

BRADWELL B PROJECT

Volume 2: Figures

October 2020



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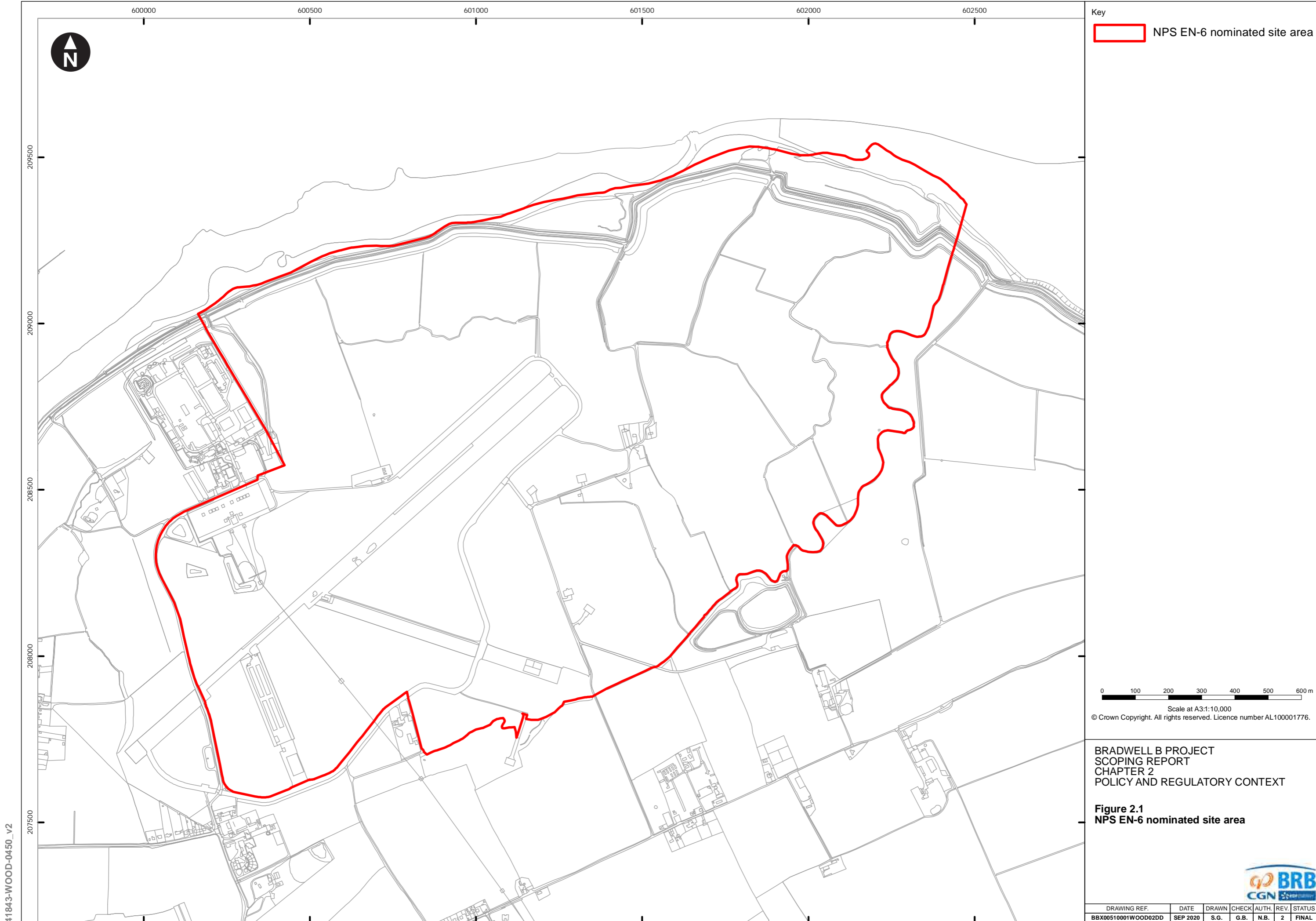
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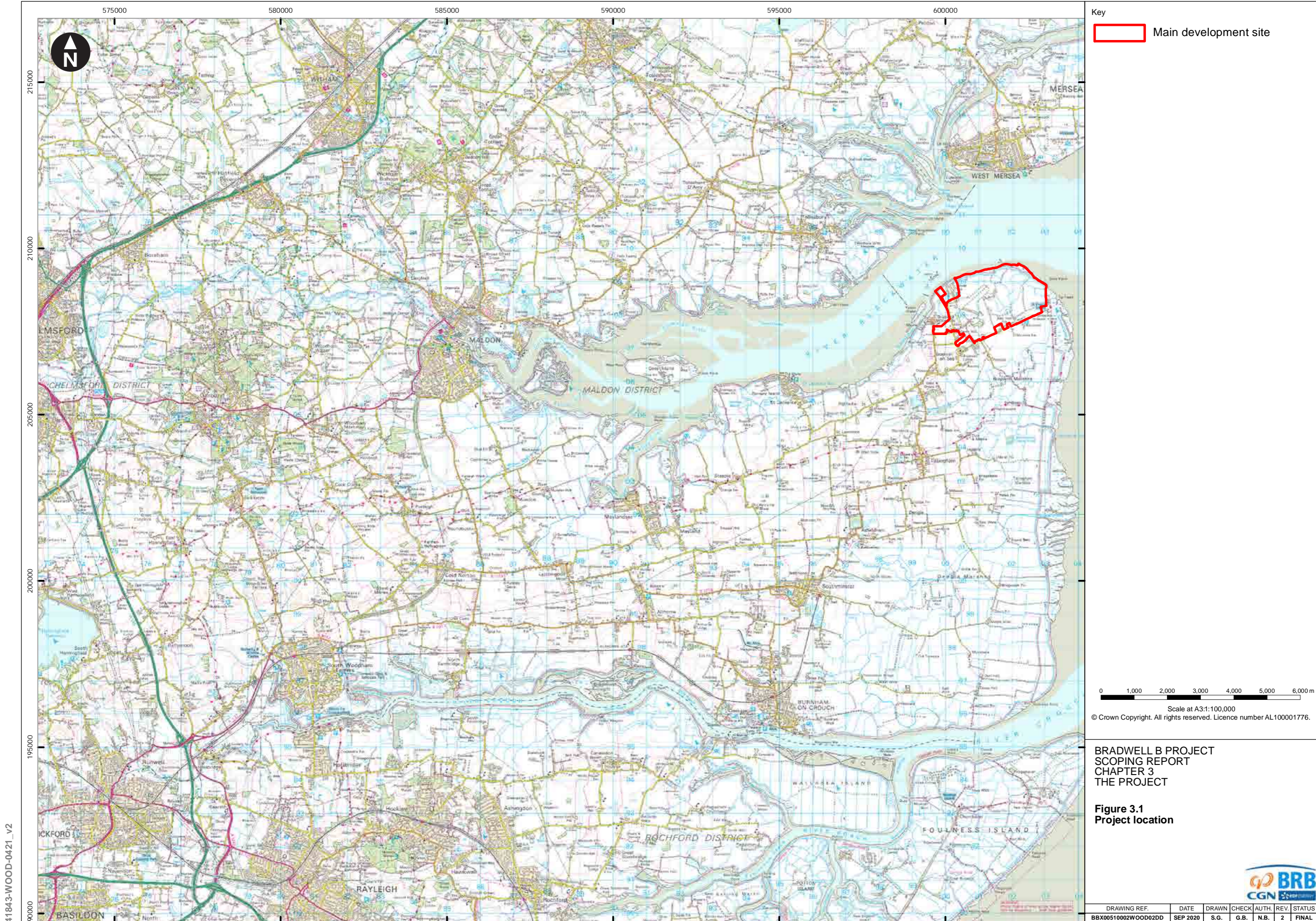
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CHAPTER 2
POLICY AND REGULATORY CONTEXT

Figure 2.1
NPS EN-6 nominated site area



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Key
 Main development site

0 1,000 2,000 3,000 4,000 5,000 6,000 m
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 CHAPTER 3
 THE PROJECT

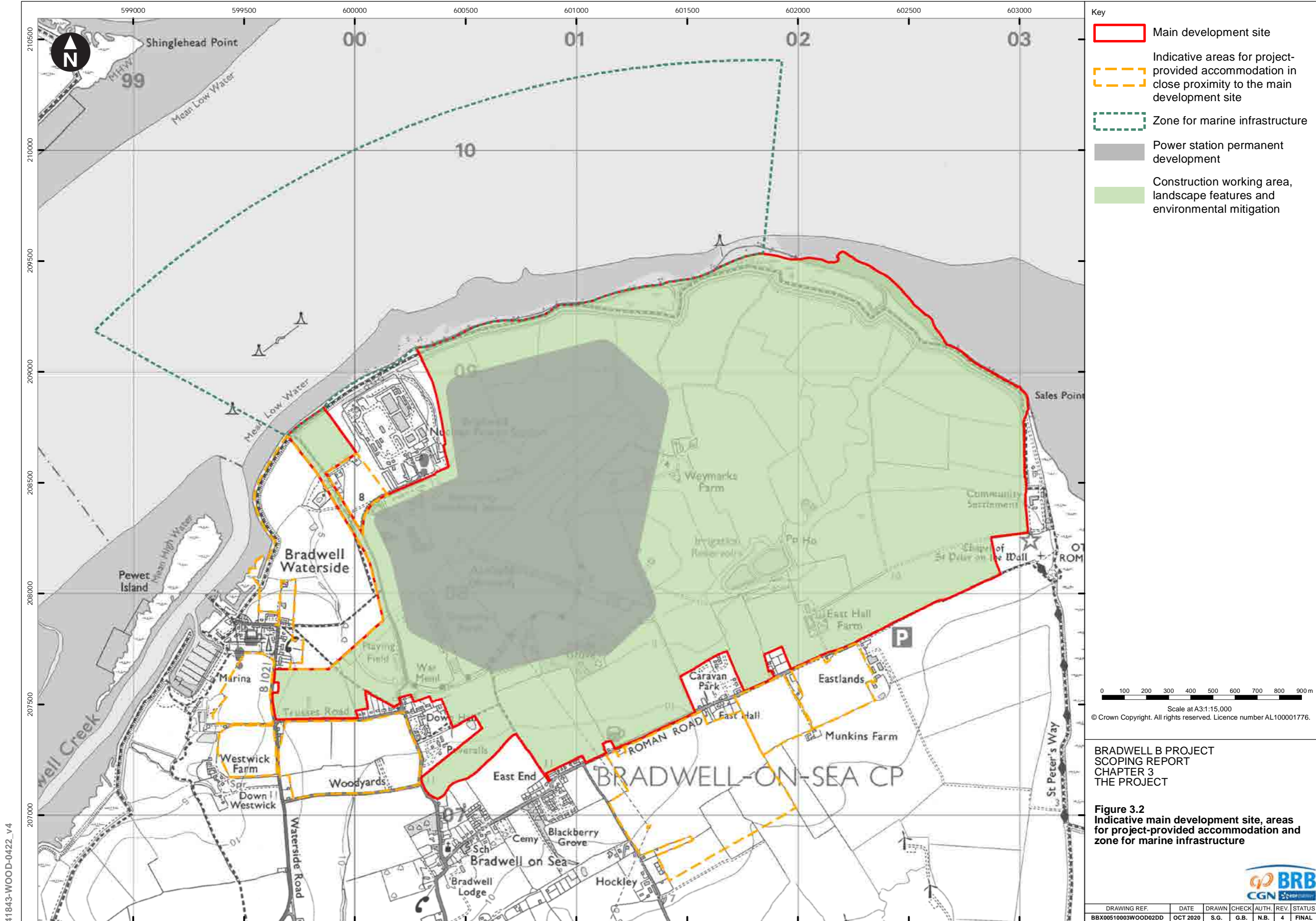
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 Project location

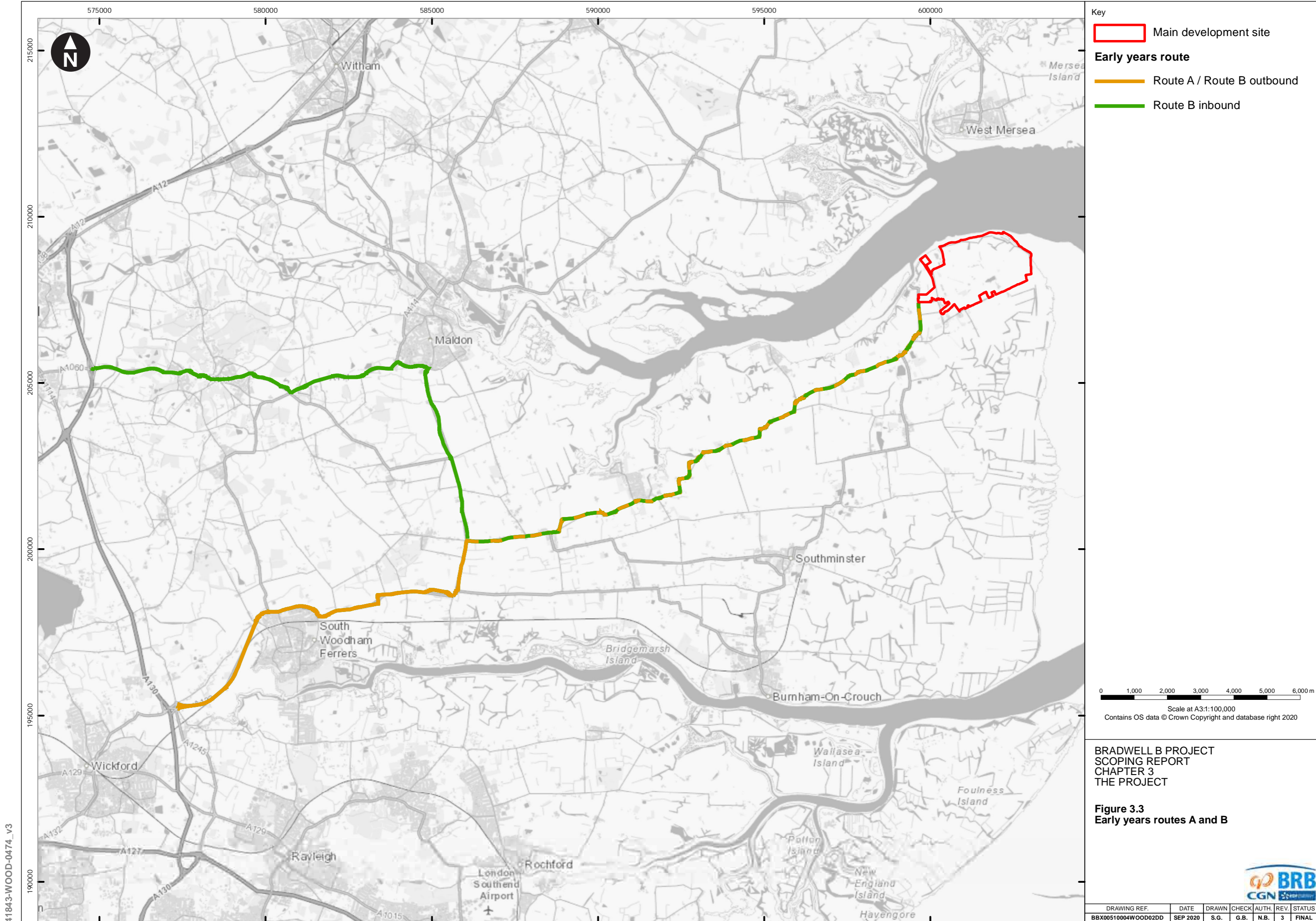


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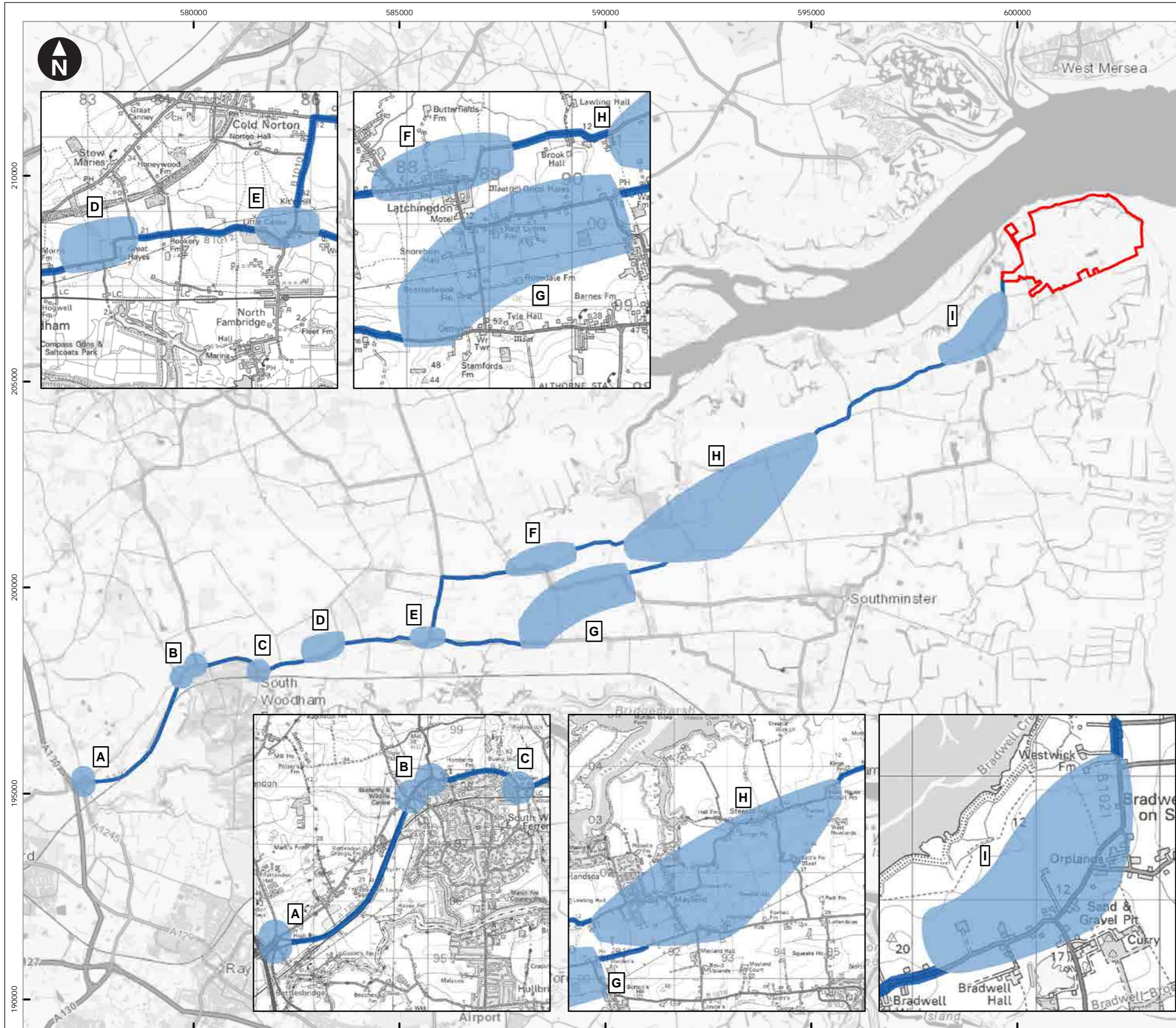
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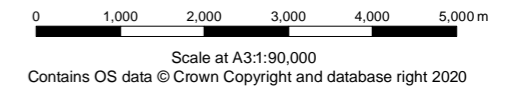
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Key

- Main development site
- Highway improvements during peak construction**
- Strategic route
- Strategic route - search area



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Figure 3.4
 Highway improvements during peak construction



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Key

Park and ride facilities search areas

- Chelmsford
- Maldon
- South Woodham Ferrers



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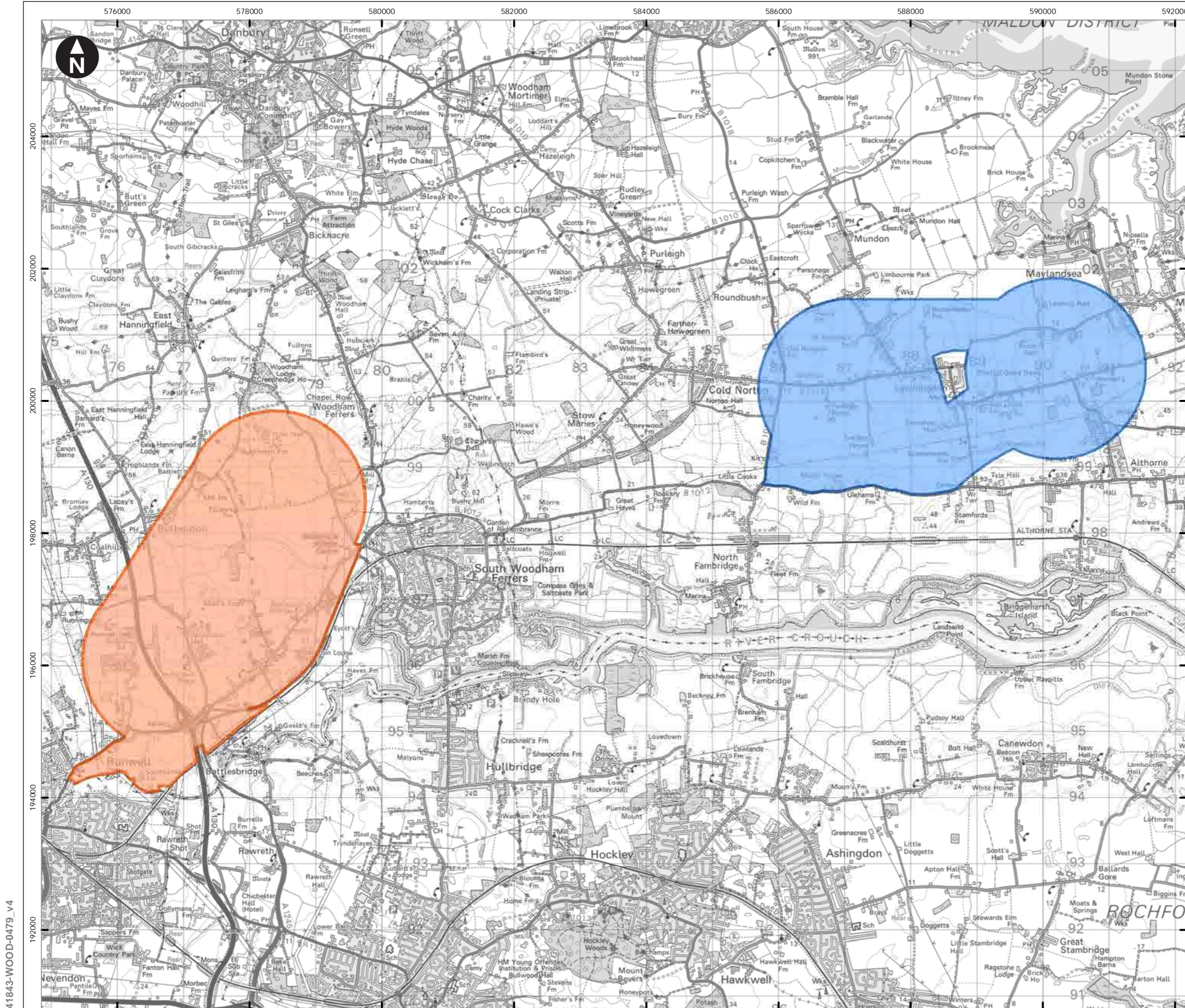
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Figure 3.5
Park and ride facilities search areas

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Key

Freight management facilities search areas

- Latchingdon
- South Woodham Ferrers



0 500 1,000 1,500 2,000 2,500 3,000 m

Scale at A3:1:55,000

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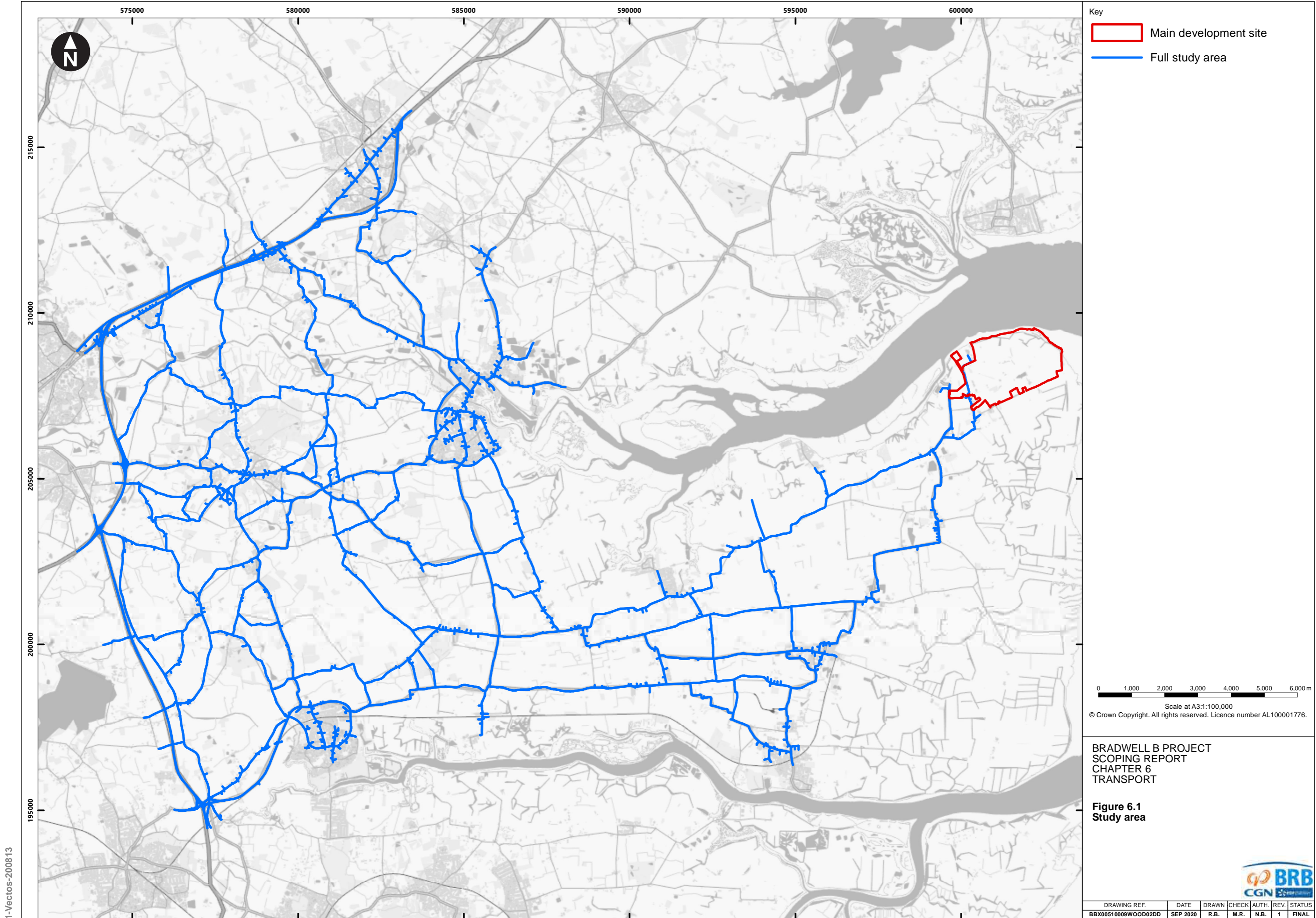
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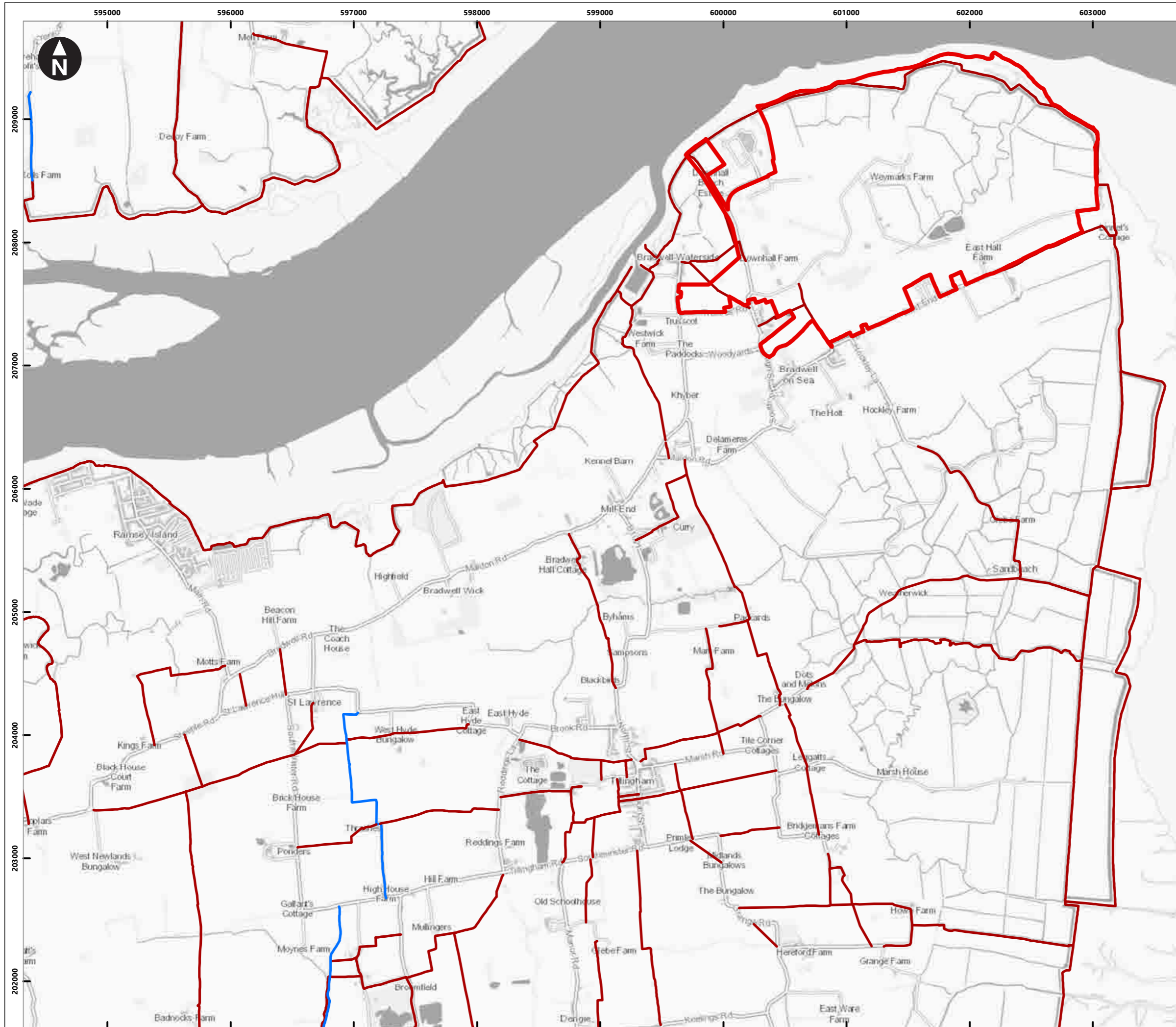


