	A12 Project Team, National Highways

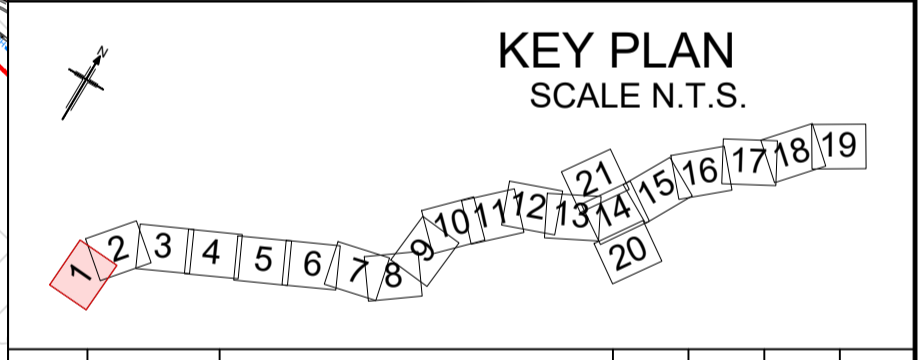
Version	Date	Status of Version
Rev 1	August 2022	DCO Application



- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU1
 - EXISTING CATCHMENT S1-OU5
 - EXISTING CATCHMENT S1-OU7
 - EXISTING CATCHMENT S1-OU8
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU1
 - PROPOSED CATCHMENT S1-OU7A

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13

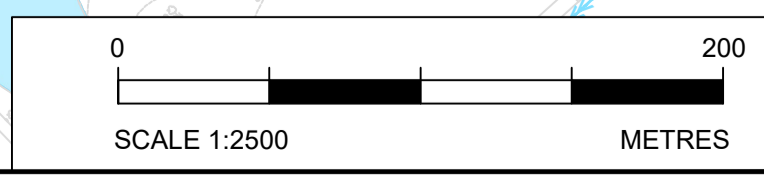


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: DRAINAGE AND SURFACE WATER PLANS SHEET 1 OF 21

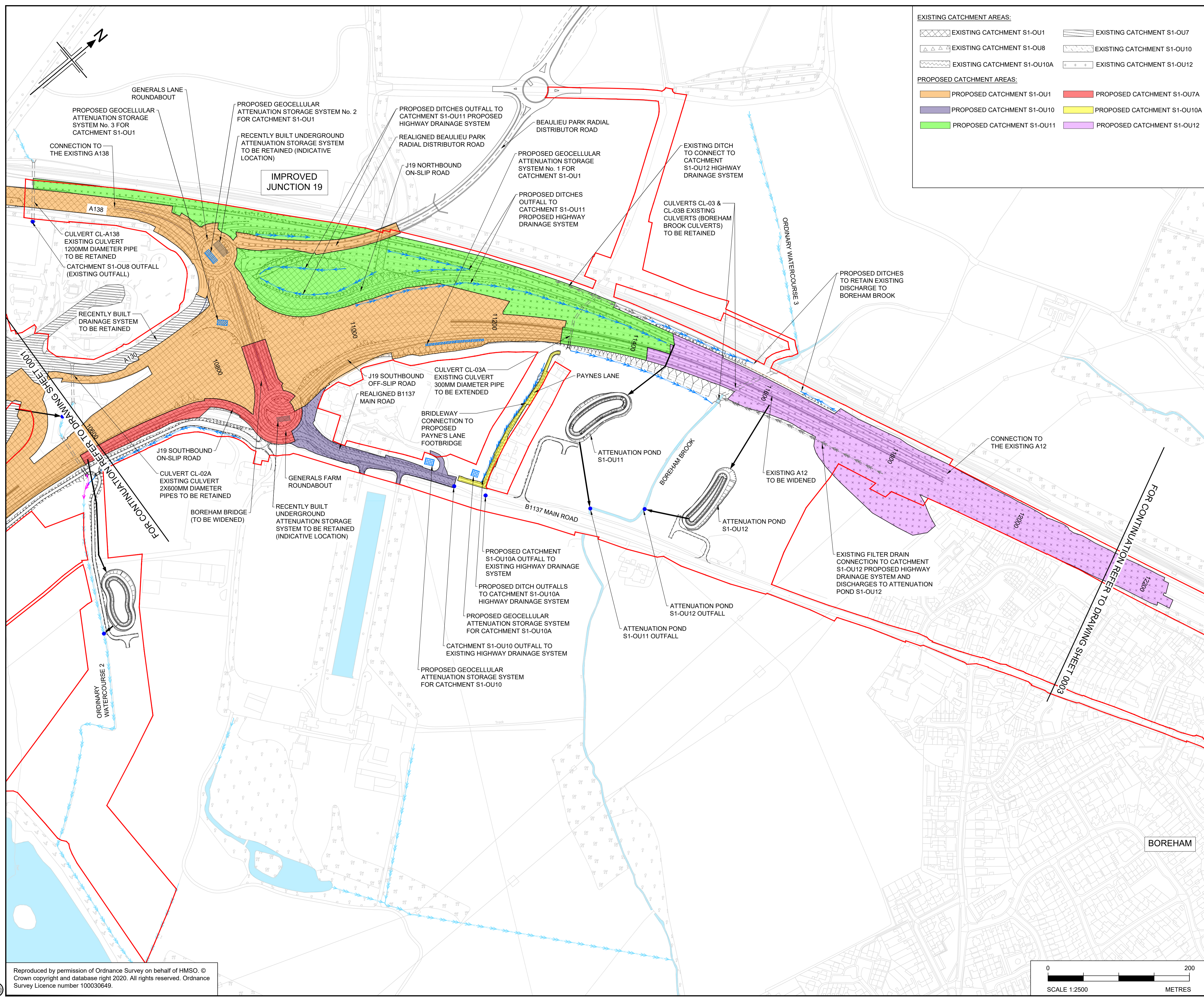
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Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

HE551497 - JAC - LDC - SCHW - DR - D -0801



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EXISTING CATCHMENT AREAS:

- EXISTING CATCHMENT S1-OU1
- EXISTING CATCHMENT S1-OU8
- EXISTING CATCHMENT S1-OU10A
- EXISTING CATCHMENT S1-OU7
- EXISTING CATCHMENT S1-OU10
- EXISTING CATCHMENT S1-OU12

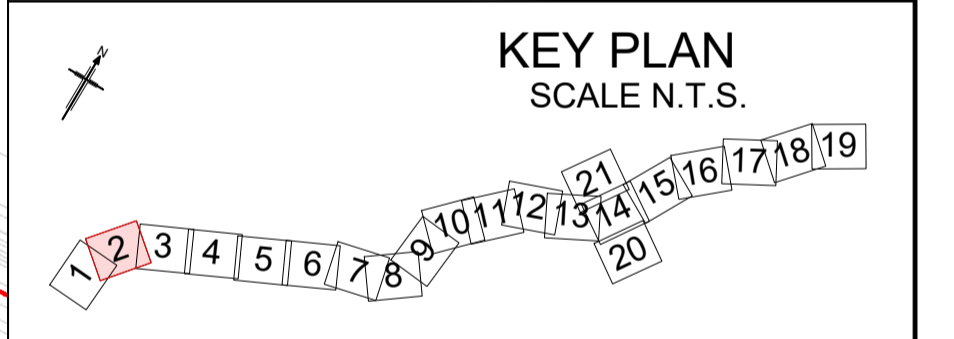
PROPOSED CATCHMENT AREAS:

- PROPOSED CATCHMENT S1-OU1
- PROPOSED CATCHMENT S1-OU10
- PROPOSED CATCHMENT S1-OU11
- PROPOSED CATCHMENT S1-OU7A
- PROPOSED CATCHMENT S1-OU10A
- PROPOSED CATCHMENT S1-OU12

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 - REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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LEGEND

- ORDER LIMITS
- PROPOSED HIGHWAY DRAINAGE OUTFALL
- PROPOSED ATTENUATION POND
- PROPOSED ATTENUATION POND ACCESS TRACK
- PROPOSED GEOCELLULAR ATTENUATION STORAGE
- INDICATIVE OUTFALL ROUTE
- PROPOSED SWALE/VEGETATED DITCH
- PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
- PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
- PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
- PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
- PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
- PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
- EXISTING CULVERT (TO BE RETAINED)
- EXISTING CULVERT (TO BE ABANDONED)
- EXISTING CULVERT (TO BE EXTENDED)
- PROPOSED CULVERT
- MINOR WATERCOURSE (TO BE RETAINED)
- MINOR WATERCOURSE (TO BE ABANDONED)
- MINOR WATERCOURSE (PROPOSED DIVERSION)
- PROPOSED FLOOD BUND
- PROPOSED FLOOD MITIGATION AREA
- EXISTING WATERBODIES/ MAIN RIVER
- PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

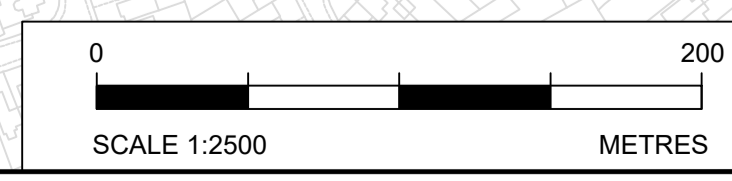
DRAINAGE AND SURFACE WATER PLANS
SHEET 2 OF 21

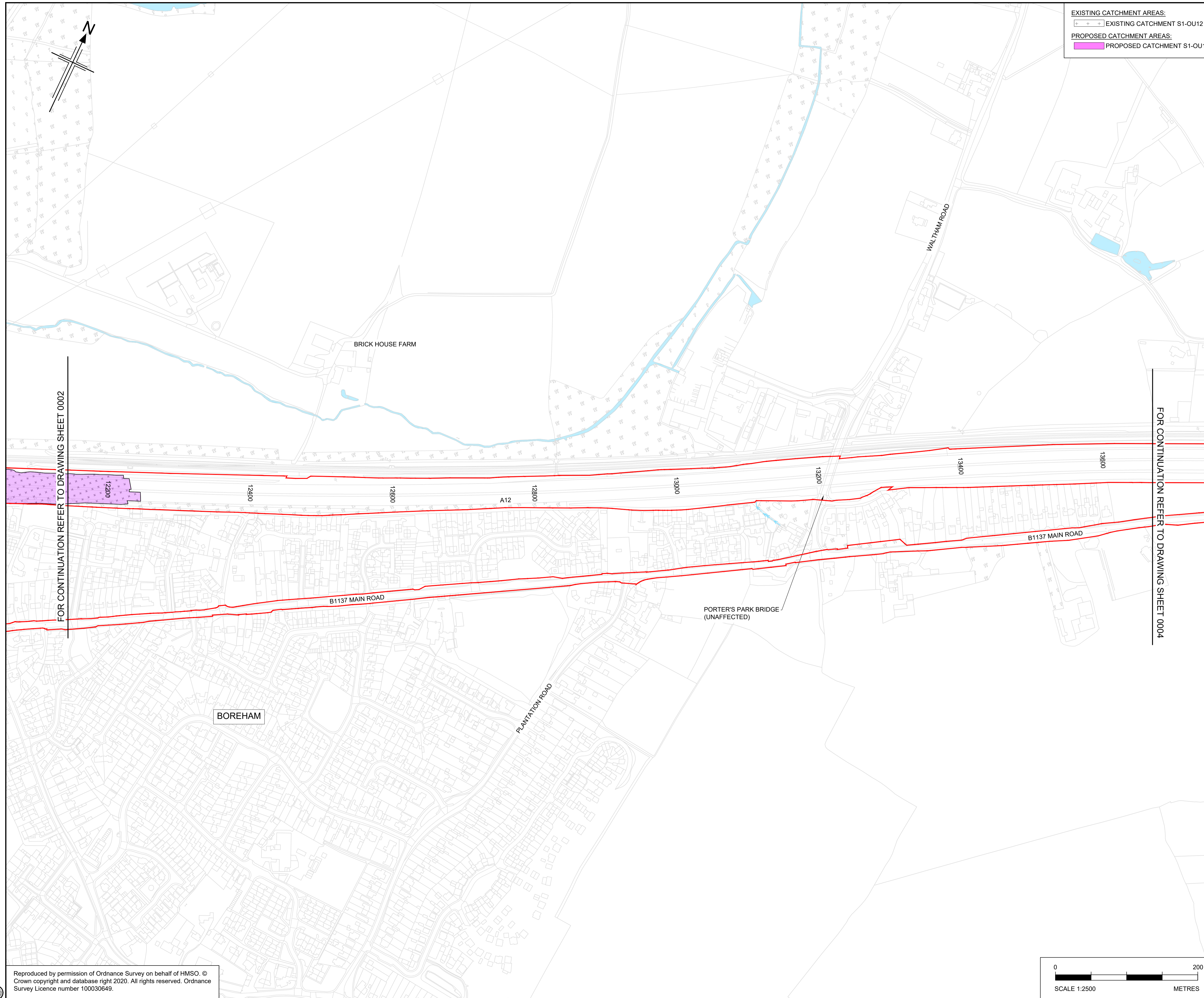
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	P01
Client no.	HE551497		

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0800
 PIN: JAC, Location: SCHW, Type: LDC, Role: DR, Volume: D-0800

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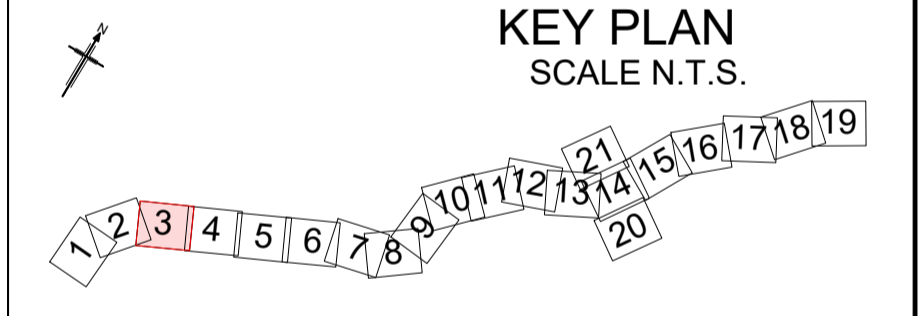




EXISTING CATCHMENT AREAS:
 + + + EXISTING CATCHMENT S1-OU12
PROPOSED CATCHMENT AREAS:
 PROPOSED CATCHMENT S1-OU12

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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- LEGEND**
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 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
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 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13

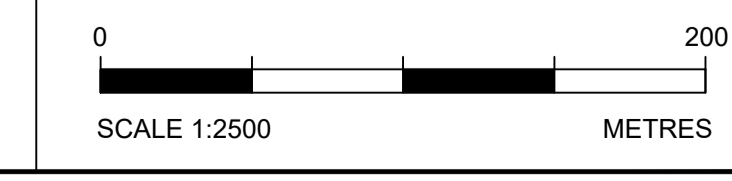


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **DRAINAGE AND SURFACE WATER PLANS SHEET 3 OF 21**

