

A12 Chelmsford to A120 widening scheme

Map book 1: General Arrangements
(Set 3 of 3)

A12 Chelmsford to A120 widening scheme map books

The three map books prepared for this statutory consultation contain plans of the proposed scheme under the following headings:

- Map book 1: General arrangements (layout plans)
- Map book 2: Land use plans
- Map book 3: Engineering plans

These plans show the proposed scheme in detail to help the viewer better understand our proposals.

The plans run from junction 19 (Boreham interchange) to junction 25 (Marks Tey interchange). Identically numbered sheets in the different map books show the same area. For example, in map book 1, sheet 1 shows the layout around junction 19, and in map book 2, sheet 1 shows the land use plan around junction 19. This principle applies across all the map book 1 and map book 2 sheets but is not carried through into map book 3.

Map book 1: General arrangements

The general arrangements show the layout of the proposed scheme, including:

- Permanent works, new roads, earthworks and roadside features such as signage and lighting columns
- Environmental mitigation, landscaping and tree planting

- Provisional order limits (also known as the red line boundary)
- Open space and replacement land

Map book 2: Land use plans

The land use plans show the areas where we are seeking powers to acquire land and rights permanently. They also show the land we require for a temporary period to construct the proposed scheme. We may need the land permanently for:

- road alignments
- junction improvements
- environmental mitigation
- drainage

Permanent works

Purchase of land or acquisition of permanent rights will be required for the route of the road, to reconnect local roads and for associated structures like drainage ponds.

Permanent rights

Land used temporarily for construction and thereafter required for the creation of new permanent rights for example, to maintain the proposed scheme including the highway and associated apparatus, for rights of access or for rights to operate and maintain new statutory undertaker apparatus. It may also be required where existing rights

need to be acquired, suspended, changed or extinguished to construct and operate the proposed scheme.

Temporary works

Temporary use of land is needed for the proposed scheme to be constructed safely. The plans show land that may be required temporarily for the main construction compounds at various locations along the route. We will also require temporary access over land to divert utilities such as gas pipelines, electricity cables and water pipes. Any land that is only required temporarily will be returned to its previous use wherever possible once construction is complete.

Map book 3: Engineering plans

These plans show the highway details of the route in a 'plan and profile' (level above or below existing ground) format. The drawings are split into two views, with the plan on the top and the profile underneath.

The profile shows the road level in relation to the existing ground at given distances along the route, referred to as chainages. An exaggerated scale is used in the profile to help show the differences in levels and slopes of the design. The profile also shows where existing roads and public rights of way cross over or under the route.

All levels are given in relation to sea level. As is the standard approach on engineering projects, sea level is taken from a reference point at Newlyn in Cornwall. The profile reference level might be different on each drawing.

HIGHWAYS

- New or realigned road
- New/realigned private means of access
- New/realigned maintenance access
- Existing public right of way / walking, cycling and horse-riding user route
- Existing public right of way / walking, cycling and horse-riding user route - stopped up
- New/realigned public right of way / walking, cycling and horse-riding user route
- Controlled crossing location
- Uncontrolled crossing location
- Technology gantry
- Gantry mounted direction sign
- Direction sign
- Regulatory sign
- Warning sign
- Informatory sign
- Bollard with sign
- Bollard with plain face
- Lighting column

DRAINAGE

- Existing culvert (to be retained)
- Proposed culvert - minor watercourse
- Existing culvert (to be extended)
- Existing culvert (to be abandoned)
- Proposed watercourse diversion (main river)
- Water flow direction
- Proposed cut-off ditch
- Existing ditch / minor watercourse (to be retained)
- Existing ditch / minor watercourse (to be realigned)
- Existing ditch / minor watercourse (to be abandoned)
- Attenuation pond (with outfall connection)
- Underground storage units
- Flood mitigation areas
- Flood plain compensation (minor watercourse)
- Flood extents (100 year)
- Flood bunds (minor watercourse)

ENVIRONMENT

EXISTING

- Open water
- Retained trees, hedges and shrubs
- Ancient woodland
- Ancient, noble and veteran trees
- Conservation areas
- Local nature reserve
- Listed buildings
- Park
- Scheduled monument
- Trees protected by Tree Preservation Order (area or individual tree)

PROPOSED

- Open water
- Woodland planting of trees and shrubs
- Riparian Woodland
- Tall screen planting to elevate flight path of bats & barn owls
- Individual trees
- Hedge
- Hedge with intermittent trees
- Grassland
- Intermittent trees and shrubs
- Ecology pond (indicative symbol)
- Aquatic and marginal planting
- Protected species crossing
- Ecology mitigation area / Ecology protection measures
- Noise barrier location / Acoustic barrier
- Ecological fencing

ENGINEERING & CONSTRUCTION

- Cutting
- Embankment
- Proposed mitigation earthworks
- Carriageway
- Footway / Hardstanding / Island
- Verge
- Proposed borrow pit
- New or modified bridge deck
- Existing bridge deck
- Proposed retaining wall
- Existing retaining wall

BOUNDARIES

- Provisional Order Limits

NOTES

THIS GENERAL ARRANGEMENT LEGEND SHOULD BE READ IN CONJUNCTION WITH:

1. THE LOCATION KEY PLAN.
2. THE GENERAL ARRANGEMENT DRAWINGS.



P01	22/04/21	DESIGN FIX 2	SH	CA	RM	RC
P02	21/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: Designer:
 Jacobs, 2nd floor, Coltons Centre, London, SE1 2QG
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 www.jacobs.com

Client:

Project REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

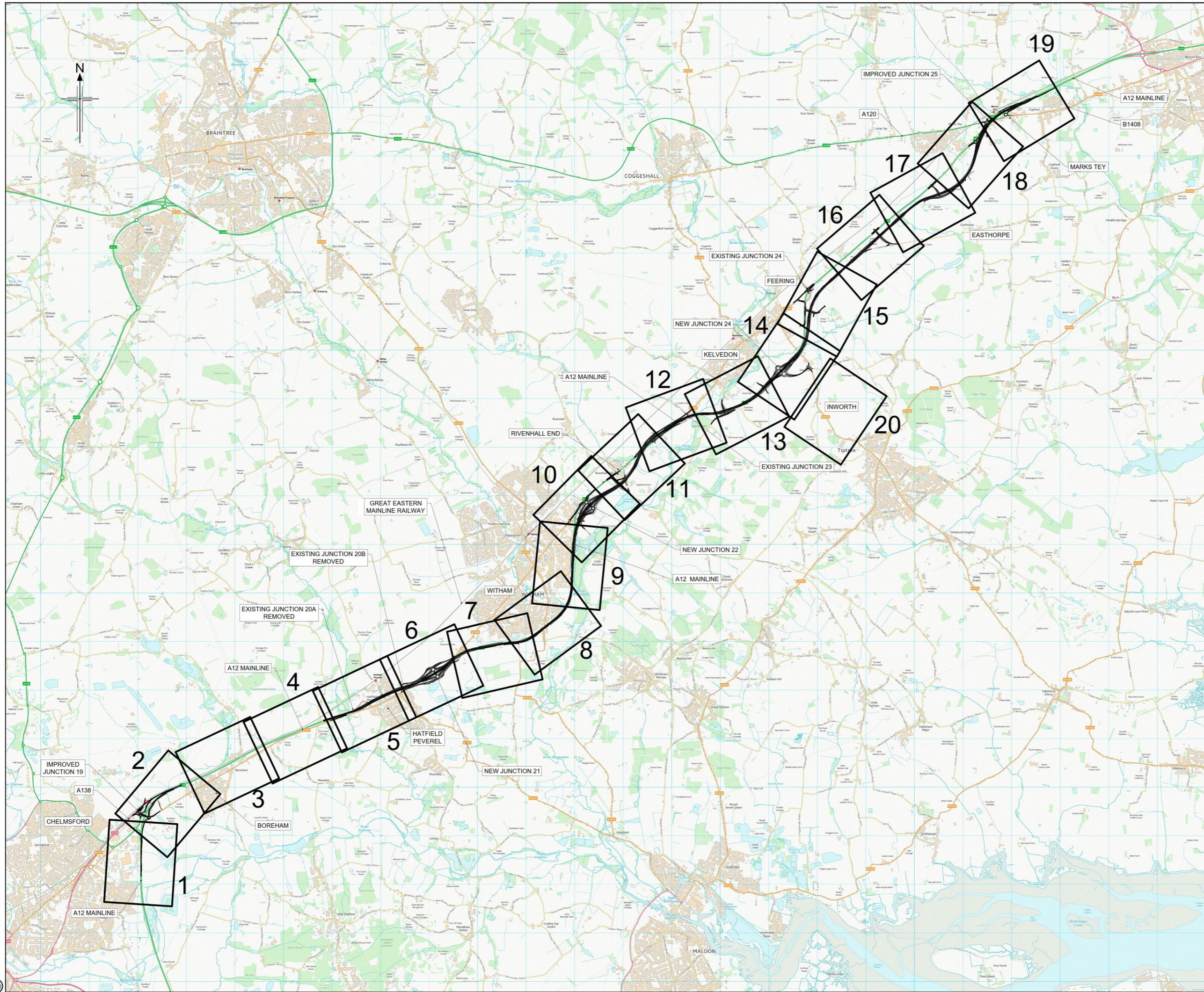
Drawing title
**GENERAL ARRANGEMENT
 LEGEND**

Drawing status **S2 - SUITABLE FOR INFORMATION**

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Project Stage	PCF3
Scale	DO NOT SCALE
Jacobs No.	B36601D1
Client no.	HE551497
Rev	P02

Drawing number: HE551497 - JAC - HGN - SCHW
 Originator: JAC
 Volume: HGN - DR - C - 0066
 Location: SCHW
 Type: DR
 Role: C
 Number: 0066

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Notes:
 1. This key plan is to be used with the General Arrangement Drawings and Land Use Plans.

Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	27/04/21	DESIGN FIX 2	SH	CA	RM	RC
P03	21/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	DT
P04	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

Contractor: **COSTAIN** Designer: **Jacobs**
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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **KEY PLAN**