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Key

- Main development site
- Bridleway
- Footpath

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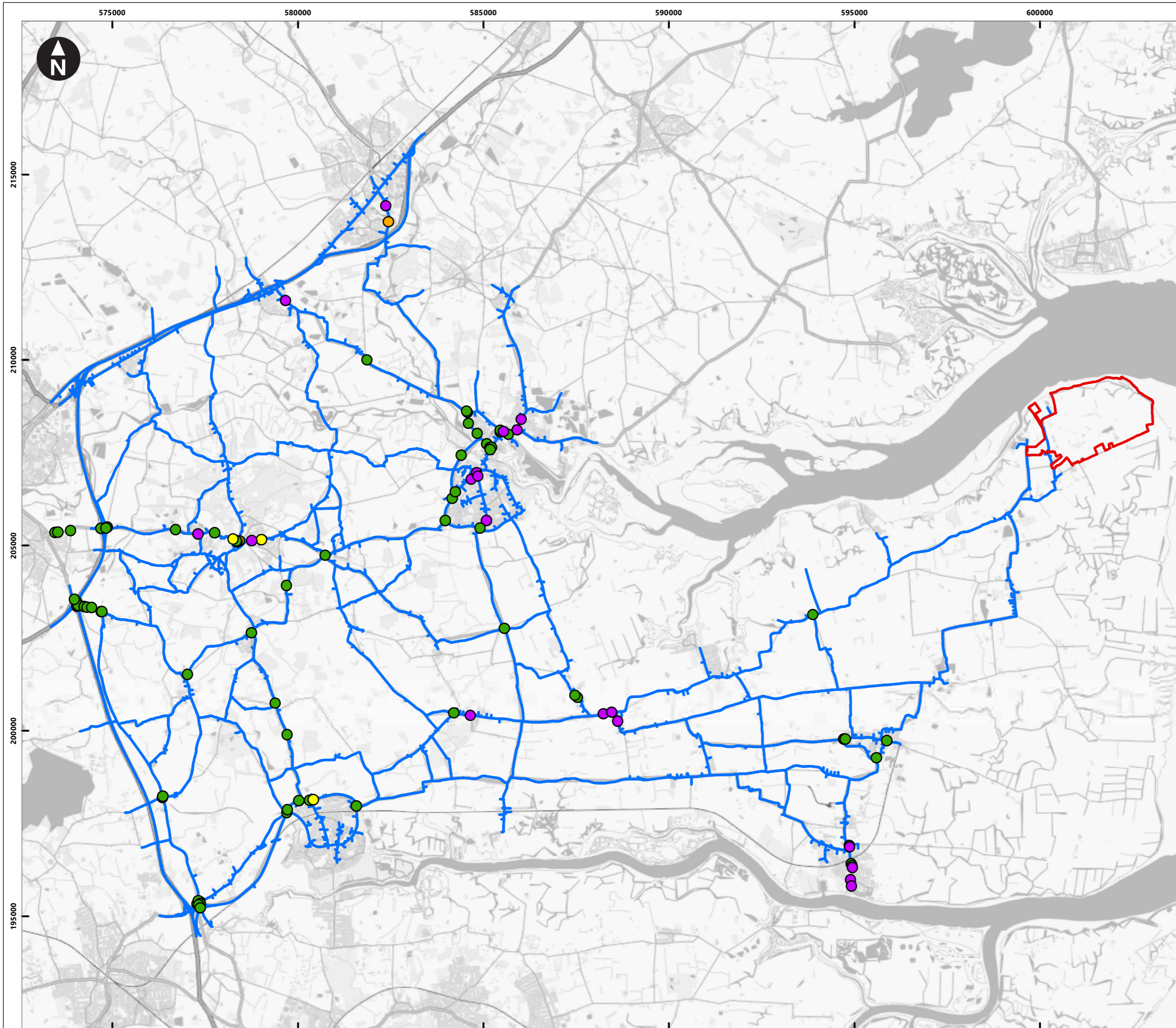
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TRANSPORT

Figure 6.2
Public Rights of Way

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2-Vectos-200813



Key

- Main development site
- Full study area

Crossing type

- Pelican
- Puffin
- Uncontrolled
- Zebra

0 750 1,500 2,250 3,000 3,750 4,500 5,250 6,000 m

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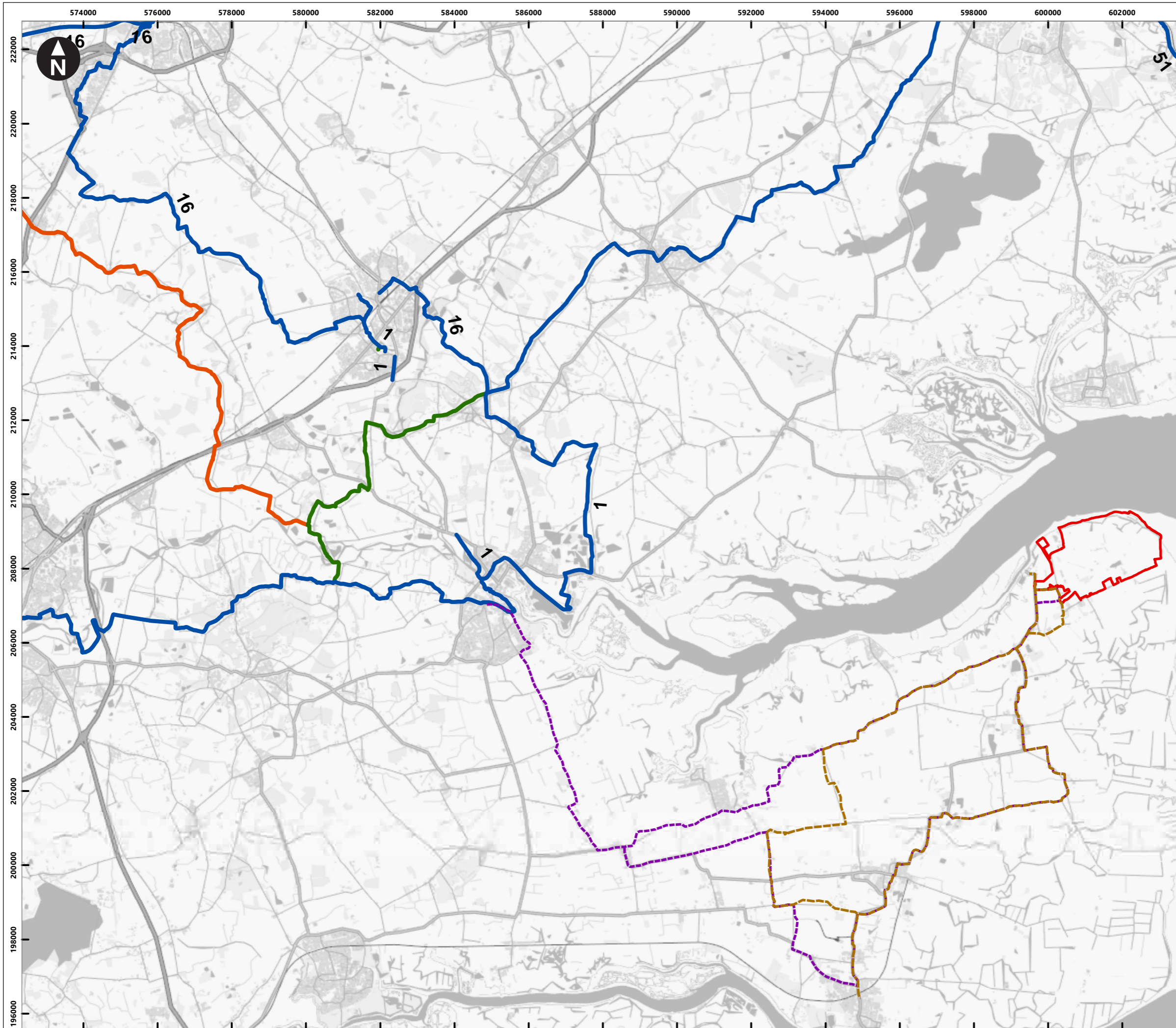
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Pedestrian crossings in study area



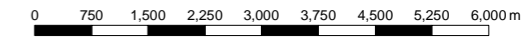
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3-Vectos-200813



- Key
- Main development site
 - Two rivers' way cycle route
 - Maldon cycle club route to steeple
 - National route (route number on figure)
 - Regional route
 - Local routes
 - NCN link



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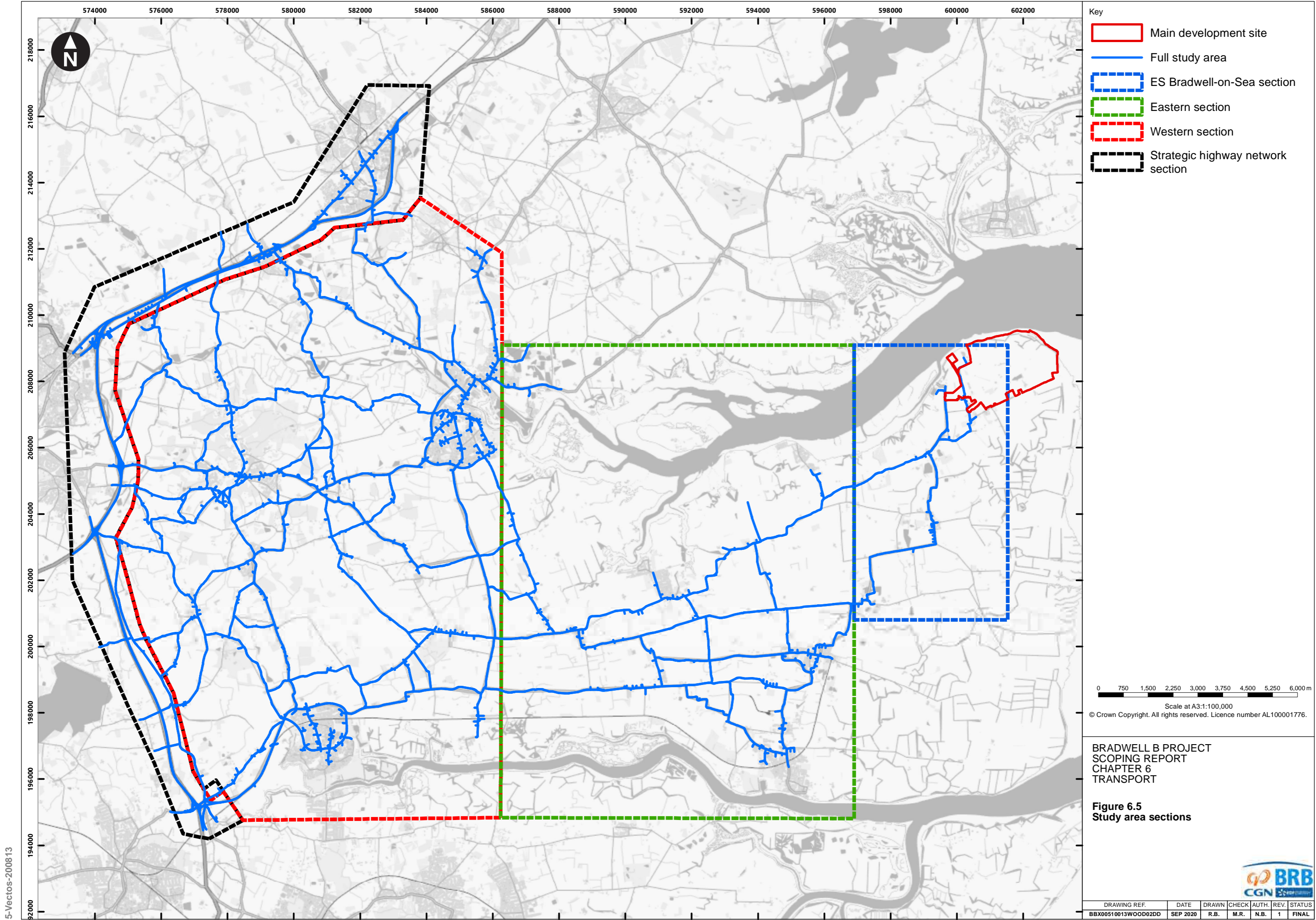
Figure 6.4
Cycle routes

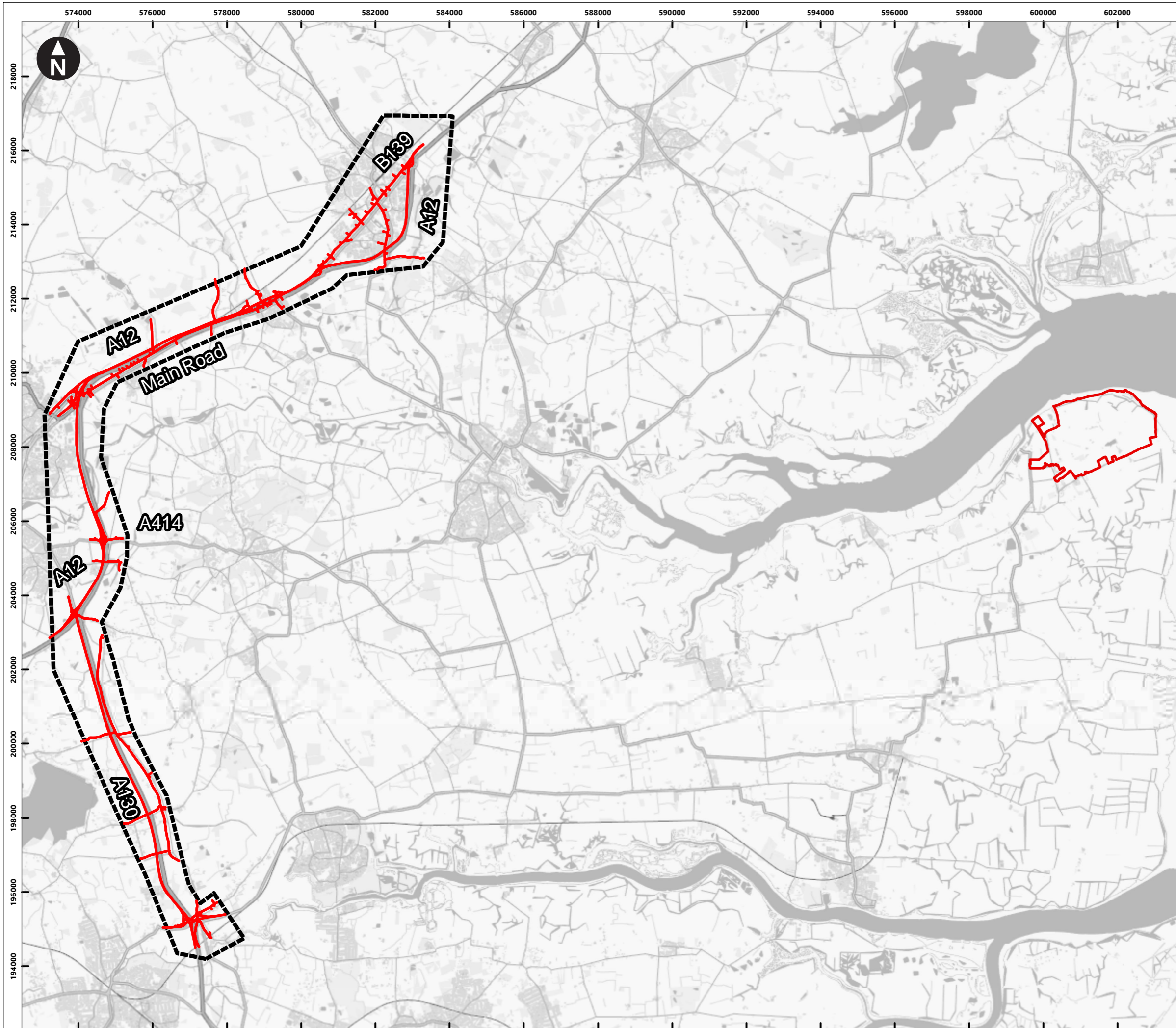


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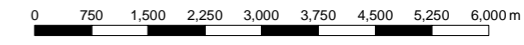
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Key

- Main development site
- Strategic highway network section
- Study area - strategic highway



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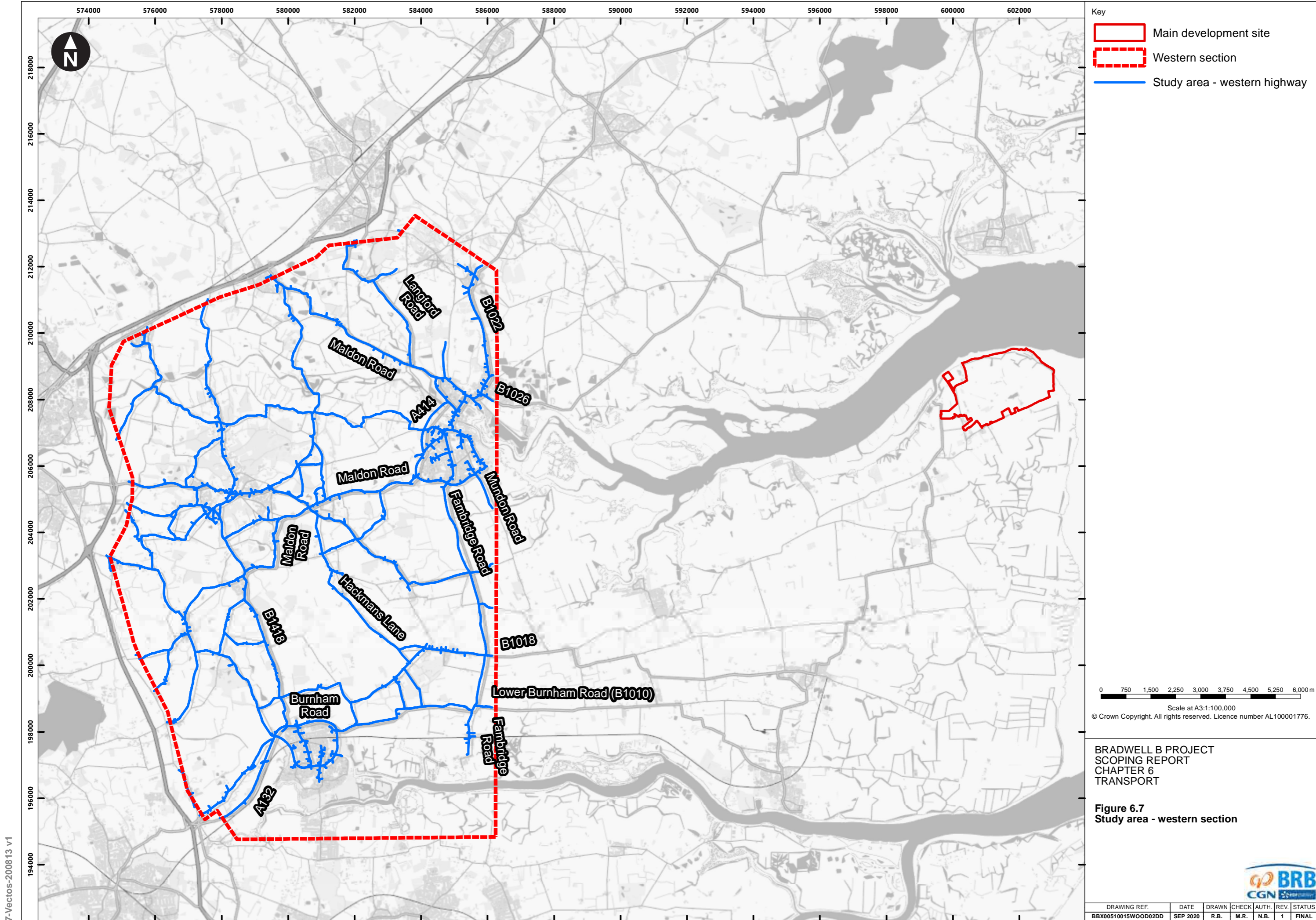
Figure 6.6
 Study area - strategic highway network

6-Vectos-200813



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Key

- Main development site
- Western section
- Study area - western highway

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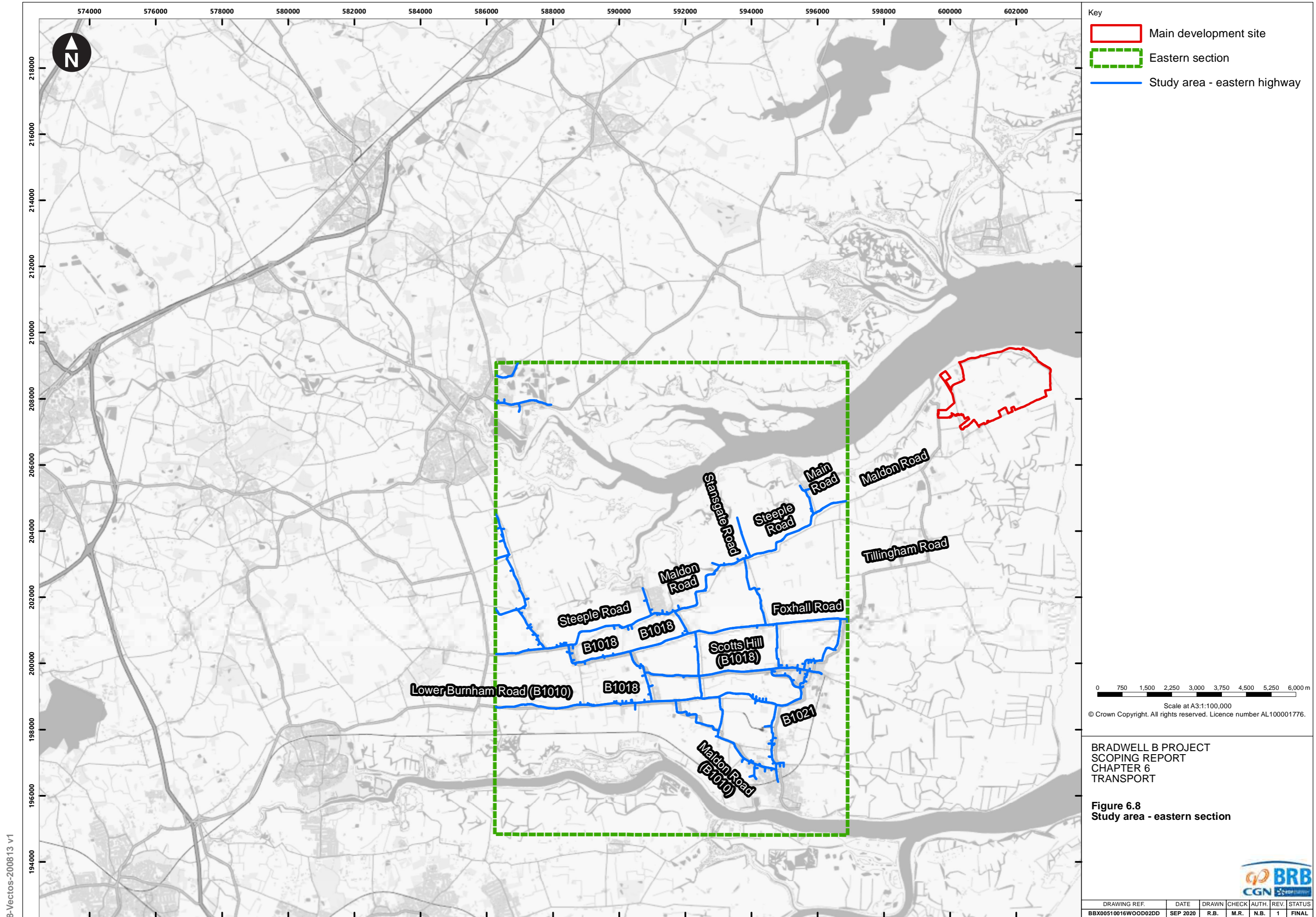
Figure 6.7
 Study area - western section

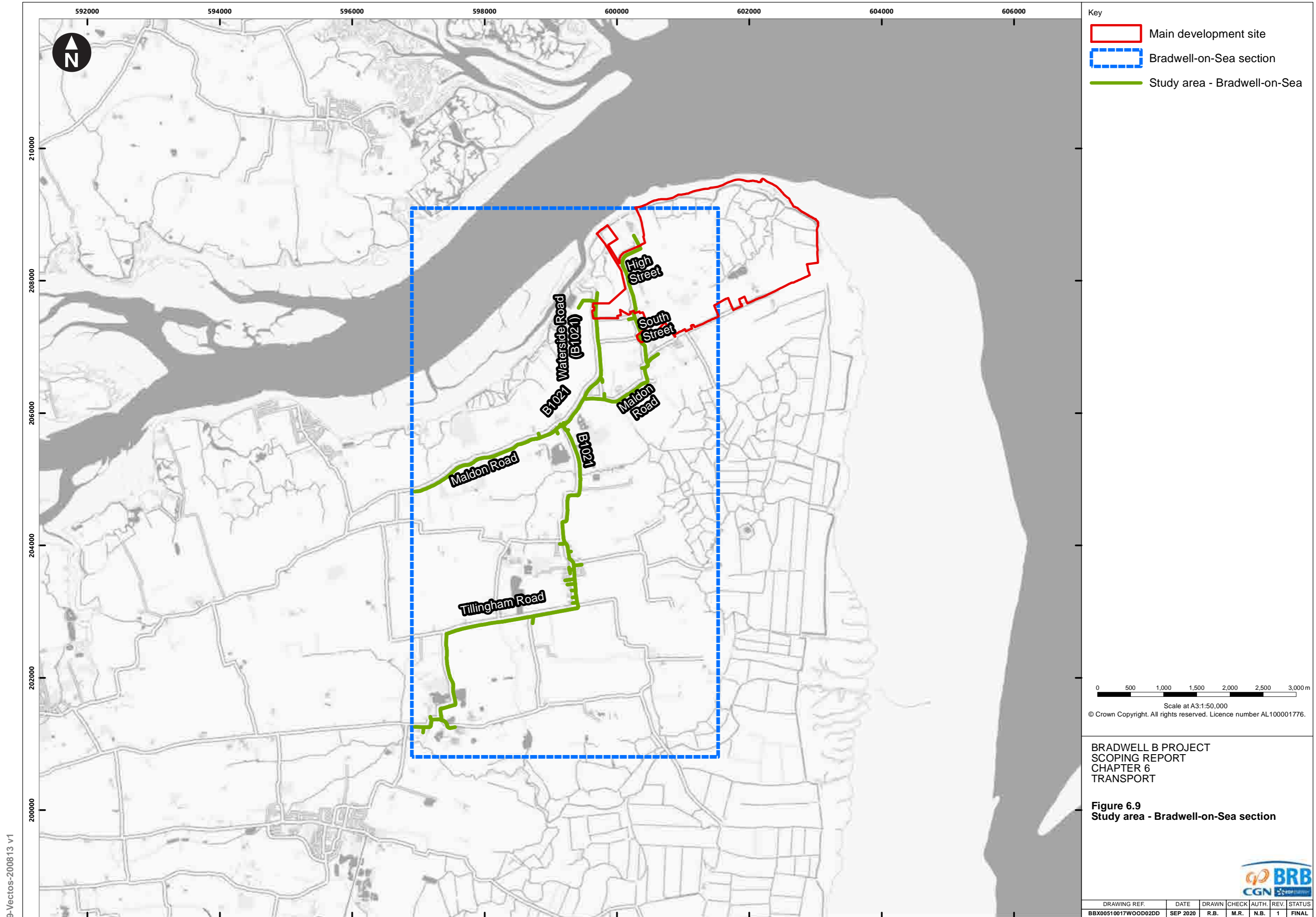


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7-Vectos-200813 v1





- Key
- Main development site
 - Bradwell-on-Sea section
 - Study area - Bradwell-on-Sea

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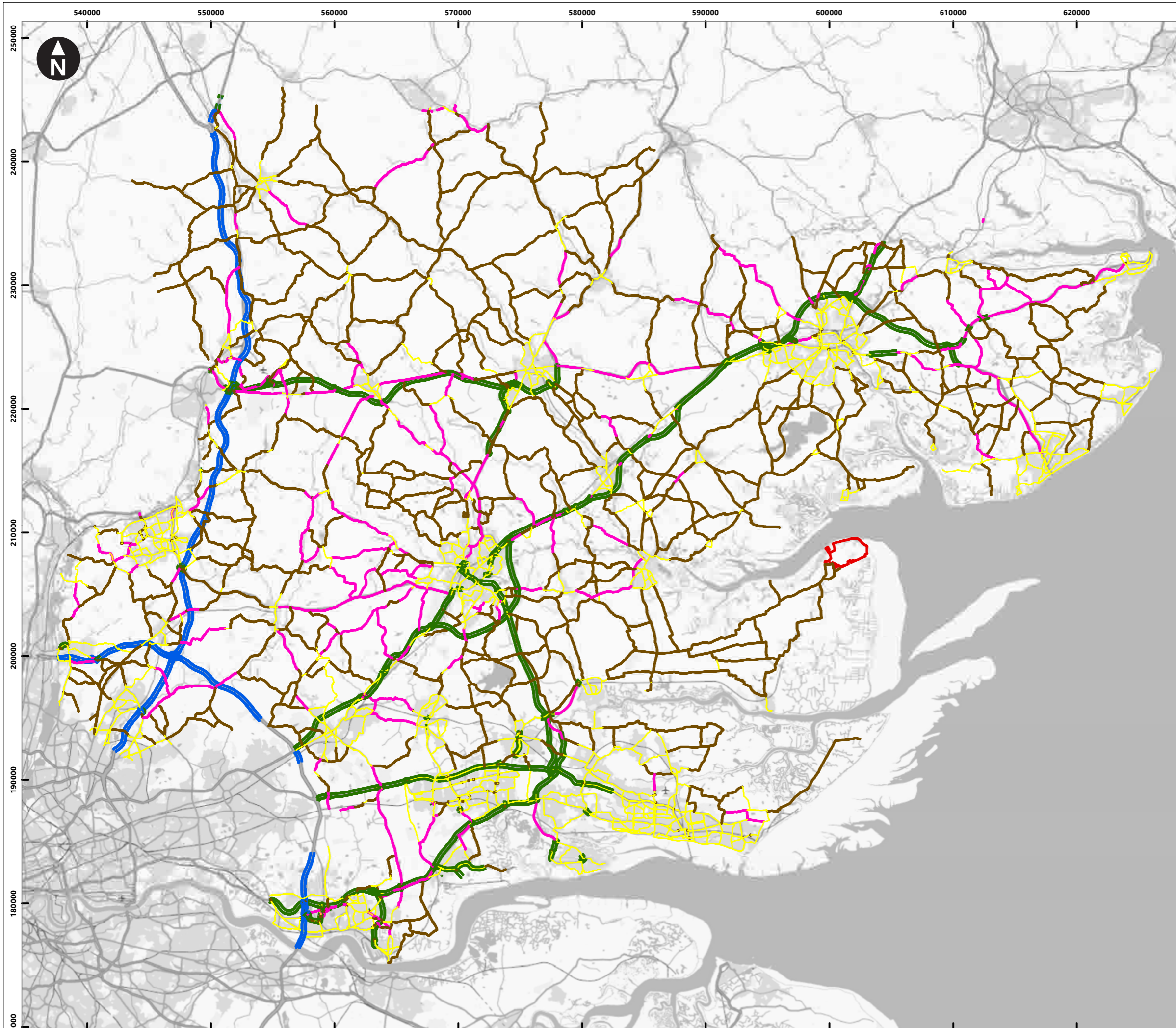
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 CHAPTER 6
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Figure 6.9
 Study area - Bradwell-on-Sea section



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Key

Main development site

Road type

- Motorways
- A-Road (dual/trunk)
- Single carriageway (major)
- Single carriageway (minor)
- Suburban/Urban roads