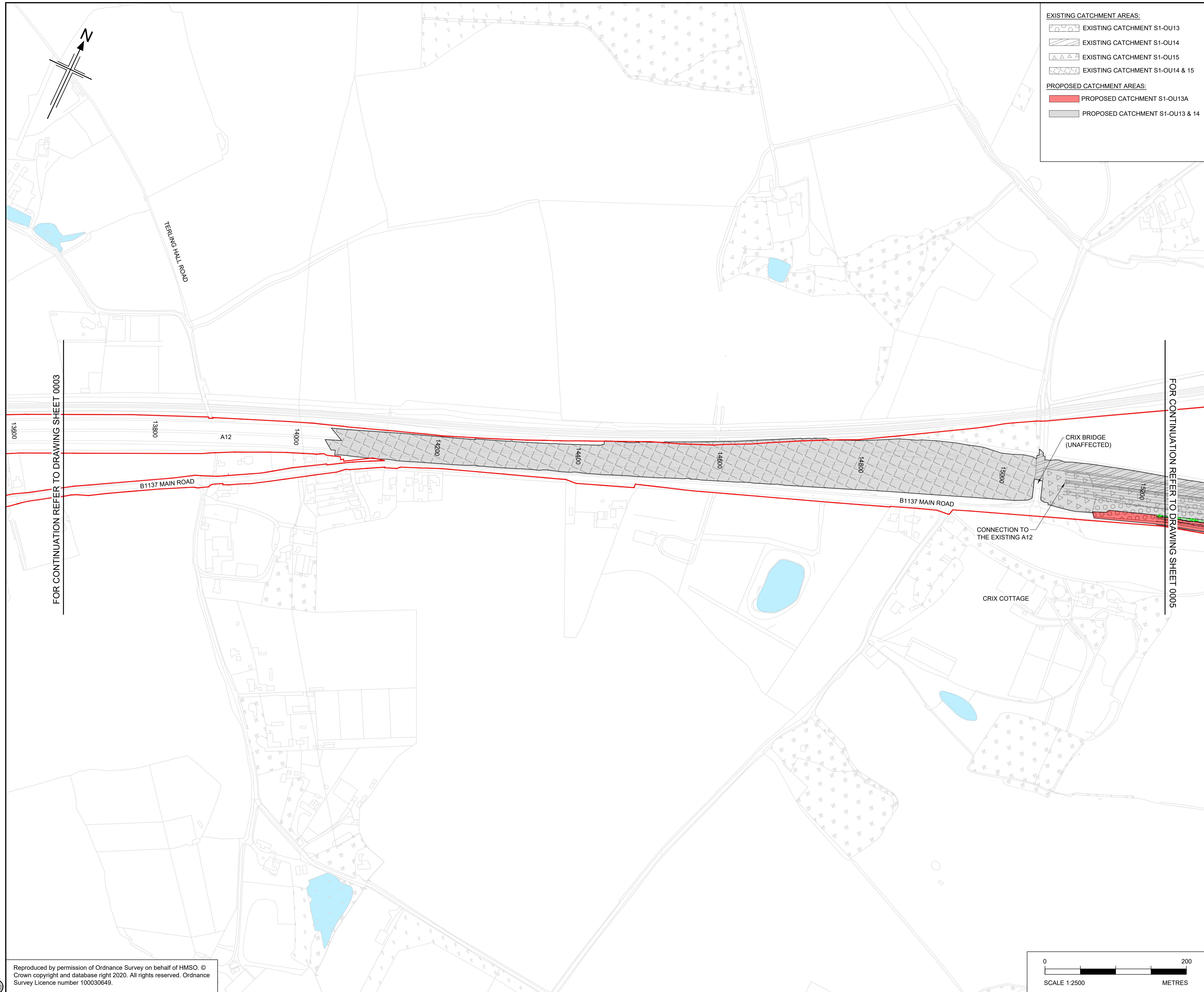
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Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D -0803
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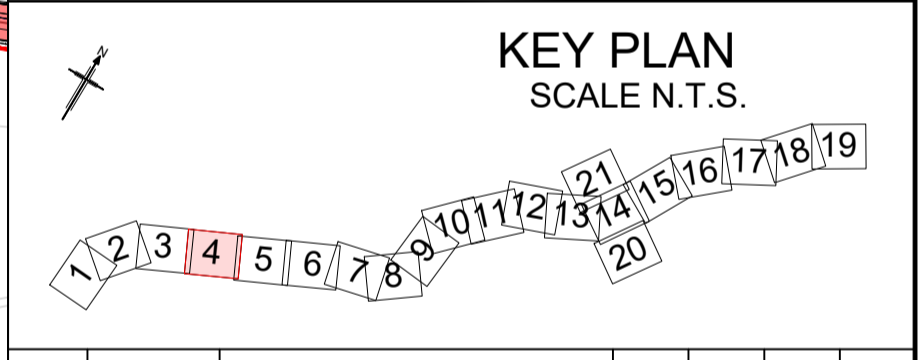
- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU13
 - EXISTING CATCHMENT S1-OU14
 - EXISTING CATCHMENT S1-OU15
 - EXISTING CATCHMENT S1-OU14 & 15
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU13A
 - PROPOSED CATCHMENT S1-OU13 & 14

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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- LEGEND**
- ORDER LIMITS
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 - PROPOSED ATTENUATION POND
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 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

FOR CONTINUATION REFER TO DRAWING SHEET 0003

FOR CONTINUATION REFER TO DRAWING SHEET 0005



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG

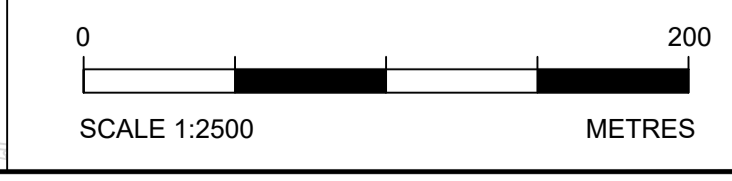
Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13



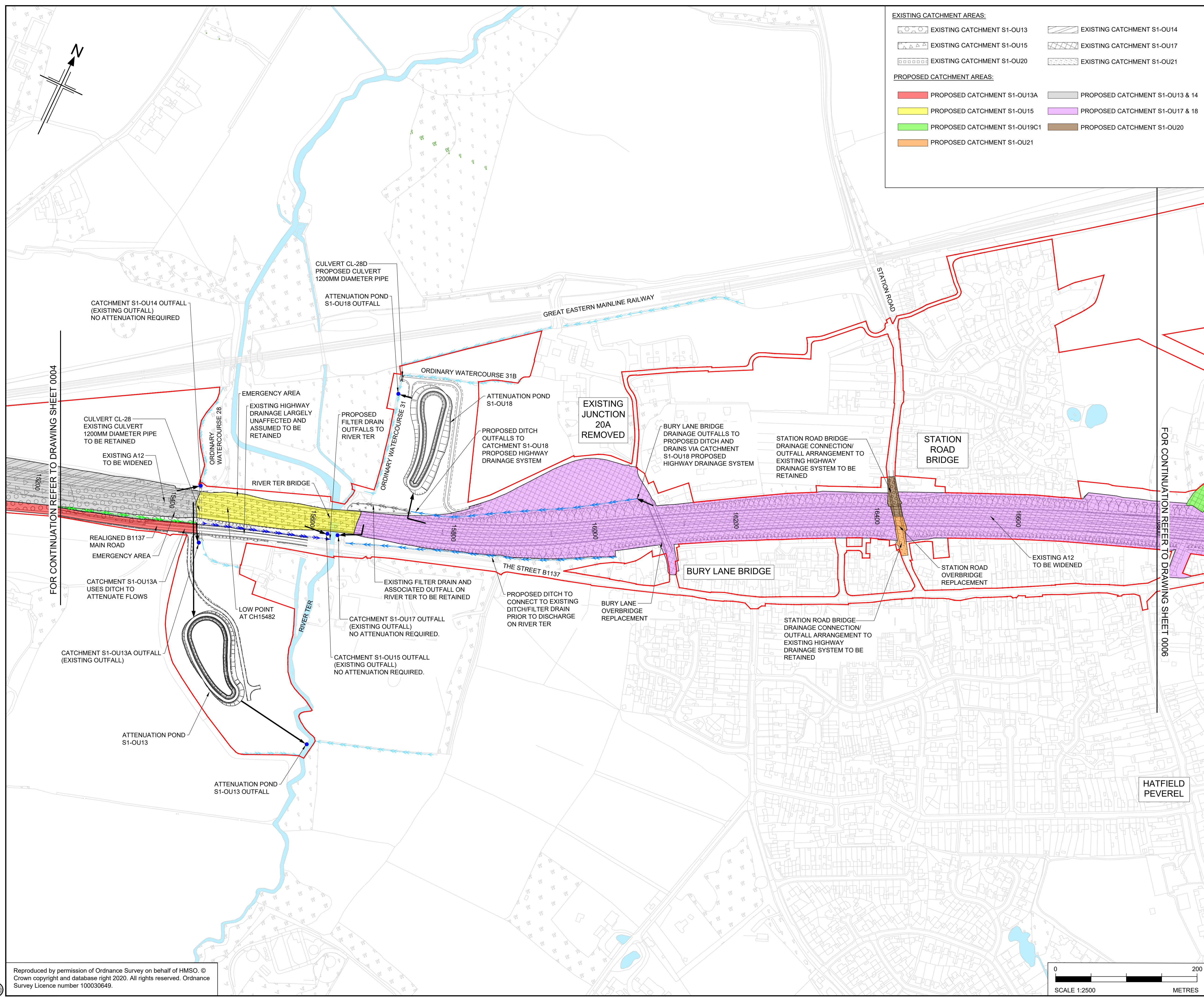
Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 4 OF 21

Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	



Drawing number
 PIN | Originator | Volume
HE551497 - JAC - LDC - SCHW -DR- D -0804



EXISTING CATCHMENT AREAS:

- EXISTING CATCHMENT S1-OU13
- EXISTING CATCHMENT S1-OU14
- EXISTING CATCHMENT S1-OU15
- EXISTING CATCHMENT S1-OU17
- EXISTING CATCHMENT S1-OU20
- EXISTING CATCHMENT S1-OU21

PROPOSED CATCHMENT AREAS:

- PROPOSED CATCHMENT S1-OU13A
- PROPOSED CATCHMENT S1-OU15
- PROPOSED CATCHMENT S1-OU17 & 18
- PROPOSED CATCHMENT S1-OU19C1
- PROPOSED CATCHMENT S1-OU20
- PROPOSED CATCHMENT S1-OU13 & 14
- PROPOSED CATCHMENT S1-OU17 & 18

- NOTES**
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LEGEND

- ORDER LIMITS
- PROPOSED HIGHWAY DRAINAGE OUTFALL
- PROPOSED ATTENUATION POND
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- PROPOSED FLOOD BUND
- PROPOSED FLOOD MITIGATION AREA
- EXISTING WATERBODIES/ MAIN RIVER
- PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13

Client:

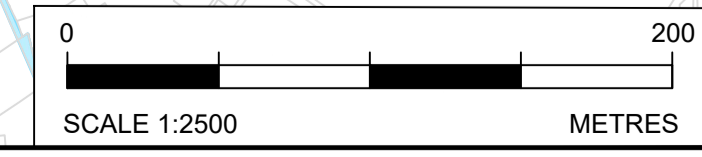
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME
HATFIELD PEVEREL

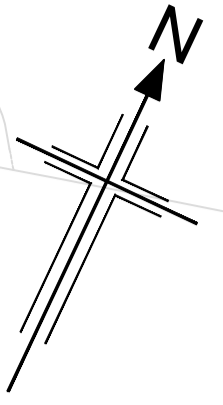
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Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0800
PIN: JAC, Location: SCHW, Volume: -DR- D - 0805

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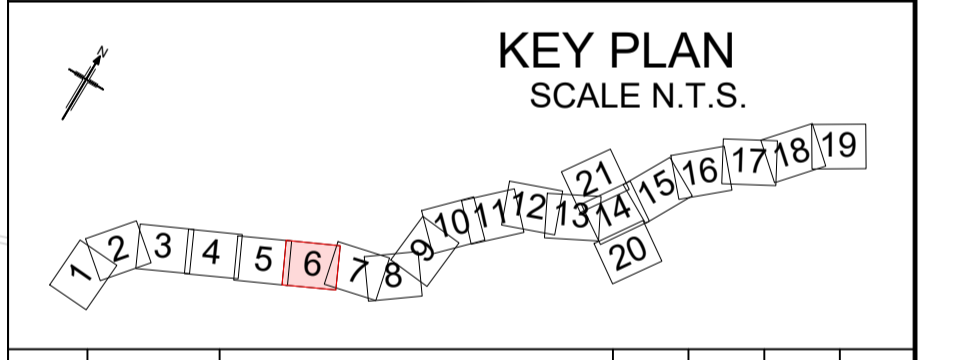




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU17
 - EXISTING CATCHMENT S1-OU19
 - EXISTING CATCHMENT S1-OU23
 - EXISTING CATCHMENT S1-OU24
 - EXISTING CATCHMENT S1-OU23D
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU17 & 18
 - PROPOSED CATCHMENT S1-OU19
 - PROPOSED CATCHMENT S1-OU19C
 - PROPOSED CATCHMENT S1-OU19C1
 - PROPOSED CATCHMENT S1-OU23
 - PROPOSED CATCHMENT S1-OU23C
 - PROPOSED CATCHMENT S1-OU23D
 - PROPOSED CATCHMENT S1-OU24A
 - PROPOSED CATCHMENT S1-OU24B

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 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13

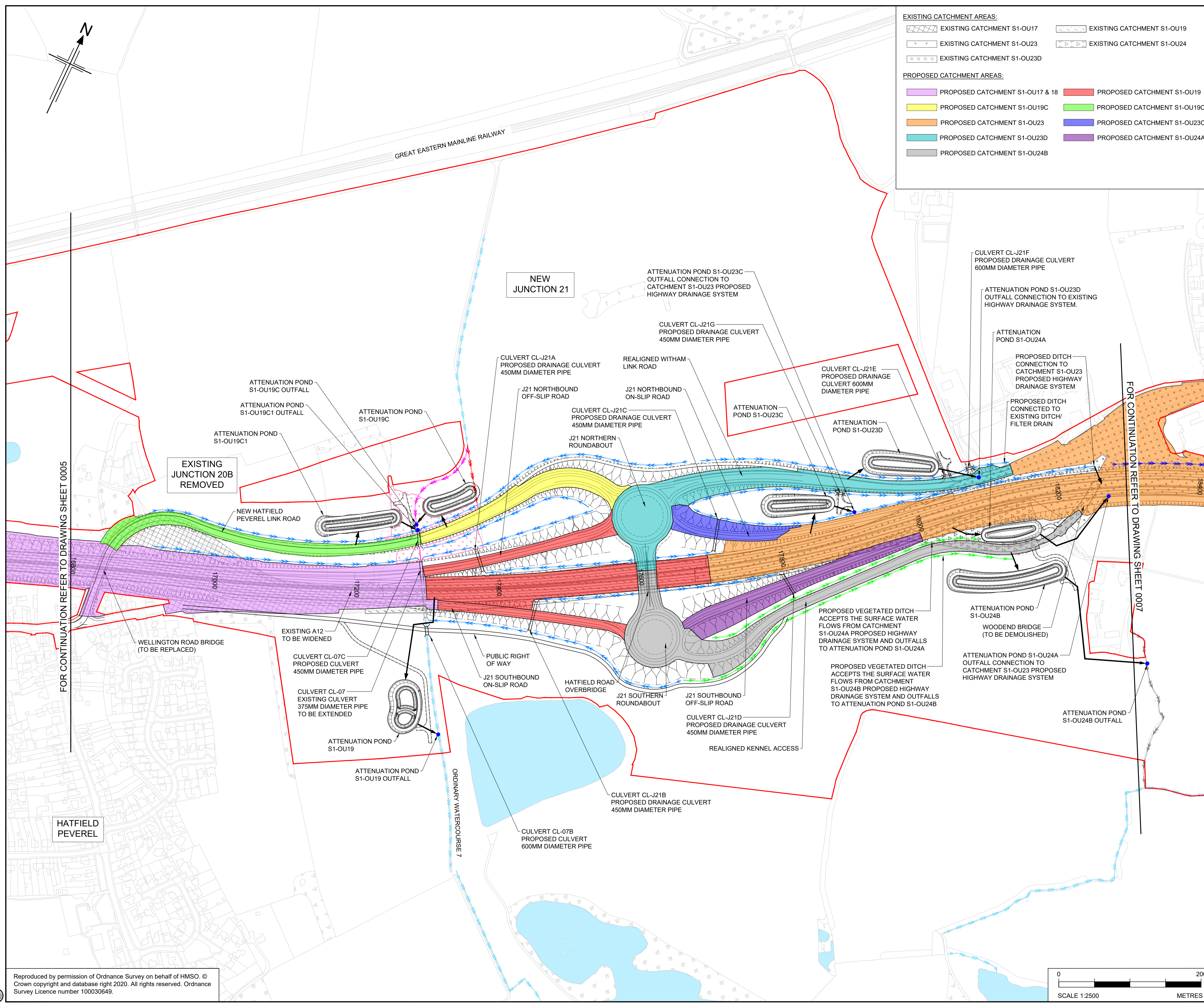


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: DRAINAGE AND SURFACE WATER PLANS SHEET 6 OF 21

Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

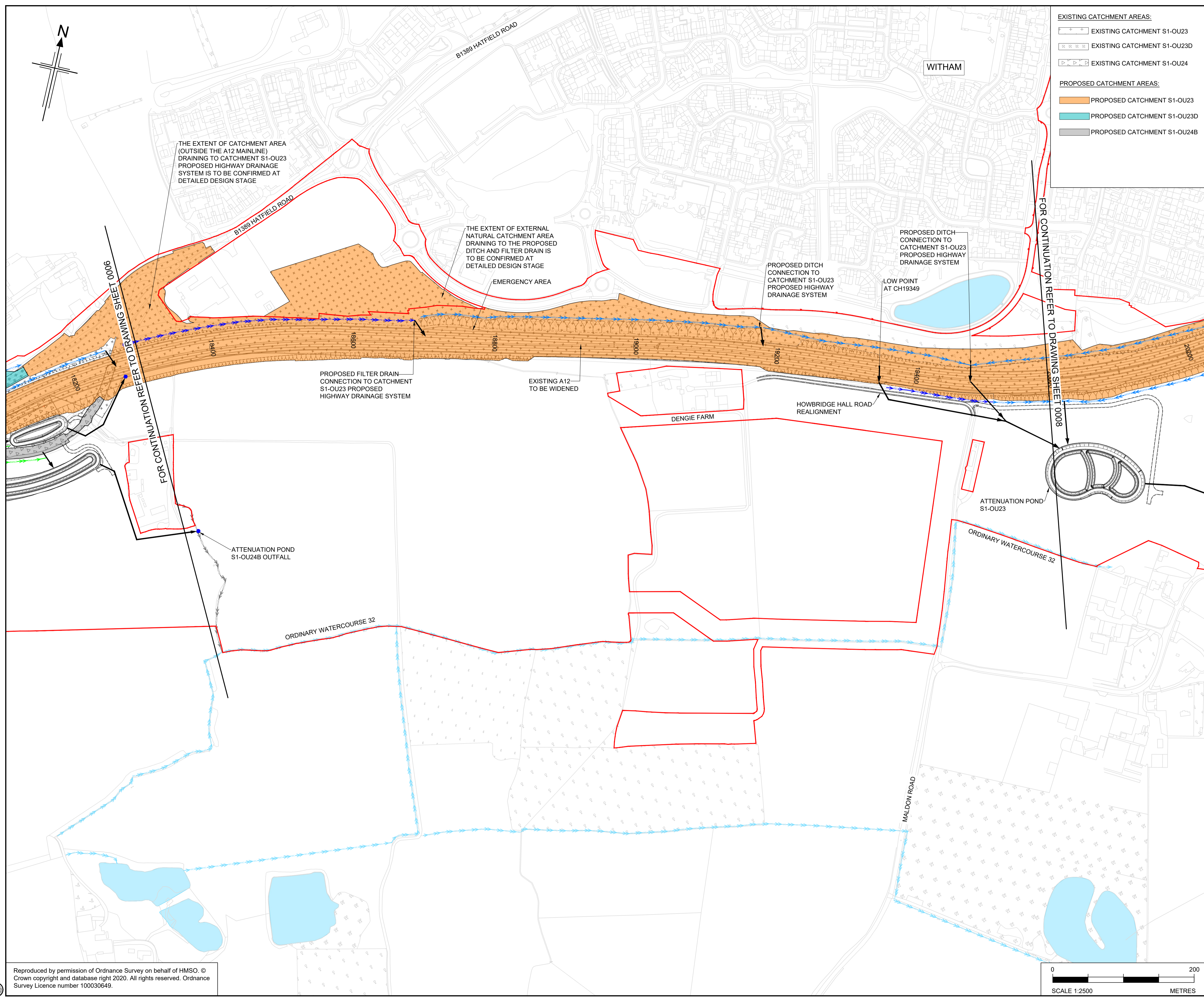
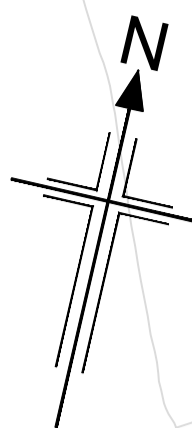
Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0800
 PIN | Originator | Volume | Location | Type | Role | Number



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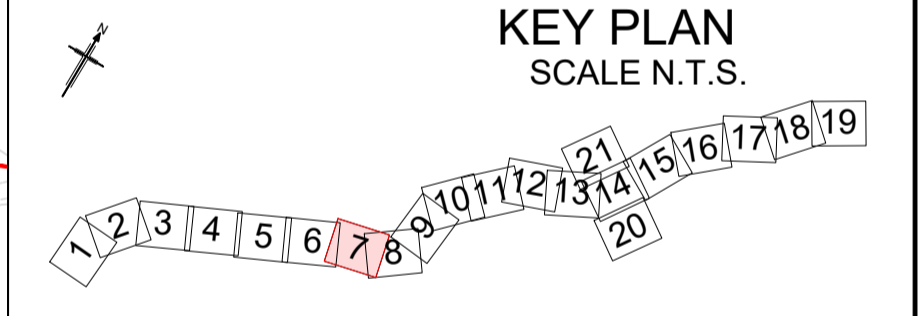




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU23
 - EXISTING CATCHMENT S1-OU23D
 - EXISTING CATCHMENT S1-OU24
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU23
 - PROPOSED CATCHMENT S1-OU23D
 - PROPOSED CATCHMENT S1-OU24B

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/ VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/ REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	22/07/22	FINAL FOR DCO APPLICATION	JC	AM	JT	SG

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project

A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title

DRAINAGE AND SURFACE WATER PLANS
SHEET 7 OF 21

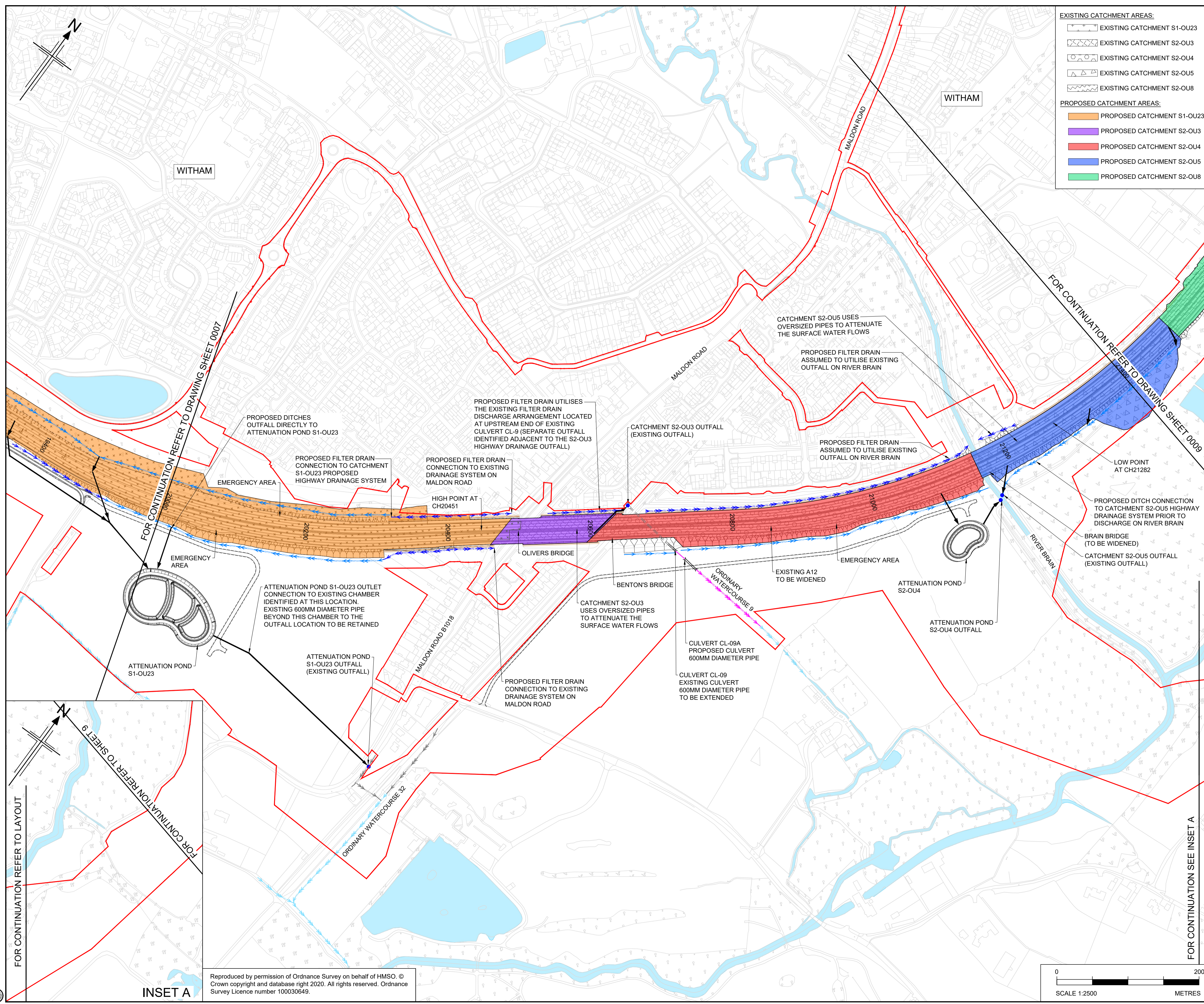
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

Drawing number

HE551497 - JAC - LDC - SCHW - DR - D -0807

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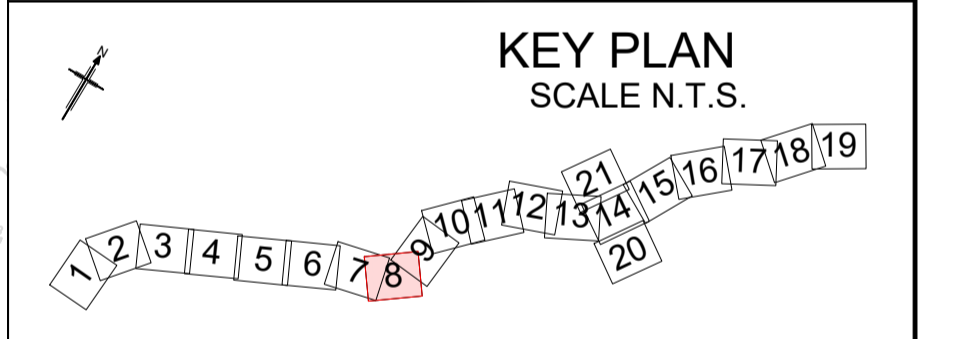
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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S1-OU23
 - EXISTING CATCHMENT S2-OU3
 - EXISTING CATCHMENT S2-OU4
 - EXISTING CATCHMENT S2-OU5
 - EXISTING CATCHMENT S2-OU8
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S1-OU23
 - PROPOSED CATCHMENT S2-OU3
 - PROPOSED CATCHMENT S2-OU4
 - PROPOSED CATCHMENT S2-OU5
 - PROPOSED CATCHMENT S2-OU8

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	AC	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13



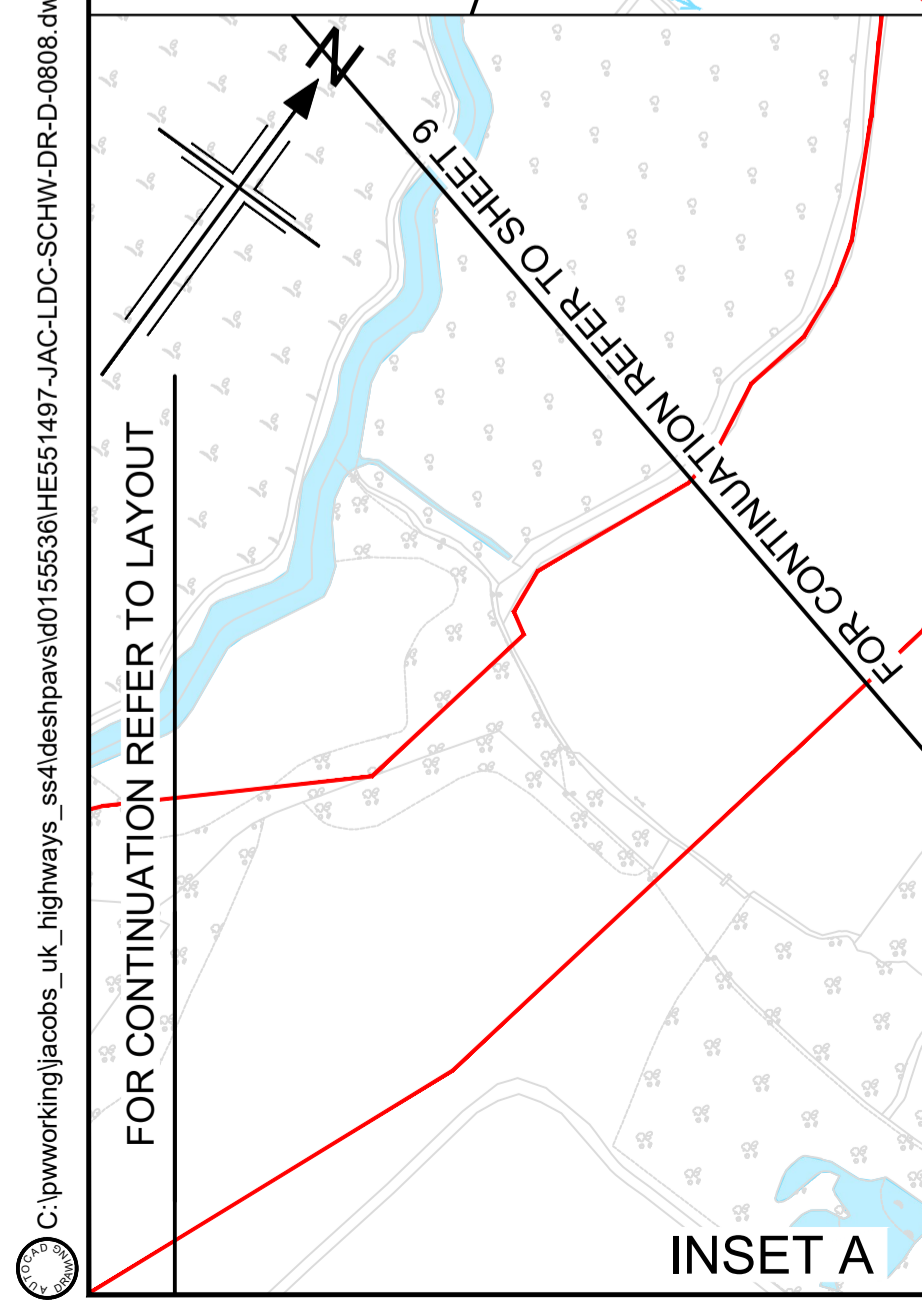
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: DRAINAGE AND SURFACE WATER PLANS SHEET 8 OF 21

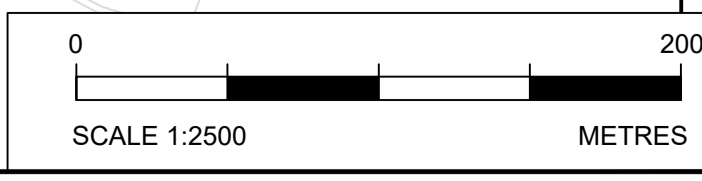
Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0808
PIN: Location: JAC - LDC - SCHW - DR - D - 0808
Originator: JAC - LDC - SCHW - DR - D - 0808
Volume: JAC - LDC - SCHW - DR - D - 0808

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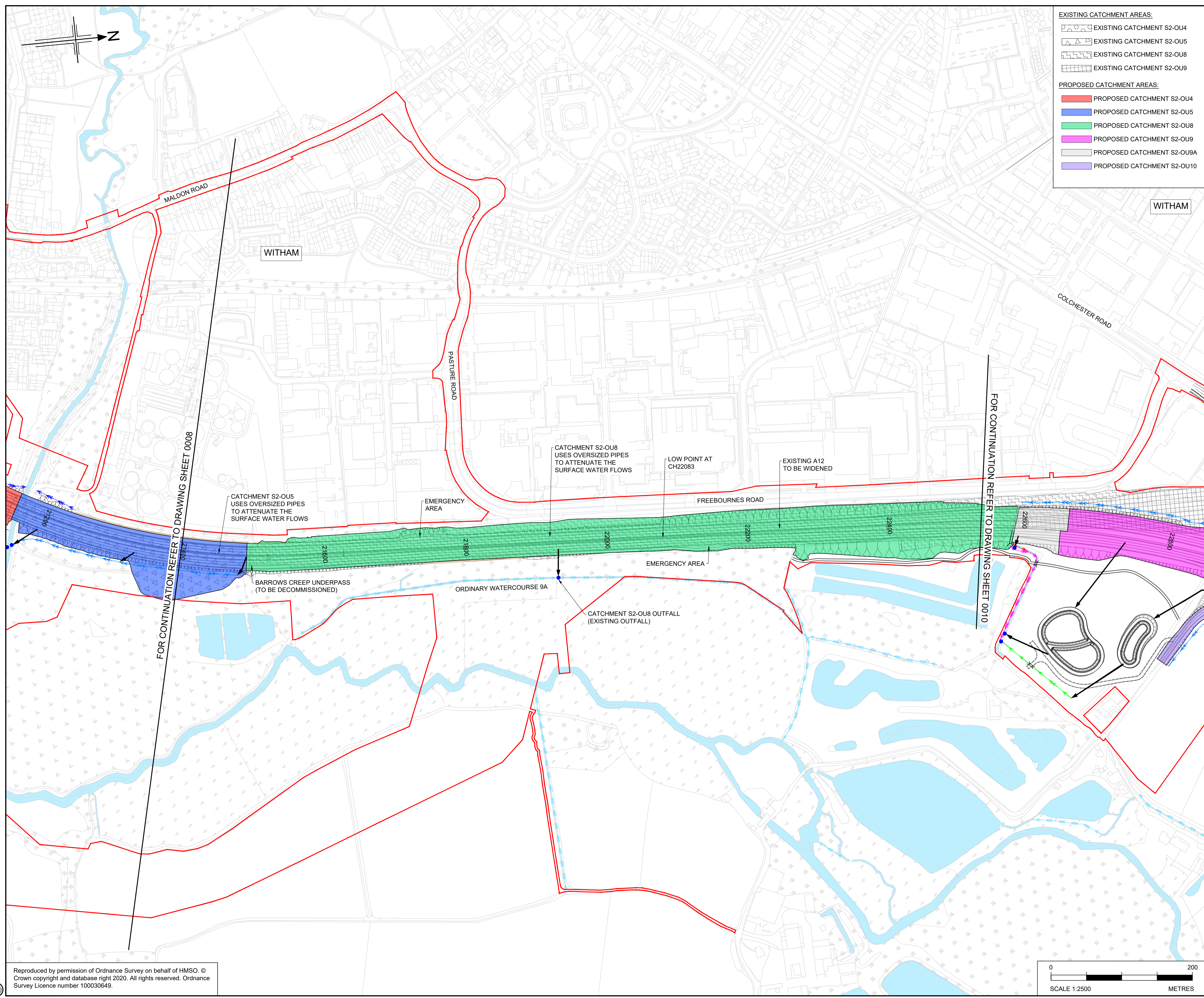
FOR CONTINUATION SEE INSET A