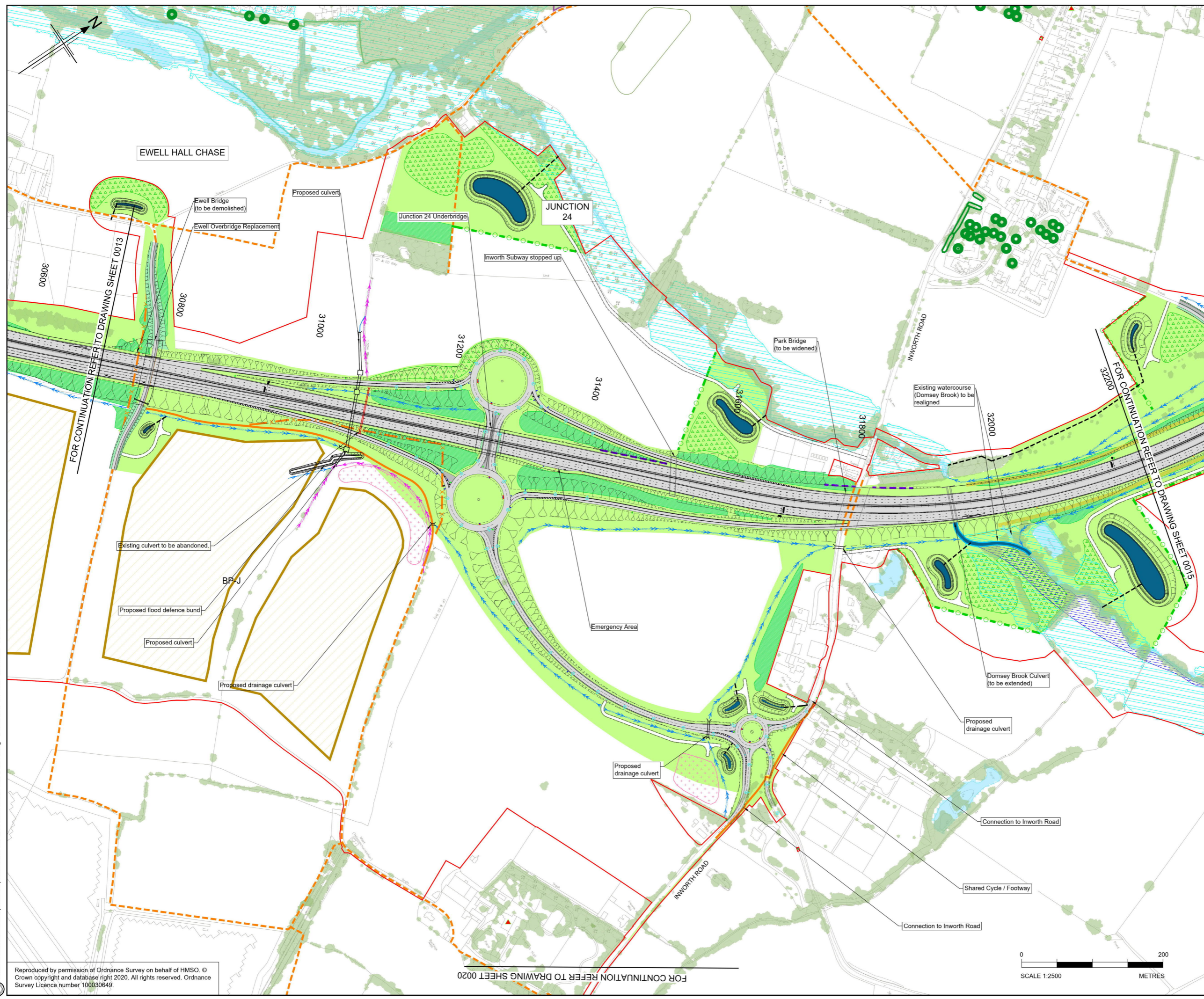
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Client no.	HE551497	

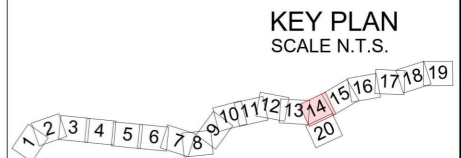
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 Originator: **JAC** Volume: **-HGN-**
 Location: **SCHW** Type: **-DR-** Role: **C** Number: **0026**

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 6. For Key refer to HE551497-JAC-HGN-SCHW-DR-C-0066.
 7. Where the scheme is showing the removal of access to properties, a suitable and convenient replacement will be provided.
 8. Inworth Road north of the A12 would have a reduction in traffic, as traffic from Tiptree would be able to join the A12 directly at the new junction 24 rather than travel via Kelvedon and or Feering. The location of our new junction 24 was proposed by several stakeholders and has several benefits. However, the proposals would see an increase in traffic on Inworth Road south of the A12 using this route to access junction 24 from the south. While our assessments indicate that Inworth Road is suitable for the expected increase in traffic, some changes may help manage the traffic better. We are currently working on potential changes, with Essex County Council, the local planning authorities and the parish council.



P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	22/04/21	DESIGN FIX 2	SH	CA	RM	RC
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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Appr'd

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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: GENERAL ARRANGEMENT
 CH. 30700 TO 32200

SHEET 14 OF 20

Drawing status: S2 - SUITABLE FOR INFORMATION

State Code	Preliminary	
Project Stage	PCF3	
Scale	1:2500	DO NOT SCALE
Jacobs No.	B36601D1	Rev P03
Client no.	HE551497	

Drawing number	HE551497 - JAC - HGN - SCHW	Originator	JAC	Volume	-DR- C -0014
		Location	SCHW	Type	DR- C
		Role		Number	