0 2,000 4,000 6,000 8,000 10,000 12,000 14,000 16,000 m

Scale at A3:1:300,000

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CHAPTER 6
TRANSPORT

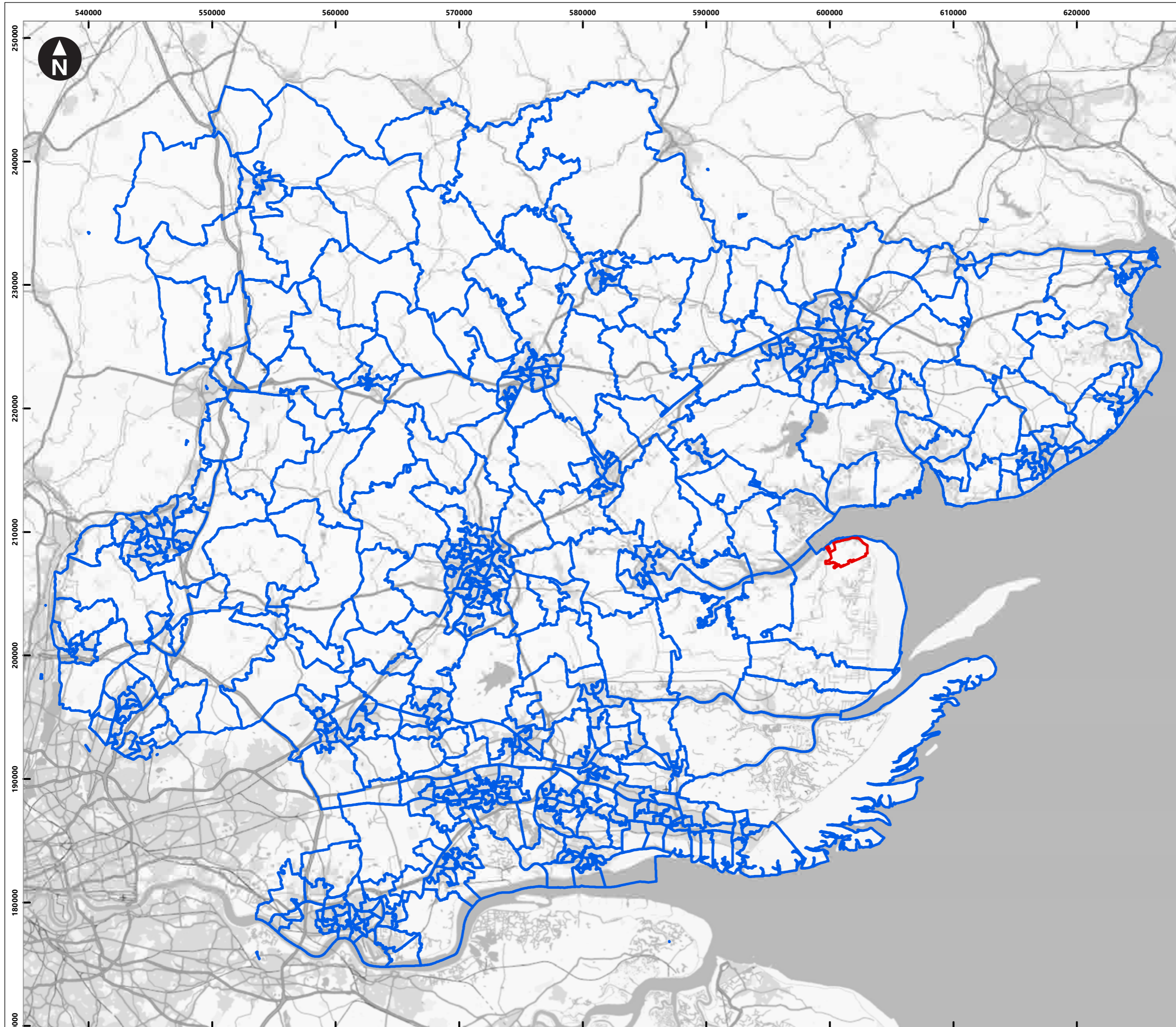
Figure 6.10
County wide network



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10-Vectos-200813



Key

- Main development site
- Essex zones

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 CHAPTER 6
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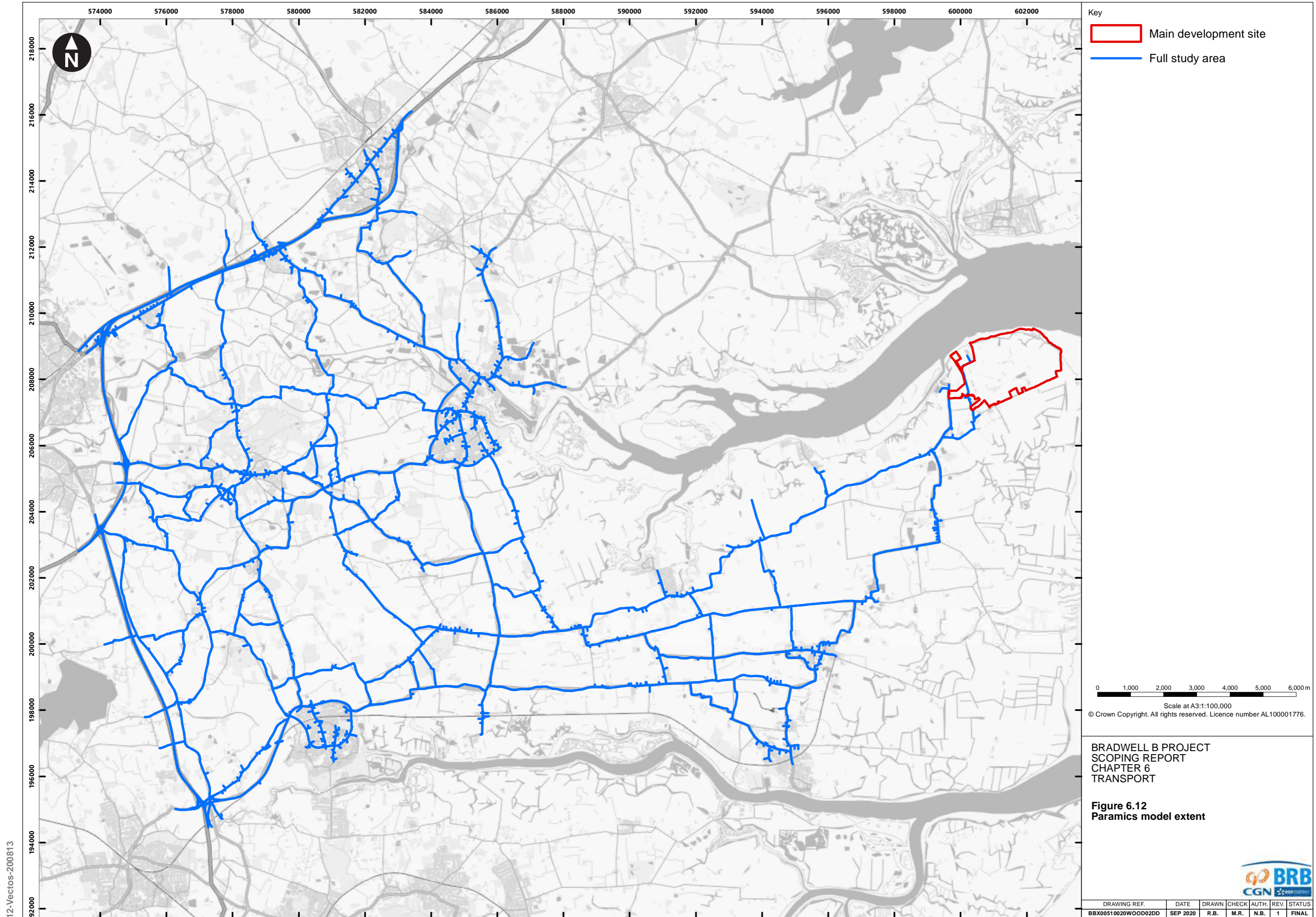
Figure 6.11
 County wide model development report:
 zone system



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11-Vectos-200813



Key

- Main development site
- Full study area

0 1,000 2,000 3,000 4,000 5,000 6,000 m

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TRANSPORT

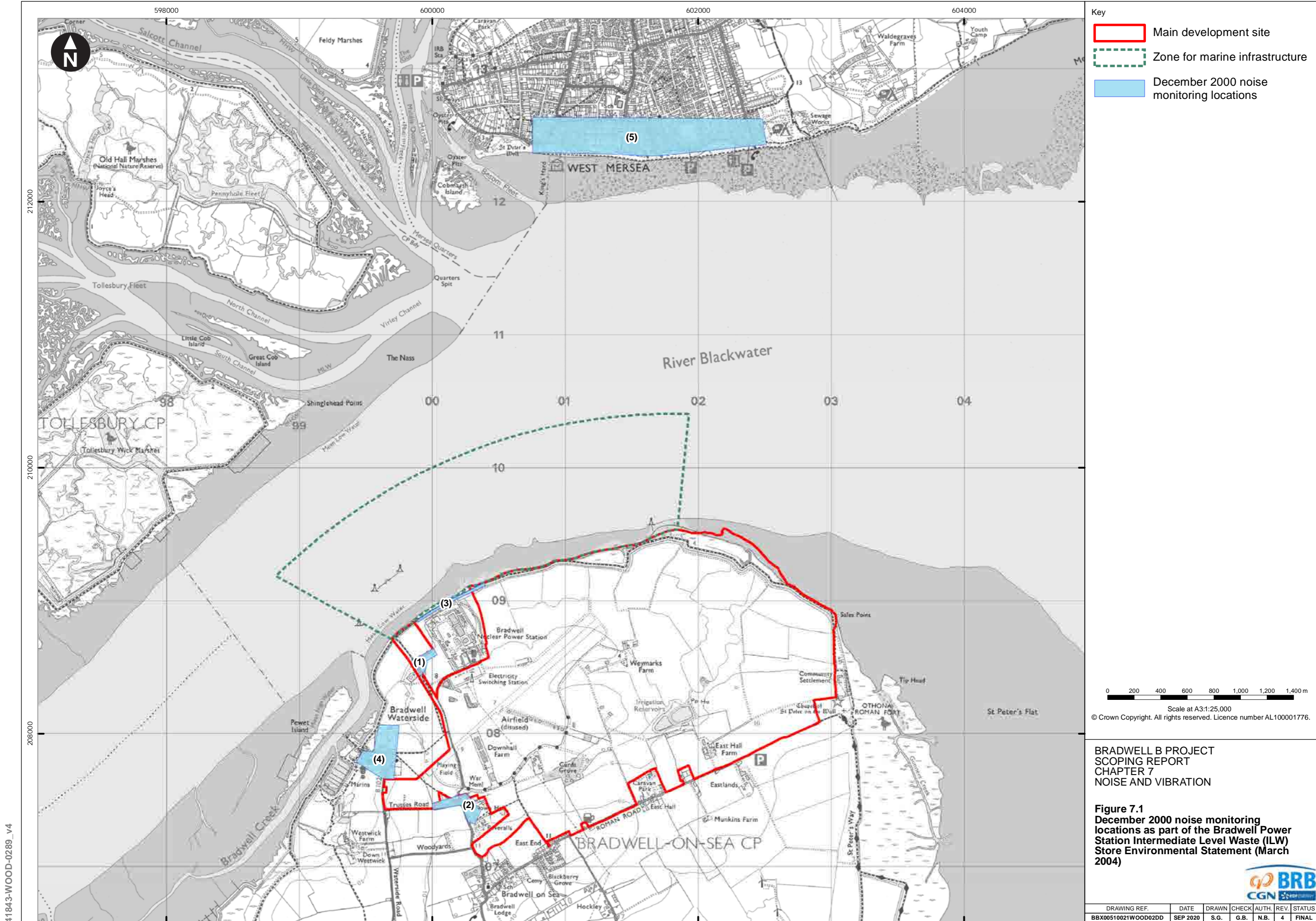
Figure 6.12
Paramics model extent



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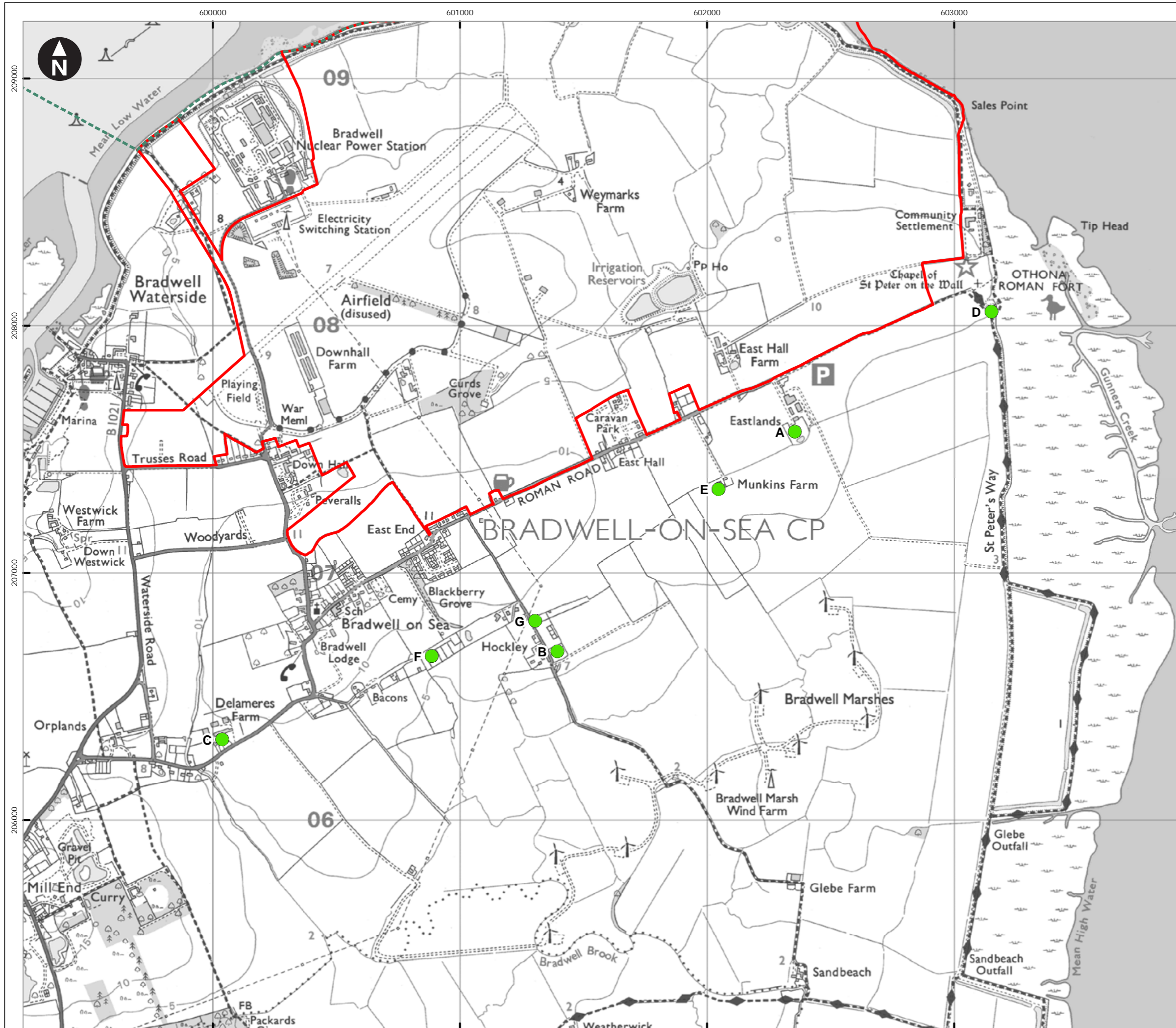
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CHAPTER 7
NOISE AND VIBRATION**

**Figure 7.1
December 2000 noise monitoring
locations as part of the Bradwell Power
Station Intermediate Level Waste (ILW)
Store Environmental Statement (March
2004)**



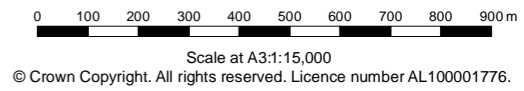
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Key

- Main development site
- Zone for marine infrastructure
- Noise monitoring locations for Bradwell Windfarm



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 CHAPTER 7
 NOISE AND VIBRATION

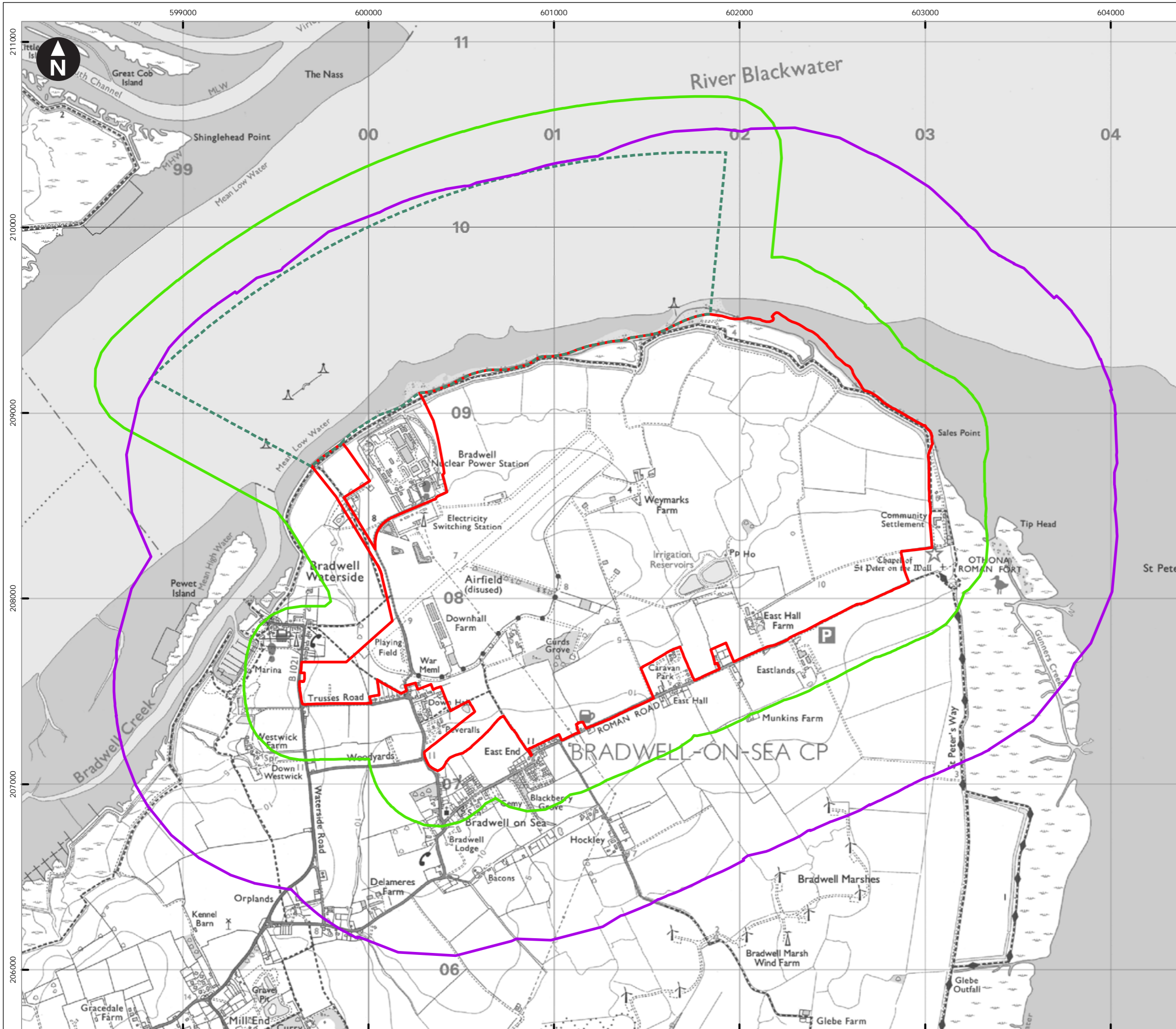
Figure 7.2
 Noise monitoring locations for the
 Bradwell Windfarm (2006)



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- Key
- Main development site
 - Zone for marine infrastructure
 - Construction noise study area
 - Operational noise study area



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 CHAPTER 7
 NOISE AND VIBRATION**

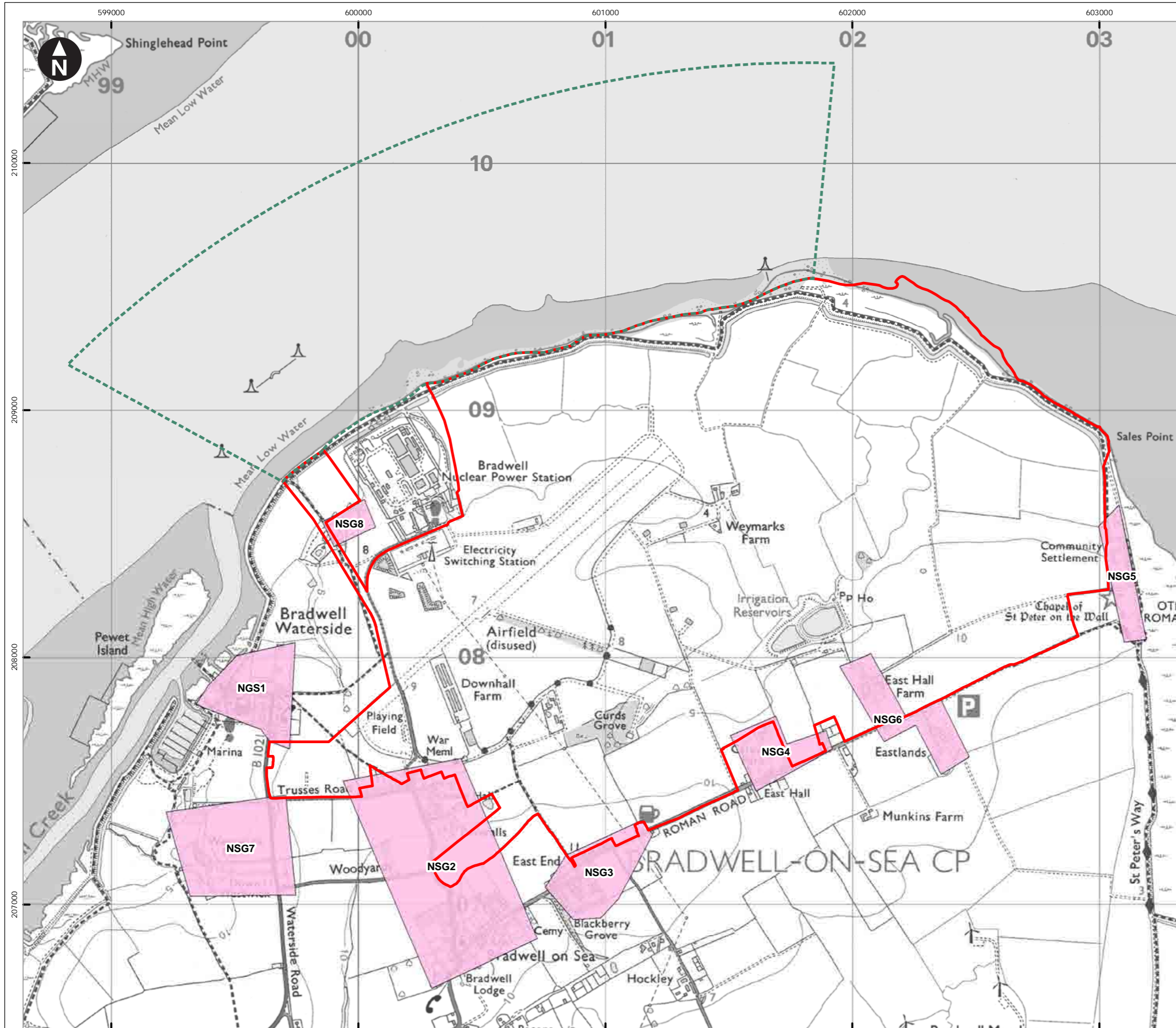
**Figure 7.3
 Noise study areas - main development site**



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Key

- Main development site
- Zone for marine infrastructure
- Noise Sensitive Groups

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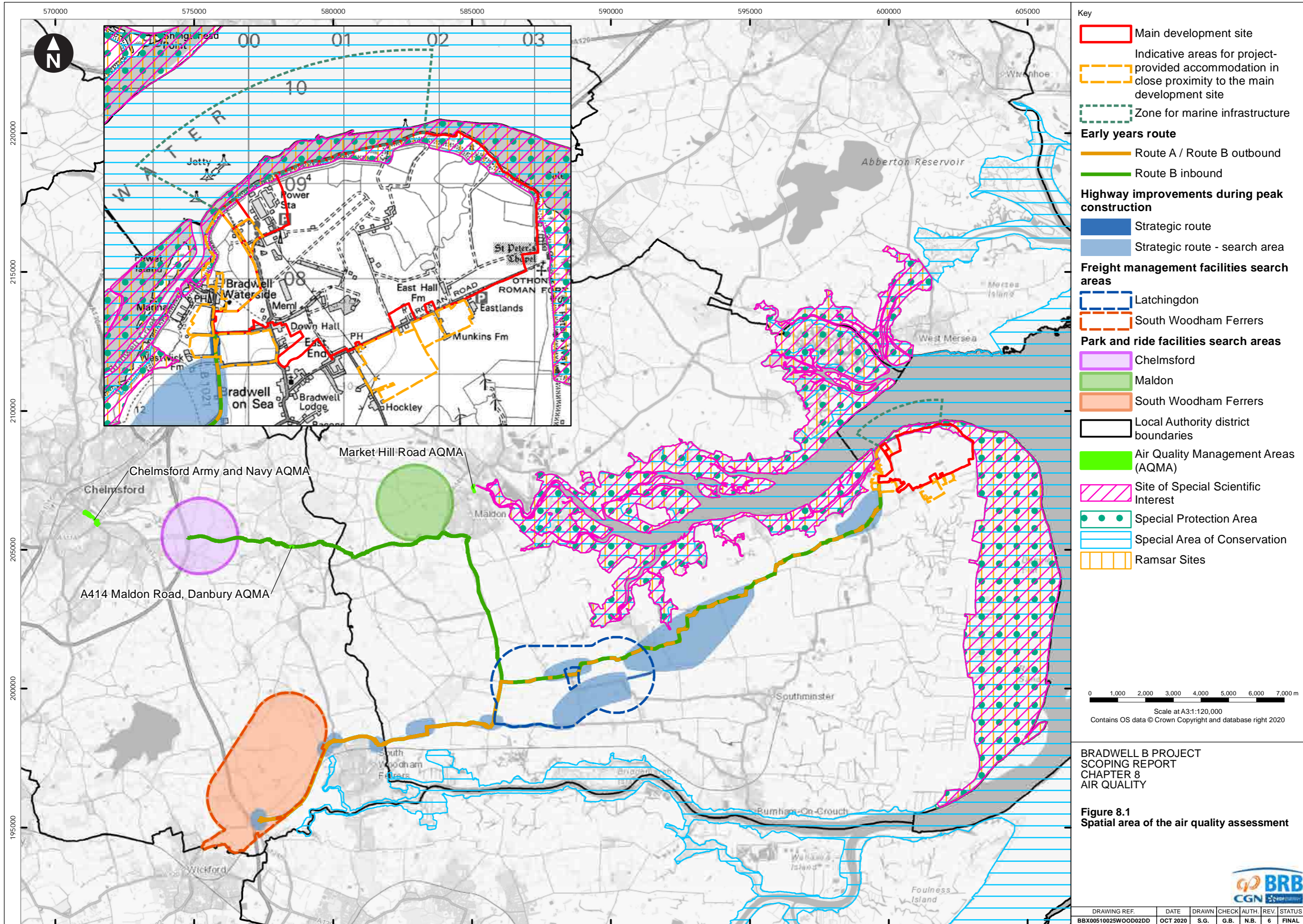
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 CHAPTER 7
 NOISE AND VIBRATION

Figure 7.4
Noise Sensitive Groups

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- Key**
- Main development site
 - Indicative areas for project-provided accommodation in close proximity to the main development site
 - Zone for marine infrastructure
 - Early years route**
 - Route A / Route B outbound
 - Route B inbound
 - Highway improvements during peak construction**
 - Strategic route
 - Strategic route - search area
 - Freight management facilities search areas**
 - Latchingdon
 - South Woodham Ferrers
 - Park and ride facilities search areas**
 - Chelmsford
 - Maldon
 - South Woodham Ferrers
 - Local Authority district boundaries
 - Air Quality Management Areas (AQMA)
 - Site of Special Scientific Interest
 - Special Protection Area
 - Special Area of Conservation
 - Ramsar Sites

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 CHAPTER 8
 AIR QUALITY

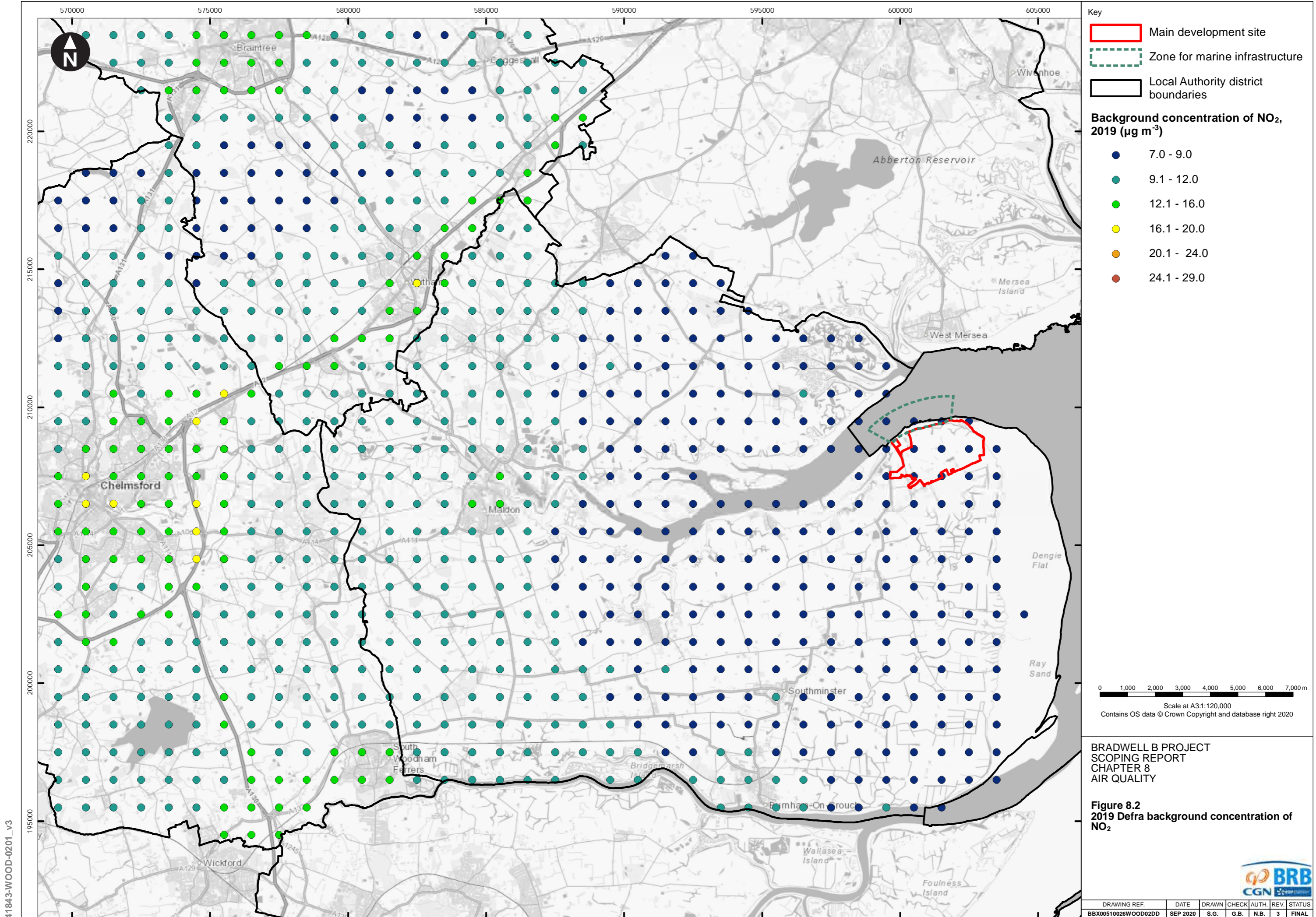
Figure 8.1
 Spatial area of the air quality assessment