FOR CONTINUATION REFER TO DRAWING SHEET 0007

FOR CONTINUATION REFER TO DRAWING SHEET 0009

FOR CONTINUATION REFER TO LAYOUT

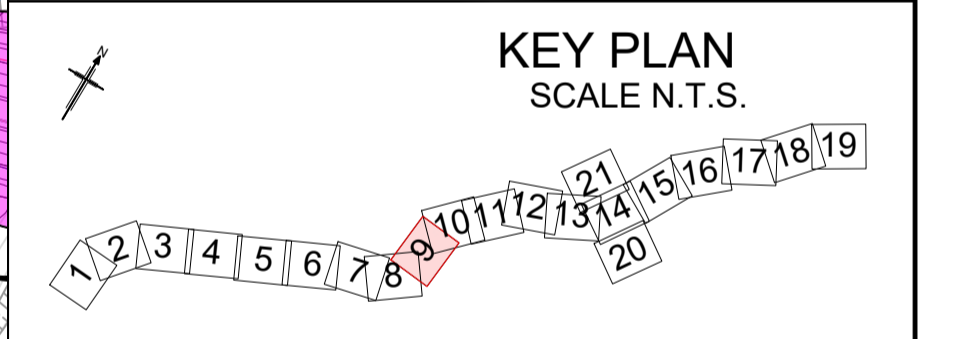
FOR CONTINUATION REFER TO SHEET 9



- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S2-OU4
 - EXISTING CATCHMENT S2-OU5
 - EXISTING CATCHMENT S2-OU8
 - EXISTING CATCHMENT S2-OU9
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S2-OU4
 - PROPOSED CATCHMENT S2-OU5
 - PROPOSED CATCHMENT S2-OU8
 - PROPOSED CATCHMENT S2-OU9
 - PROPOSED CATCHMENT S2-OU9A
 - PROPOSED CATCHMENT S2-OU10

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/ VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/ REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	AC	AM	JT	SG

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

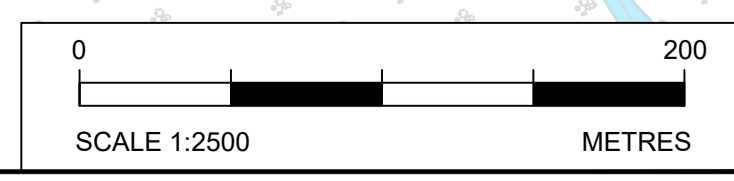
Drawing title
DRAINAGE AND SURFACE WATER PLANS
SHEET 9 OF 21

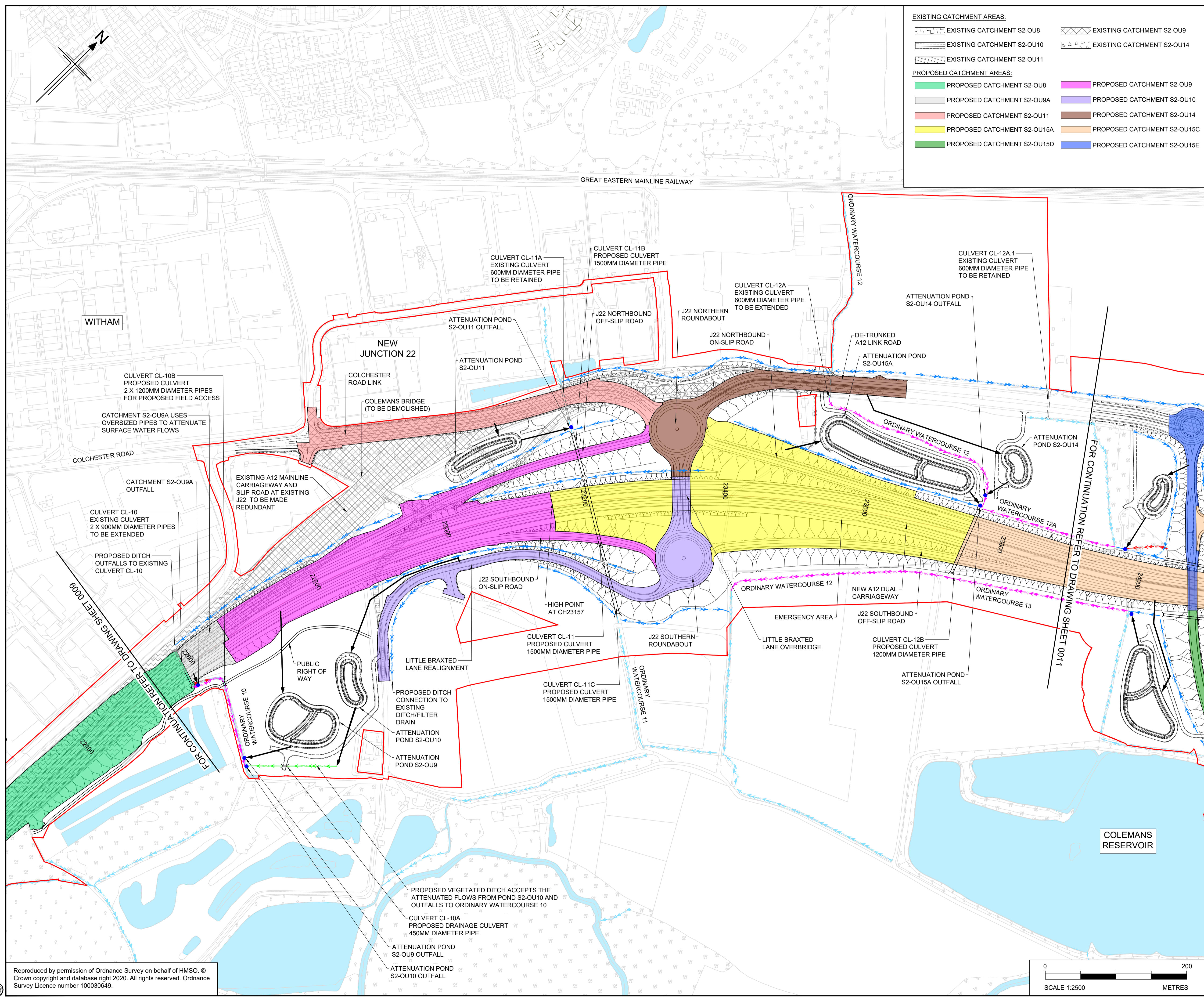
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Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0809
PIN: | Originator: | Volume: | Location: | Type: | Role: | Number:

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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S2-OU8
 - EXISTING CATCHMENT S2-OU10
 - EXISTING CATCHMENT S2-OU11
 - EXISTING CATCHMENT S2-OU9
 - EXISTING CATCHMENT S2-OU14
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S2-OU8
 - PROPOSED CATCHMENT S2-OU9A
 - PROPOSED CATCHMENT S2-OU11
 - PROPOSED CATCHMENT S2-OU15A
 - PROPOSED CATCHMENT S2-OU15D
 - PROPOSED CATCHMENT S2-OU9
 - PROPOSED CATCHMENT S2-OU10
 - PROPOSED CATCHMENT S2-OU14
 - PROPOSED CATCHMENT S2-OU15C
 - PROPOSED CATCHMENT S2-OU15E

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 - REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 - THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
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 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	AC	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/2.13			

Client:

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

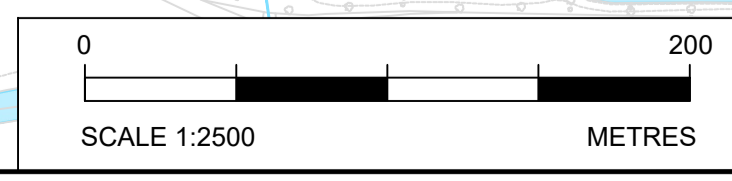
Drawing title: DRAINAGE AND SURFACE WATER PLANS SHEET 10 OF 21

Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

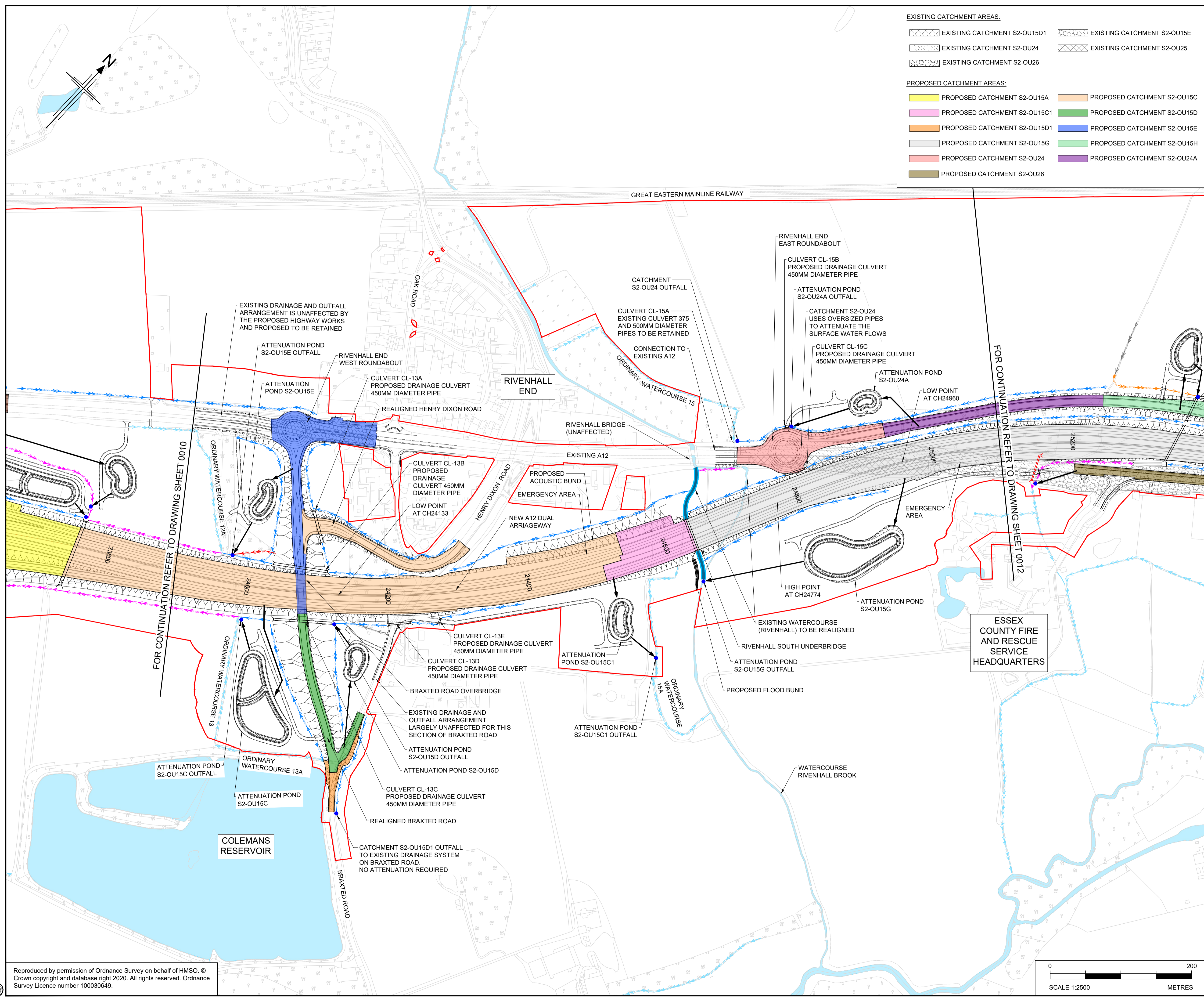
Regulation: REGULATION 5(2)(g)
Purpose of issue: DCO APPLICATION
State Code: Preliminary
Project Stage: PCF 3
Scale at A1 (841x594mm): 1:2500
Drawing status: S4
Jacobs No.: B36601D1
Client no.: HE551497
Rev: P01

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HE551497 - JAC - LDC - SCHW - DR - D - 0810



EXISTING CATCHMENT AREAS:

- EXISTING CATCHMENT S2-OU15D1
- EXISTING CATCHMENT S2-OU24
- EXISTING CATCHMENT S2-OU26
- EXISTING CATCHMENT S2-OU15E
- EXISTING CATCHMENT S2-OU25

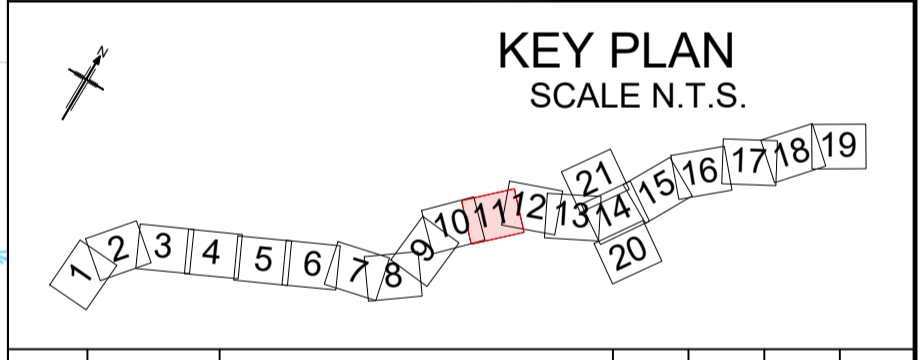
PROPOSED CATCHMENT AREAS:

- PROPOSED CATCHMENT S2-OU15A
- PROPOSED CATCHMENT S2-OU15C1
- PROPOSED CATCHMENT S2-OU15D1
- PROPOSED CATCHMENT S2-OU15G
- PROPOSED CATCHMENT S2-OU24
- PROPOSED CATCHMENT S2-OU15E
- PROPOSED CATCHMENT S2-OU15C
- PROPOSED CATCHMENT S2-OU15D
- PROPOSED CATCHMENT S2-OU15E
- PROPOSED CATCHMENT S2-OU15H
- PROPOSED CATCHMENT S2-OU24A
- PROPOSED CATCHMENT S2-OU26

- NOTES**
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LEGEND

- ORDER LIMITS
- PROPOSED HIGHWAY DRAINAGE OUTFALL
- PROPOSED ATTENUATION POND
- PROPOSED ATTENUATION POND ACCESS TRACK
- PROPOSED GEOCELLULAR ATTENUATION STORAGE
- INDICATIVE OUTFALL ROUTE
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- PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
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- MINOR WATERCOURSE (TO BE RETAINED)
- MINOR WATERCOURSE (TO BE ABANDONED)
- MINOR WATERCOURSE (PROPOSED DIVERSION)
- PROPOSED FLOOD BUND
- PROPOSED FLOOD MITIGATION AREA
- EXISTING WATERBODIES/ MAIN RIVER
- PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	AC	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Client
national highways

Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 11 OF 21

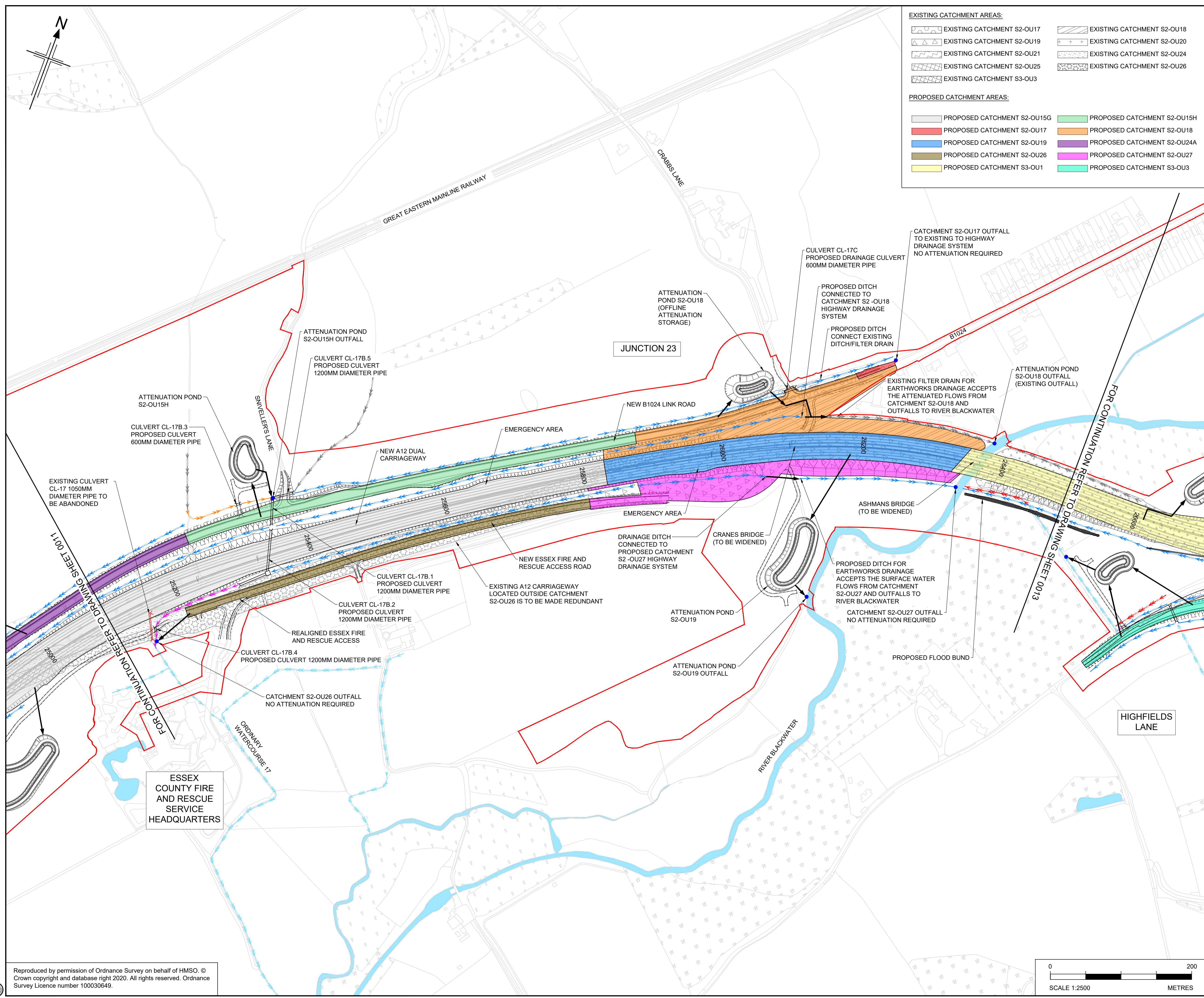
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Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number
PIN Originator Volume
HE551497 - JAC - LDC - SCHW - DR - D - 0811

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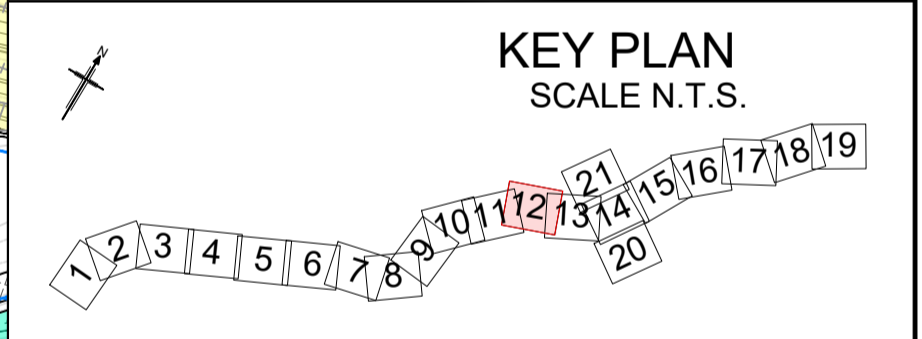




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S2-OU17
 - EXISTING CATCHMENT S2-OU18
 - EXISTING CATCHMENT S2-OU19
 - EXISTING CATCHMENT S2-OU20
 - EXISTING CATCHMENT S2-OU21
 - EXISTING CATCHMENT S2-OU22
 - EXISTING CATCHMENT S2-OU25
 - EXISTING CATCHMENT S2-OU26
 - EXISTING CATCHMENT S3-O3
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S2-OU15G
 - PROPOSED CATCHMENT S2-OU15H
 - PROPOSED CATCHMENT S2-OU17
 - PROPOSED CATCHMENT S2-OU18
 - PROPOSED CATCHMENT S2-OU19
 - PROPOSED CATCHMENT S2-OU24A
 - PROPOSED CATCHMENT S2-OU26
 - PROPOSED CATCHMENT S2-OU27
 - PROPOSED CATCHMENT S3-O1
 - PROPOSED CATCHMENT S3-O3

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 - REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING FILTER DRAIN (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	22/07/22	FINAL FOR DCO APPLICATION	AC	AM	JT	SG

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

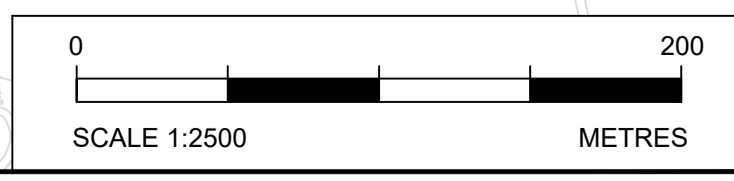
Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 12 OF 21

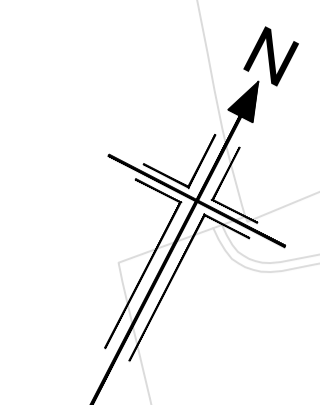
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

Drawing number
HE551497 - JAC - LDC - SCHW - DR - D -0812

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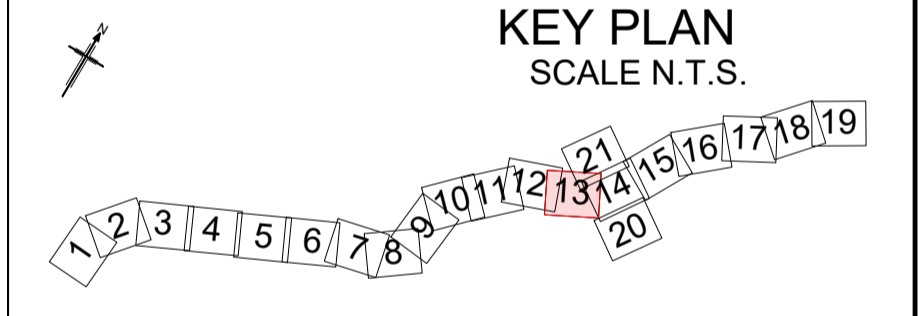


FOR CONTINUATION REFER TO DRAWING SHEET 0021

EXISTING CATCHMENT AREAS:			
	EXISTING CATCHMENT S2-OU18		EXISTING CATCHMENT S2-OU19
	EXISTING CATCHMENT S2-OU21		EXISTING CATCHMENT S3-OU1
	EXISTING CATCHMENT S3-OU3		EXISTING CATCHMENT S3-OU4
	EXISTING CATCHMENT S3-OU5		EXISTING CATCHMENT S3-OU7A
PROPOSED CATCHMENT AREAS:			
	PROPOSED CATCHMENT S2-OU18		PROPOSED CATCHMENT S2-OU19
	PROPOSED CATCHMENT S3-OU1		PROPOSED CATCHMENT S3-OU2
	PROPOSED CATCHMENT S3-OU4		PROPOSED CATCHMENT S3-OU5
	PROPOSED CATCHMENT S3-OU13		PROPOSED CATCHMENT S3-OU14
	PROPOSED CATCHMENT S2-OU27		PROPOSED CATCHMENT S3-OU3

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS SHEET 13 OF 21

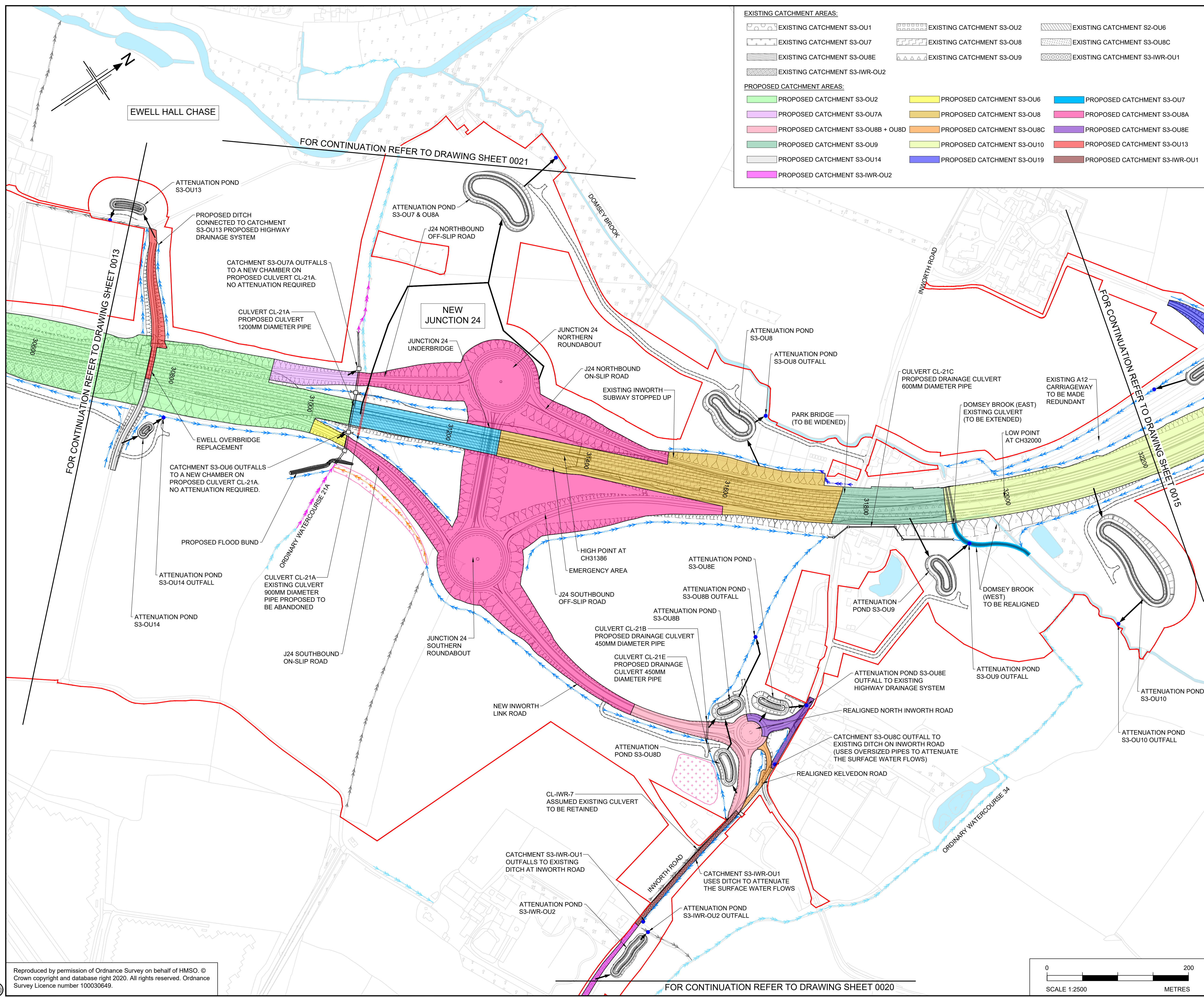
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Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

Drawing number
PIN | Originator | Volume
HE551497 - JAC - LDC - SCHW -DR- D-0813



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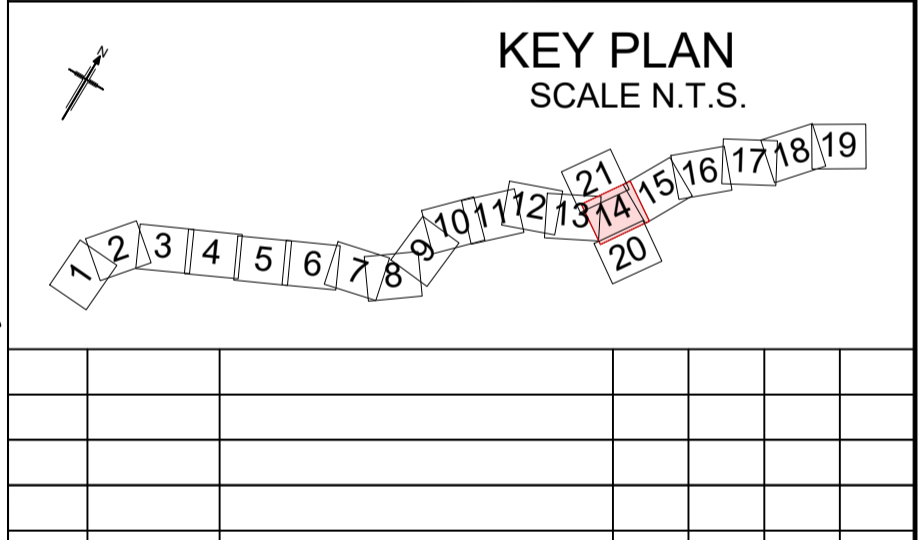
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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU1
 - EXISTING CATCHMENT S3-OU2
 - EXISTING CATCHMENT S2-OU6
 - EXISTING CATCHMENT S3-OU7
 - EXISTING CATCHMENT S3-OU8
 - EXISTING CATCHMENT S3-OU8C
 - EXISTING CATCHMENT S3-OU8E
 - EXISTING CATCHMENT S3-OU9
 - EXISTING CATCHMENT S3-IWR-OU1
 - EXISTING CATCHMENT S3-IWR-OU2
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU2
 - PROPOSED CATCHMENT S3-OU6
 - PROPOSED CATCHMENT S3-OU7
 - PROPOSED CATCHMENT S3-OU7A
 - PROPOSED CATCHMENT S3-OU8
 - PROPOSED CATCHMENT S3-OU8A
 - PROPOSED CATCHMENT S3-OU8B + OU8D
 - PROPOSED CATCHMENT S3-OU8C
 - PROPOSED CATCHMENT S3-OU8E
 - PROPOSED CATCHMENT S3-OU9
 - PROPOSED CATCHMENT S3-OU10
 - PROPOSED CATCHMENT S3-OU13
 - PROPOSED CATCHMENT S3-OU14
 - PROPOSED CATCHMENT S3-OU19
 - PROPOSED CATCHMENT S3-IWR-OU2

- NOTES**
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 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
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 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

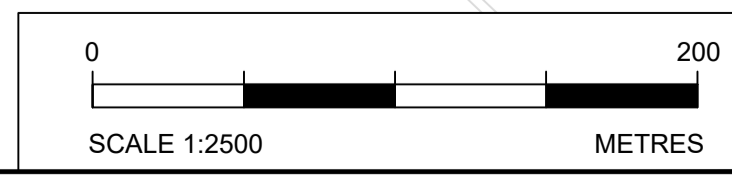
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DRAINAGE AND SURFACE WATER PLANS
SHEET 14 OF 21

Regulation	REGULATION 5(2)(g)
Purpose of issue	DCO APPLICATION
State Code	Preliminary
Project Stage	PCF 3
Scale at A1 (841x594mm)	1:2500
Jacobs No.	B36601D1
Client no.	HE551497
Drawing number	P01