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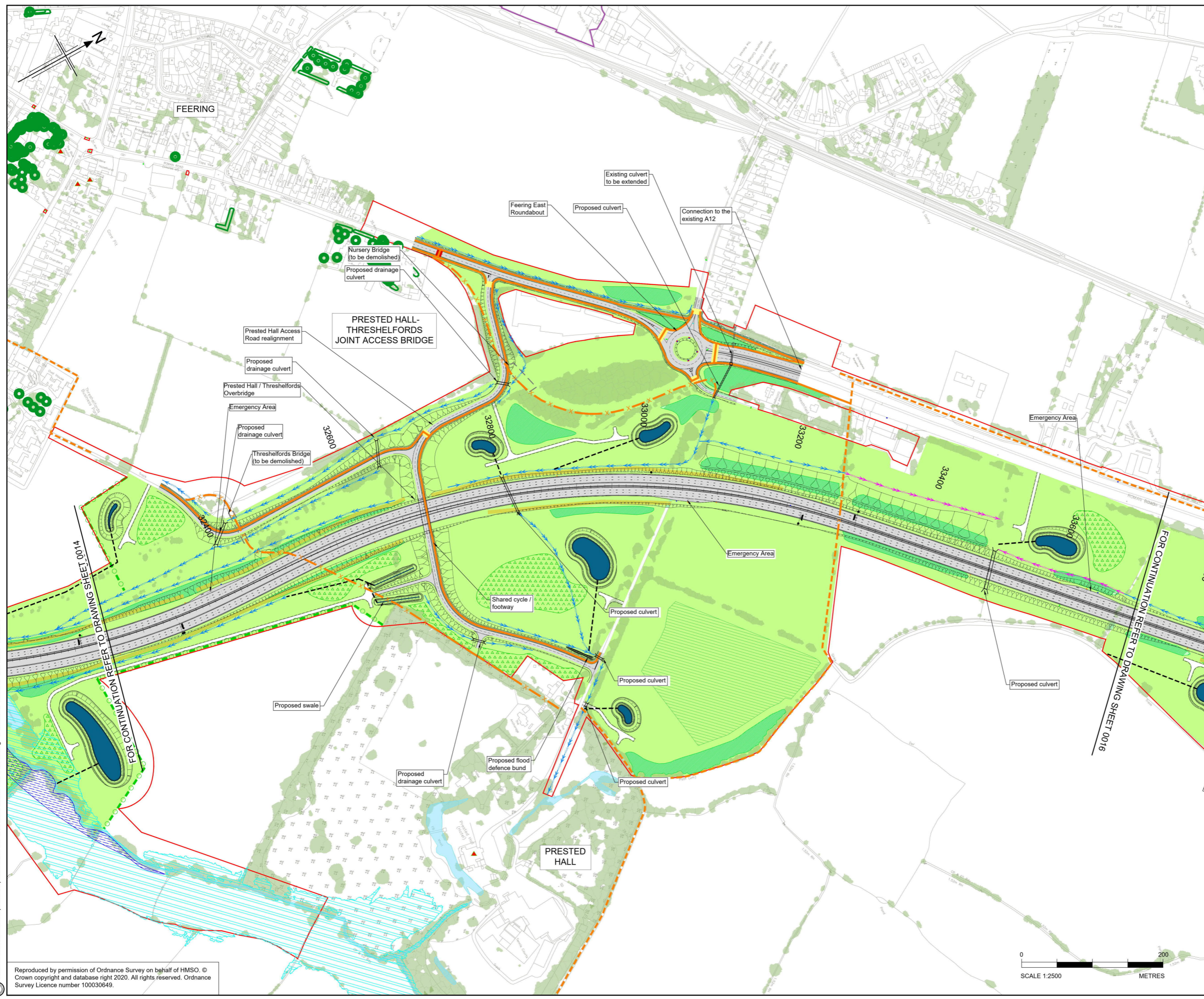
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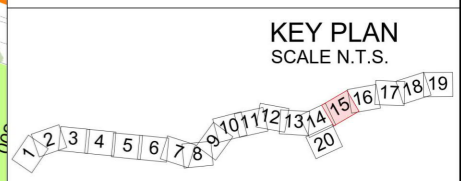
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FOR CONTINUATION REFER TO DRAWING SHEET 0013

FOR CONTINUATION REFER TO DRAWING SHEET 0015



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P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	22/04/21	DESIGN FIX 2	AS	CA	RM	RC
P03	21/05/21	FOR STATUTORY CONSULTATION	AE	CA	RM	DT

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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **GENERAL ARRANGEMENT**
CH. 32200 TO 33700

SHEET 15 OF 20

Drawing status: **S2 - SUITABLE FOR INFORMATION**

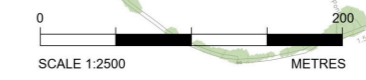
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Jacobs No.	B36601D1	Rev P03
Client no.	HE551497	

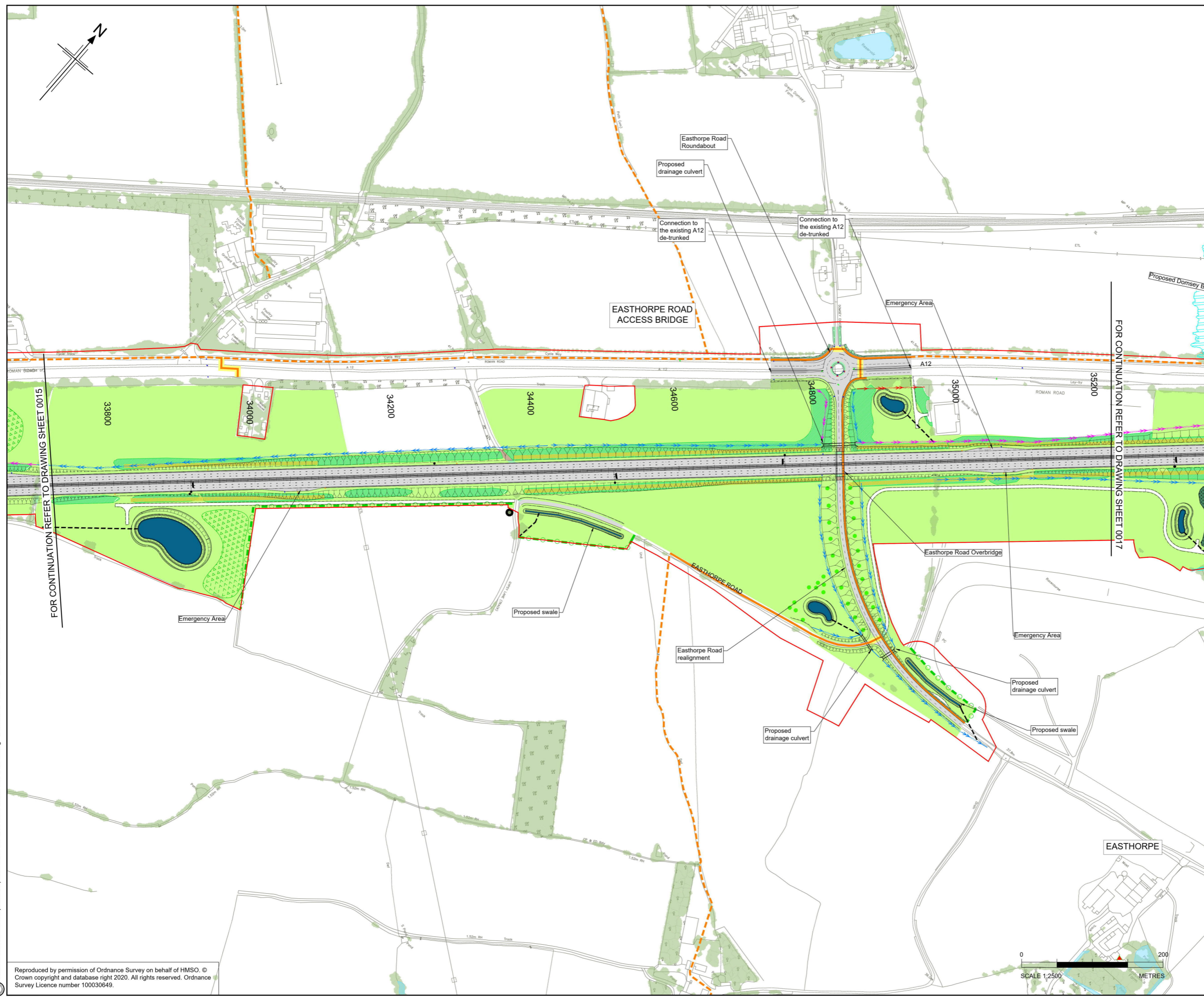
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 Originator: **JAC** Volume: **HGN**
 Location: **SCHW** Type: **DR** Role: **C** Number: **0015**