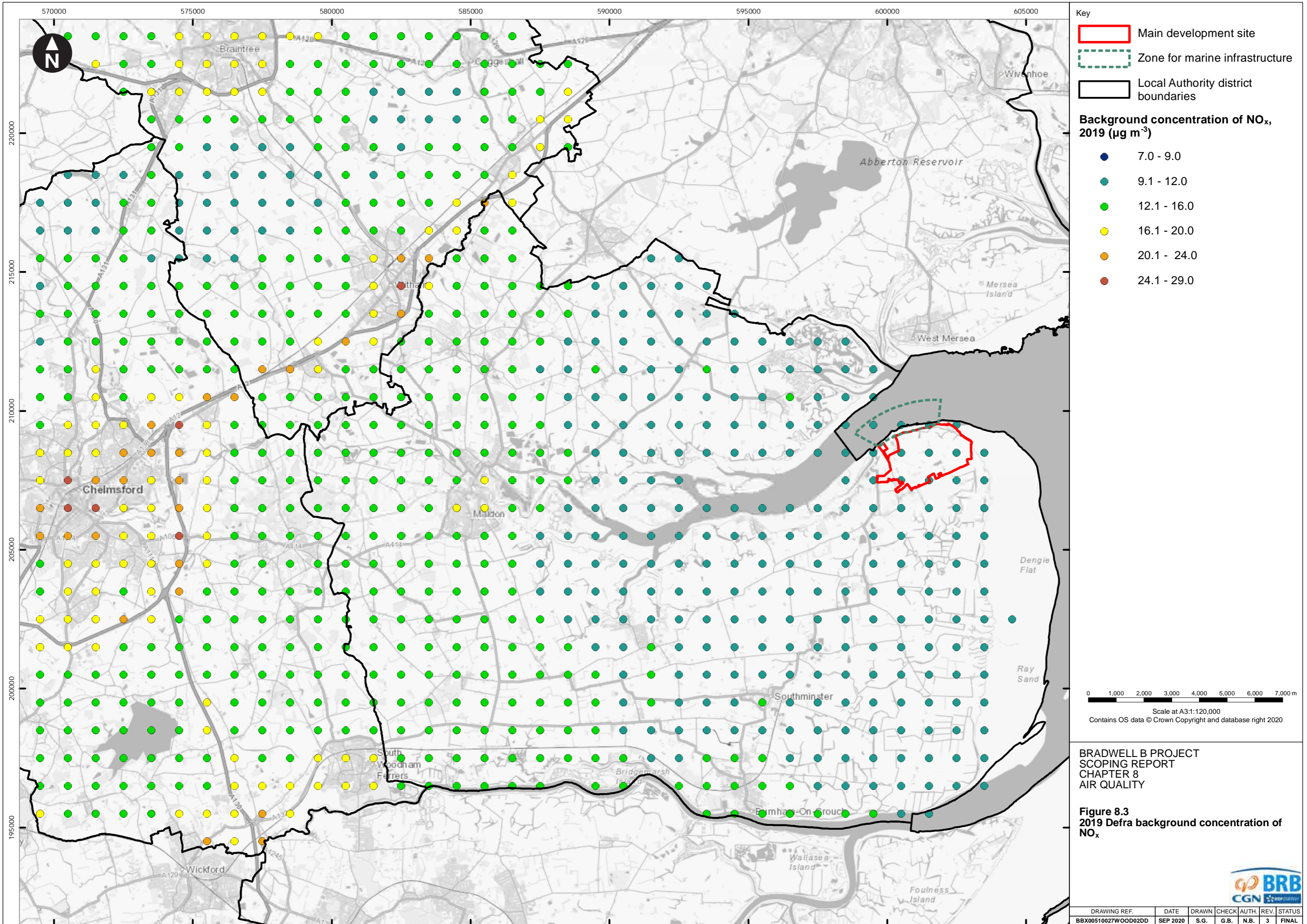


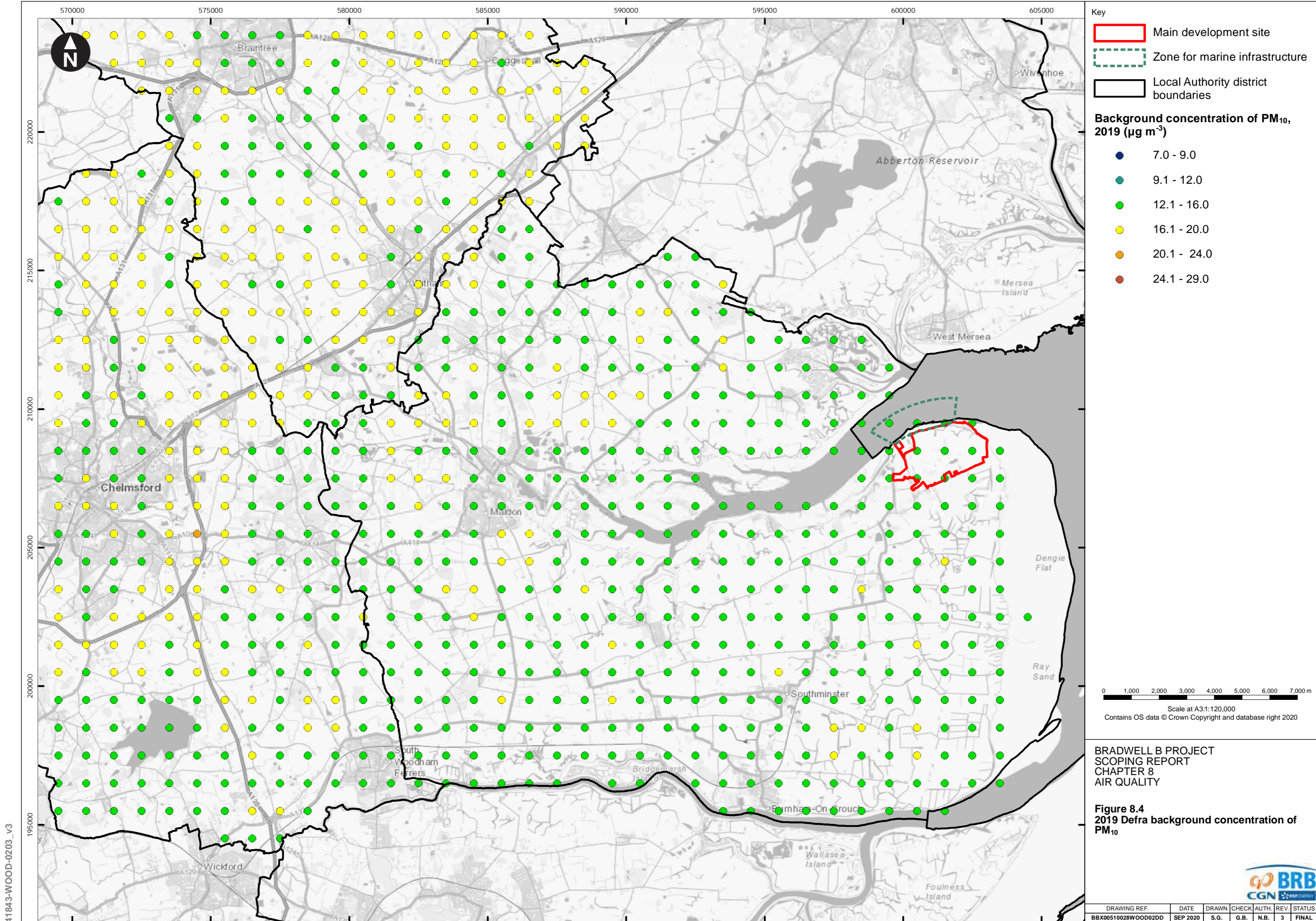
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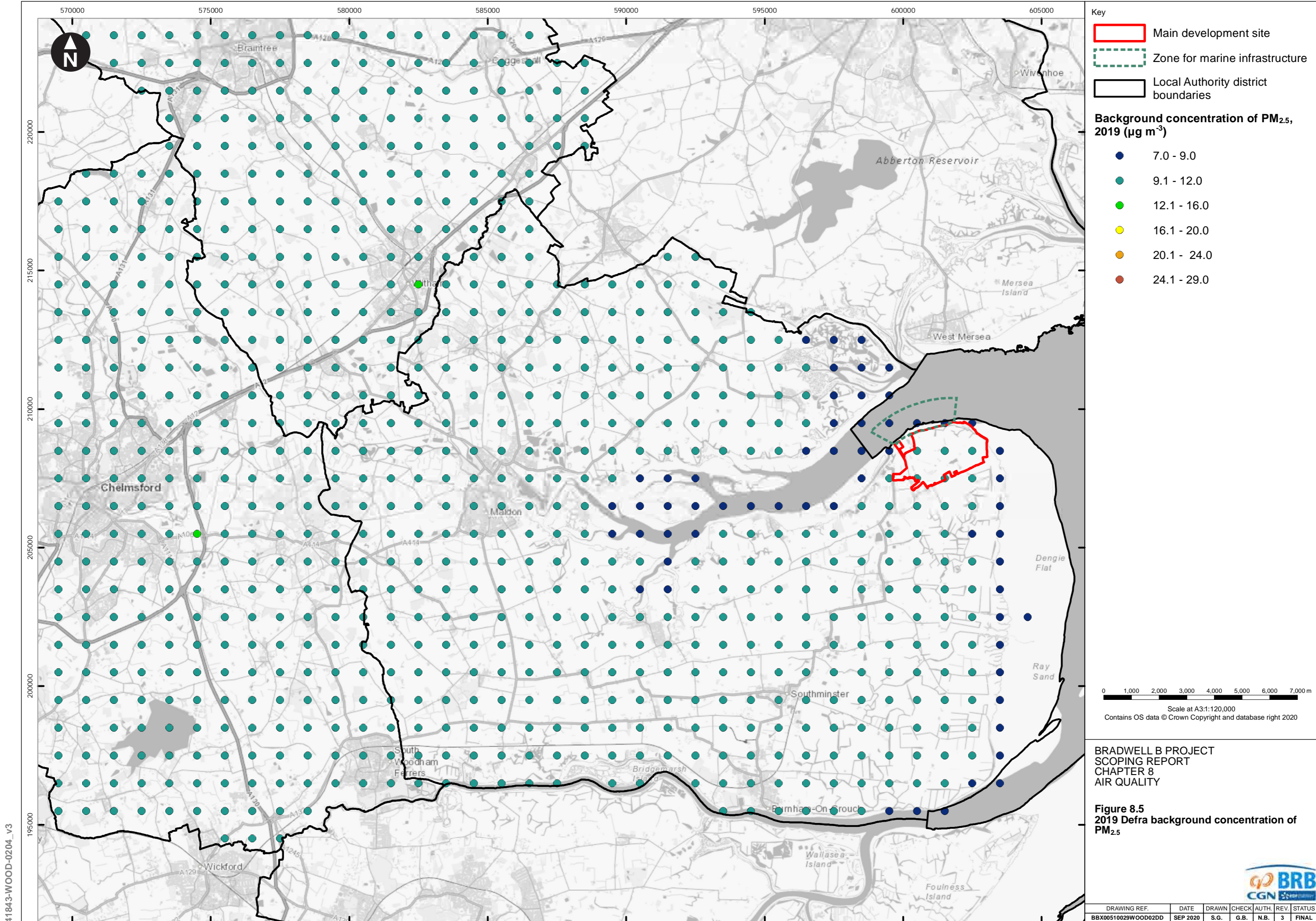






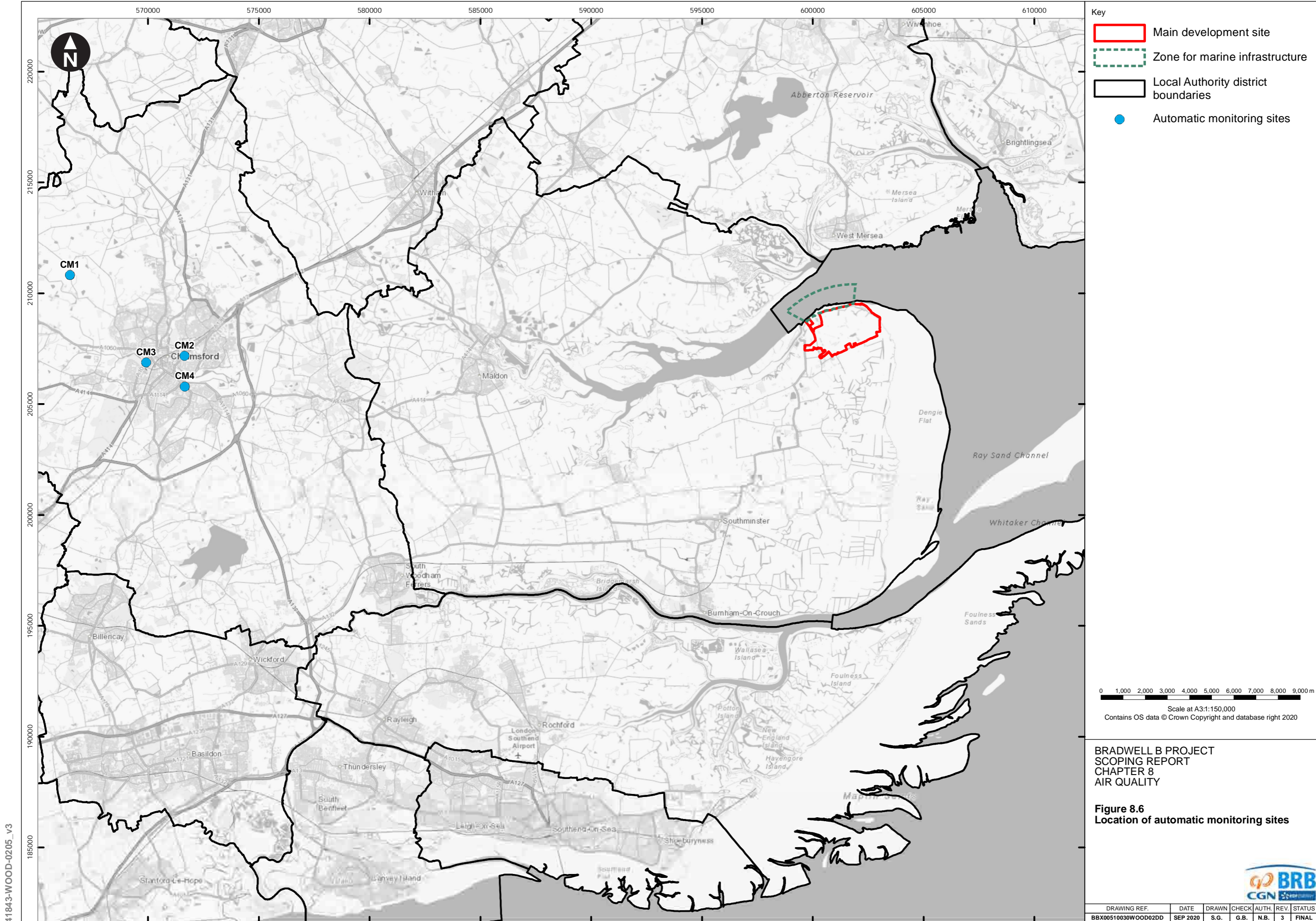
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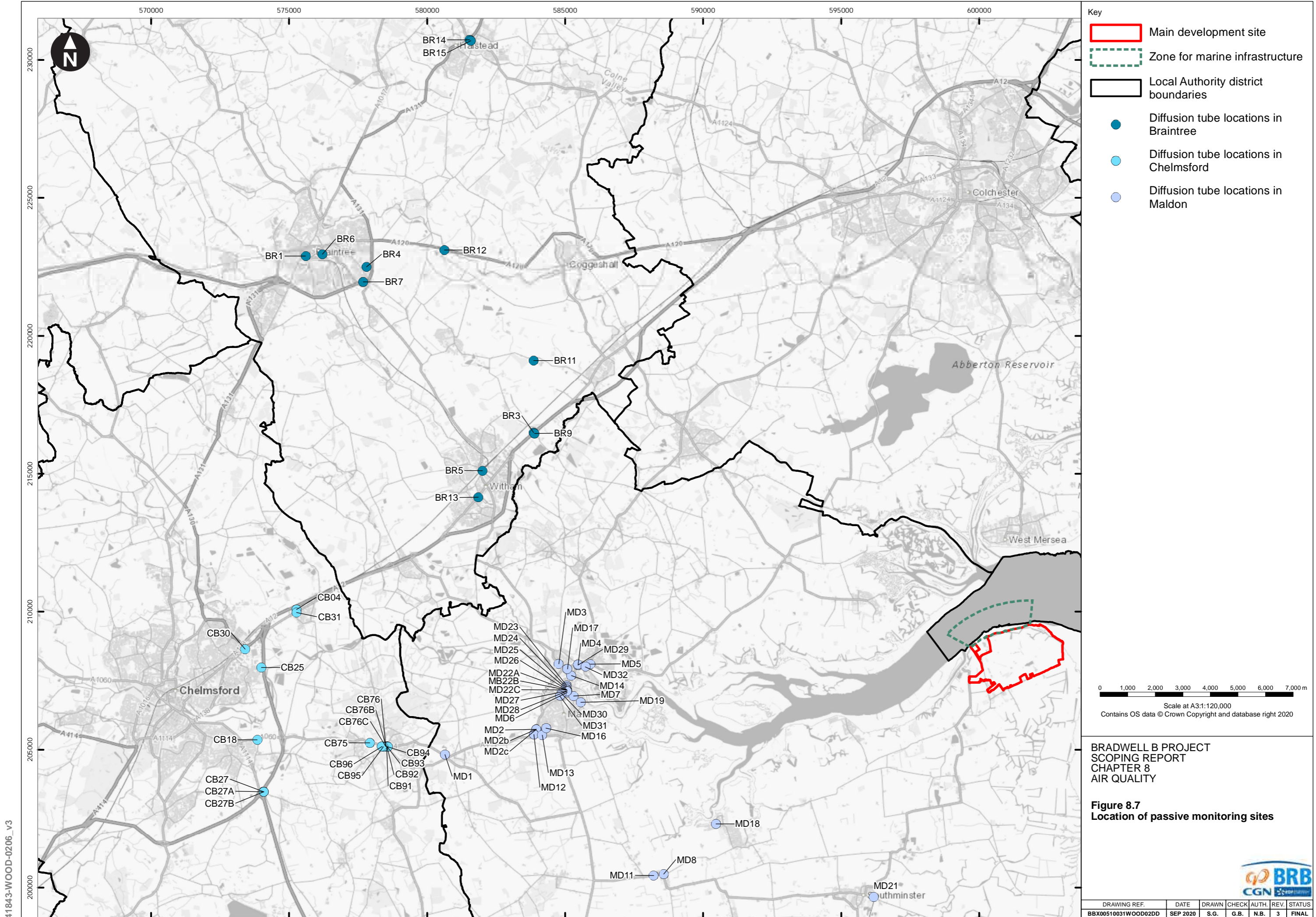
41843-WOOD-0204_v3

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41843-WOOD-0205_v3

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- Key
- Main development site
 - Zone for marine infrastructure
 - Local Authority district boundaries
 - Diffusion tube locations in Braintree
 - Diffusion tube locations in Chelmsford
 - Diffusion tube locations in Maldon

0 1,000 2,000 3,000 4,000 5,000 6,000 7,000 m
 Scale at A3:1:120,000
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 SCOPING REPORT
 CHAPTER 8
 AIR QUALITY**

**Figure 8.7
 Location of passive monitoring sites**

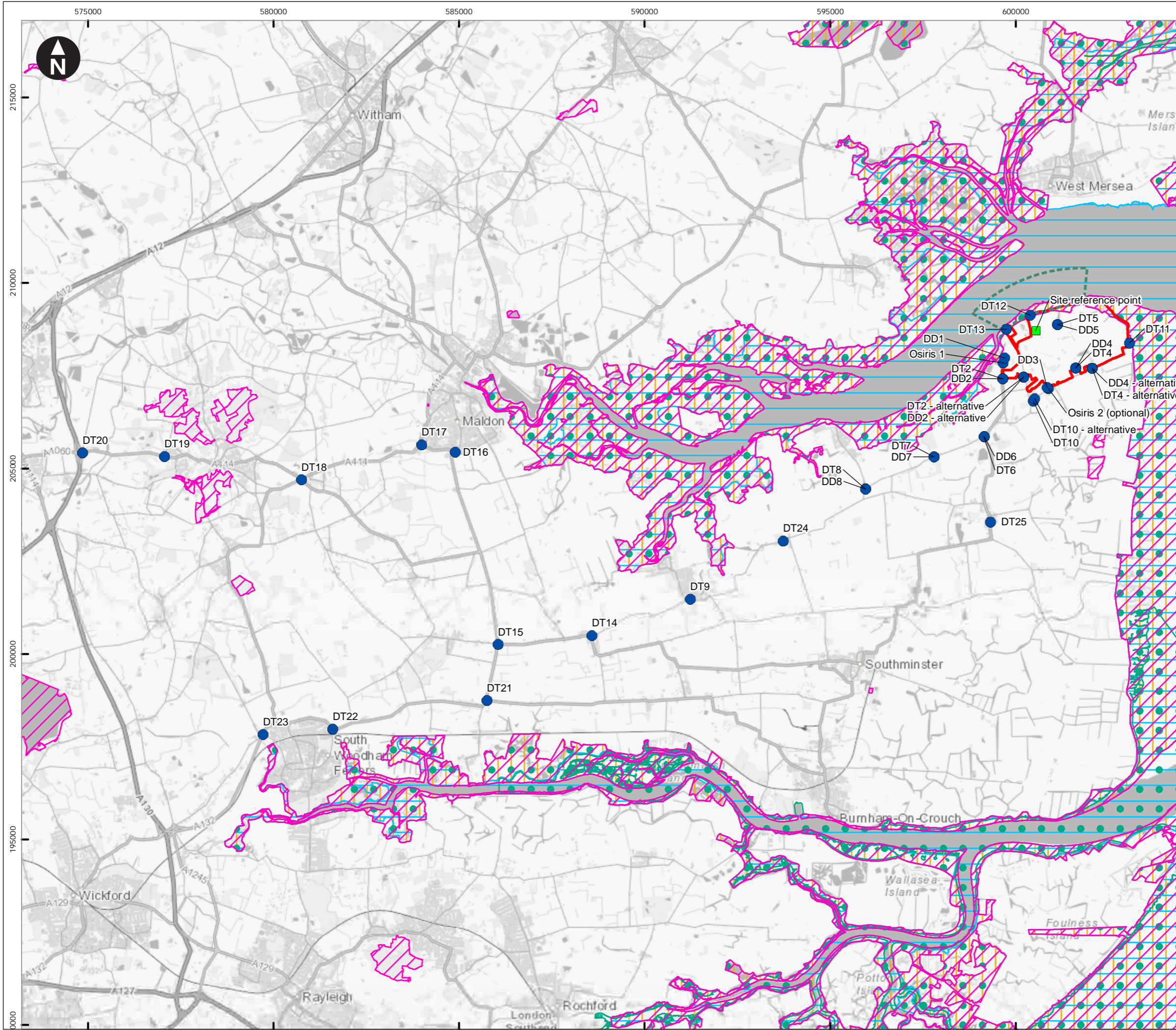


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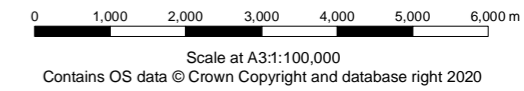
41843-WOOD-0207_v3



Key

- Main development site
- Zone for marine infrastructure
- Site of Special Scientific Interest
- Special Protection Area
- Special Area of Conservation
- Ramsar Sites
- Site reference point
- Monitoring locations

DD = dust discs
DT = diffusion tubes



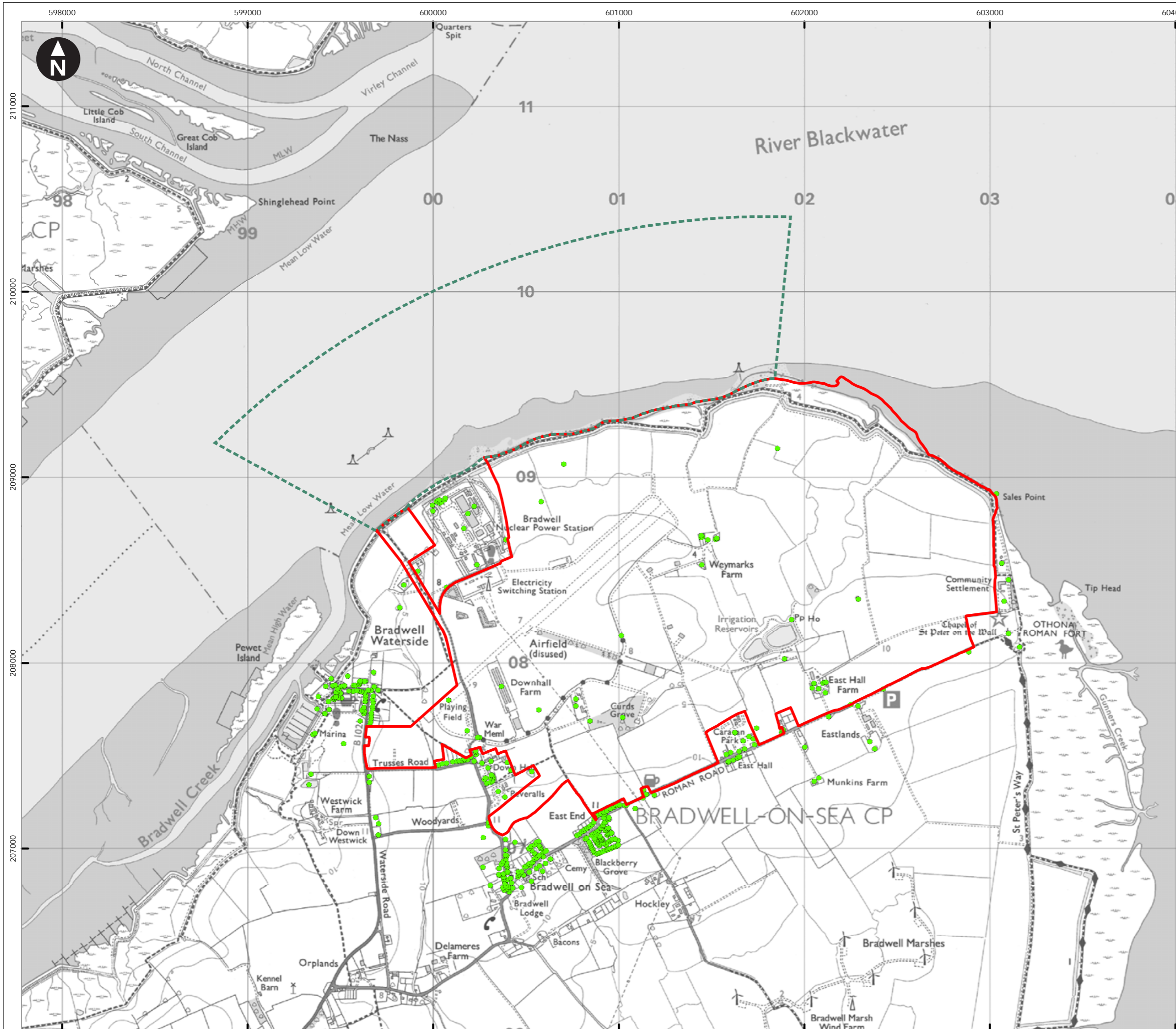
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CHAPTER 8
AIR QUALITY

Figure 8.8
Proposed monitoring locations for baseline monitoring



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Key

- Main development site
- Zone for marine infrastructure
- Human receptor locations



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 CHAPTER 8
 AIR QUALITY**

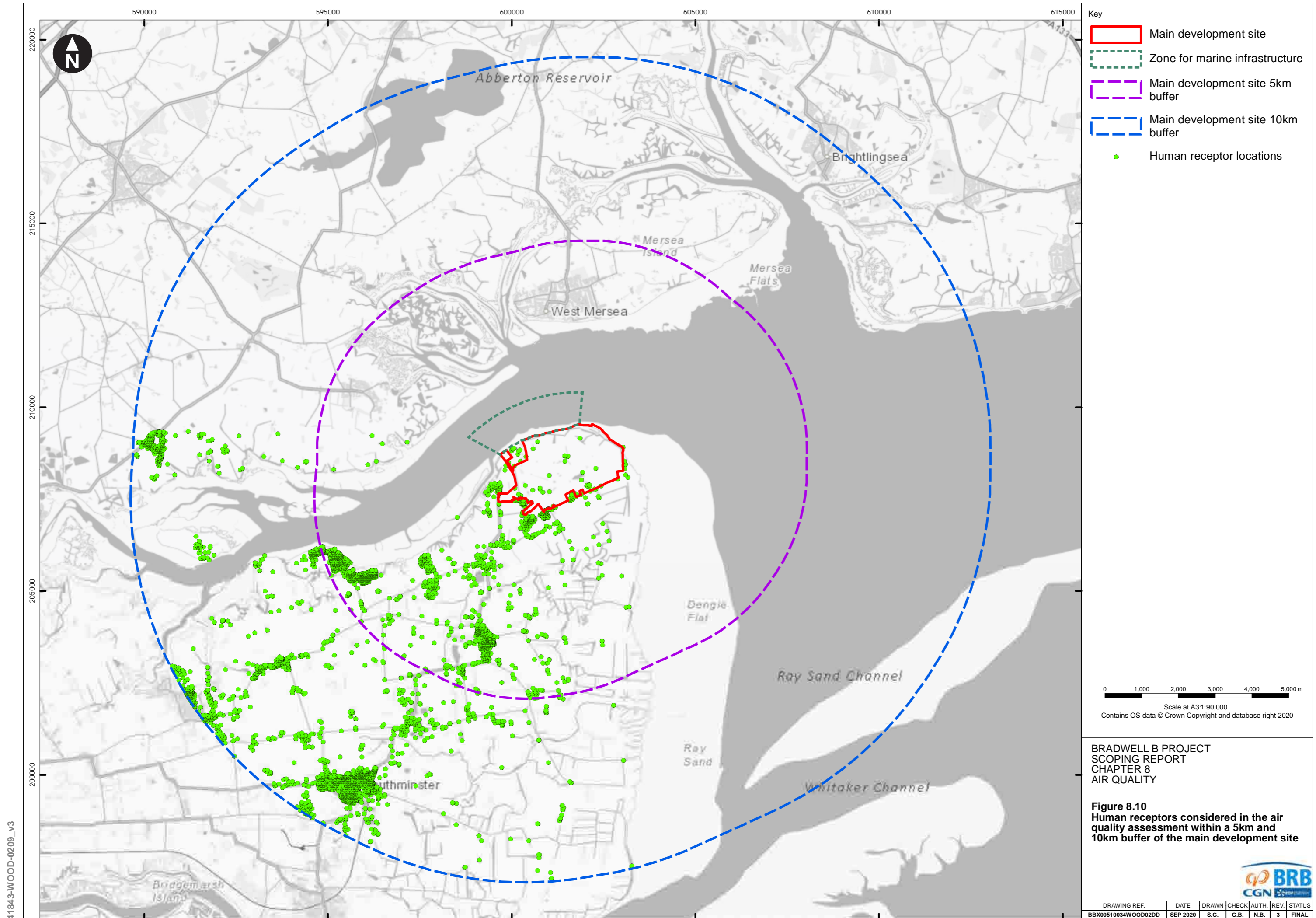
**Figure 8.9
 Human receptors within 350m of the main
 development site**

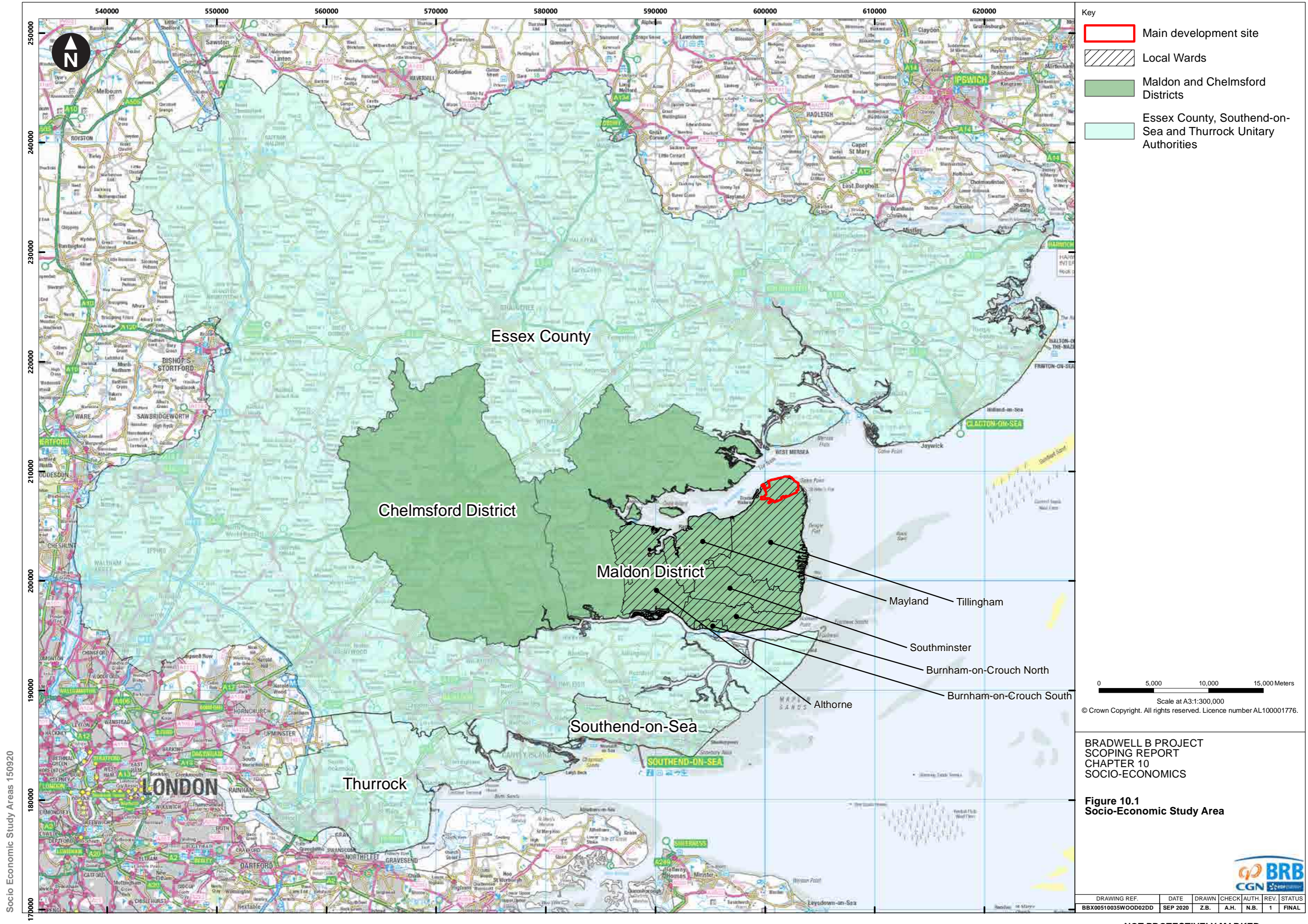


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Key

- Main development site
- Local Wards
- Maldon and Chelmsford Districts
- Essex County, Southend-on-Sea and Thurrock Unitary Authorities