HE551497 - JAC - LDC - SCHW - DR - D - 0814

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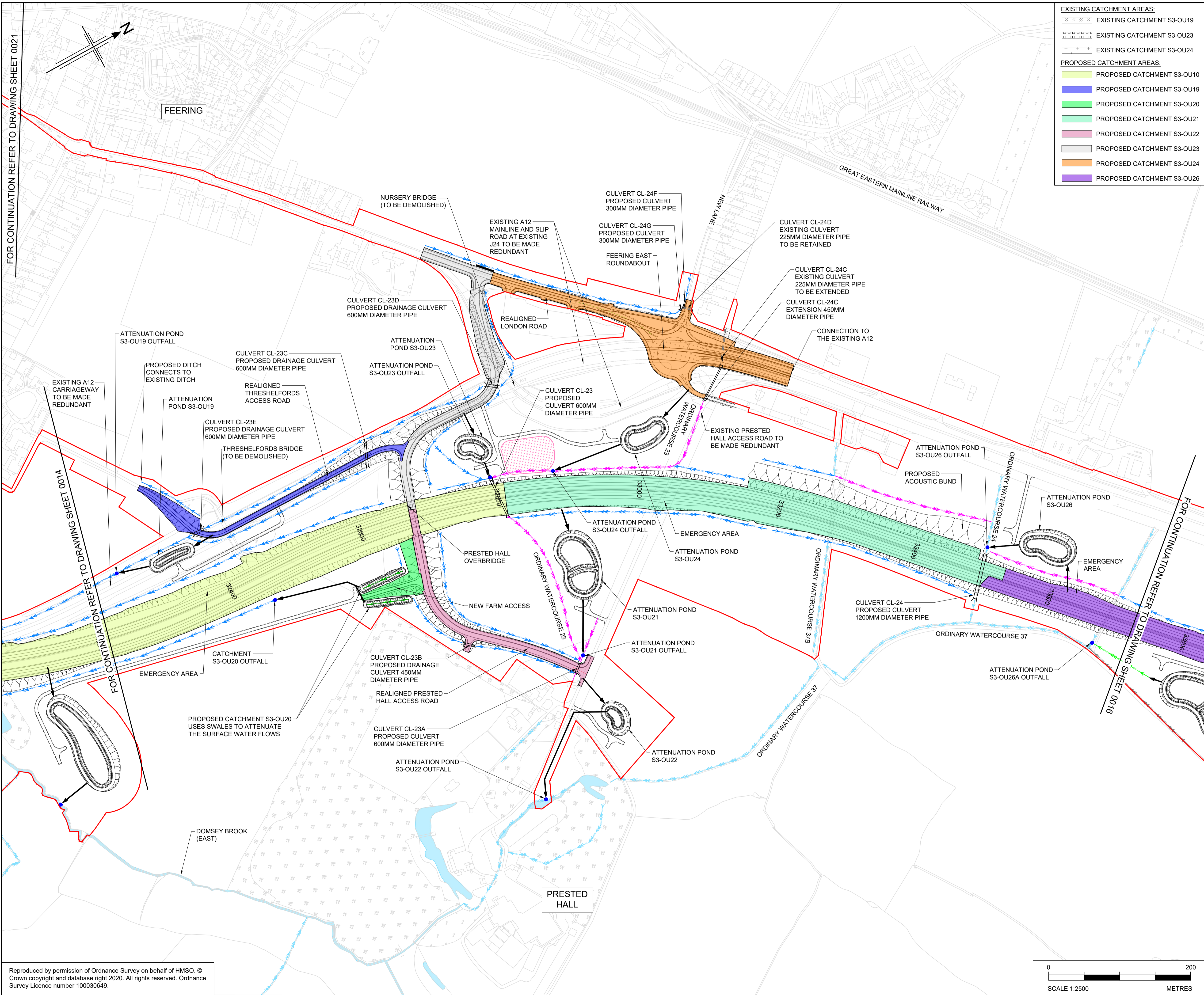


FOR CONTINUATION REFER TO DRAWING SHEET 0020

FOR CONTINUATION REFER TO DRAWING SHEET 0013

FOR CONTINUATION REFER TO DRAWING SHEET 0015

FOR CONTINUATION REFER TO DRAWING SHEET 0021



- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU19
 - EXISTING CATCHMENT S3-OU23
 - EXISTING CATCHMENT S3-OU24
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU10
 - PROPOSED CATCHMENT S3-OU19
 - PROPOSED CATCHMENT S3-OU20
 - PROPOSED CATCHMENT S3-OU21
 - PROPOSED CATCHMENT S3-OU22
 - PROPOSED CATCHMENT S3-OU23
 - PROPOSED CATCHMENT S3-OU24
 - PROPOSED CATCHMENT S3-OU26

- NOTES**
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- LEGEND**
- ORDER LIMITS
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 - PROPOSED ATTENUATION POND
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 - EXISTING CULVERT (TO BE ABANDONED)
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 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
Development Consent Order Number: TR010060			Development Consent Order Drawing Number: TR010060/APP/2.13			

Client:

Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

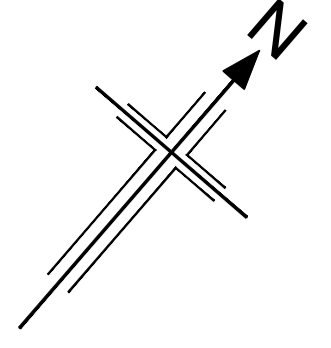
Drawing title: DRAINAGE AND SURFACE WATER PLANS SHEET 15 OF 21

Regulation	REGULATION 5(2)(g)	
Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01
Drawing number	PIN	Originator
HE551497 - JAC - LDC - SCHW - DR - D - 0815		
Type Role Number		

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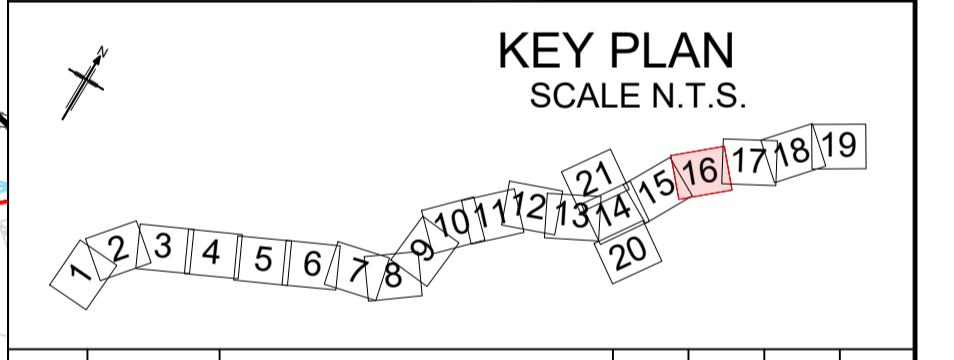
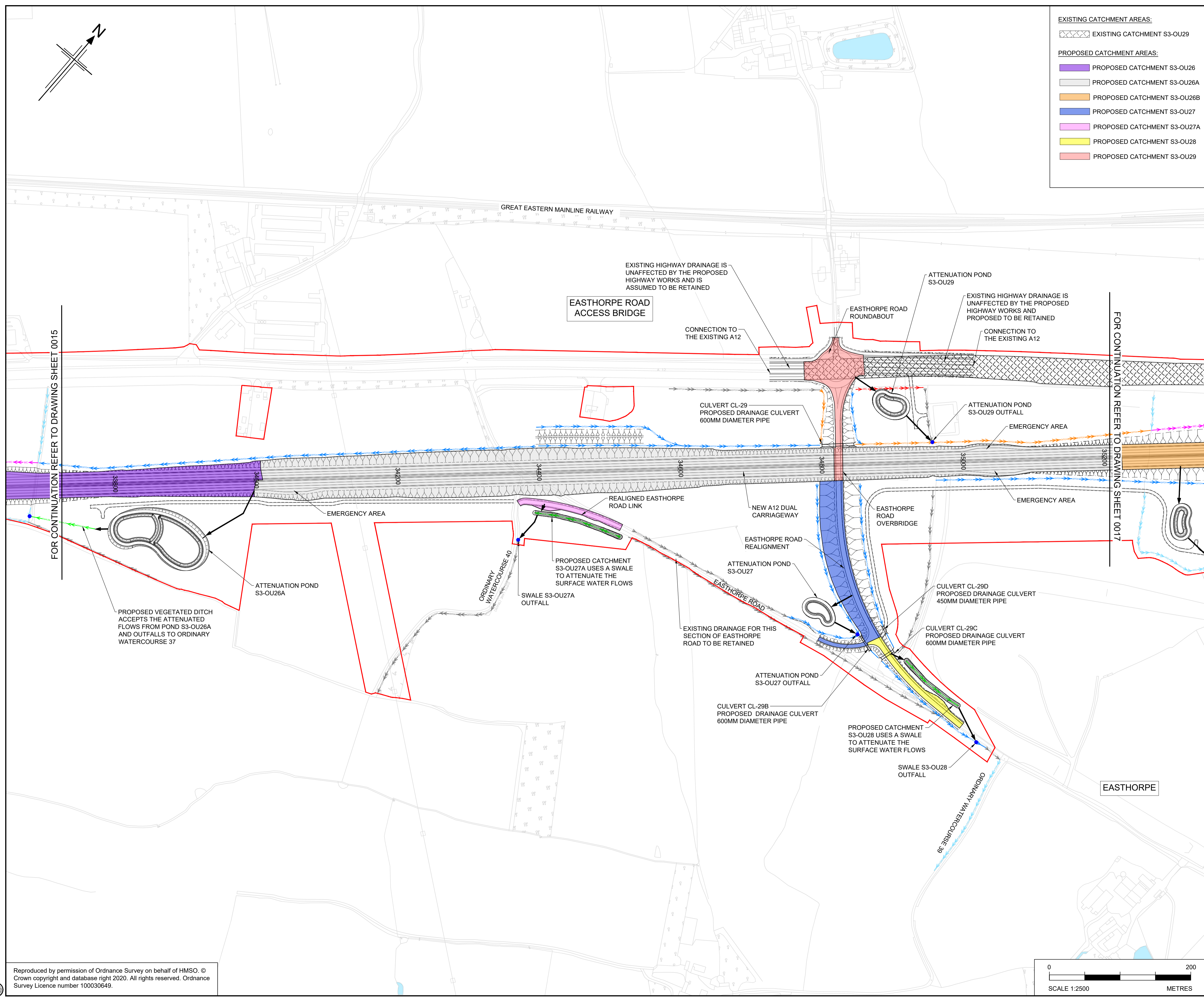




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU29
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU26
 - PROPOSED CATCHMENT S3-OU26A
 - PROPOSED CATCHMENT S3-OU26B
 - PROPOSED CATCHMENT S3-OU27
 - PROPOSED CATCHMENT S3-OU27A
 - PROPOSED CATCHMENT S3-OU28
 - PROPOSED CATCHMENT S3-OU29

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 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd
P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13

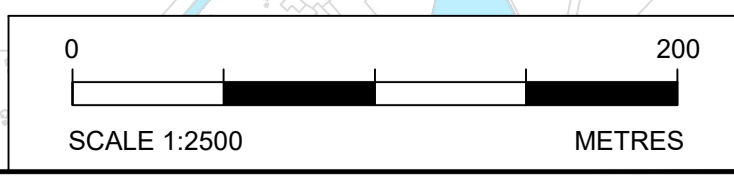


Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS
SHEET 16 OF 21

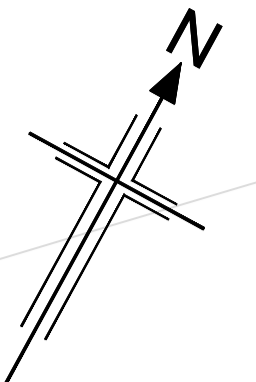
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Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	P01
Client no.	HE551497		

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0816
 PIN: JAC | Originator: JAC | Volume: LDC - SCHW - DR - D - 0816



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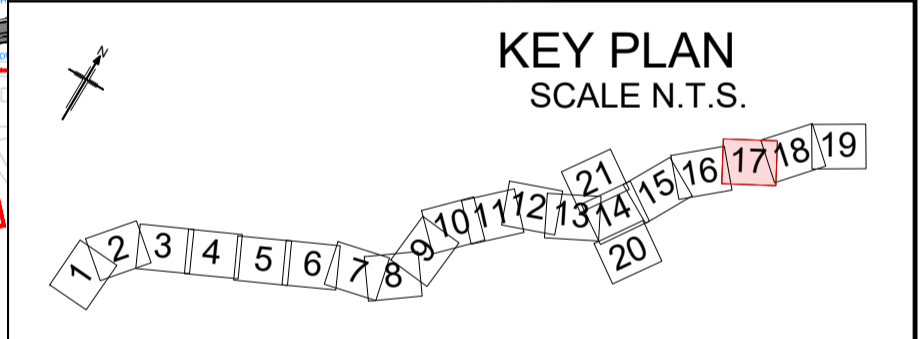
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- EXISTING CATCHMENT AREAS:**
- XXXXX EXISTING CATCHMENT S3-OU29
 - △△△△ EXISTING CATCHMENT S3-OU33
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU26A
 - PROPOSED CATCHMENT S3-OU26B
 - PROPOSED CATCHMENT S3-OU30
 - PROPOSED CATCHMENT S3-OU30A
 - PROPOSED CATCHMENT S3-OU31
 - PROPOSED CATCHMENT S3-OU32
 - PROPOSED CATCHMENT S3-OU33

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG

Development Consent Order Number: TR010060
 Development Consent Order Drawing Number: TR010060/APP/2.13

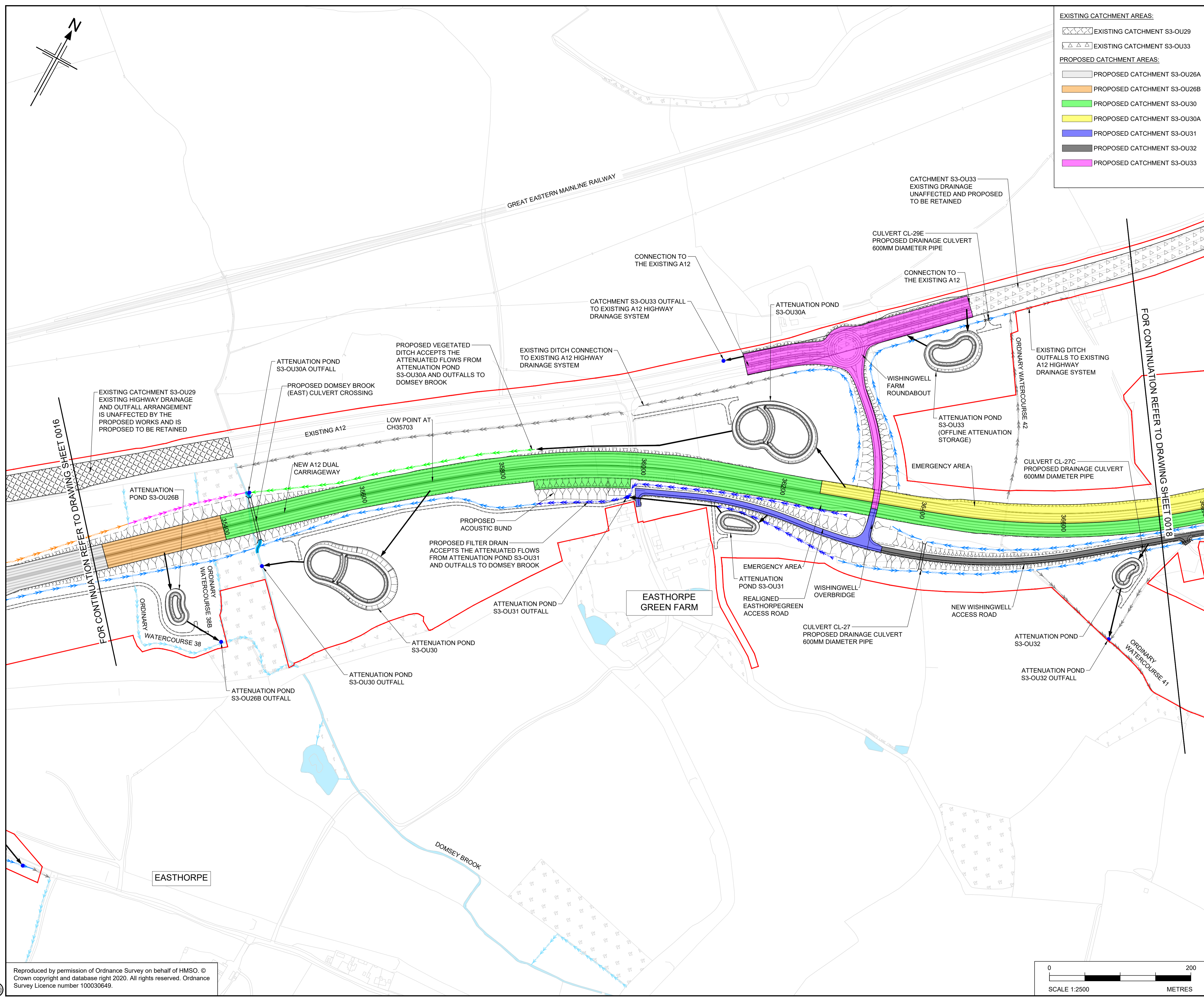
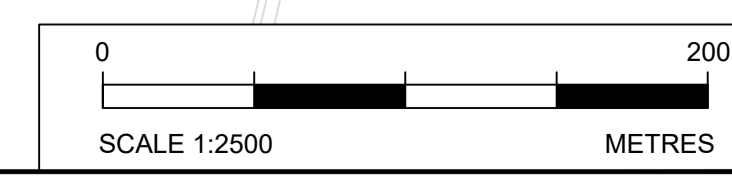


Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **DRAINAGE AND SURFACE WATER PLANS SHEET 17 OF 21**