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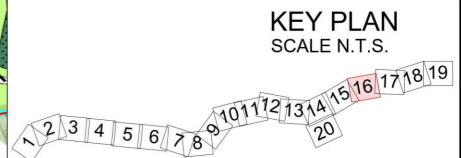




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FOR CONTINUATION REFER TO DRAWING SHEET 0017



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P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
P02	22/04/21	DESIGN FIX 2	AS	CA	RM	RC
P03	21/05/21	FOR STATUTORY CONSULTATION	AE	CA	RM	DT

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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **GENERAL ARRANGEMENT
 CH. 33700 TO 35200**

SHEET 16 OF 20
 Drawing status: **S2 - SUITABLE FOR INFORMATION**

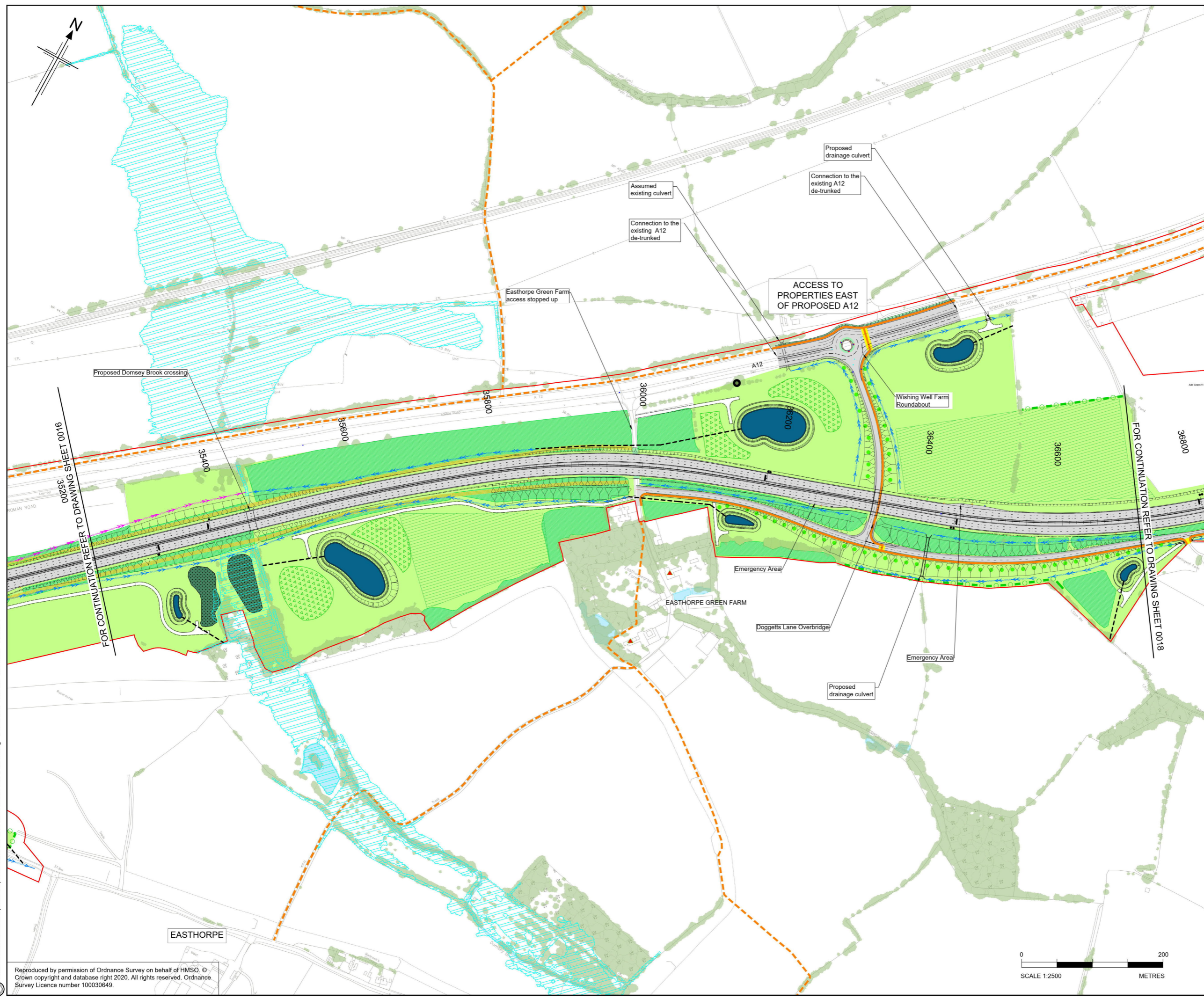
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Client no.	HE551497	

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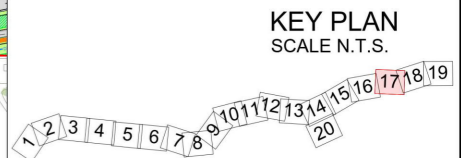
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P01	10/02/21	DESIGN FIX 1	JUG	CA	RM	RC
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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **GENERAL ARRANGEMENT**
CH. 35200 TO 36700