0 5,000 10,000 15,000 Meters
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 SCOPING REPORT
 CHAPTER 10
 SOCIO-ECONOMICS

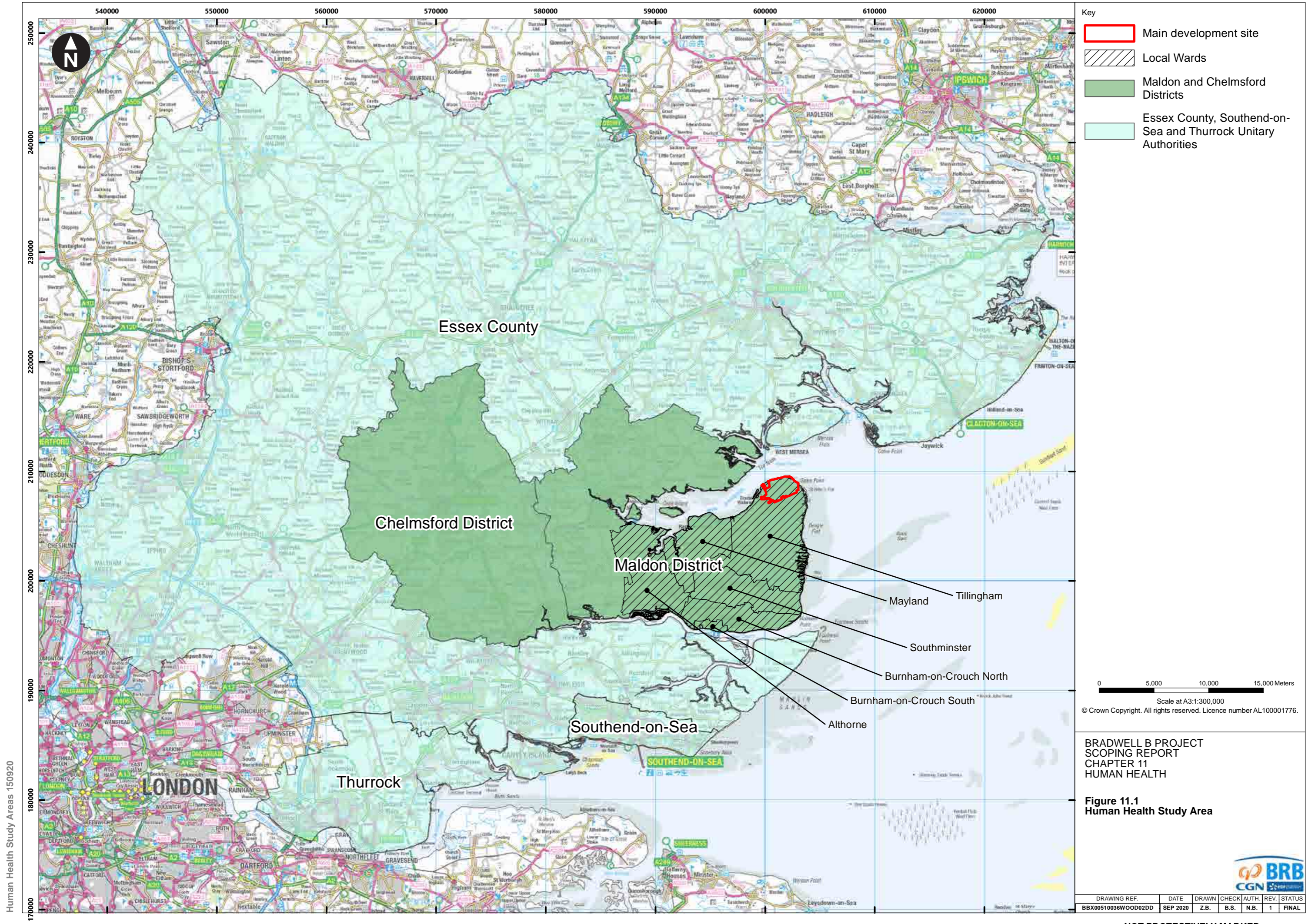
Figure 10.1
Socio-Economic Study Area



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Socio Economic Study Areas 150920



- Key
- Main development site
 - Local Wards
 - Maldon and Chelmsford Districts
 - Essex County, Southend-on-Sea and Thurrock Unitary Authorities

0 5,000 10,000 15,000 Meters
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 SCOPING REPORT
 CHAPTER 11
 HUMAN HEALTH

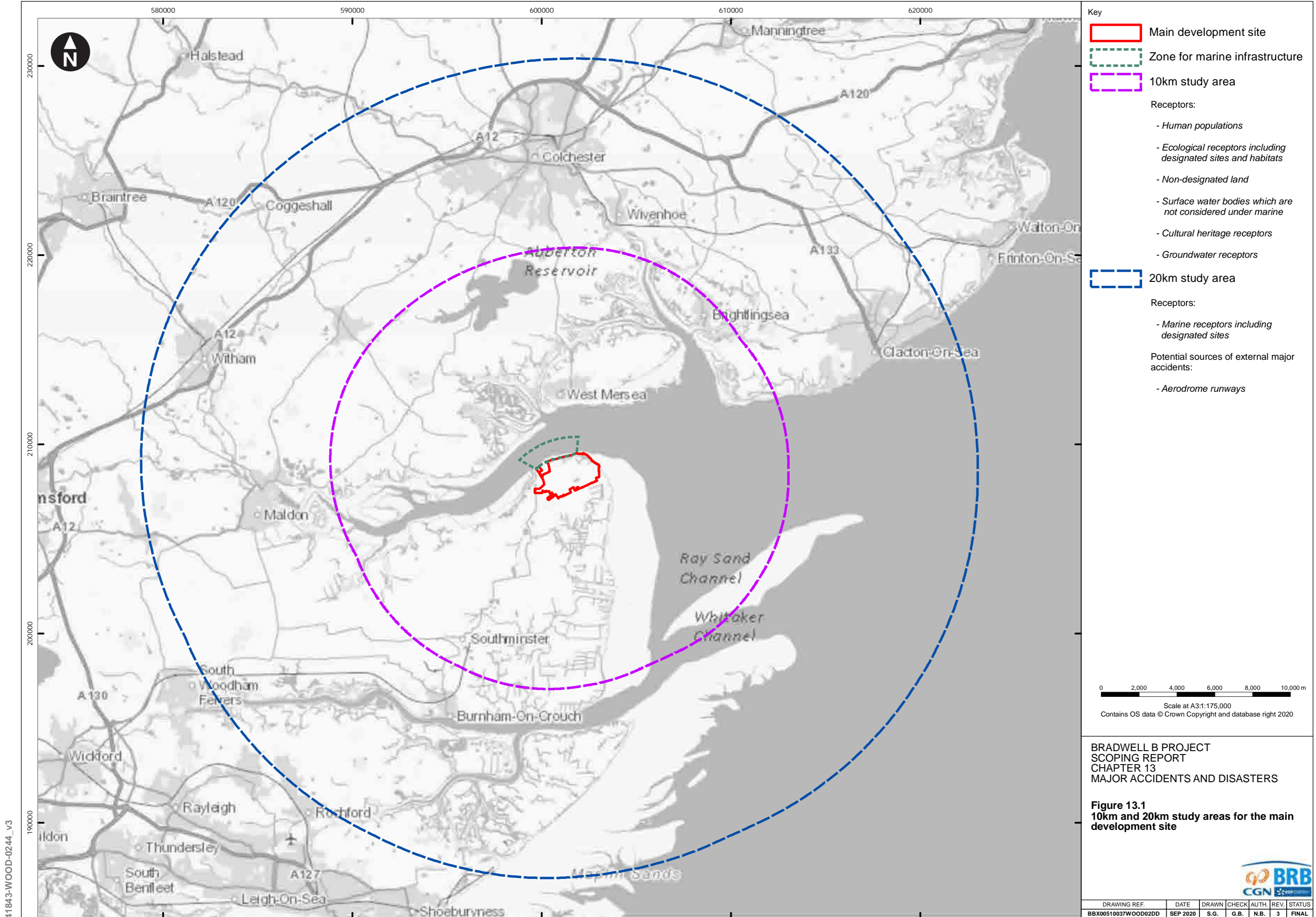
Figure 11.1
Human Health Study Area



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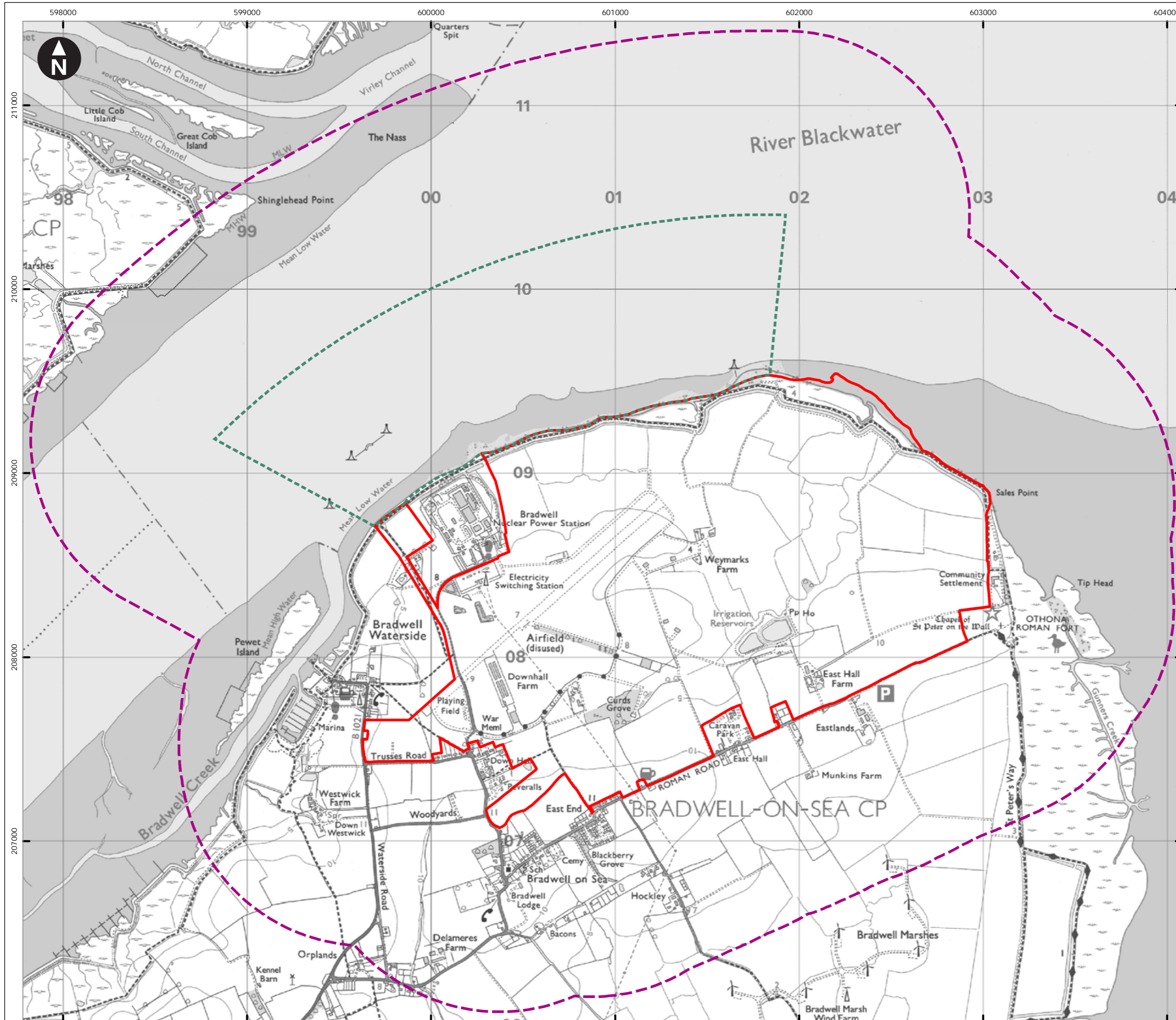
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Human Health Study Areas 150920



41843-WOOD-0244_V3

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Key

- Main development site
- Zone for marine infrastructure
- 1km study area

Potential sources of external major accidents:

- External sites that have been identified for which the Health and Safety Executive (HSE) is a statutory consultee for development in their vicinity:
 - > Sites holding hazardous substances consent
 - > Licensed explosives sites
 - > Major accident hazard pipelines
 - > Major Accident Control Regulations (MACR) sites
- Landfill and mining sites
- Waste sites



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SCOPING REPORT
CHAPTER 13
MAJOR ACCIDENTS AND DISASTERS**

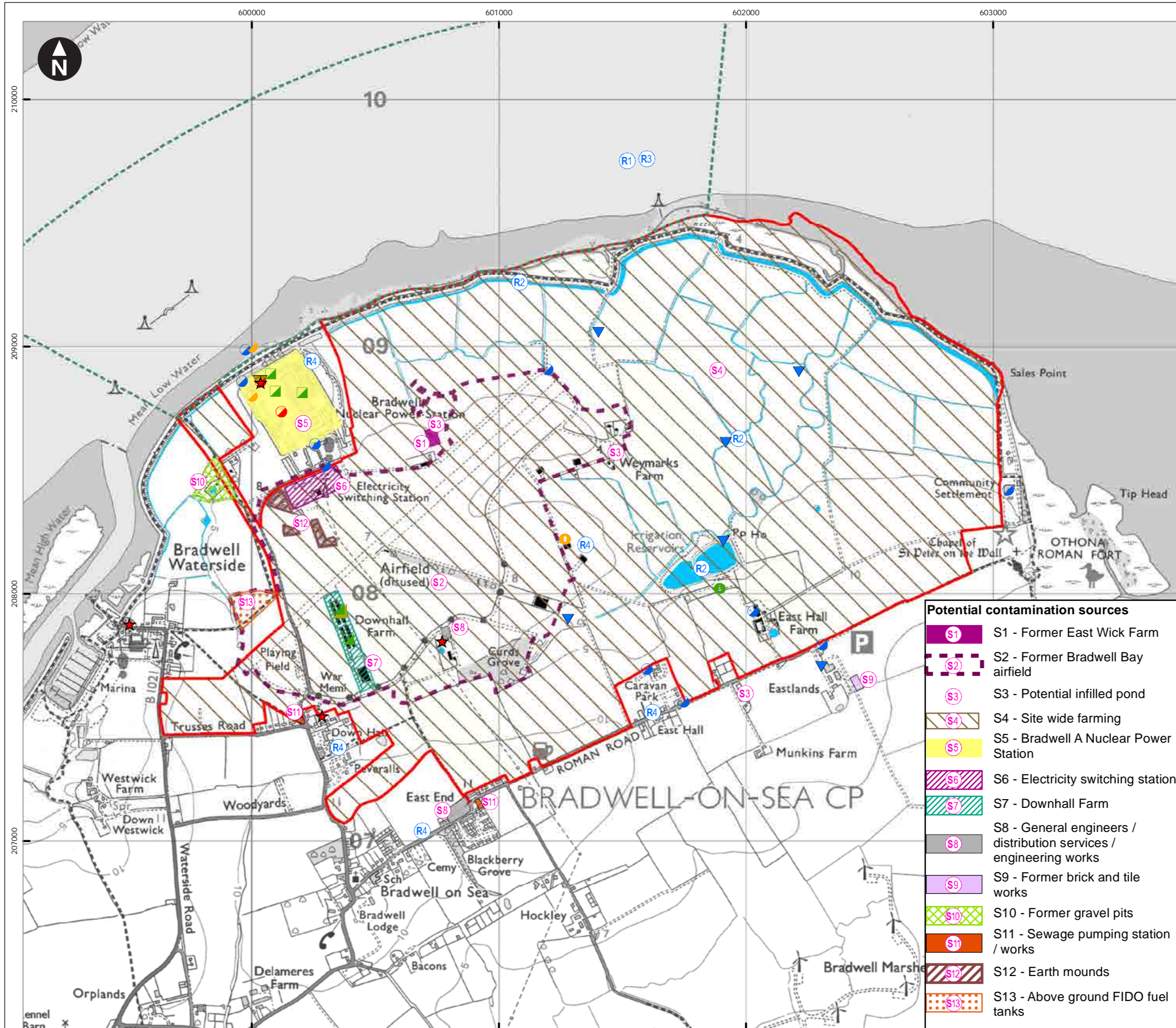
**Figure 13.2
1km study area for the main development site**



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- Key**
- Main development site
 - Zone for marine infrastructure
 - Surface water
 - Existing buildings
 - Existing fertiliser tank
 - Existing propane tank
- Regulatory records**
- ▼ Water abstraction
 - ▼ Waste exemptions
 - Pollution incidents to controlled waters
 - Discharge consent
 - Enforcement and prohibition notices / prosecution relating to authorised processes
 - Registered radioactive substances / radioactive substances site
 - Integrated pollution prevention and control / pollution inventory
 - ★ Contemporary Trade Directory entries and points of interest - commercial services, manufacturing and production (active entries)

- Receptors**
- R1 R1 - Blackwater Estuary
 - R2 R2 - Onsite drainage ditches / Weymarks River / Borrow Dyke / irrigation reservoir
 - R3 R3 - Ecological receptors (statutory designated sites)
 - R4 R4 - Adjacent land users

- Potential contamination sources**
- S1 S1 - Former East Wick Farm
 - S2 S2 - Former Bradwell Bay airfield
 - S3 S3 - Potential infilled pond
 - S4 S4 - Site wide farming
 - S5 S5 - Bradwell A Nuclear Power Station
 - S6 S6 - Electricity switching station
 - S7 S7 - Downhall Farm
 - S8 S8 - General engineers / distribution services / engineering works
 - S9 S9 - Former brick and tile works
 - S10 S10 - Former gravel pits
 - S11 S11 - Sewage pumping station / works
 - S12 S12 - Earth mounds
 - S13 S13 - Above ground FIDO fuel tanks

0 100 200 300 400 500 600 700 800 900 m
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 CHAPTER 14
 SOILS, GEOLOGY AND LAND USE

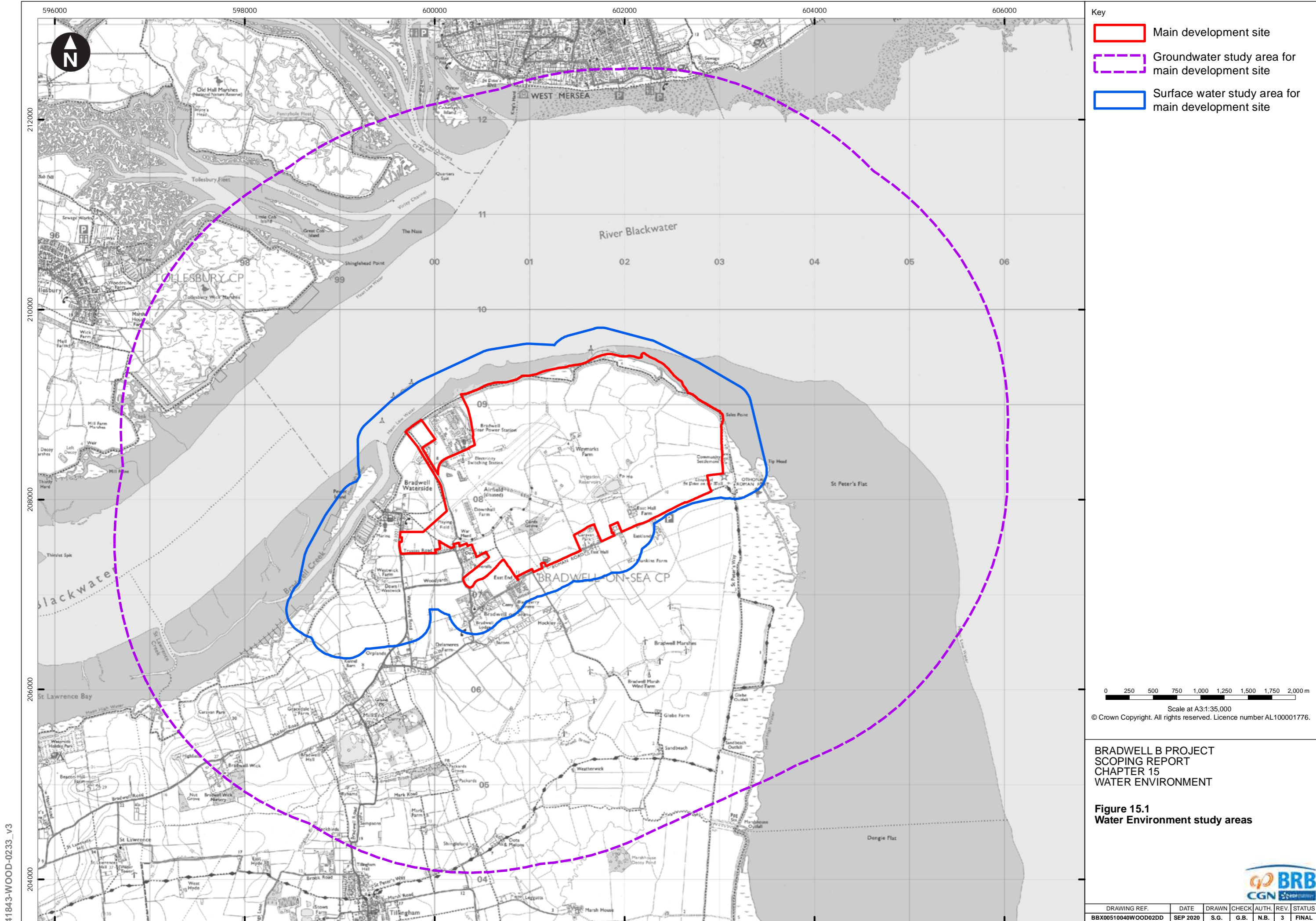
Figure 14.1
Conceptual model



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- Key
- Main development site
 - Groundwater study area for main development site
 - Surface water study area for main development site

0 250 500 750 1,000 1,250 1,500 1,750 2,000 m
 Scale at A3:1:35,000
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 SCOPING REPORT
 CHAPTER 15
 WATER ENVIRONMENT**

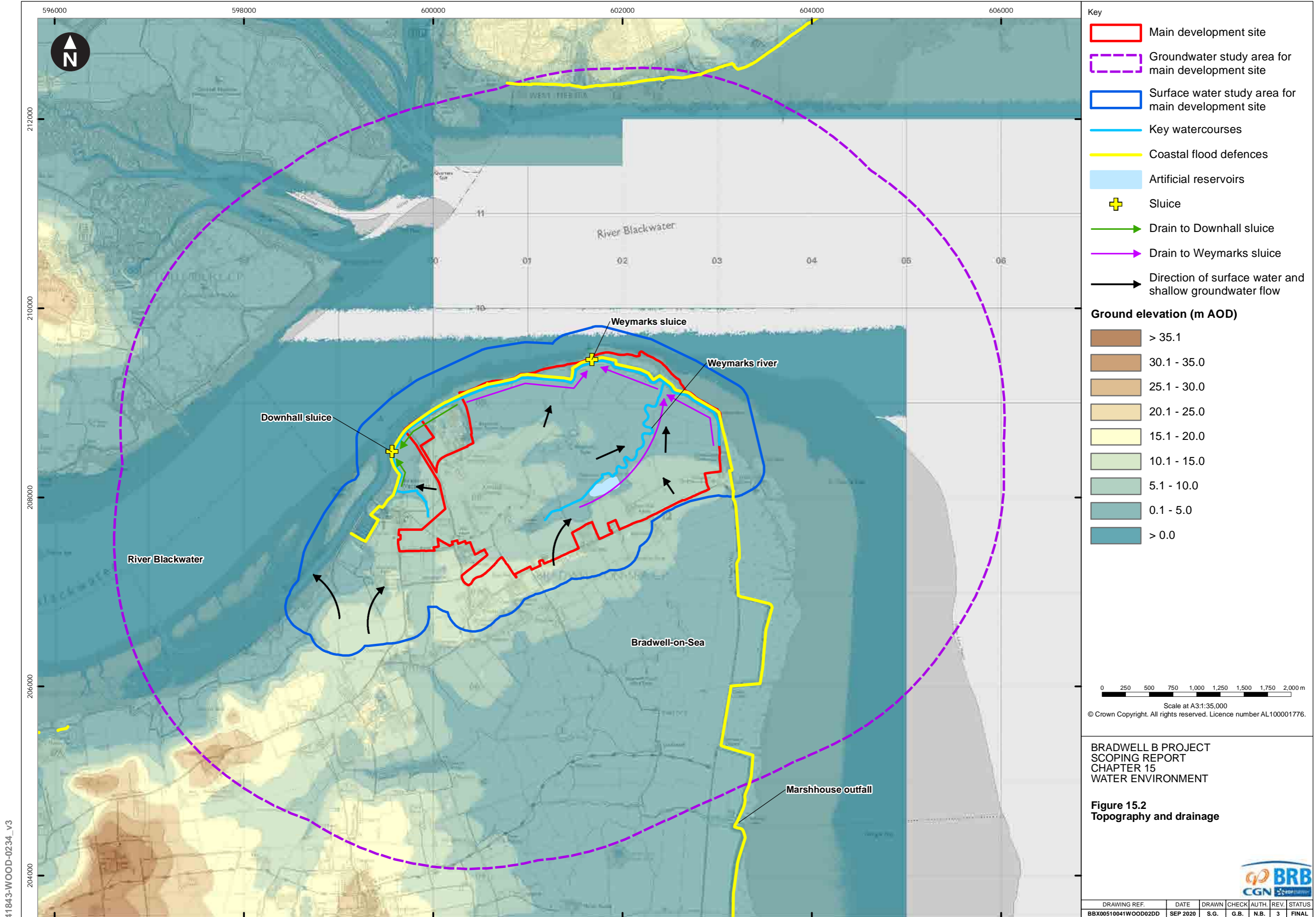
**Figure 15.1
 Water Environment study areas**



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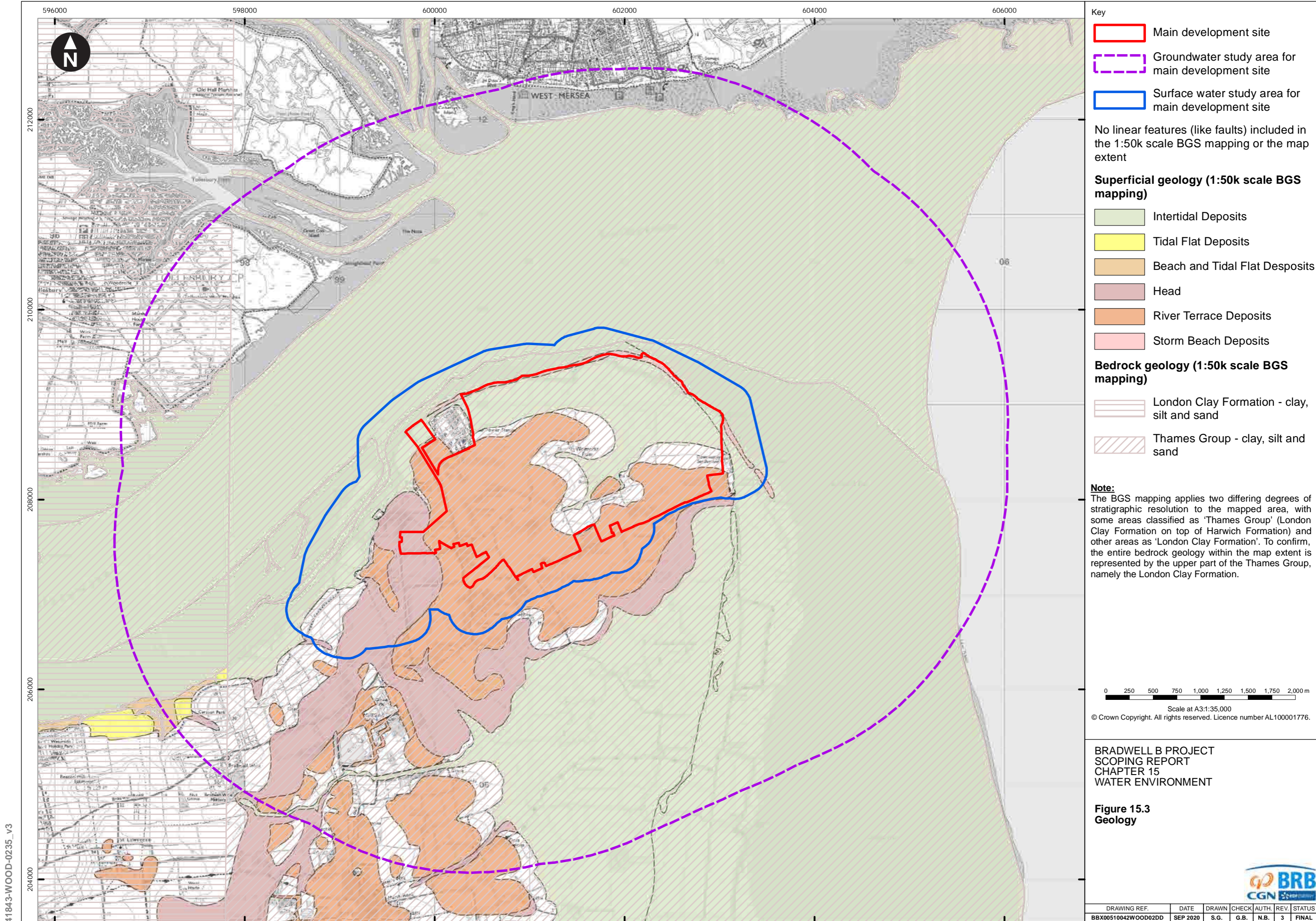
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41843-WOOD-0233_v3



41843-WOOD-0234_v3

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- Key**
- Main development site
 - Groundwater study area for main development site
 - Surface water study area for main development site

No linear features (like faults) included in the 1:50k scale BGS mapping or the map extent

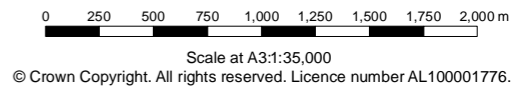
Superficial geology (1:50k scale BGS mapping)

- Intertidal Deposits
- Tidal Flat Deposits
- Beach and Tidal Flat Deposits
- Head
- River Terrace Deposits
- Storm Beach Deposits

Bedrock geology (1:50k scale BGS mapping)

- London Clay Formation - clay, silt and sand
- Thames Group - clay, silt and sand

Note:
The BGS mapping applies two differing degrees of stratigraphic resolution to the mapped area, with some areas classified as 'Thames Group' (London Clay Formation on top of Harwich Formation) and other areas as 'London Clay Formation'. To confirm, the entire bedrock geology within the map extent is represented by the upper part of the Thames Group, namely the London Clay Formation.