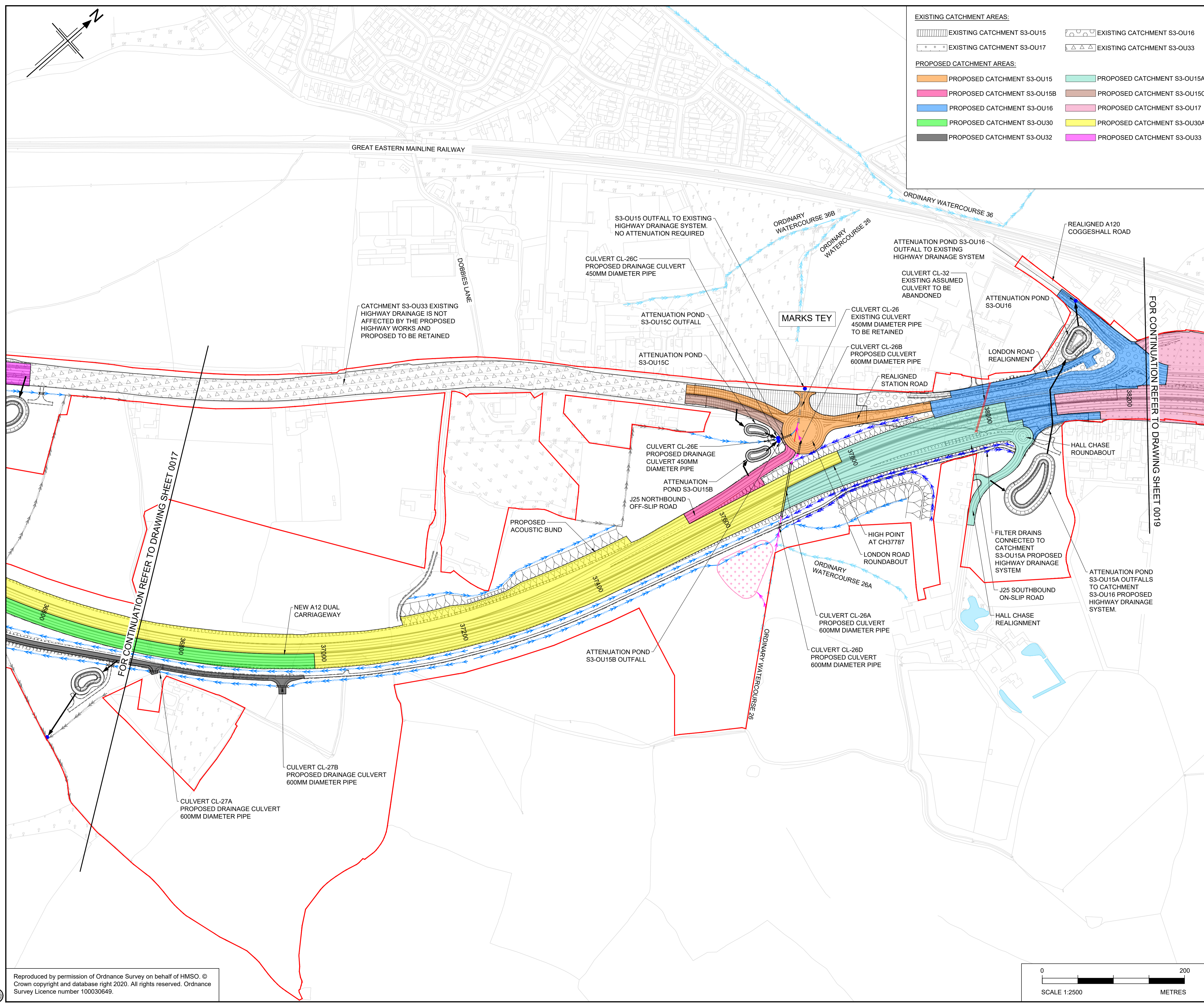
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Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number: HE551497 - JAC - LDC - SCHW - DR - D -0817



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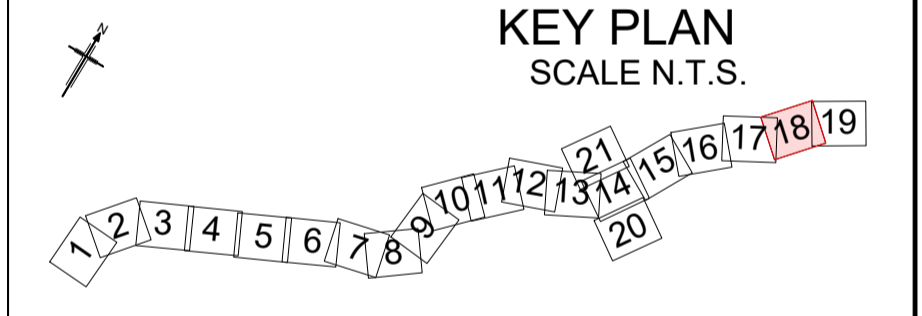
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- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU15
 - EXISTING CATCHMENT S3-OU16
 - EXISTING CATCHMENT S3-OU17
 - EXISTING CATCHMENT S3-OU33
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU15
 - PROPOSED CATCHMENT S3-OU15A
 - PROPOSED CATCHMENT S3-OU15B
 - PROPOSED CATCHMENT S3-OU15C
 - PROPOSED CATCHMENT S3-OU16
 - PROPOSED CATCHMENT S3-OU17
 - PROPOSED CATCHMENT S3-OU30
 - PROPOSED CATCHMENT S3-OU30A
 - PROPOSED CATCHMENT S3-OU32
 - PROPOSED CATCHMENT S3-OU33

- NOTES**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 - REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 - THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT [TR010060/APP/6.3].
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
 - PRE-EARTHWORKS DRAINAGE (EXISTING FILTER DRAIN TO BE RETAINED)
 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Development Consent Order Number:	Development Consent Order Drawing Number:
TR010060	TR010060/APP/2.13



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

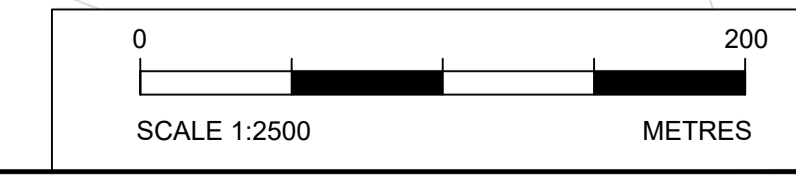
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DRAINAGE AND SURFACE WATER PLANS SHEET 18 OF 21

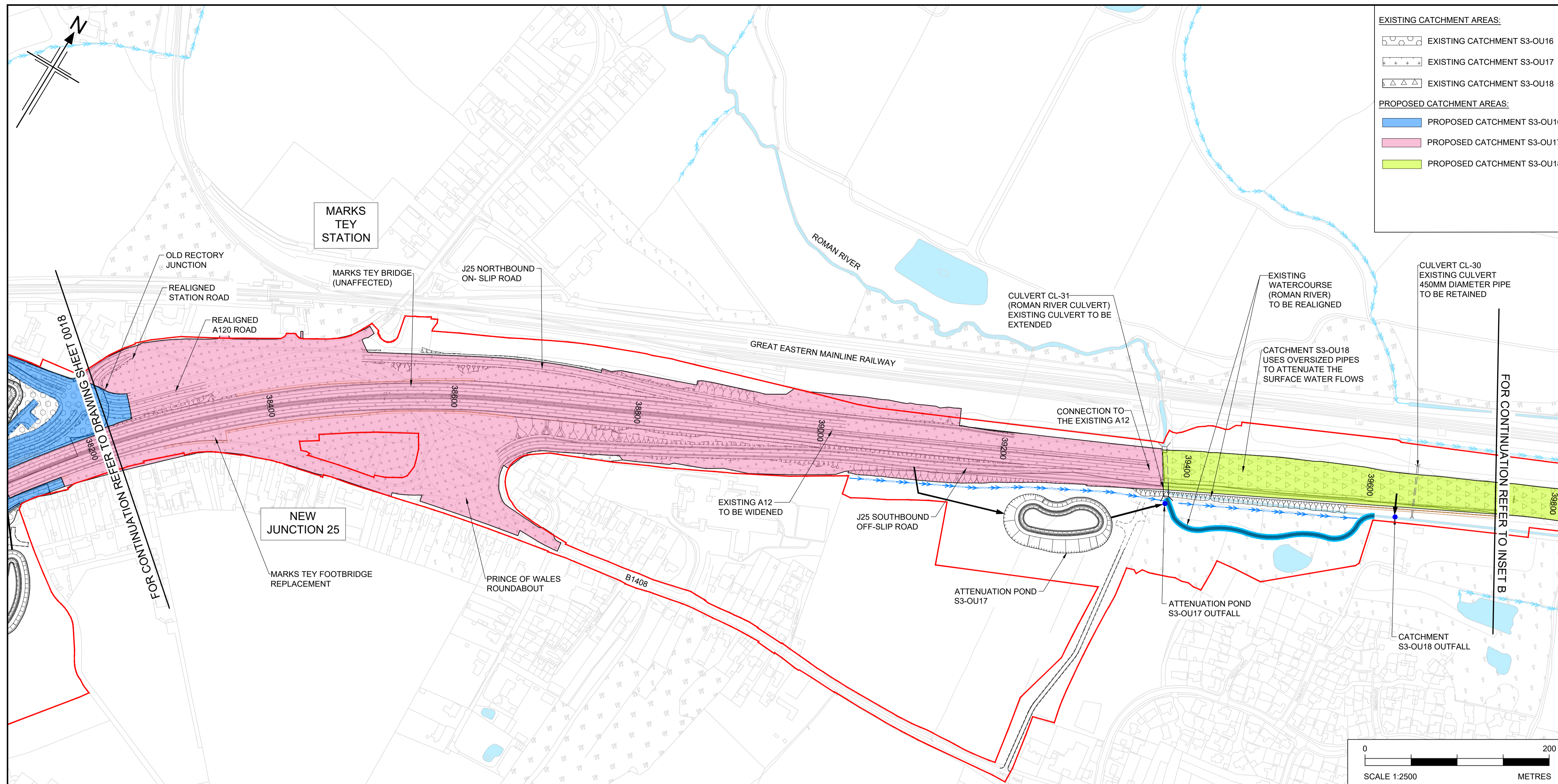
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Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number
HE551497 - JAC - LDC - SCHW - DR - D -0818

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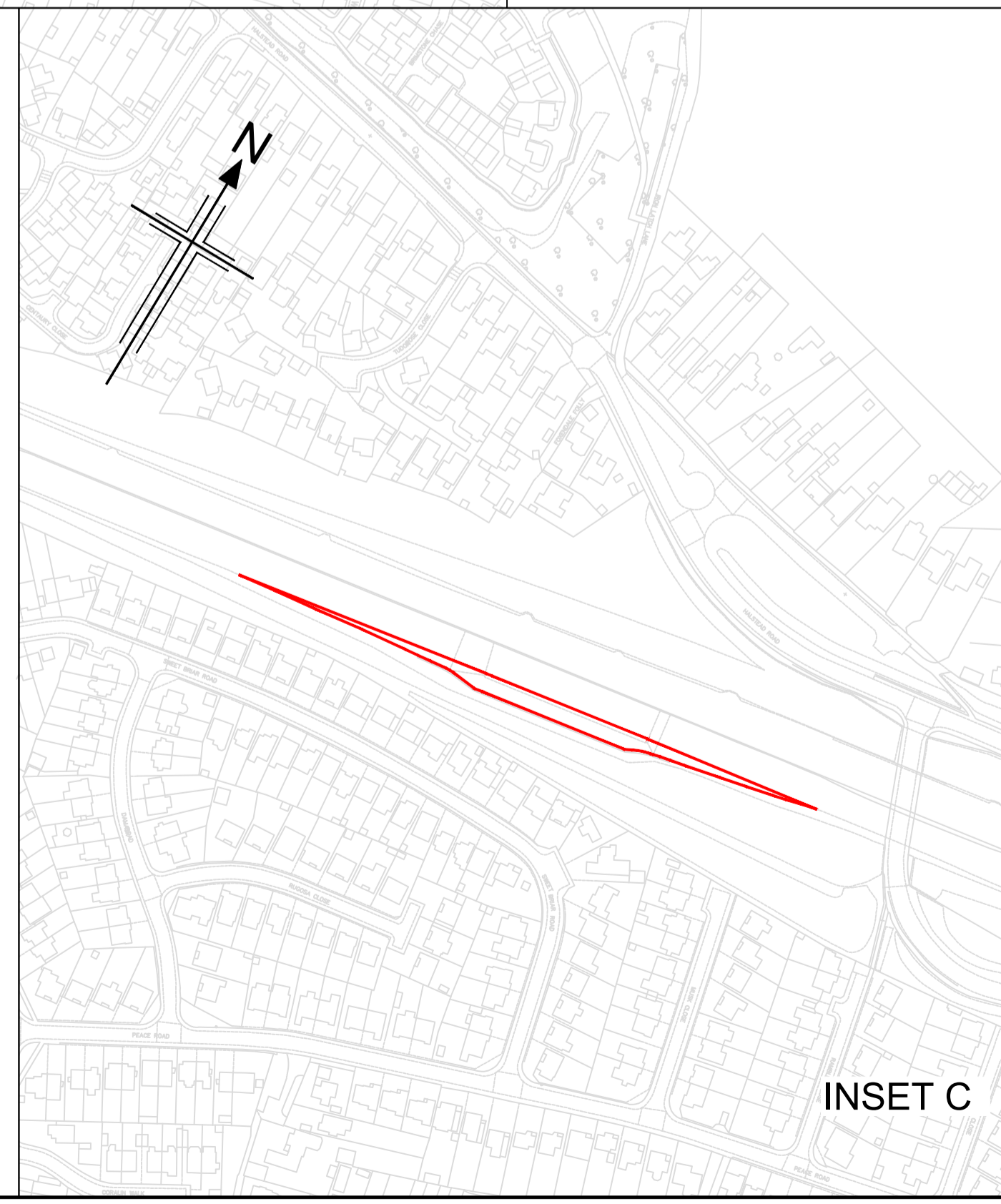
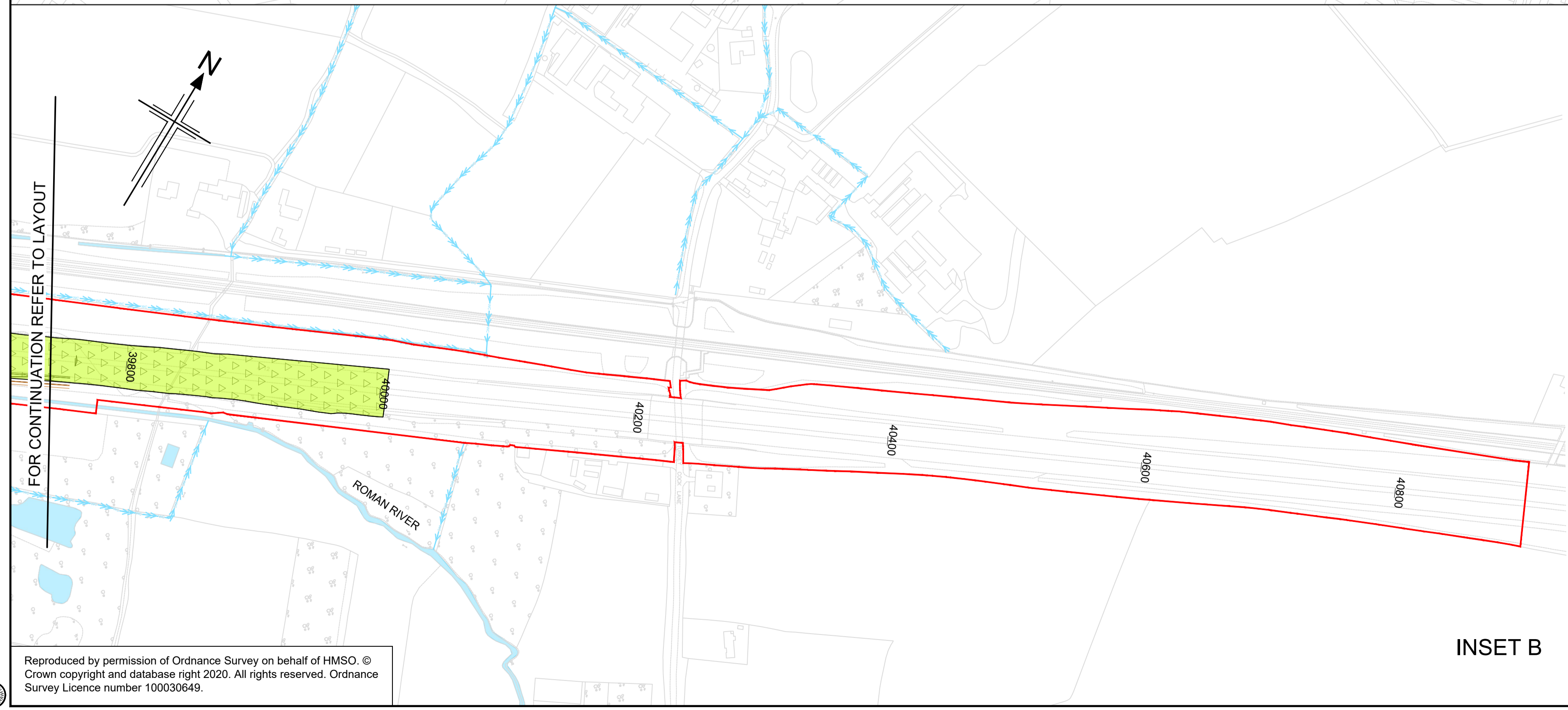
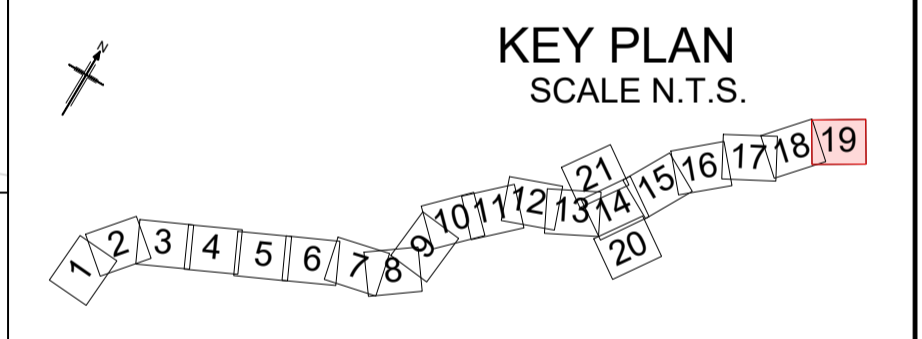




- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-OU16
 - EXISTING CATCHMENT S3-OU17
 - EXISTING CATCHMENT S3-OU18
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-OU16
 - PROPOSED CATCHMENT S3-OU17
 - PROPOSED CATCHMENT S3-OU18

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. LEVELS ARE IN METRES ABOVE ORDNANCE DATUM (mAOD).
 3. REFER TO DRAWING HE551497-JAC-LDC-SCHW-DR-D-0800 FOR KEY PLAN.
 4. THESE DRAINAGE AND SURFACE WATER PLANS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS, IN PARTICULAR THE SURFACE WATER DRAINAGE STRATEGY REPORT DOCUMENTED IN APPENDIX 14.6 OF THE ENVIRONMENTAL STATEMENT (TR010060/APP/6.3).
 5. ALL SOLID HATCHES SHOW THE PROPOSED HIGHWAY DRAINAGE CATCHMENTS INCLUDING CARRIAGEWAYS, VERGES AND CUTTINGS. FOR DETAILED INFORMATION ON PAVED AREAS (NEW PAVED AREAS AND/OR INCREASE IN PAVED AREAS) AND PROPOSED DRAINAGE CATCHMENTS, REFER TO ANNEX B OF THE SURFACE WATER DRAINAGE STRATEGY REPORT.