SHEET 17 OF 20

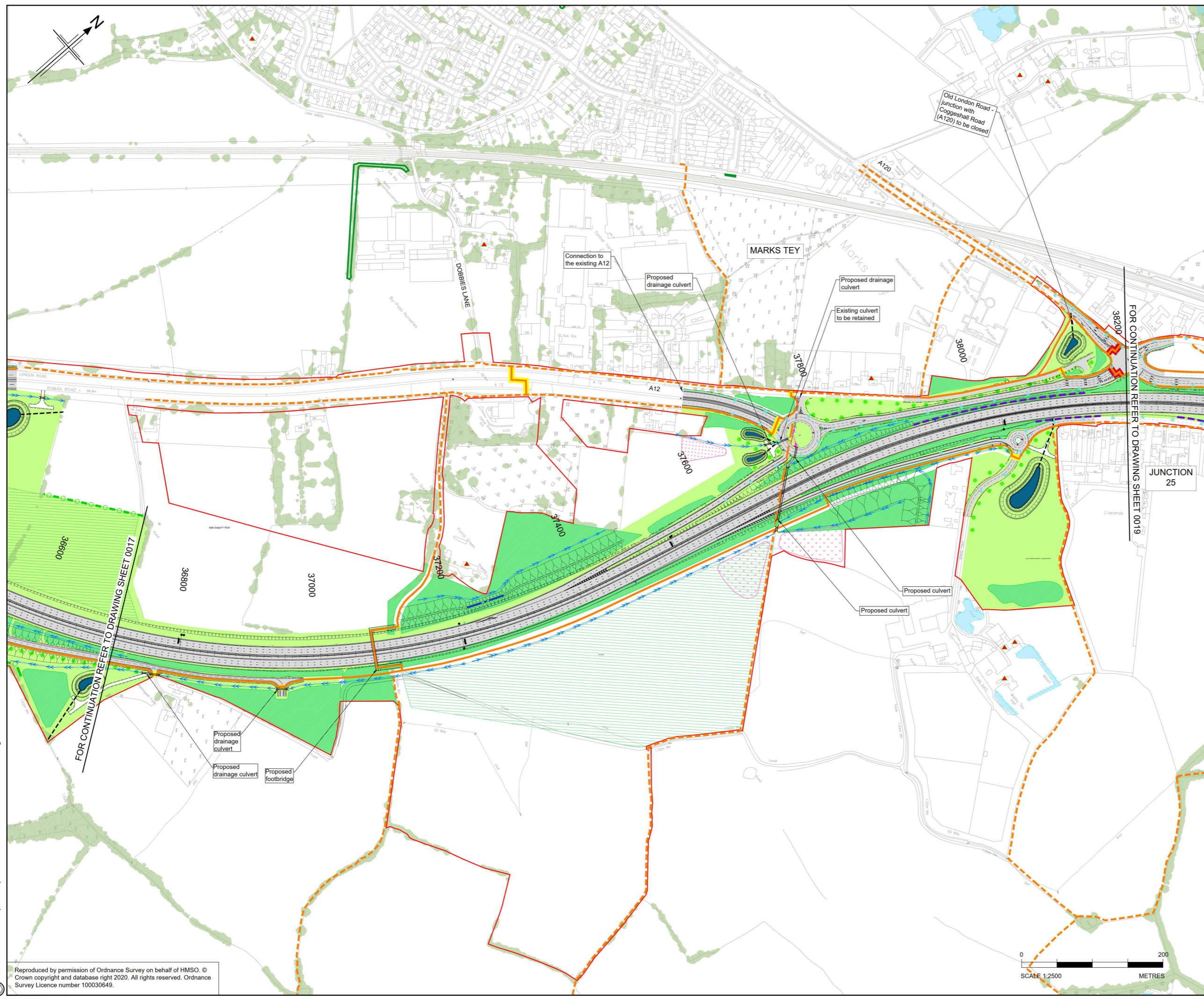
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State Code	Preliminary	
Project Stage	PCF3	
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Client no.	HE551497	

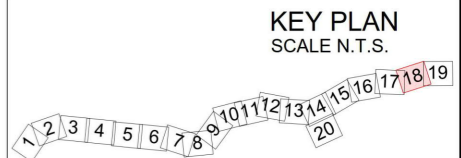
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HE551497 -		Location	SCHW	Type	Role
					Number
					-DR- C -0017

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Contractor: **COSTAIN** Designer: **JACOBS**
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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **GENERAL ARRANGEMENT**
CH. 36700 TO 38200

SHEET 18 OF 20

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary	
Project Stage	PCF3	
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Jacobs No.	B36601D1	Rev P03
Client no.	HE551497	