BRADWELL B PROJECT
SCOPING REPORT
CHAPTER 15
WATER ENVIRONMENT

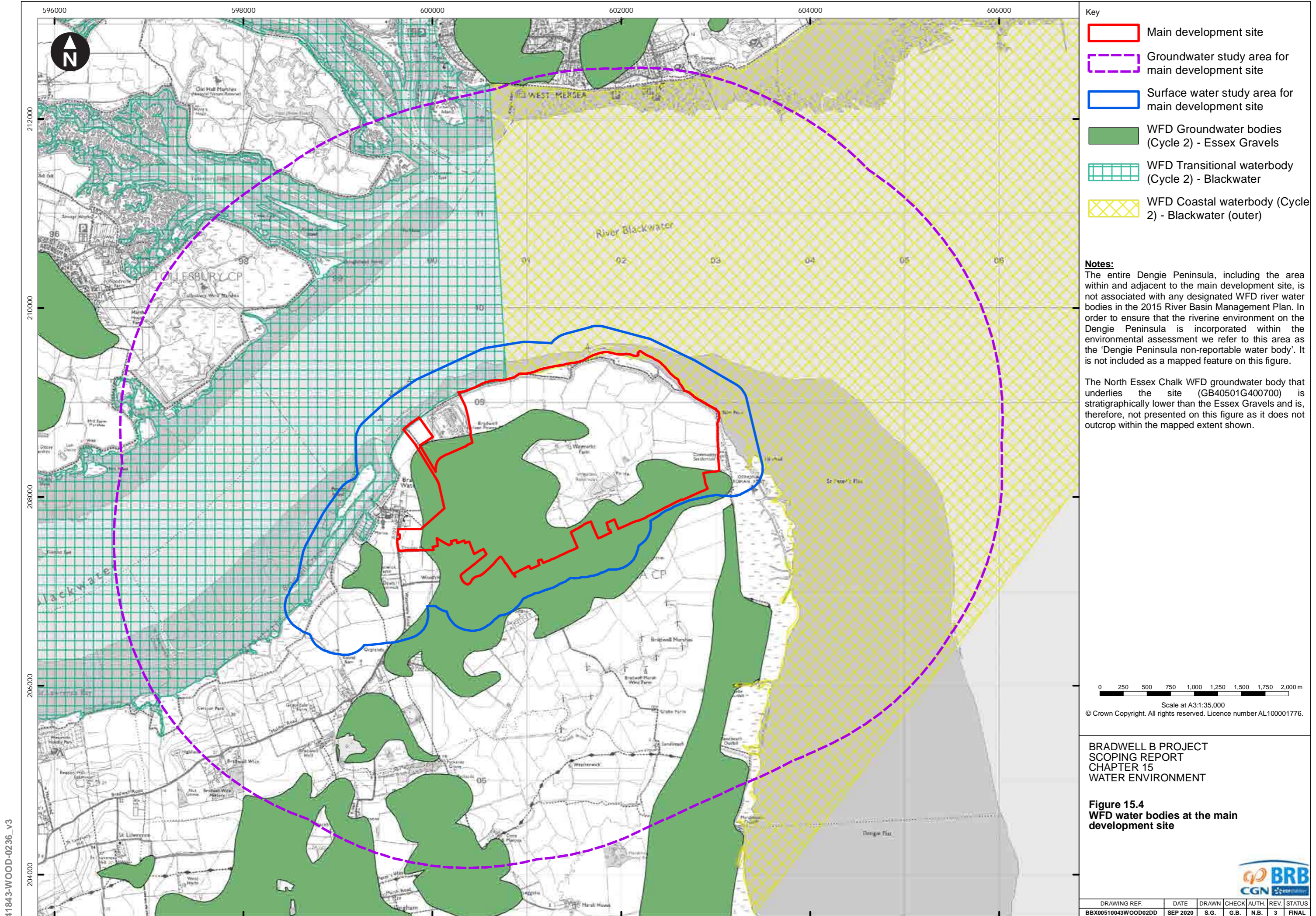
**Figure 15.3
Geology**



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- Key**
- Main development site
 - Groundwater study area for main development site
 - Surface water study area for main development site
 - WFD Groundwater bodies (Cycle 2) - Essex Gravels
 - WFD Transitional waterbody (Cycle 2) - Blackwater
 - WFD Coastal waterbody (Cycle 2) - Blackwater (outer)

Notes:
 The entire Dengie Peninsula, including the area within and adjacent to the main development site, is not associated with any designated WFD river water bodies in the 2015 River Basin Management Plan. In order to ensure that the riverine environment on the Dengie Peninsula is incorporated within the environmental assessment we refer to this area as the 'Dengie Peninsula non-reportable water body'. It is not included as a mapped feature on this figure.

The North Essex Chalk WFD groundwater body that underlies the site (GB40501G400700) is stratigraphically lower than the Essex Gravels and is, therefore, not presented on this figure as it does not outcrop within the mapped extent shown.

0 250 500 750 1,000 1,250 1,500 1,750 2,000 m
 Scale at A3:1:35,000
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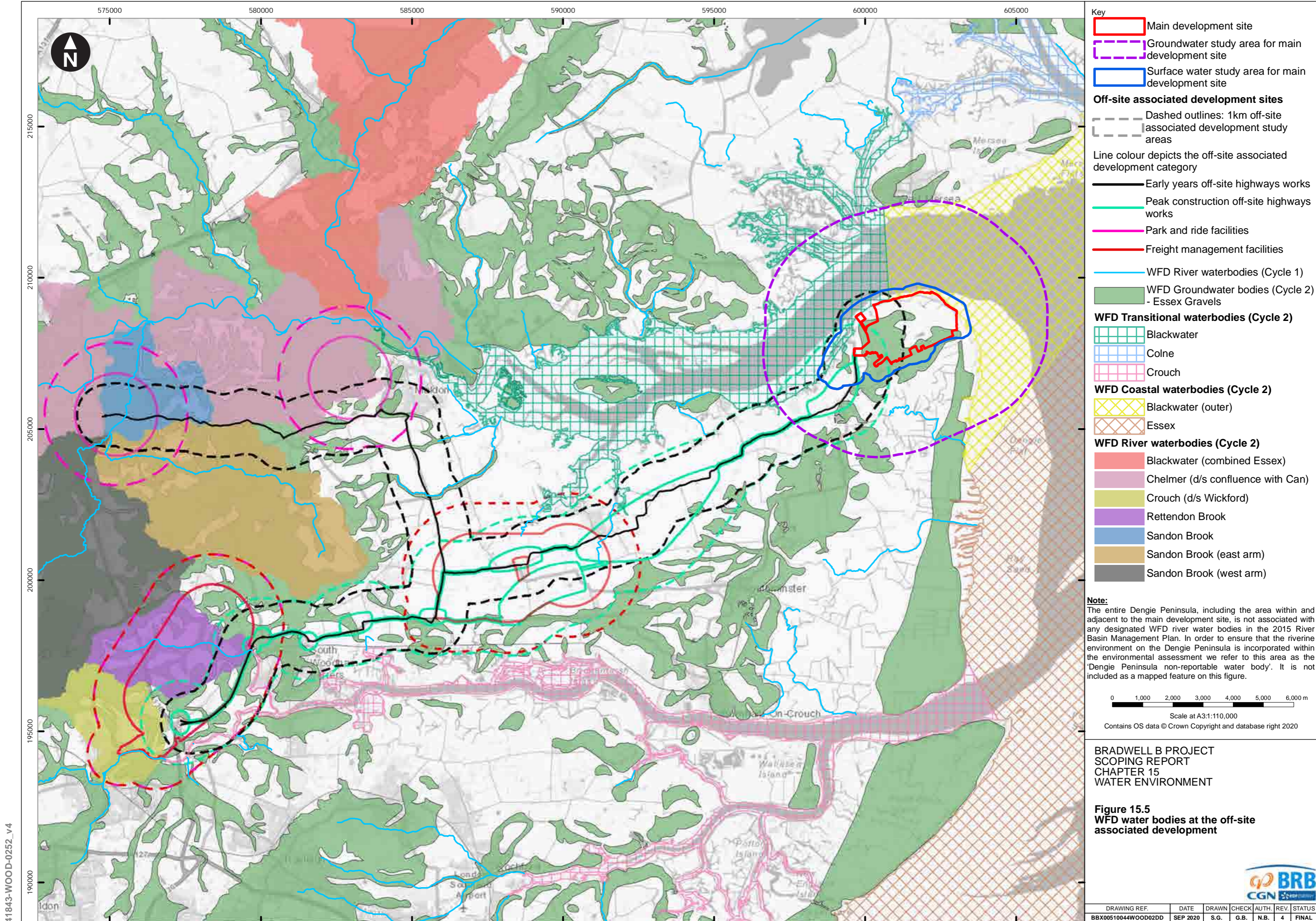
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 SCOPING REPORT
 CHAPTER 15
 WATER ENVIRONMENT**

**Figure 15.4
 WFD water bodies at the main
 development site**



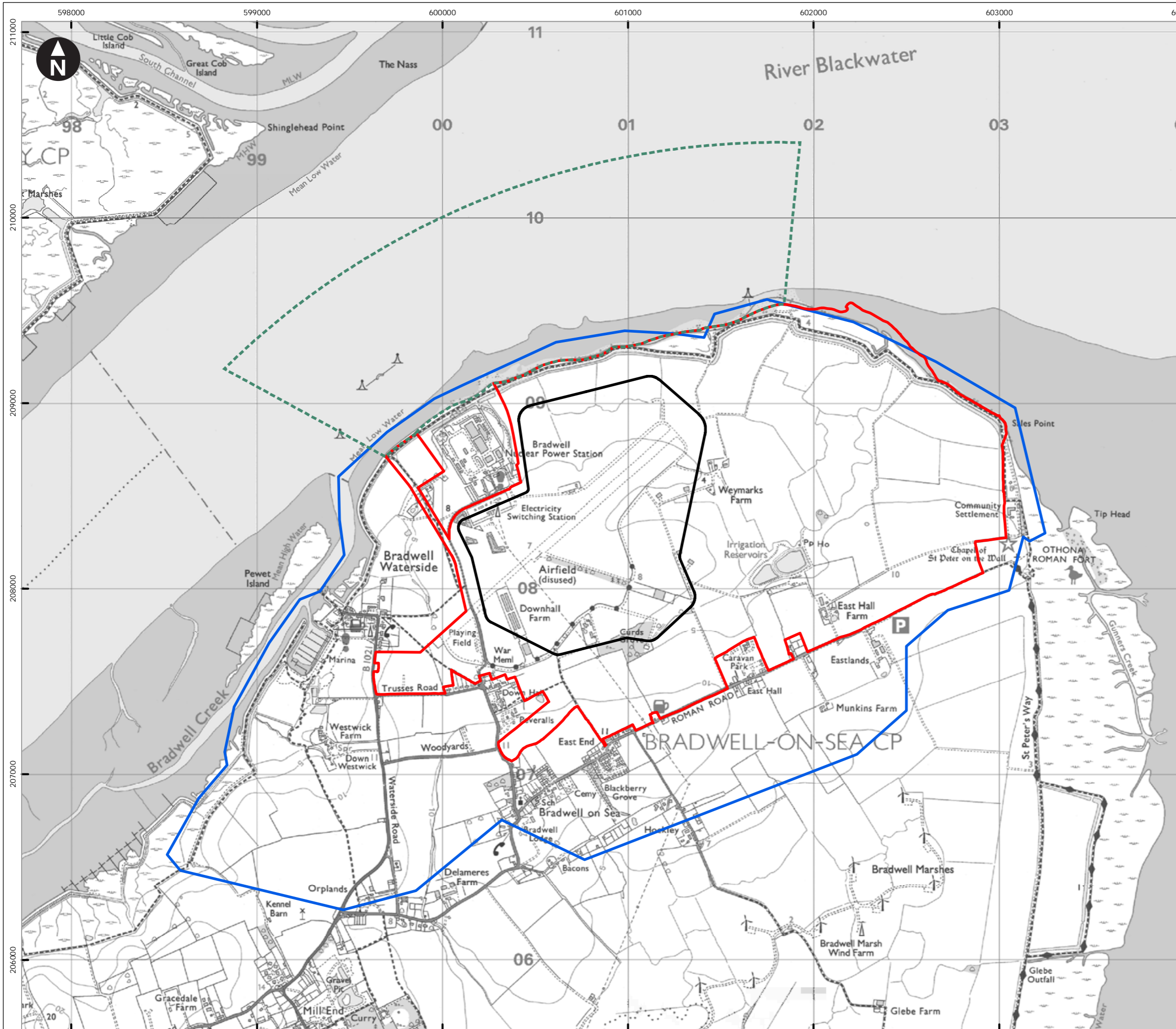
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41843-WOOD-0252_v4

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- Key
- Main development site
 - Zone for marine infrastructure
 - Power station permanent development
 - Flood risk and drainage zone of influence

0 200 400 600 800 1,000 1,200 m
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 SCOPING REPORT
 CHAPTER 16
 FLOOD RISK AND DRAINAGE**

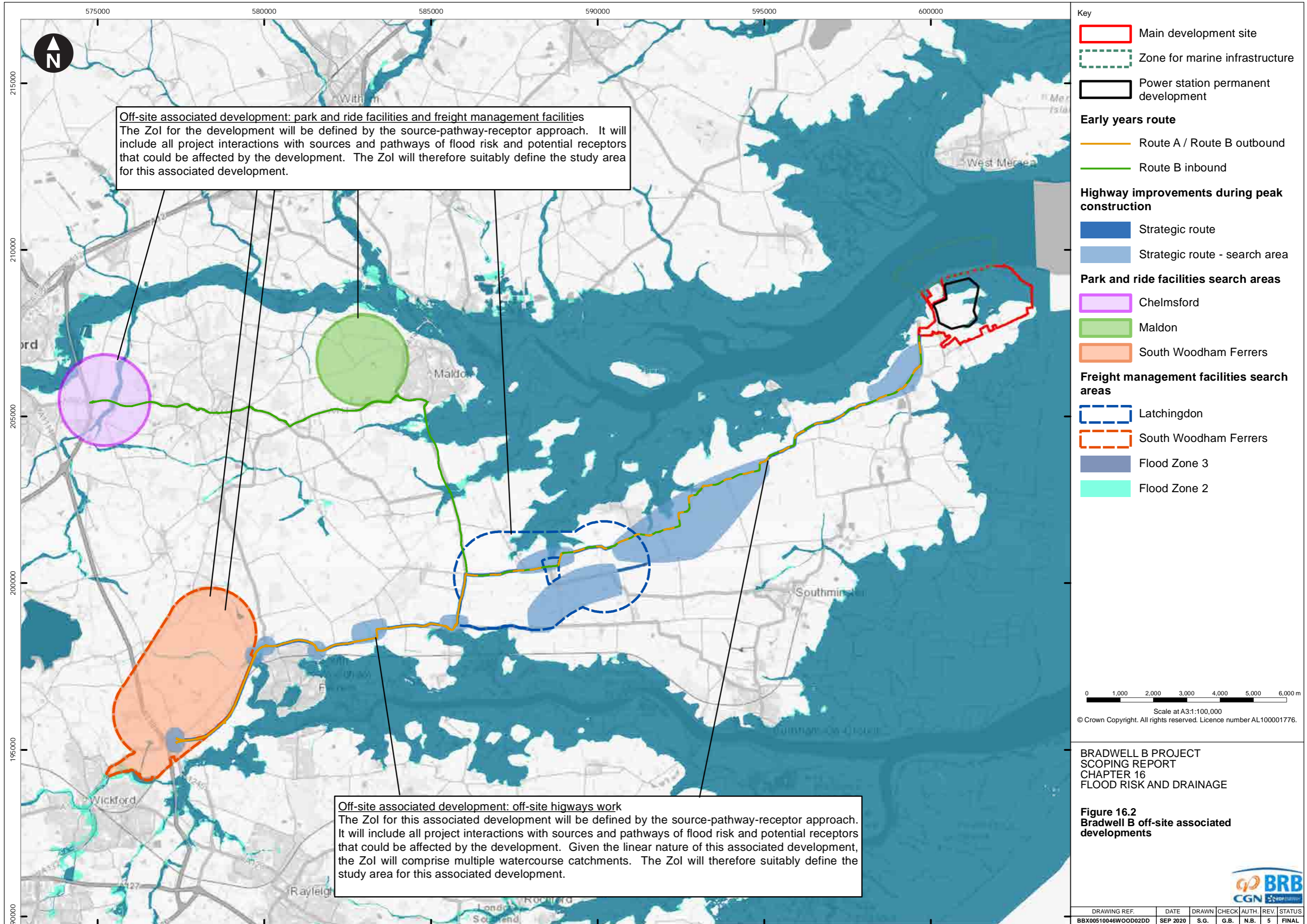
**Figure 16.1
 Main development site flood risk and
 drainage zone of influence**



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Off-site associated development: park and ride facilities and freight management facilities
 The Zol for the development will be defined by the source-pathway-receptor approach. It will include all project interactions with sources and pathways of flood risk and potential receptors that could be affected by the development. The Zol will therefore suitably define the study area for this associated development.

Off-site associated development: off-site highways work
 The Zol for this associated development will be defined by the source-pathway-receptor approach. It will include all project interactions with sources and pathways of flood risk and potential receptors that could be affected by the development. Given the linear nature of this associated development, the Zol will comprise multiple watercourse catchments. The Zol will therefore suitably define the study area for this associated development.

- Key**
- Main development site
 - Zone for marine infrastructure
 - Power station permanent development
- Early years route**
- Route A / Route B outbound
 - Route B inbound
- Highway improvements during peak construction**
- Strategic route
 - Strategic route - search area
- Park and ride facilities search areas**
- Chelmsford
 - Maldon
 - South Woodham Ferrers
- Freight management facilities search areas**
- Latchingdon
 - South Woodham Ferrers
- Flood Zone 3
 - Flood Zone 2

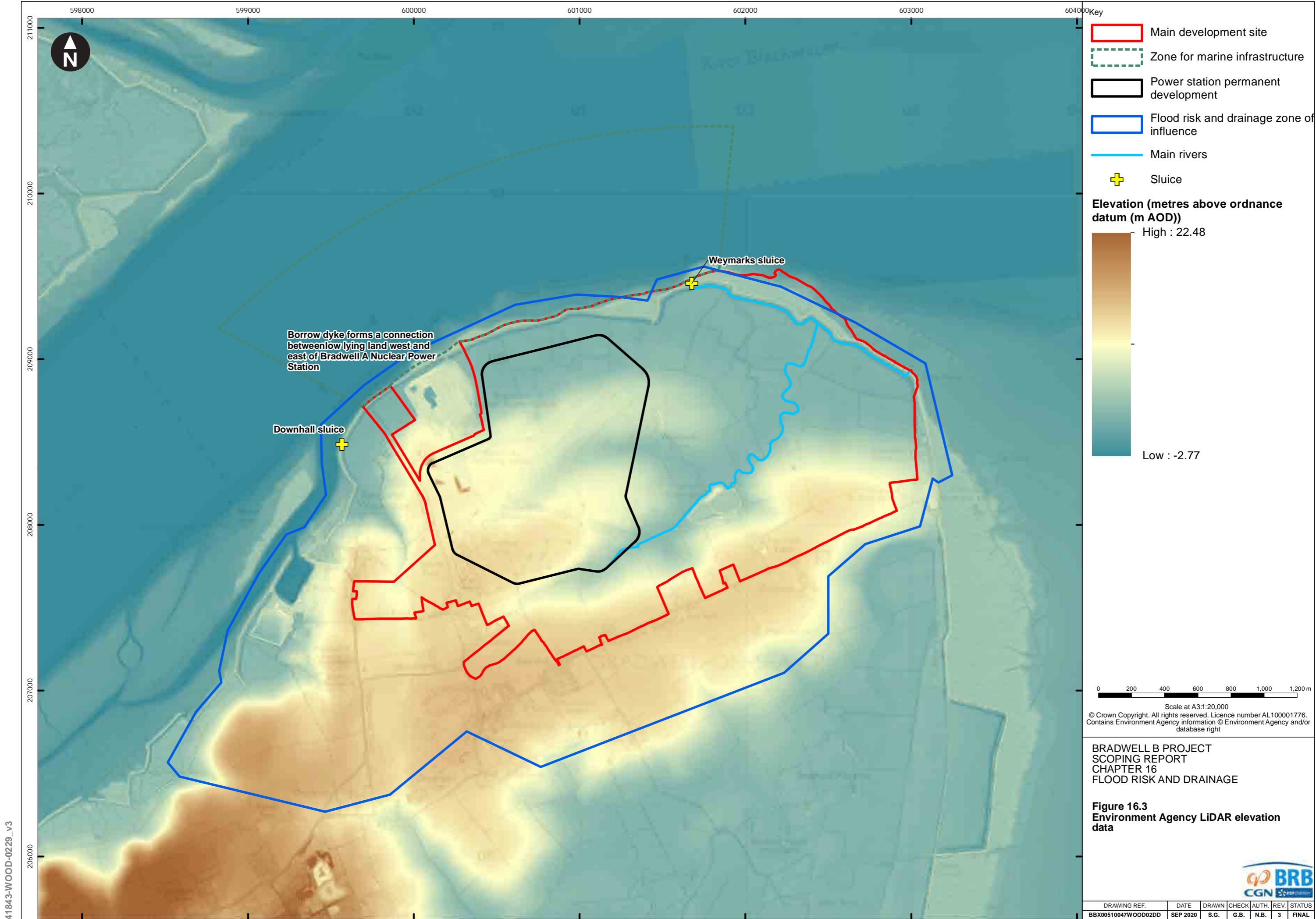
0 1,000 2,000 3,000 4,000 5,000 6,000 m
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 SCOPING REPORT
 CHAPTER 16
 FLOOD RISK AND DRAINAGE

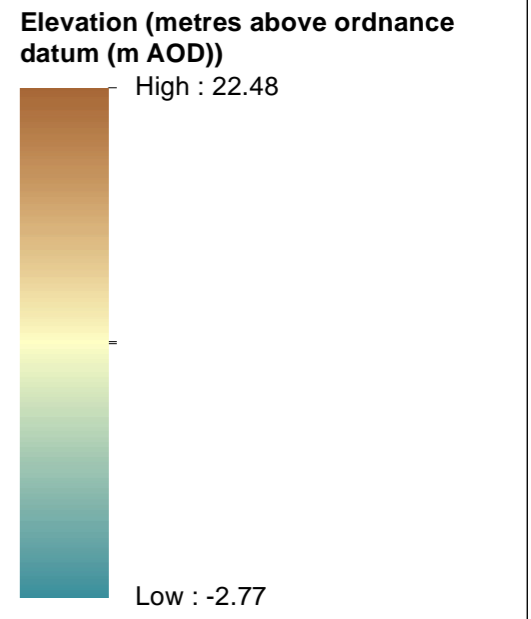
Figure 16.2
 Bradwell B off-site associated developments



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- Key
- Main development site
 - Zone for marine infrastructure
 - Power station permanent development
 - Flood risk and drainage zone of influence
 - Main rivers
 - + Sluice



Borrow dyke forms a connection between low lying land west and east of Bradwell A Nuclear Power Station

Downhall sluice

Weymarks sluice



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 CHAPTER 16
 FLOOD RISK AND DRAINAGE

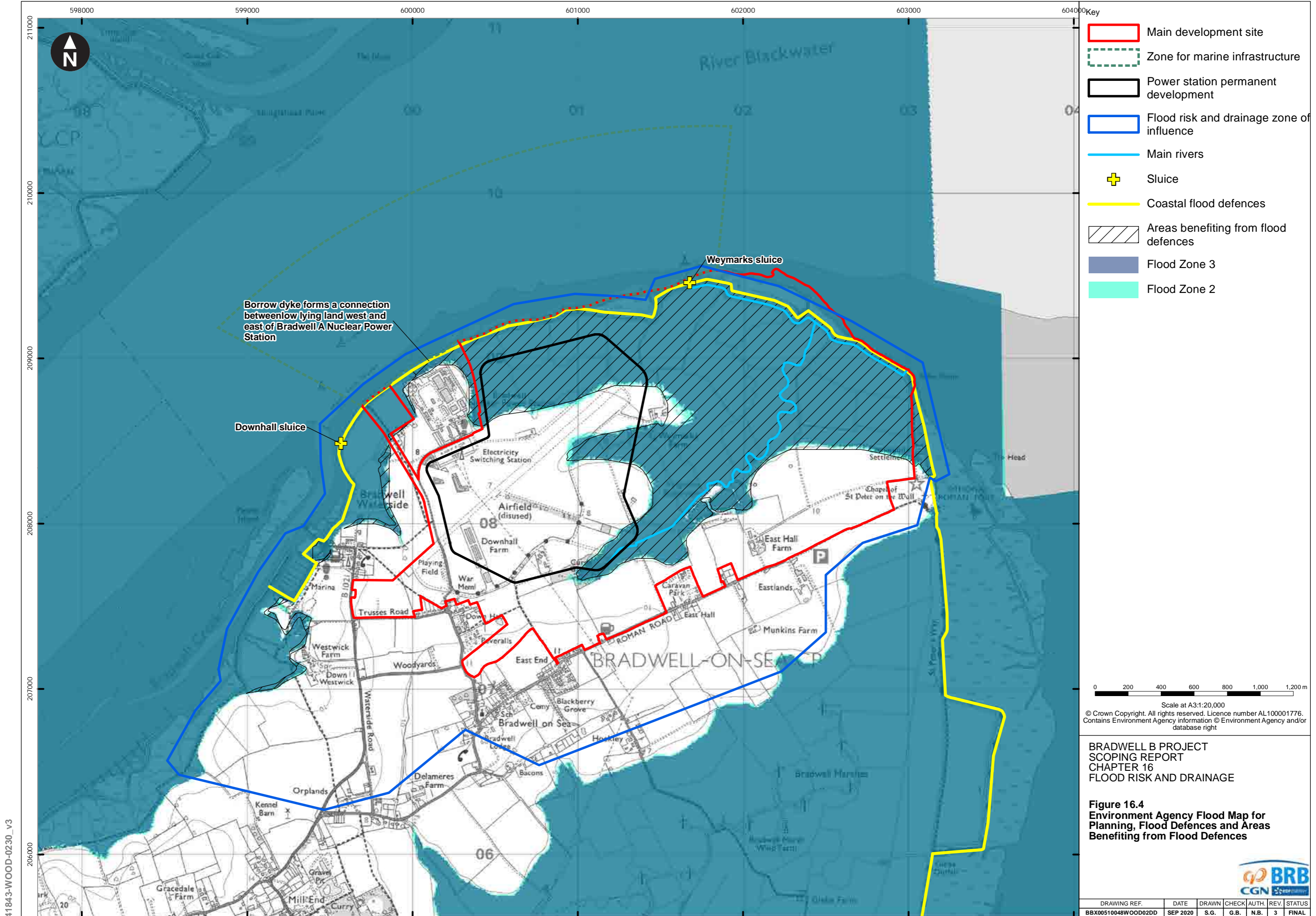
Figure 16.3
 Environment Agency LiDAR elevation data



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Borrow dyke forms a connection between low lying land west and east of Bradwell A Nuclear Power Station

Downhall sluice

Weymarks sluice

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SCOPING REPORT
CHAPTER 16
FLOOD RISK AND DRAINAGE**

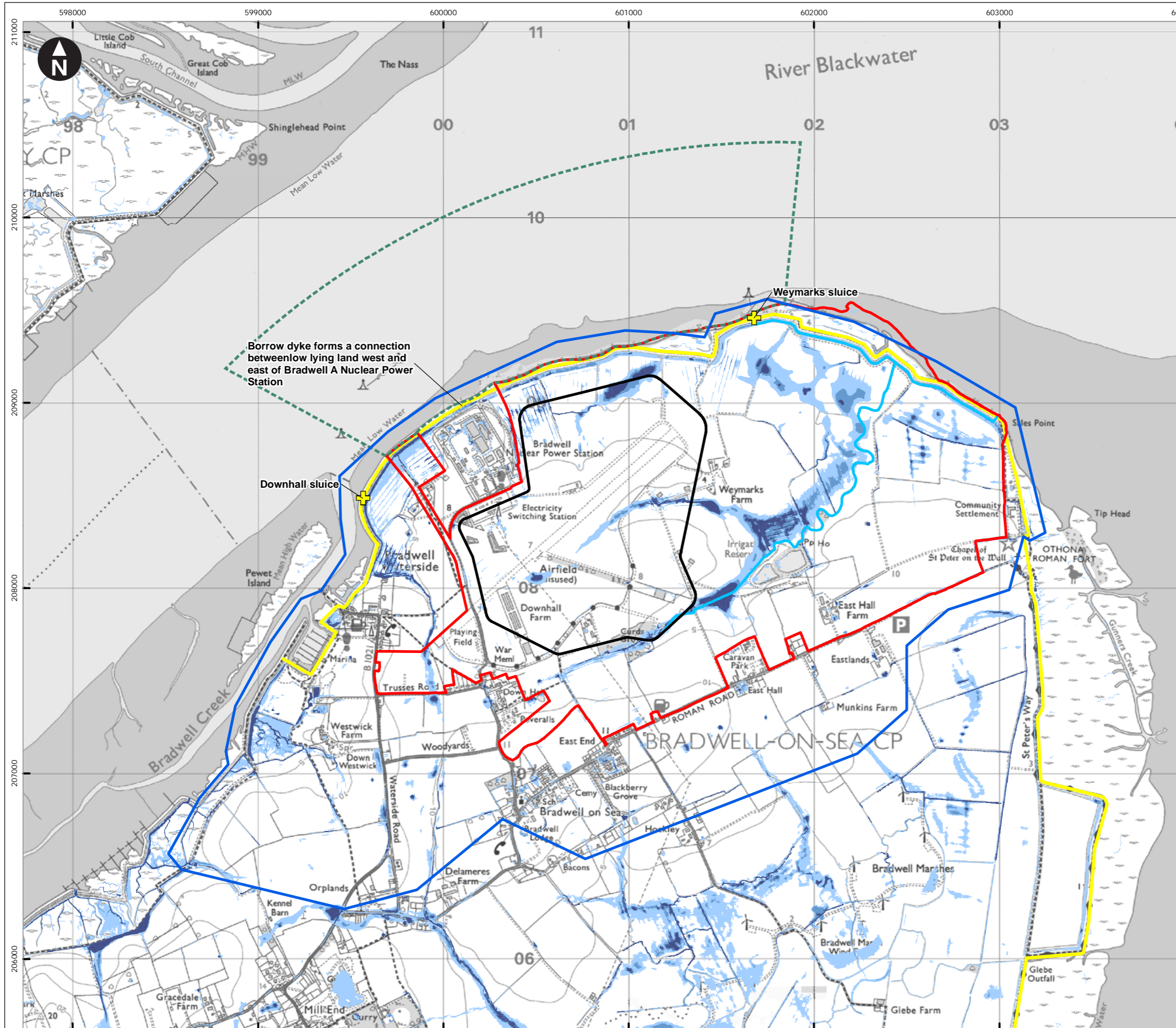
**Figure 16.4
Environment Agency Flood Map for
Planning, Flood Defences and Areas
Benefiting from Flood Defences**



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Key

- Main development site
- Zone for marine infrastructure
- Power station permanent development
- Flood risk and drainage zone of influence
- Main rivers
- + Sluice
- Coastal flood defences

Risk of Flooding from Surface Water - Extent

- Greater than 3.33% Annual Exceedance Probability (AEP)
- 3.33% AEP to 1% AEP
- 1% AEP to 0.1% AEP
- Less than 0.1% AEP

Note:
 At this location no detailed mapping of fluvial risk (i.e. from the Weymarks River) is available. The surface water flood risk mapping provided here provides an indication of the key areas at risk from both the Weymarks River and intense rainfall).