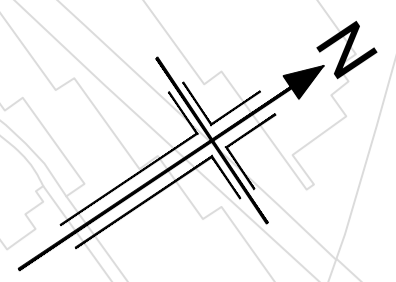
- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
 - PROPOSED SWALE/VEGETATED DITCH
 - PRE-EARTHWORKS DRAINAGE (PROPOSED DITCH)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE RETAINED)
 - PRE-EARTHWORKS DRAINAGE (EXISTING DITCH TO BE ABANDONED)
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 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
 - PROPOSED CULVERT
 - MINOR WATERCOURSE (TO BE RETAINED)
 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



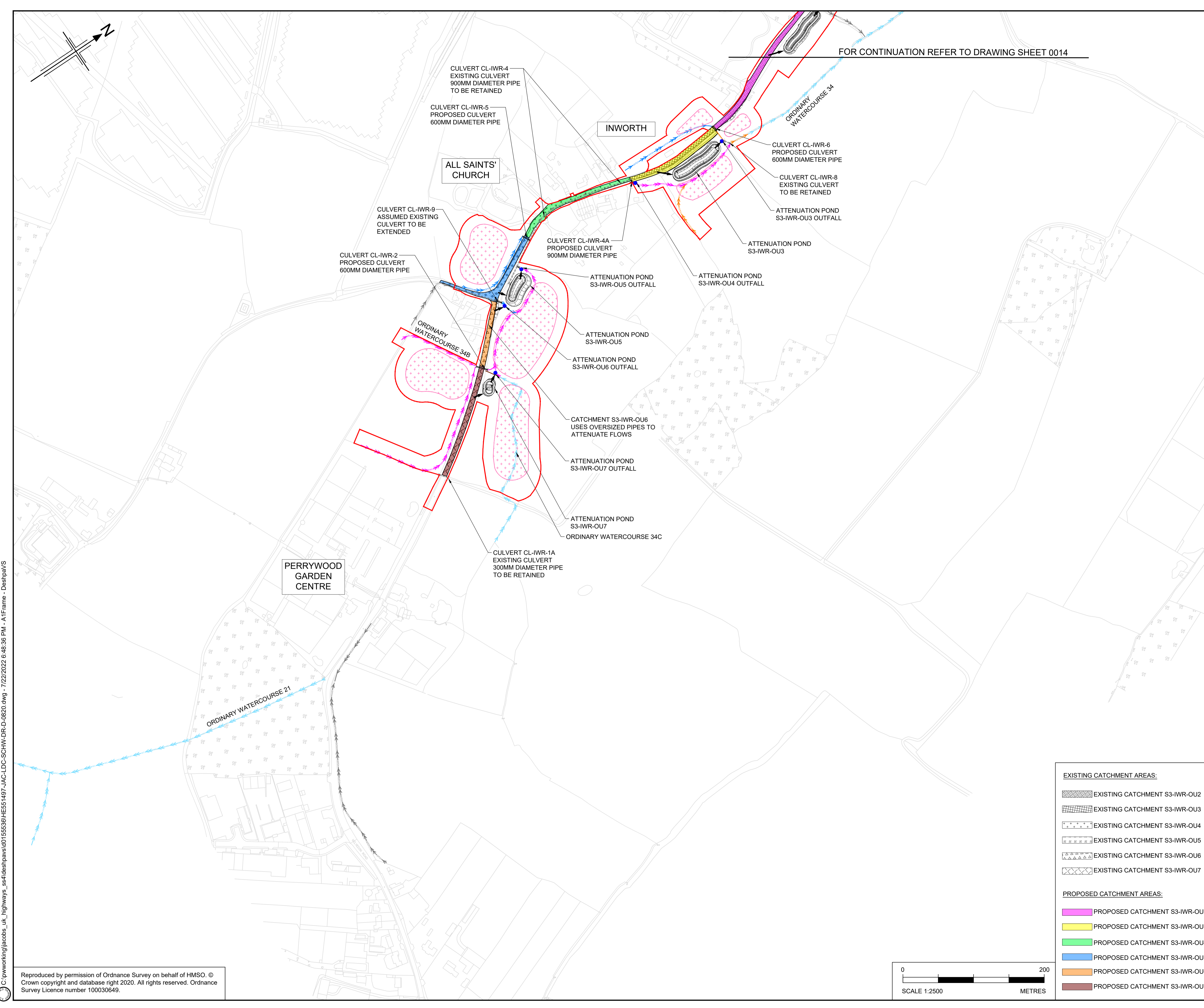
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Drawing title: DRAINAGE AND SURFACE WATER PLANS SHEET 19 OF 21			
Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
Scale at A1 (841x594mm)	1:2500	S4	
Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	
Drawing number	PIN	Originator	Volume
HE551497	JAC	LDC	-
	SCHW	-DR-	D-0819

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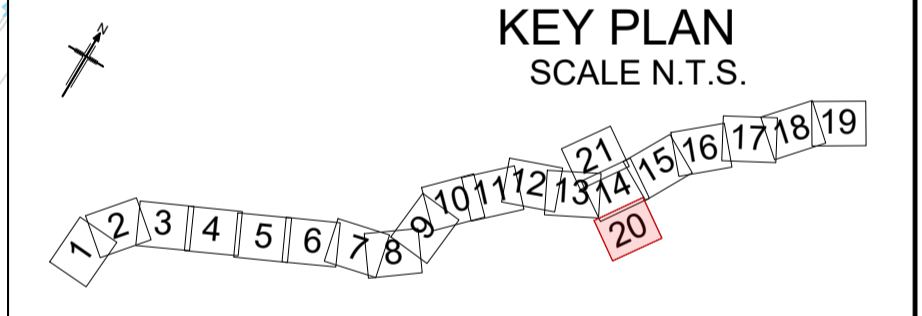


FOR CONTINUATION REFER TO DRAWING SHEET 0014



- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
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- LEGEND**
- ORDER LIMITS
 - PROPOSED HIGHWAY DRAINAGE OUTFALL
 - PROPOSED ATTENUATION POND
 - PROPOSED ATTENUATION POND ACCESS TRACK
 - PROPOSED GEOCELLULAR ATTENUATION STORAGE
 - INDICATIVE OUTFALL ROUTE
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 - PRE-EARTHWORKS DRAINAGE (DIVERTED/REGRADED DITCH)
 - PRE-EARTHWORKS DRAINAGE (PROPOSED FILTER DRAIN)
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 - EXISTING CULVERT (TO BE RETAINED)
 - EXISTING CULVERT (TO BE ABANDONED)
 - EXISTING CULVERT (TO BE EXTENDED)
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 - MINOR WATERCOURSE (TO BE ABANDONED)
 - MINOR WATERCOURSE (PROPOSED DIVERSION)
 - PROPOSED FLOOD BUND
 - PROPOSED FLOOD MITIGATION AREA
 - EXISTING WATERBODIES/ MAIN RIVER
 - PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG

Development Consent Order Number: TR010060
Development Consent Order Drawing Number: TR010060/APP/2.13



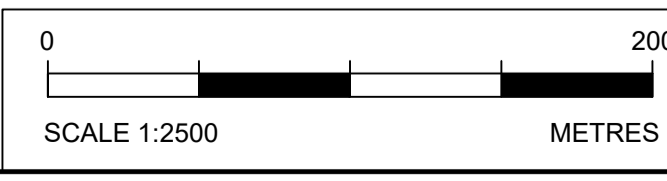
Client: national highways
Project: A12 CHELMSFORD TO A120 WIDENING SCHEME

DRAINAGE AND SURFACE WATER PLANS
SHEET 20 OF 21

Regulation	REGULATION 5(2)(g)		
Purpose of issue	DCO APPLICATION		
State Code	Preliminary		
Project Stage	PCF 3	Drawing status	
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Jacobs No.	B36601D1	Rev	
Client no.	HE551497	P01	

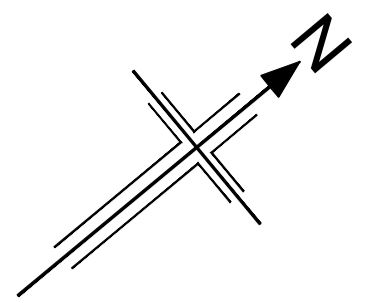
Drawing number: HE551497 - JAC - LDC - SCHW - DR - D - 0820
PIN: JAC, Originator: JAC, Volume: LDC, Location: SCHW, Type: DR, Role: D, Number: 0820

- EXISTING CATCHMENT AREAS:**
- EXISTING CATCHMENT S3-IWR-OU2
 - EXISTING CATCHMENT S3-IWR-OU3
 - EXISTING CATCHMENT S3-IWR-OU4
 - EXISTING CATCHMENT S3-IWR-OU5
 - EXISTING CATCHMENT S3-IWR-OU6
 - EXISTING CATCHMENT S3-IWR-OU7
- PROPOSED CATCHMENT AREAS:**
- PROPOSED CATCHMENT S3-IWR-OU2
 - PROPOSED CATCHMENT S3-IWR-OU3
 - PROPOSED CATCHMENT S3-IWR-OU4
 - PROPOSED CATCHMENT S3-IWR-OU5
 - PROPOSED CATCHMENT S3-IWR-OU6
 - PROPOSED CATCHMENT S3-IWR-OU7



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NOTES

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LEGEND

- ORDER LIMITS
- PROPOSED HIGHWAY DRAINAGE OUTFALL
- PROPOSED ATTENUATION POND
- PROPOSED ATTENUATION POND ACCESS TRACK
- PROPOSED GEOCELLULAR ATTENUATION STORAGE
- INDICATIVE OUTFALL ROUTE
- PROPOSED SWALE/ VEGETATED DITCH
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- EXISTING CULVERT (TO BE EXTENDED)
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- MINOR WATERCOURSE (TO BE RETAINED)
- MINOR WATERCOURSE (TO BE ABANDONED)
- MINOR WATERCOURSE (PROPOSED DIVERSION)
- PROPOSED FLOOD BUND
- PROPOSED FLOOD MITIGATION AREA
- EXISTING WATERBODIES/ MAIN RIVER
- PROPOSED WATERCOURSE DIVERSION (MAIN RIVER)

KEY PLAN
SCALE N.T.S.

P01	22/07/22	FINAL FOR DCO APPLICATION	PJ	AM	JT	SG
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
Development Consent Order Number:			Development Consent Order Drawing Number:			
TR010060			TR010060/APP/2.13			



Project
A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title
DRAINAGE AND SURFACE WATER PLANS
SHEET 21 OF 21

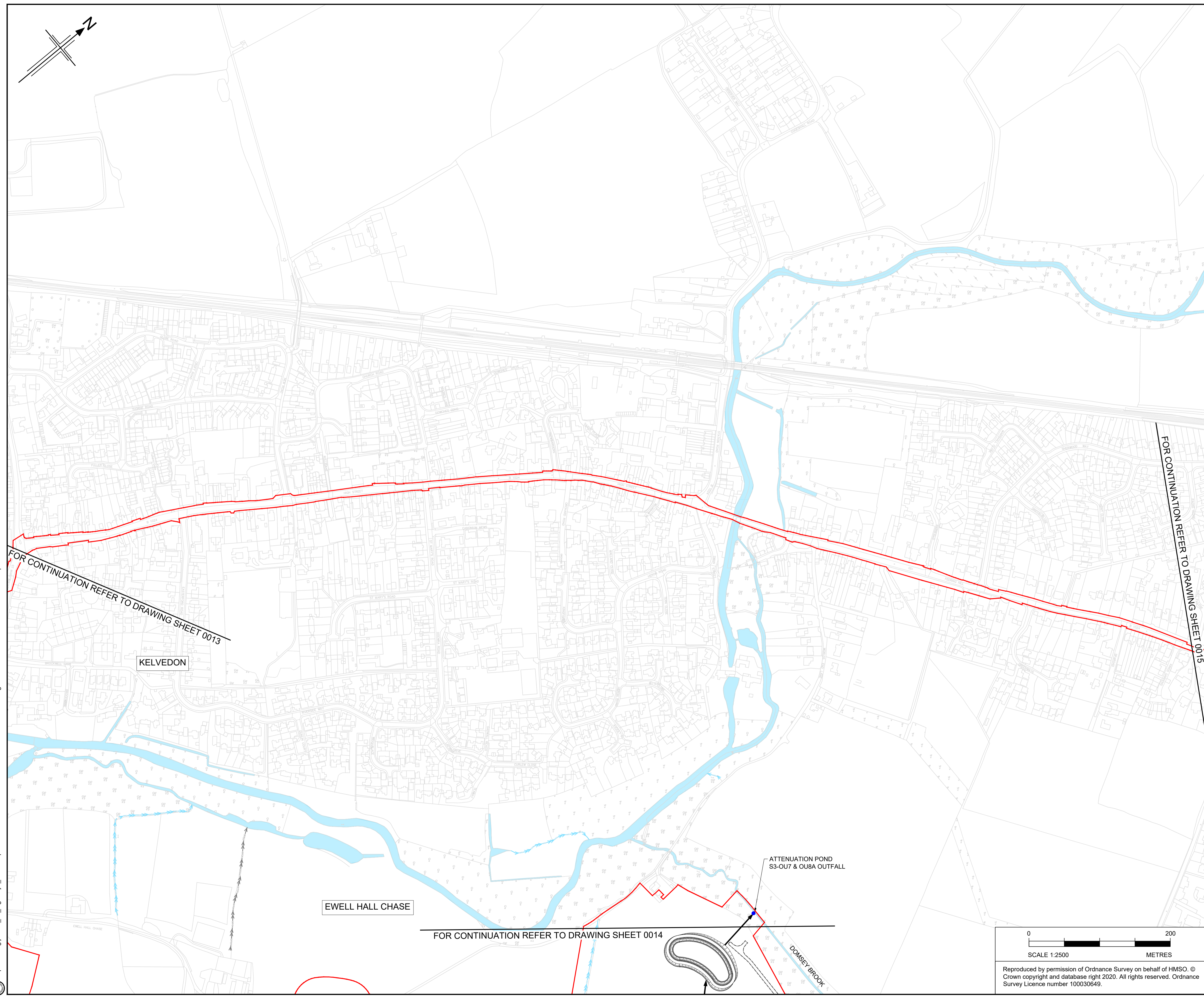
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Purpose of issue	DCO APPLICATION	
State Code	Preliminary	
Project Stage	PCF 3	Drawing status
Scale at A1 (841x594mm)	1:2500	S4
Jacobs No.	B36601D1	Rev
Client no.	HE551497	P01

Drawing number
HE551497 - JAC - LDC - SCHW - DR - D - 0821



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FOR CONTINUATION REFER TO DRAWING SHEET 0013

FOR CONTINUATION REFER TO DRAWING SHEET 0015

FOR CONTINUATION REFER TO DRAWING SHEET 0014

ATTENUATION POND
S3-OU7 & OU8A OUTFALL

EWELL HALL CHASE

KELVEDON

DOMSEY BROOK