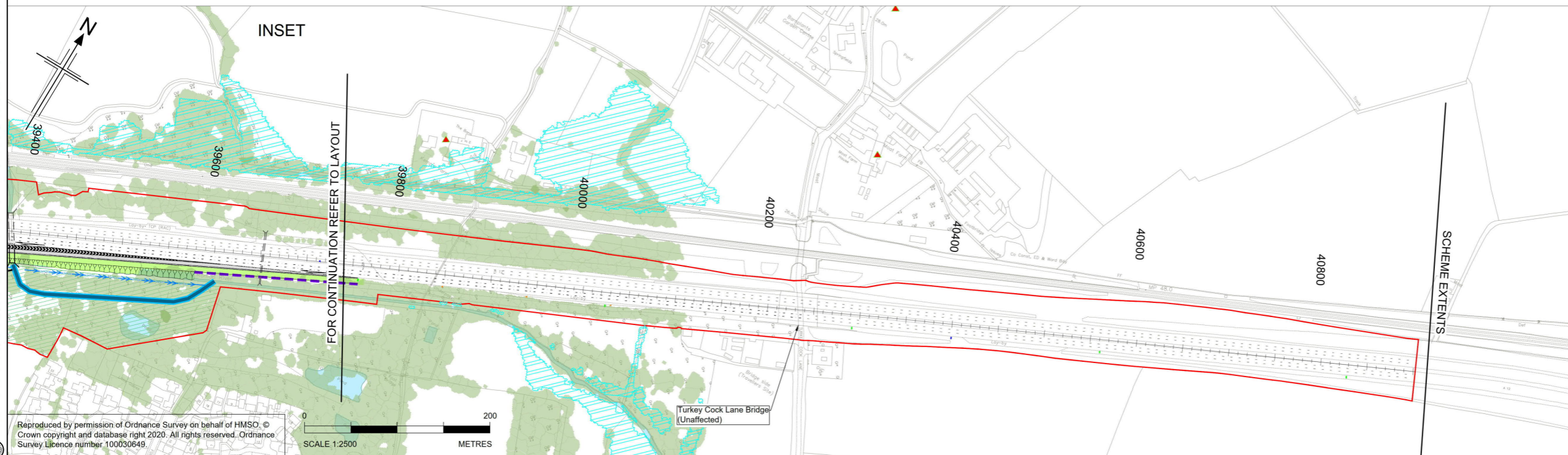
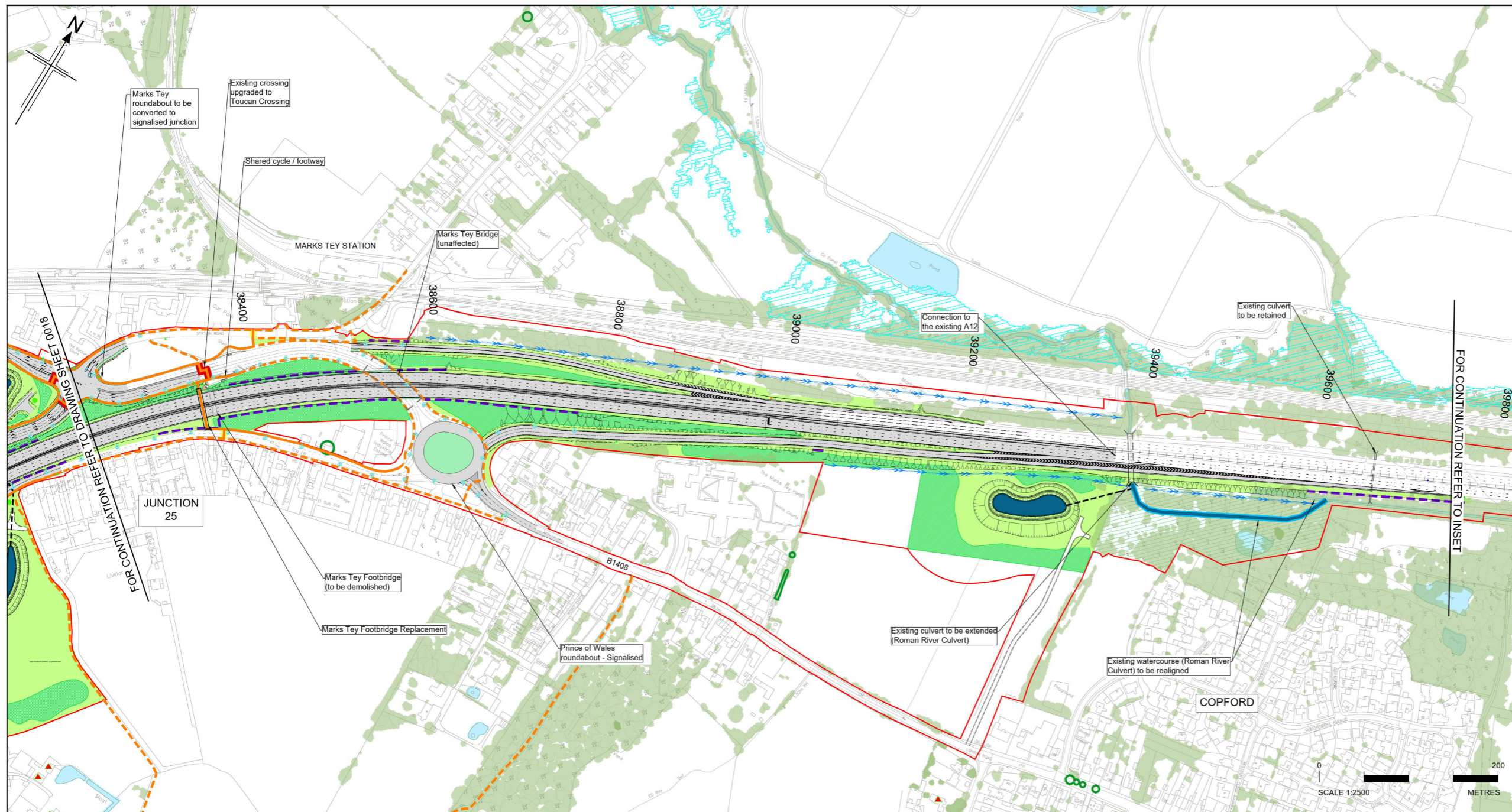
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HE551497 -	JAC	- HGN-
SCHW	Location	Type Role Number
		-DR- C -0018



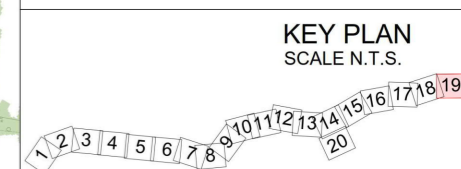
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P02	22/04/21	DESIGN FIX 2	AS	CA	RM	RC
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P04	25/05/21	FOR STATUTORY CONSULTATION	SH	CA	RM	RC

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Client: **highways england**

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: GENERAL ARRANGEMENT
 CH. 38200 TO 39355