0 200 400 600 800 1,000 1,200 m
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CHAPTER 16
FLOOD RISK AND DRAINAGE

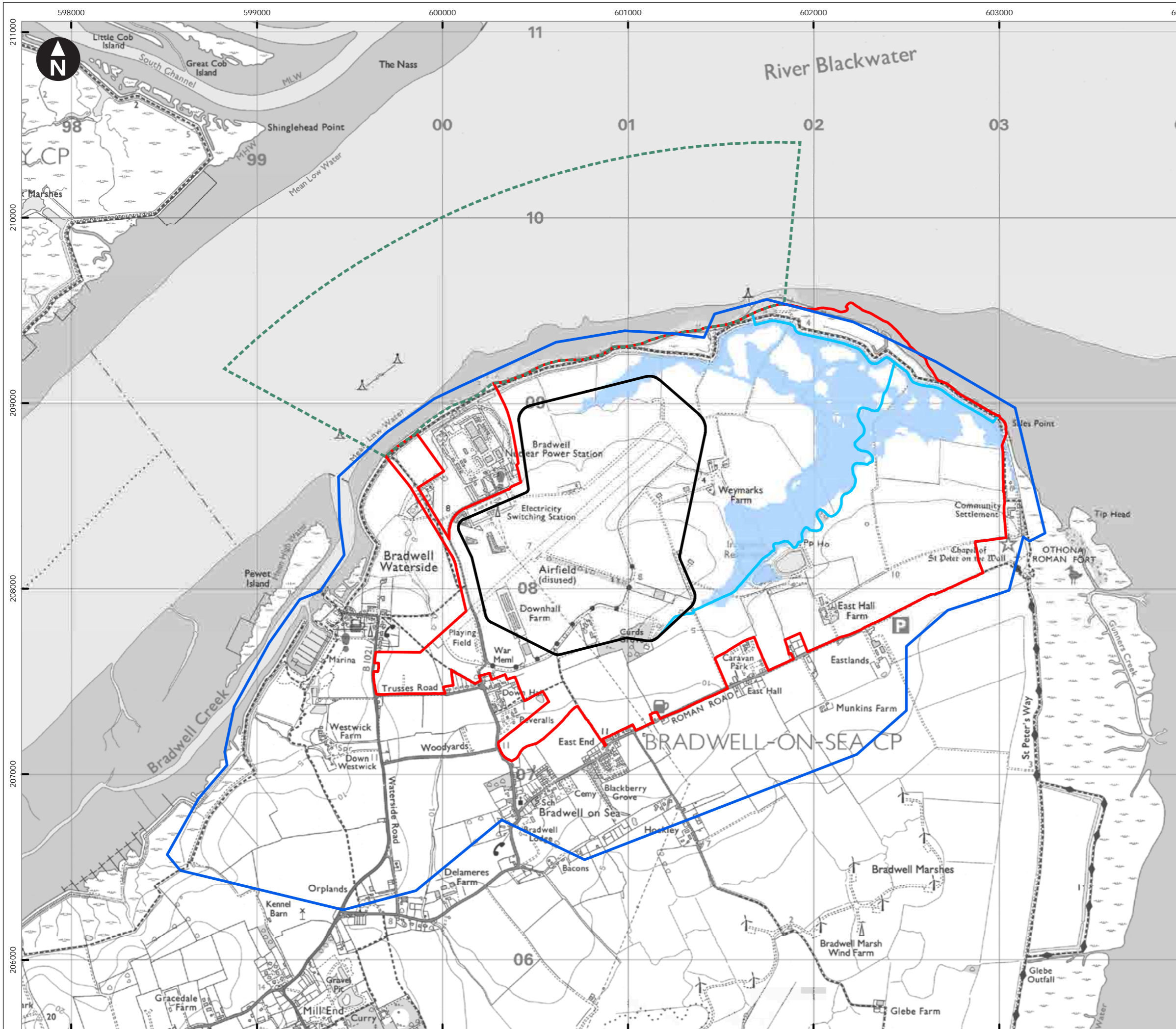
Figure 16.5
Environment Agency pluvial Flood Risk Mapping



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- Key
- Main development site
 - Zone for marine infrastructure
 - Power station permanent development
 - Flood risk and drainage zone of influence
 - Main rivers
 - Reservoir flood risk extent



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SCOPING REPORT
CHAPTER 16
FLOOD RISK AND DRAINAGE

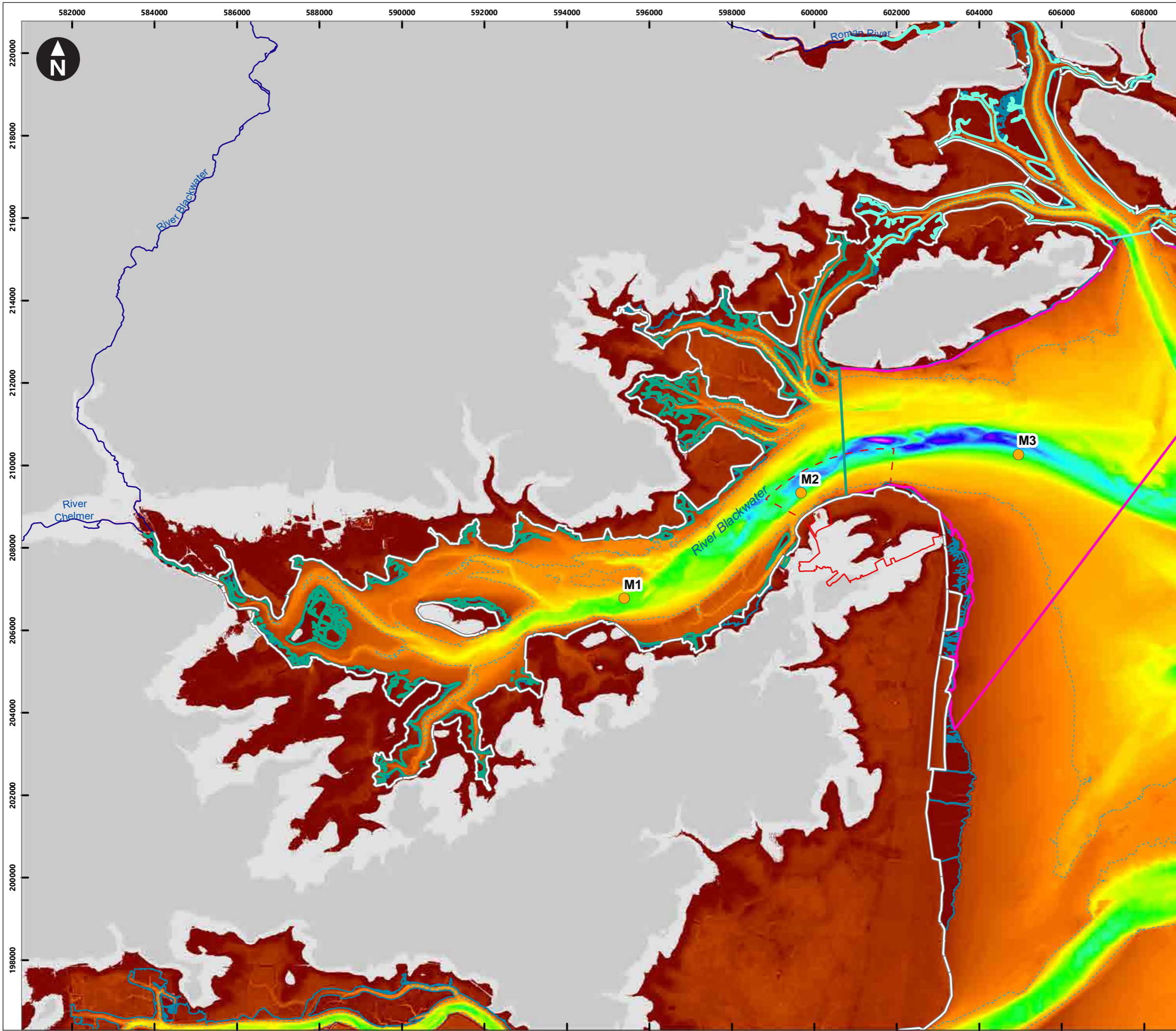
Figure 16.6
Environment Agency reservoir Flood Risk Mapping



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Key

- Main development site
- Zone for marine infrastructure
- Moorings
- MHWS (2.52m ODN)
- MLWS (-1.97m ODN)
- Defences
- Colne transitional water body
- Blackwater transitional water body
- Blackwater coastal water body

Elevation (ODN)

- Above 10 m
- Above 5 m

High : 2.52 m and above

Low : -25 m and below

Mean Low Water Springs (MLWS) and Mean High Water Springs (MHWS) are based on October – December 2019 tide gauge data.

0 1 2 3 4 5 km

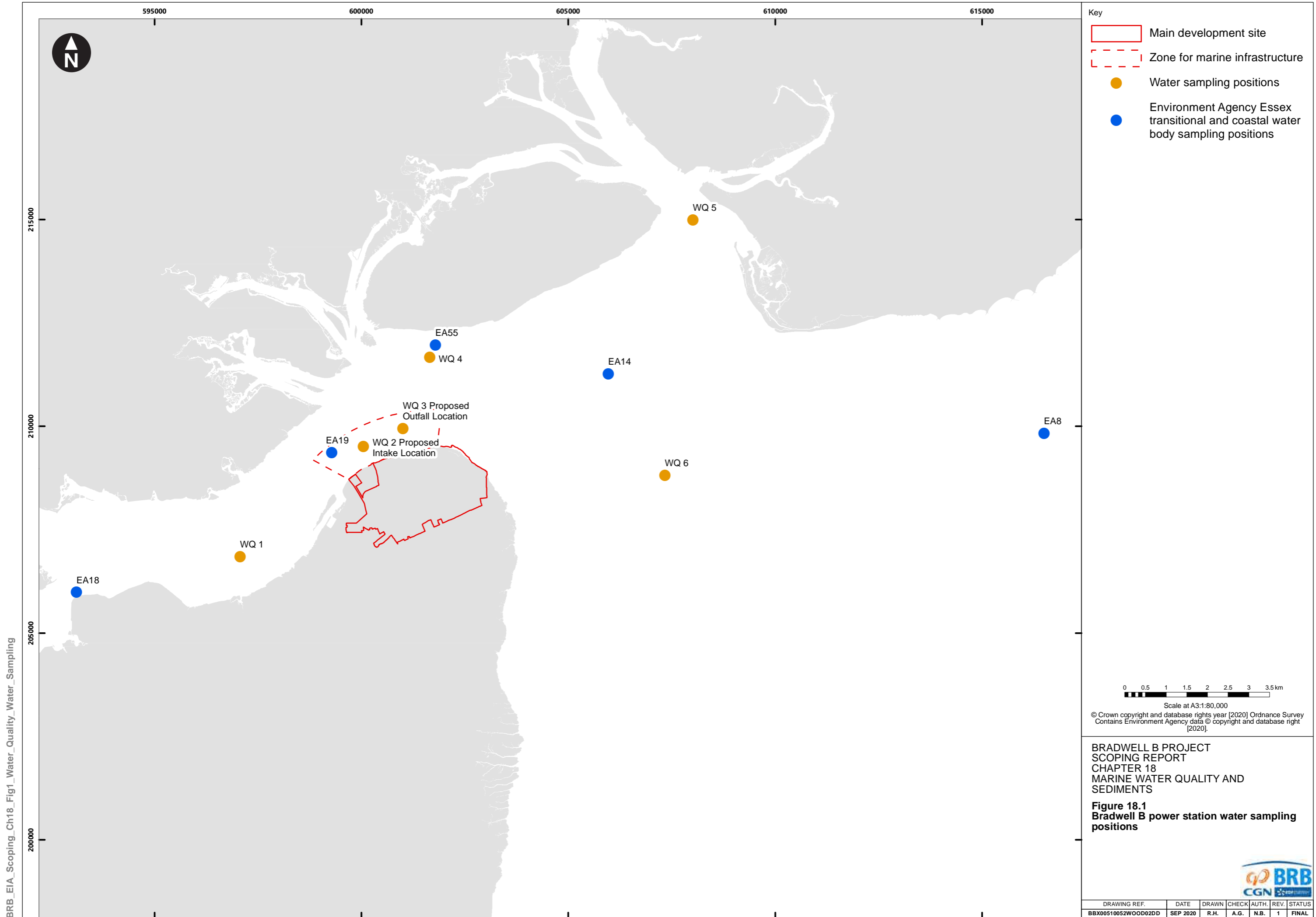
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SCOPING REPORT
CHAPTER 17
COASTAL GEOMORPHOLOGY AND
HYDRODYNAMICS

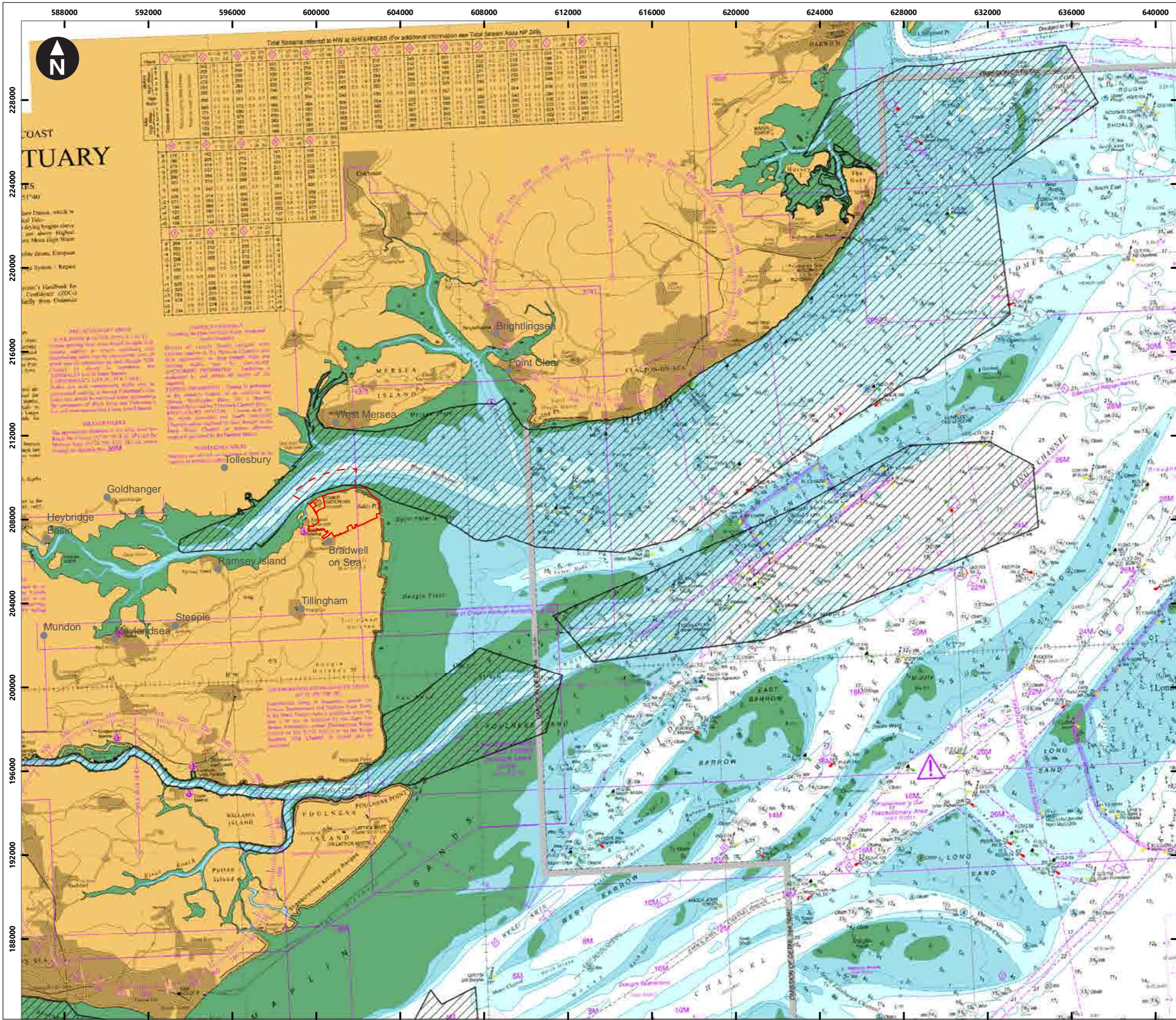
Figure 17.1
Bathymetry and defences of the
Blackwater Estuary

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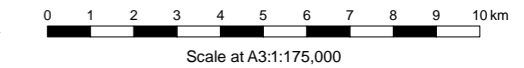
BRB_EIA_Scoping_Ch18_Fig1_Water_Quality_Water_Sampling

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Key

- Main development site
- Zone for marine infrastructure
- General boating area



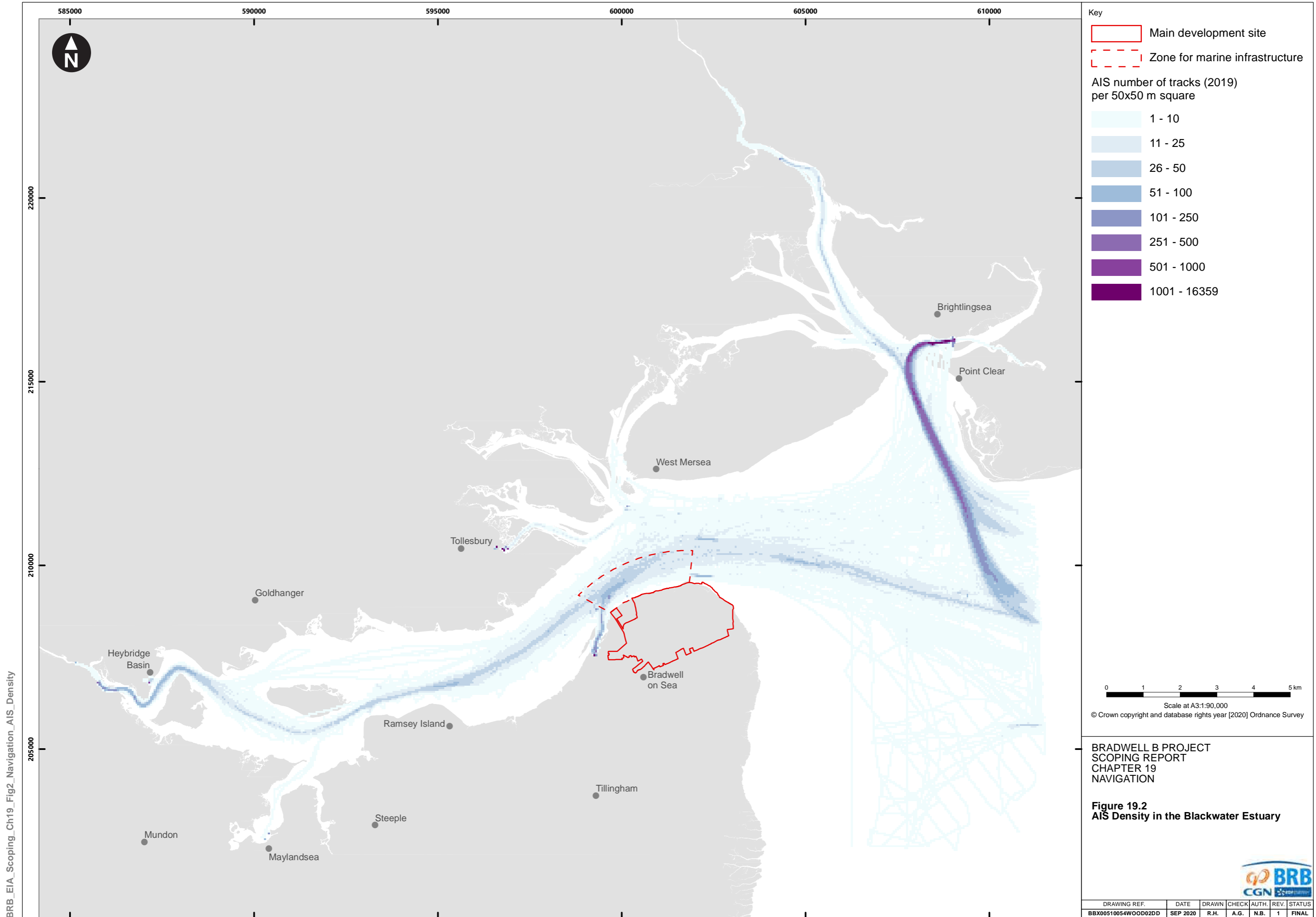
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SCOPING REPORT
CHAPTER 19
NAVIGATION

Figure 19.1
General boating areas in the Blackwater Estuary



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Key

- Main development site
- Zone for marine infrastructure

AIS number of tracks (2019)
per 50x50 m square

- 1 - 10
- 11 - 25
- 26 - 50
- 51 - 100
- 101 - 250
- 251 - 500
- 501 - 1000
- 1001 - 16359

0 1 2 3 4 5 km
Scale at A3:1:90,000
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SCOPING REPORT
CHAPTER 19
NAVIGATION

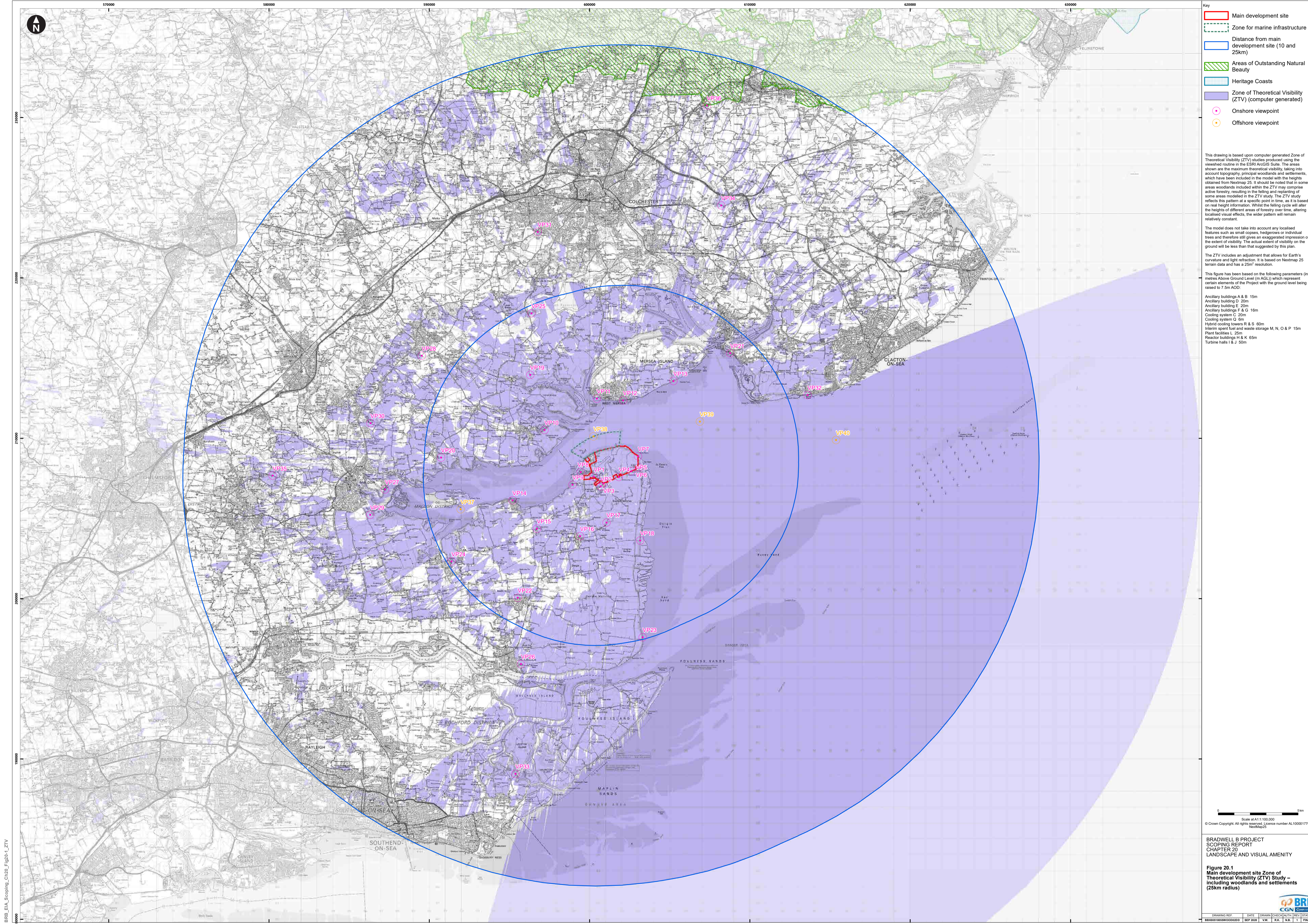
Figure 19.2
AIS Density in the Blackwater Estuary



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BRB_EIA_Scoping_Ch19_Fig2_Navigation_AIS_Density



- Key**
- Main development site
 - Zone for marine infrastructure
 - Distance from main development site (10 and 25km)
 - Areas of Outstanding Natural Beauty
 - Heritage Coasts
 - Zone of Theoretical Visibility (ZTV) (computer generated)
 - Onshore viewpoint
 - Offshore viewpoint

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the viewshed routine in the ESRI ArcGIS Suite. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and settlements, which have been included in the model with the heights obtained from Nextmap 25. It should be noted that in some areas woodlands included within the ZTV may comprise active forestry, resulting in the felling and replanting of some areas modelled in the ZTV study. The ZTV study reflects this pattern at a specific point in time, as it is based on real height information. Whilst the felling cycle will alter the heights of different areas of forestry over time, altering localised visual effects, the wider pattern will remain relatively constant.

The model does not take into account any localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on Nextmap 25 terrain data and has a 25m resolution.

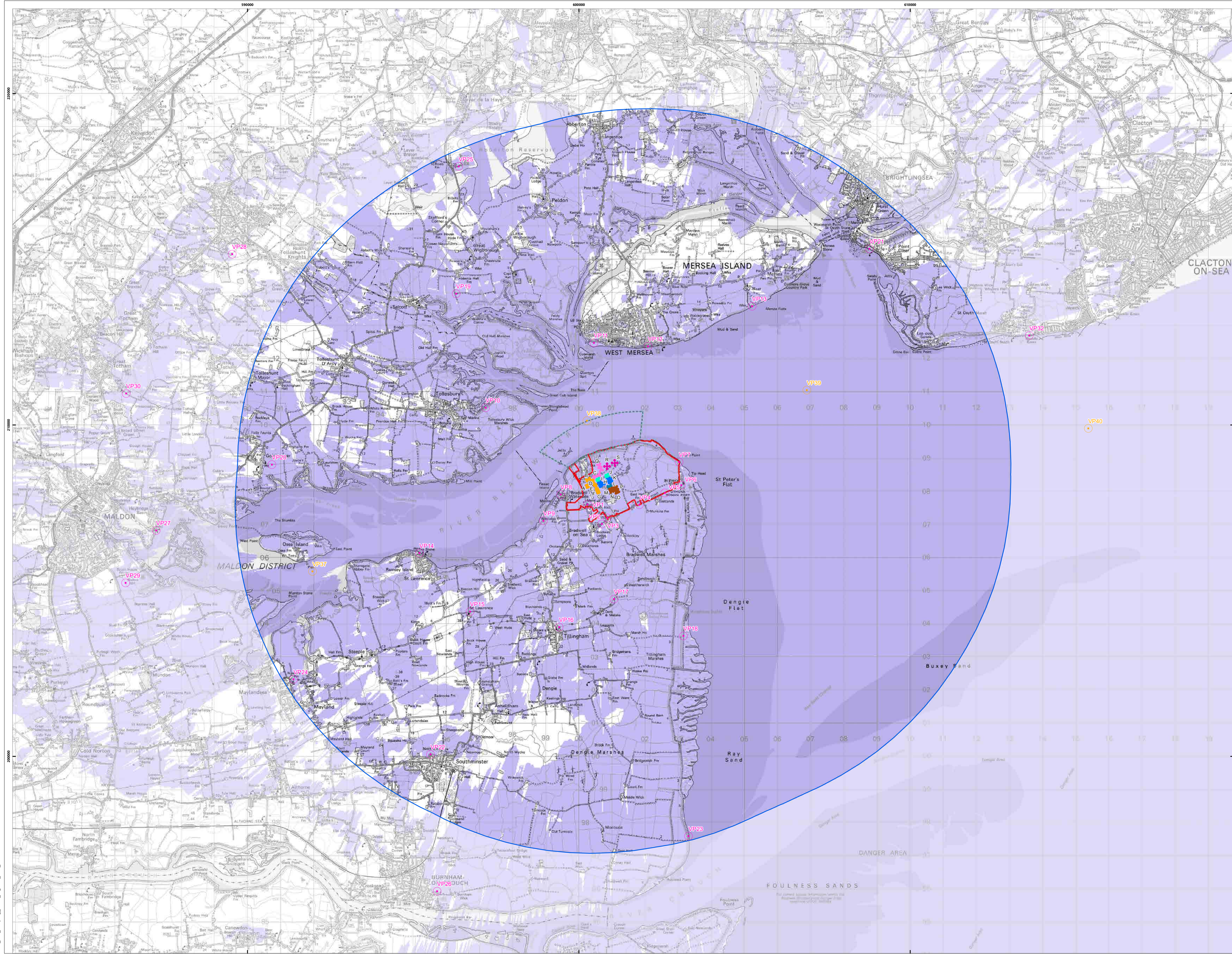
This figure has been based on the following parameters (in metres Above Ground Level (m AGL)) which represent certain elements of the Project with the ground level being raised to 7.5m AOD:

- Ancillary buildings A & B 15m
- Ancillary building D 20m
- Ancillary building E 20m
- Ancillary buildings F & G 16m
- Cooling system C 20m
- Cooling system Q 6m
- Hybrid cooling towers R & S 60m
- Interim spent fuel and waste storage M, N, O & P 15m
- Plant facilities L 25m
- Reactor buildings H & K 65m
- Turbine halls I & J 50m

Scale at A1:1:100,000
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 NextMap25

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 SCOPING REPORT
 CHAPTER 20
 LANDSCAPE AND VISUAL AMENITY

Figure 20.1
 Main development site Zone of Theoretical Visibility (ZTV) Study – including woodlands and settlements (25km radius)



- Main development site
- Zone for marine infrastructure
- Distance from main development site (10km)
- Ancillary building
- Cooling system
- Hybrid cooling tower
- Interim spent fuel and waste
- Plant facilities
- Reactor building
- Turbine hall
- Zone of Theoretical Visibility (ZTV) (computer generated)
- Onshore viewpoint
- Offshore viewpoint

This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the ESRI ArcGIS Suite. The areas shown are the maximum theoretical visibility, taking into account topography, principal woodlands and settlements, which have been included in the model with the heights obtained from Nextmap 25. It should be noted that in some areas woodlands included within the ZTV may comprise active forestry, resulting in the felling and replanting of some areas modelled in the ZTV study. The ZTV study reflects this pattern at a specific point in time, as it is based on real height information. Whilst the felling cycle will alter the heights of different areas of forestry over time, altering localised visual effects, the wider pattern will remain relatively constant.

The model does not take into account any localised features such as small copses, hedgerows or individual trees and therefore still gives an exaggerated impression of the extent of visibility. The actual extent of visibility on the ground will be less than that suggested by this plan.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on Nextmap 25 terrain data and has a 25m² resolution.