SHEET 19 OF 20

Drawing status: S2 - SUITABLE FOR INFORMATION

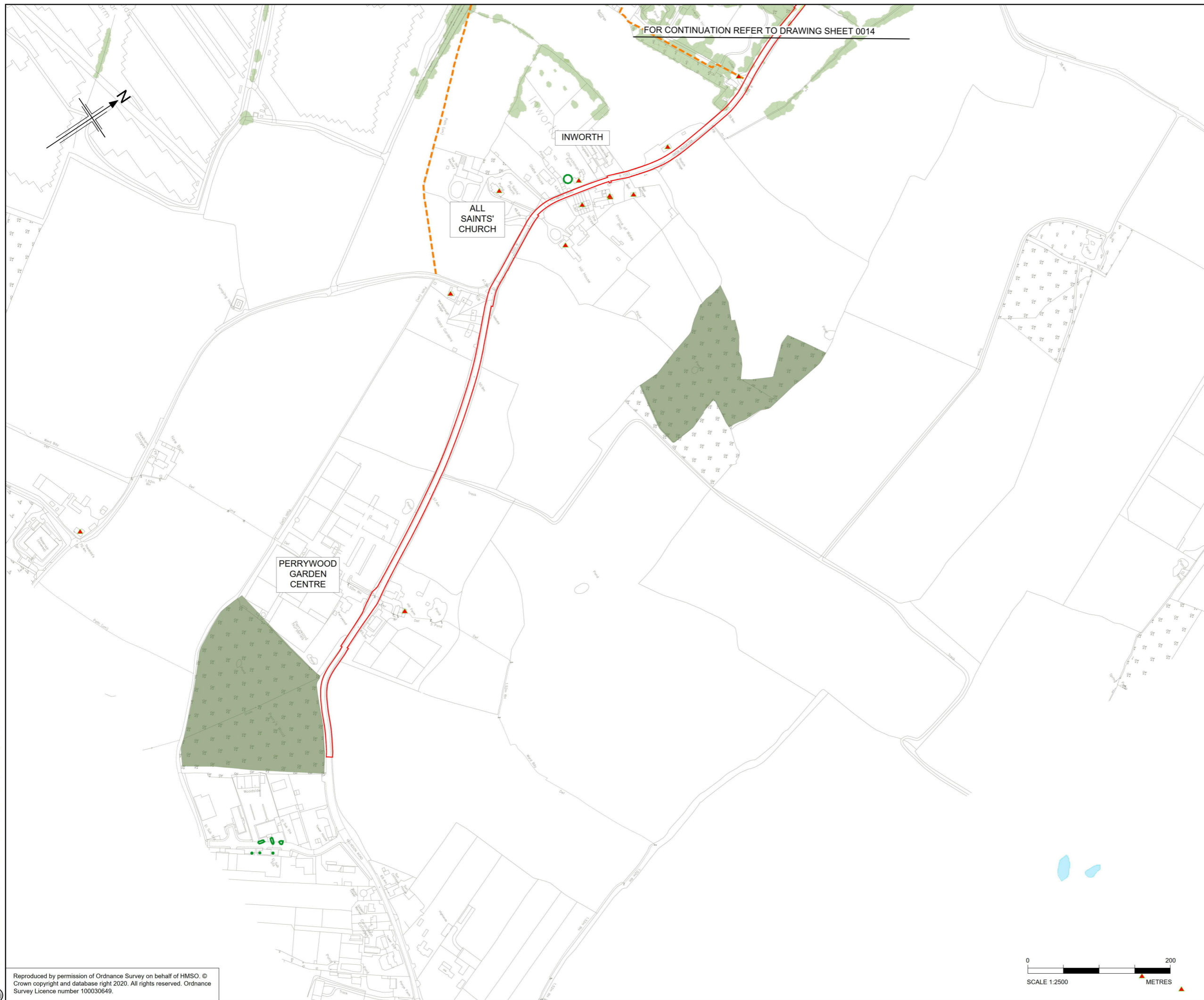
State Code	Preliminary	DO NOT SCALE
Project Stage	PCF3	
Scale	1:2500	Rev
Jacobs No.	B36601D1	P04
Client no.	HE551497	

Drawing number: HE551497 - JAC - HGN - SCHW - DR - C - 0019
 Originator: JAC Volume: HGN-DR-C-0019
 Location: SCHW Type: Role: Number

C:\Users\HoweS1\Desktop\GAs\Exports\HE551497-JAC-HGN-SCHW-DR-C-0019.dwg - 25/05/2021 11:57:04 - A1Frame - HoweS1

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FOR CONTINUATION REFER TO DRAWING SHEET 0014

- Notes**
1. This drawing shall only be used for the design element stated in the drawing title.
 2. All dimensions are in metres unless noted otherwise.
 3. The base mapping is based on Ordnance Survey (O/S) Data.
 4. Only written dimension shall be used.
 5. For Sheet Layout Plan refer to HE551497-JAC-HGN-SCHW-DR-C-0026.
 6. For Key refer to HE551497-JAC-HGN-SCHW-DR-C-0066.
 7. Where the scheme is showing the removal of access to properties, a suitable and convenient replacement will be provided.

KEY PLAN
SCALE N.T.S.

P01	10/02/21	DESIGN FIX 1	JJG	CA	RM	RC
P02	21/05/21	FOR STATUTORY CONSULTATION	AE	CA	RM	DT
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd

Contractor: Designer:
 2nd Floor Coltons Centre, Coltons Lane
 London SE1 2QG, Tel: +44 (0)203 9802000
 www.jacobs.com

Client:

Project: REGIONAL DELIVERY PARTNERSHIP
 A12 CHELMSFORD TO A120 WIDENING SCHEME

Drawing title: **GENERAL ARRANGEMENT**
CH. 18300 TO 19600/20000

SHEET 20 OF 20

Drawing status: **S2 - SUITABLE FOR INFORMATION**

State Code	Preliminary	
Project Stage	PCF3	
Scale	1:2500	DO NOT SCALE
Jacobs No.	B36601D1	Rev P02
Client no.	HE551497	

Drawing number	Originator	Volume
HE551497 -	JAC	- HGN -
SCHW	Location	Type Role Number
		-DR- C -0020



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