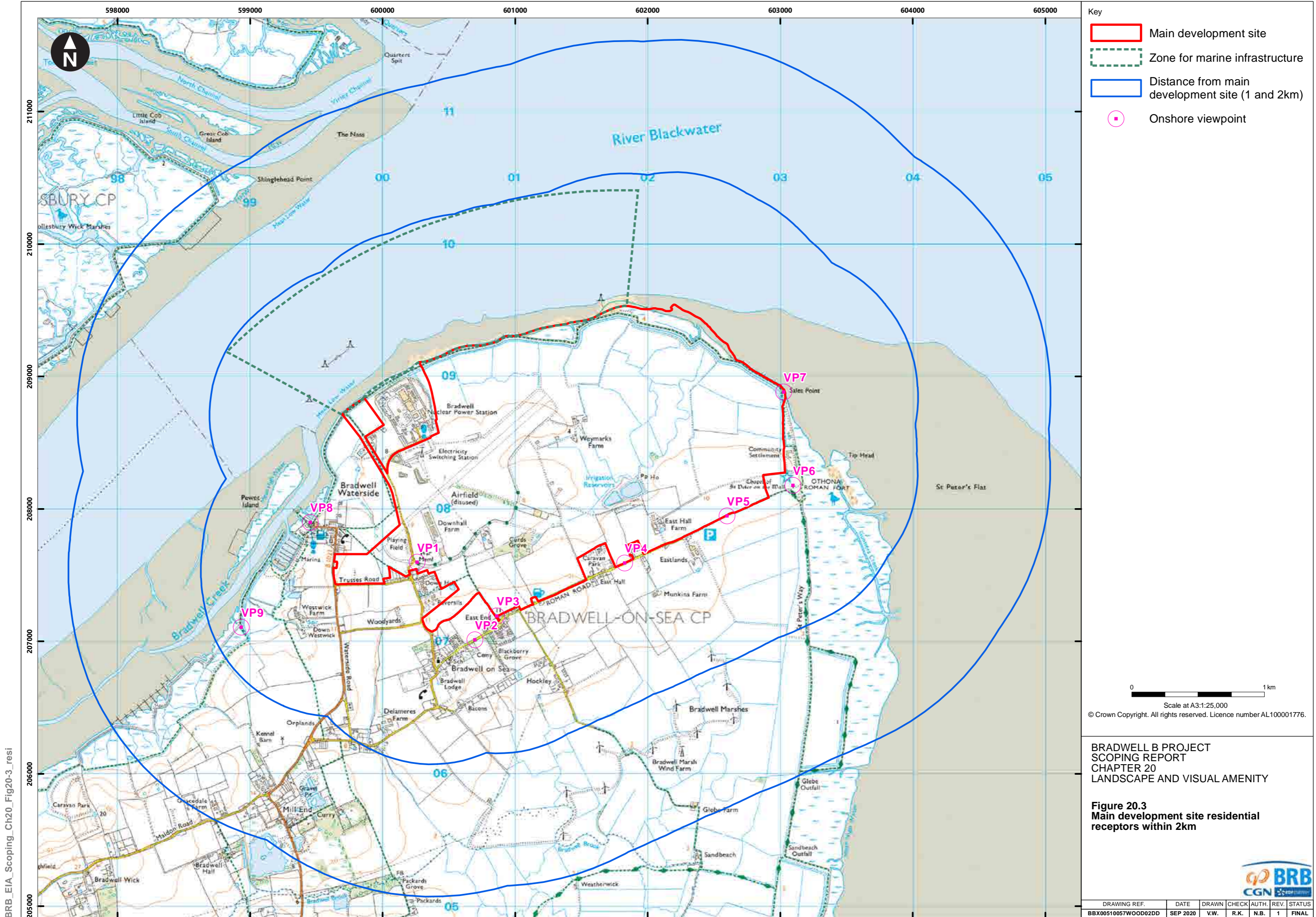
This figure has been based on the following parameters (in metres Above Ground Level (m AGL)) which represent certain elements of the Project with the ground level being raised to 7.5m AOD.

- Ancillary buildings A & B 15m
- Ancillary building D 20m
- Ancillary building E 20m
- Ancillary buildings F & G 16m
- Cooling system C 20m
- Cooling system Q 6m
- Hybrid cooling towers R & S 60m
- Interim spent fuel and waste storage M, N, O & P 15m
- Plant facilities L 20m
- Reactor buildings H & K 65m
- Turbine halls I & J 50m

Scale at A1:150,000
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 NextMap25

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 CHAPTER 20
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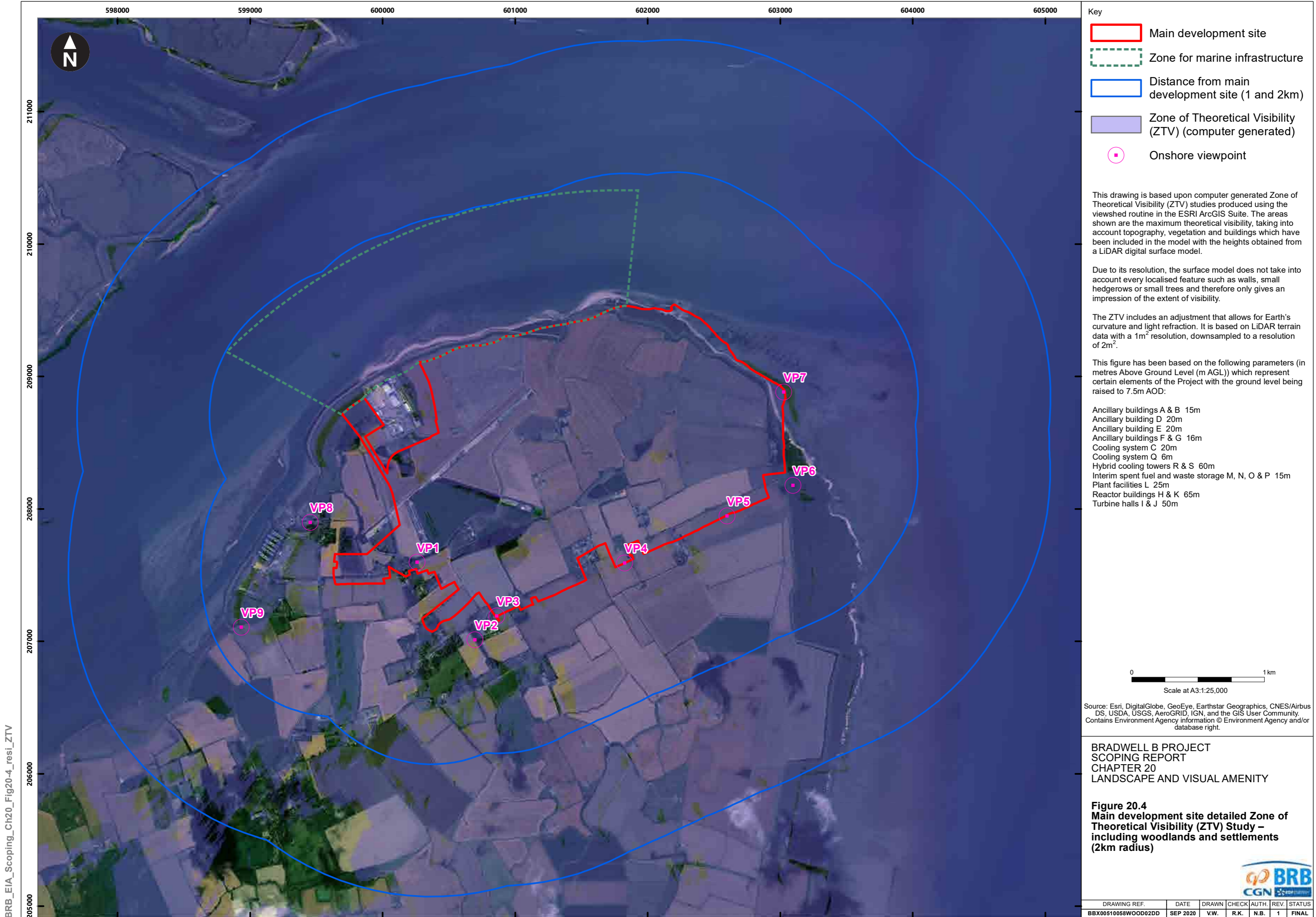
Figure 20.2
 Main development site Zone of
 Theoretical Visibility (ZTV) Study –
 including woodlands and settlements
 (10km radius)



BRB_EIA_Scoping_Ch20_Fig20-3_resi



NOT PROTECTIVELY MARKED



- Key
- Main development site
 - Zone for marine infrastructure
 - Distance from main development site (1 and 2km)
 - Zone of Theoretical Visibility (ZTV) (computer generated)
 - Onshore viewpoint

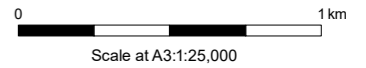
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the viewshed routine in the ESRI ArcGIS Suite. The areas shown are the maximum theoretical visibility, taking into account topography, vegetation and buildings which have been included in the model with the heights obtained from a LiDAR digital surface model.

Due to its resolution, the surface model does not take into account every localised feature such as walls, small hedgerows or small trees and therefore only gives an impression of the extent of visibility.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on LiDAR terrain data with a 1m² resolution, downsampled to a resolution of 2m².

This figure has been based on the following parameters (in metres Above Ground Level (m AGL)) which represent certain elements of the Project with the ground level being raised to 7.5m AOD:

- Ancillary buildings A & B 15m
- Ancillary building D 20m
- Ancillary building E 20m
- Ancillary buildings F & G 16m
- Cooling system C 20m
- Cooling system Q 6m
- Hybrid cooling towers R & S 60m
- Interim spent fuel and waste storage M, N, O & P 15m
- Plant facilities L 25m
- Reactor buildings H & K 65m
- Turbine halls I & J 50m



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community. Contains Environment Agency information © Environment Agency and/or database right.

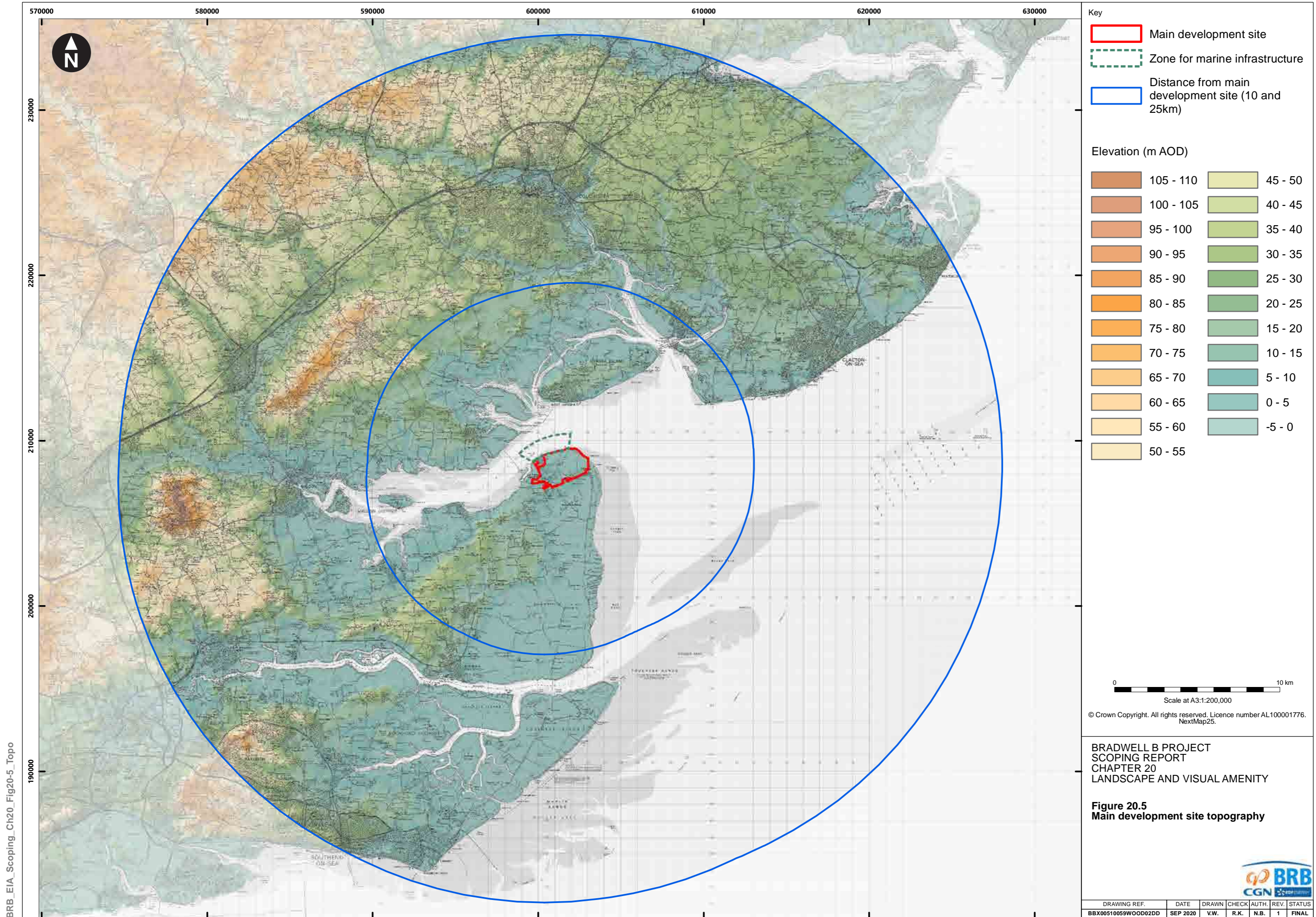
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SCOPING REPORT
CHAPTER 20
LANDSCAPE AND VISUAL AMENITY**

**Figure 20.4
Main development site detailed Zone of Theoretical Visibility (ZTV) Study – including woodlands and settlements (2km radius)**



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Key

- Main development site
- Zone for marine infrastructure
- Distance from main development site (10 and 25km)

Elevation (m AOD)

	105 - 110		45 - 50
	100 - 105		40 - 45
	95 - 100		35 - 40
	90 - 95		30 - 35
	85 - 90		25 - 30
	80 - 85		20 - 25
	75 - 80		15 - 20
	70 - 75		10 - 15
	65 - 70		5 - 10
	60 - 65		0 - 5
	55 - 60		-5 - 0
	50 - 55		

0 10 km
 Scale at A3:1:200,000
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 CHAPTER 20
 LANDSCAPE AND VISUAL AMENITY

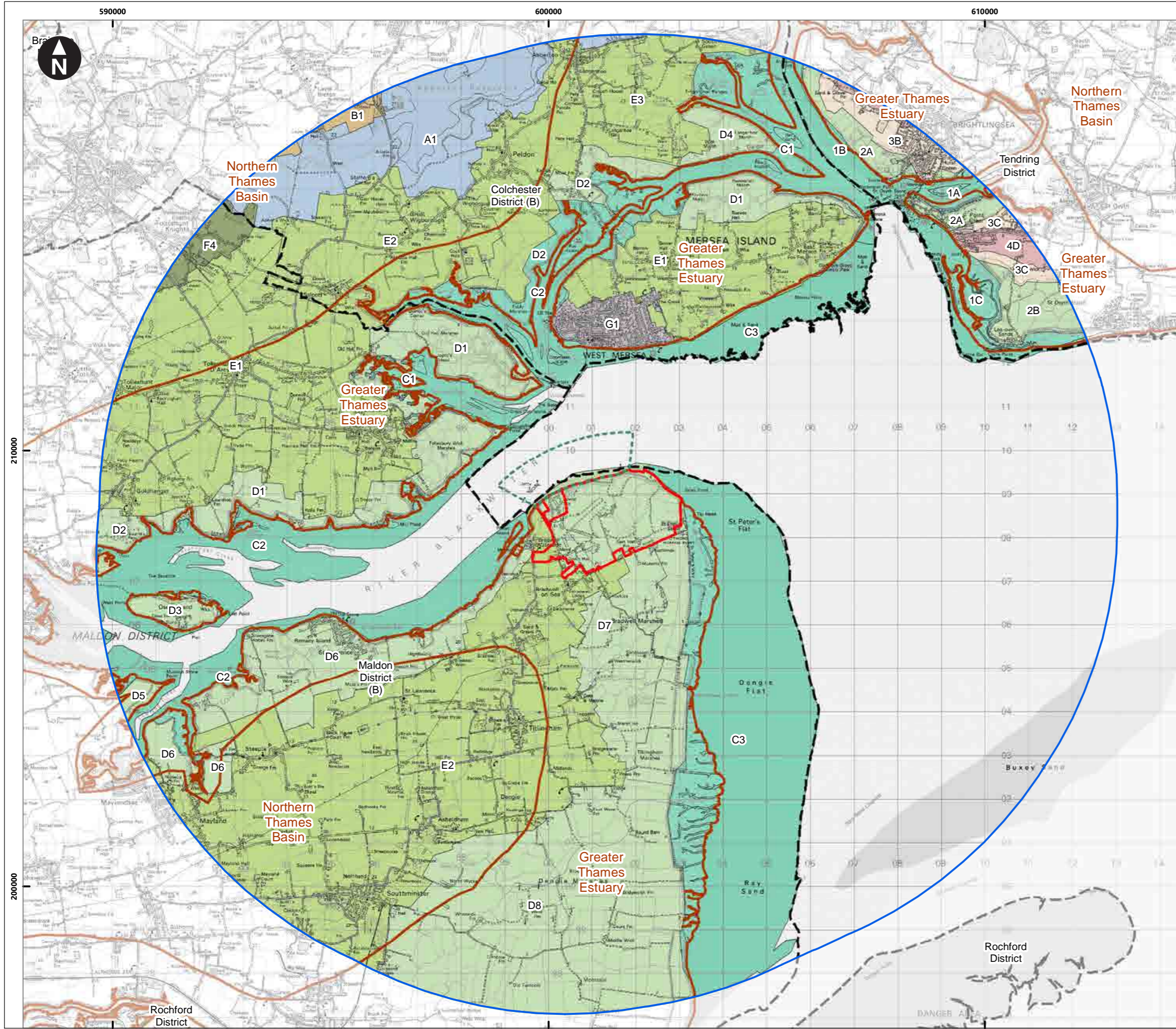
Figure 20.5
 Main development site topography



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BRB_EIA_Scoping_Ch20_Fig20.5_Topo



Key

- Main development site
- Zone for marine infrastructure
- Distance from main development site (10km)
- District boundary
- National Character Areas

Landscape Character Area (LCA)

- Coastal farmland
- Coastal ridges and peninsulas
- Coastal slopes
- Drained estuarine marsh
- Estuarine marsh / mudflats
- Farmland plateau
- Principle urban areas
- River valley
- Wooded farmland

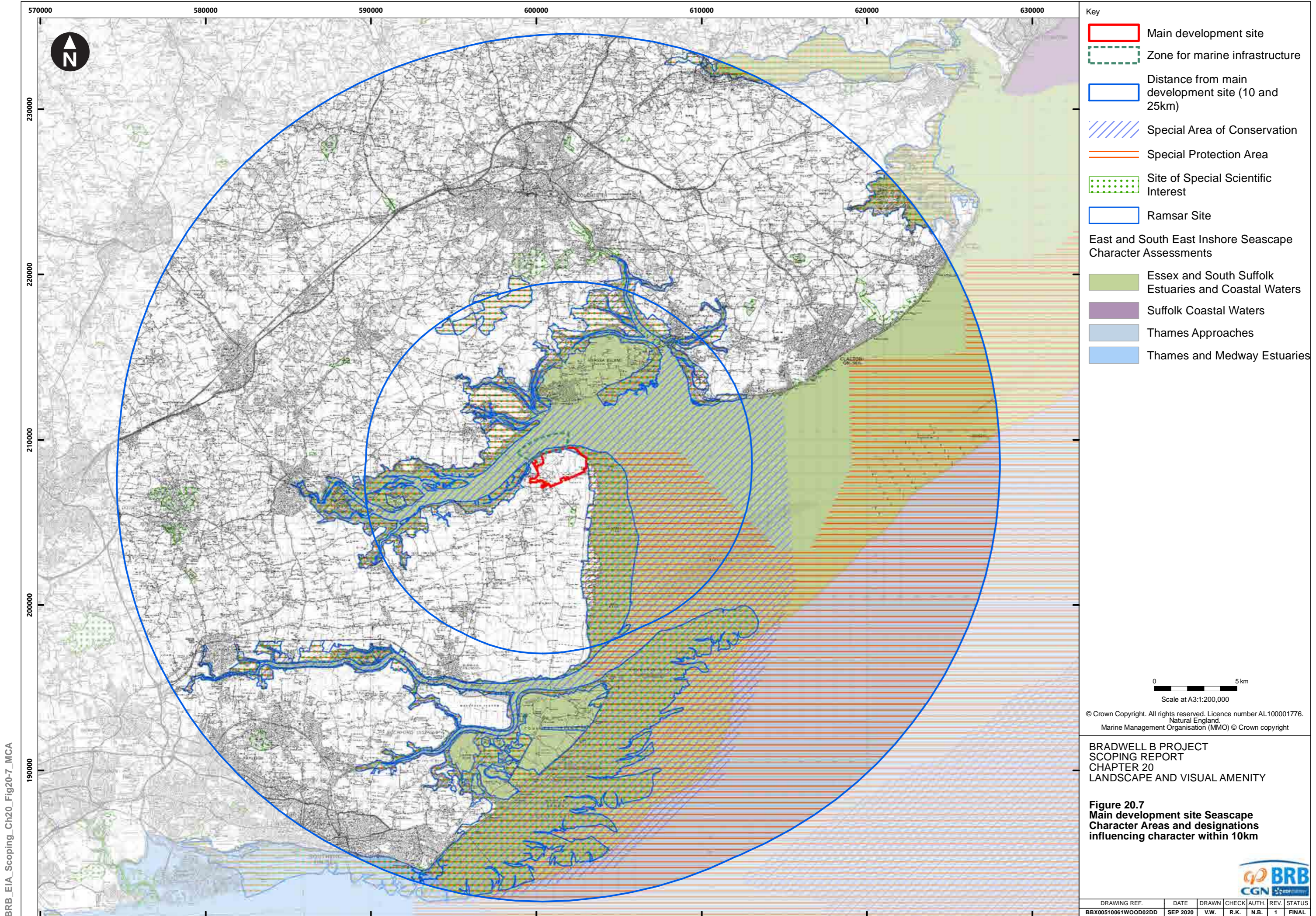
A1 Abberton Flooded River Valley
 A2 Wooded Roman River Valley
 B1 Layer Breton Farmland Plateau
 C1 Tollesbury Fleet Estuarine Marsh/Mudflats
 C1 Fingringhoe Estuarine Marsh/Mudflats
 C2 Blackwater Estuarine Marsh/Mudflats
 C2 Strood & Salcott Estuarine Marsh/Mudflats
 C3 West Mersea Estuarine Marsh/Mudflats
 C3 Dengie Flats Estuarine Marsh/Mudflats
 D1 Old Hall Marshes and Tollesbury Wick Drained
 D1 Mersea Island Drained Estuarine Marsh
 D2 Maldon Drained Estuarine Marsh
 D2 Feldy Drained Estuarine Marsh
 D3 Northey Island Drained Estuarine Marsh
 D4 Pyefleet Drained Estuarine Marsh
 D6 Ramsey Drained Estuarine Marsh
 D7 Bradwell Drained Estuarine Marsh
 D8 Dengie Drained Estuarine Marsh
 E1 Tolleshunt Coastal Farmland
 E1 Mersea Island Coastal Farmland
 E2 Great & Little Wigborough Coastal Farmland
 E2 Tillingham and Latchingdon Coastal Farmland
 E3 Langenhoe Coastal Farmland
 F2 Tiptree Wooded Farmland
 F4 Tolleshunt Knights Wooded Farmland
 G1 West Mersea Urban Landscape
 1A Brightlingsea Creek Marshes
 1B Colne Estuary Marshes
 1C Colne Point Marshes
 2A Brightlingsea Drained Marshes
 2B St Osyth Drained Marshes
 3B Brightlingsea Coastal Slopes
 3C St Osyth Coastal Slopes
 4C Brightlingsea Peninsula
 4D St Osyth Coastal Ridge

0 5 km
 Scale at A3:1:85,000
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 NCA; Natural England.
 LCA: Maldon, Colchester, Tendring

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**Figure 20.6
 Main development site National and Local
 Landscape Character Areas within 10km**

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- Key
- Main development site
 - Zone for marine infrastructure
 - Distance from main development site (10 and 25km)
 - Special Area of Conservation
 - Special Protection Area
 - Site of Special Scientific Interest
 - Ramsar Site
- East and South East Inshore Seascap Character Assessments
- Essex and South Suffolk Estuaries and Coastal Waters
 - Suffolk Coastal Waters
 - Thames Approaches
 - Thames and Medway Estuaries

0 5 km
Scale at A3:1:200,000
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Marine Management Organisation (MMO) © Crown copyright

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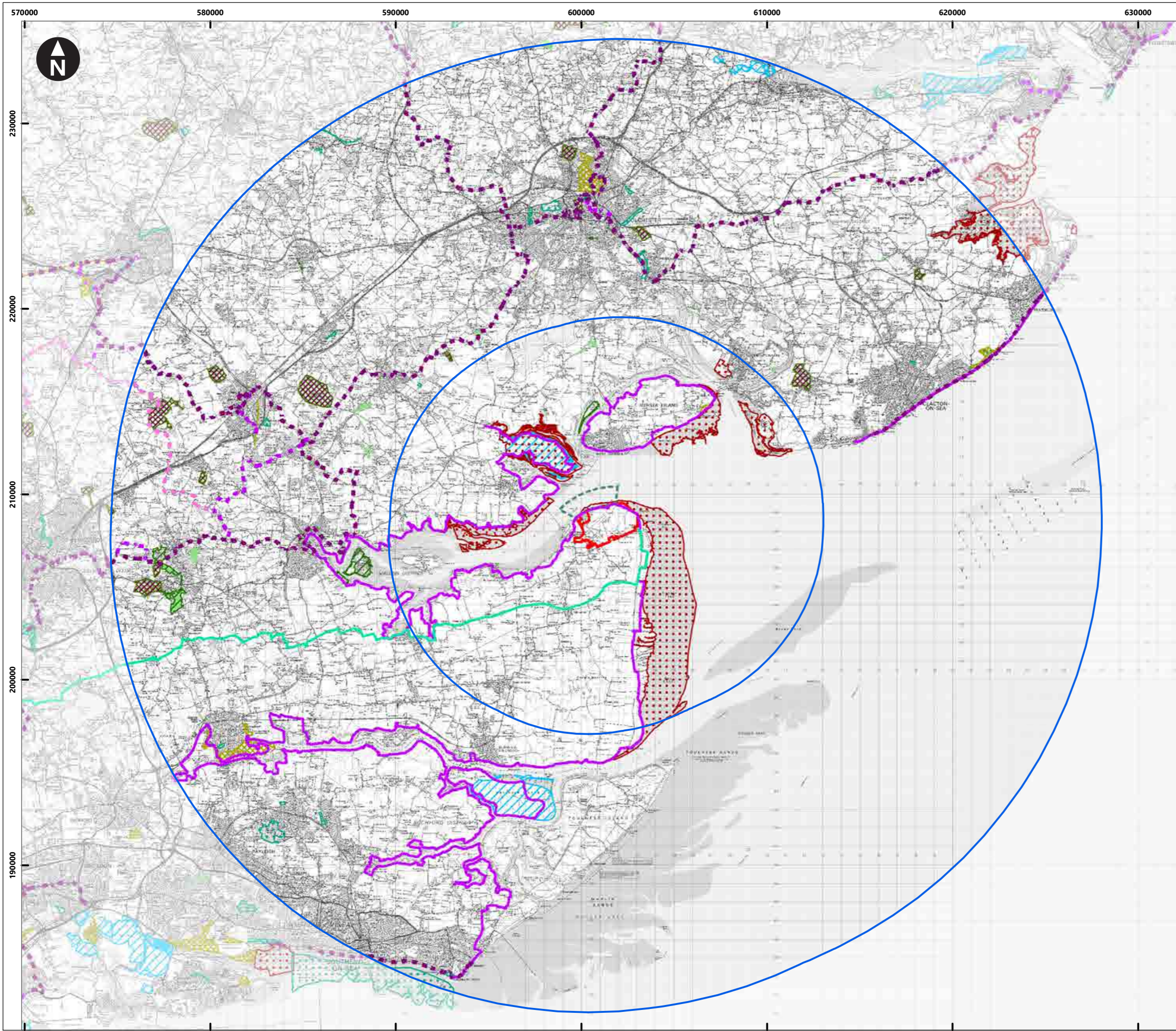
Figure 20.7
Main development site Seascap Character Areas and designations influencing character within 10km



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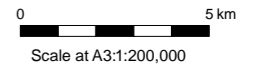
NOT PROTECTIVELY MARKED

BRB_EIA_Scoping_Ch20_Fig20-7_MCA



- Key
- Main development site
 - Zone for marine infrastructure
 - Distance from main development site (10 and 25km)
 - National Nature Reserve
 - Local Nature Reserve
 - Registered Park Garden
 - Registered Common Land
 - National Trust Land
 - RSPB Reserve
 - Country Parks
 - National Cycle Route
 - National Cycle Link
 - Regional Cycle Route
 - Proposed England Coast Path
 - St. Peters Way

NB. The draft route of the England Coast Path between Salcott and Jaywick is still in development



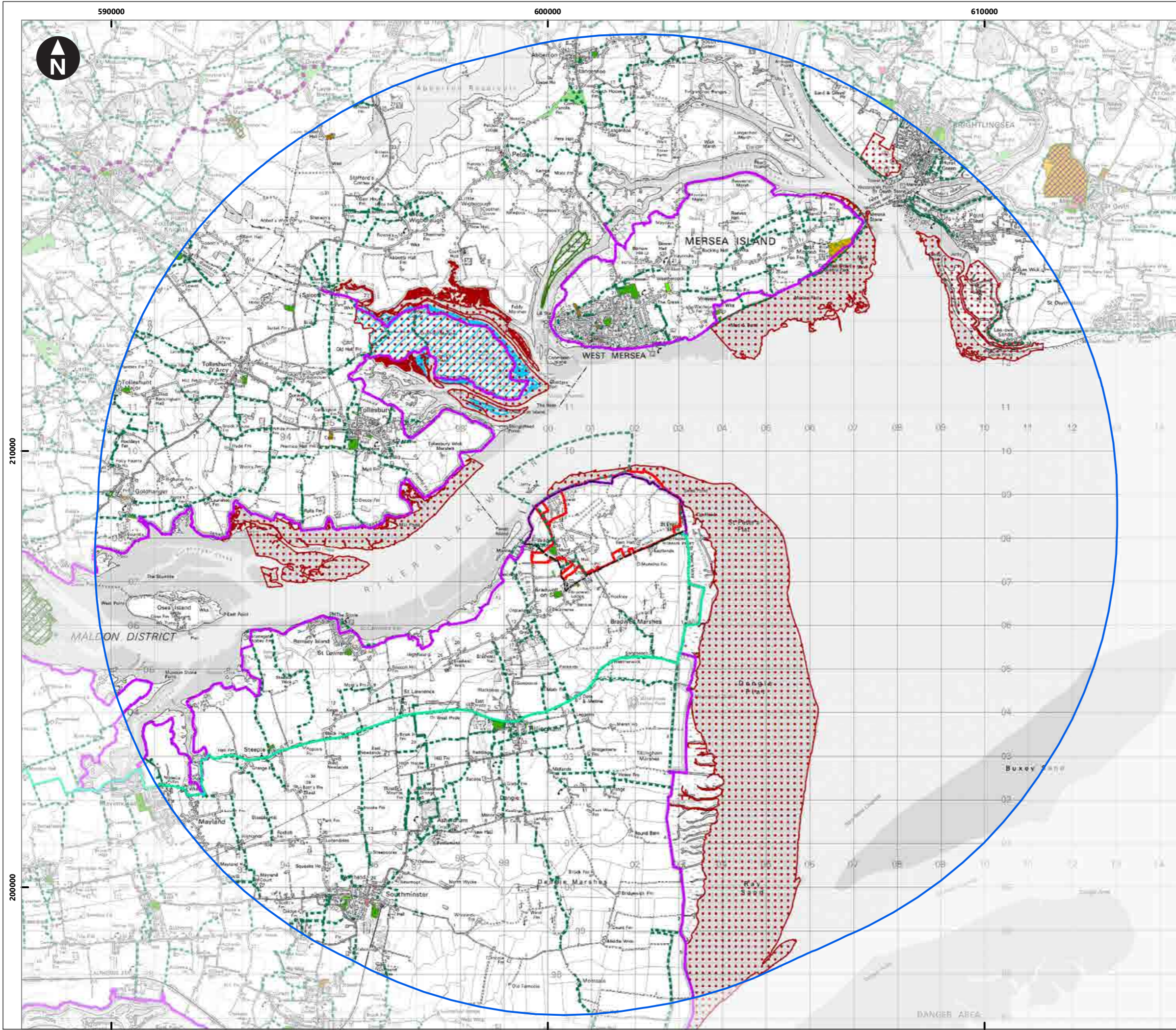
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CHAPTER 20
LANDSCAPE AND VISUAL AMENITY

Figure 20.8
Main development site visual receptors
within 25km

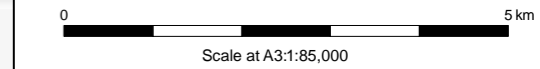


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- Key
- Main development site
 - Zone for marine infrastructure
 - Distance from main development site (10km)
 - National Nature Reserve
 - Local Nature Reserve
 - Registered Park Garden
 - Registered Common Land
 - National Trust Land
 - RSPB Reserve
 - Country Parks
 - National Cycle Route
 - Proposed England Coast Path
 - St. Peters Way
 - Bradwell Cockle Spit Wildside Walk
 - Footpath
 - Bridleway
 - Byway
 - Restricted Byway
- Publicly accessible open spaces
- Allotments Or Community Growing Spaces
 - Cemetery
 - Playing Field
 - Public Park Or Garden
 - Religious Grounds

NB. The draft route of the England Coast Path between Salcott and Jaywick is still in development

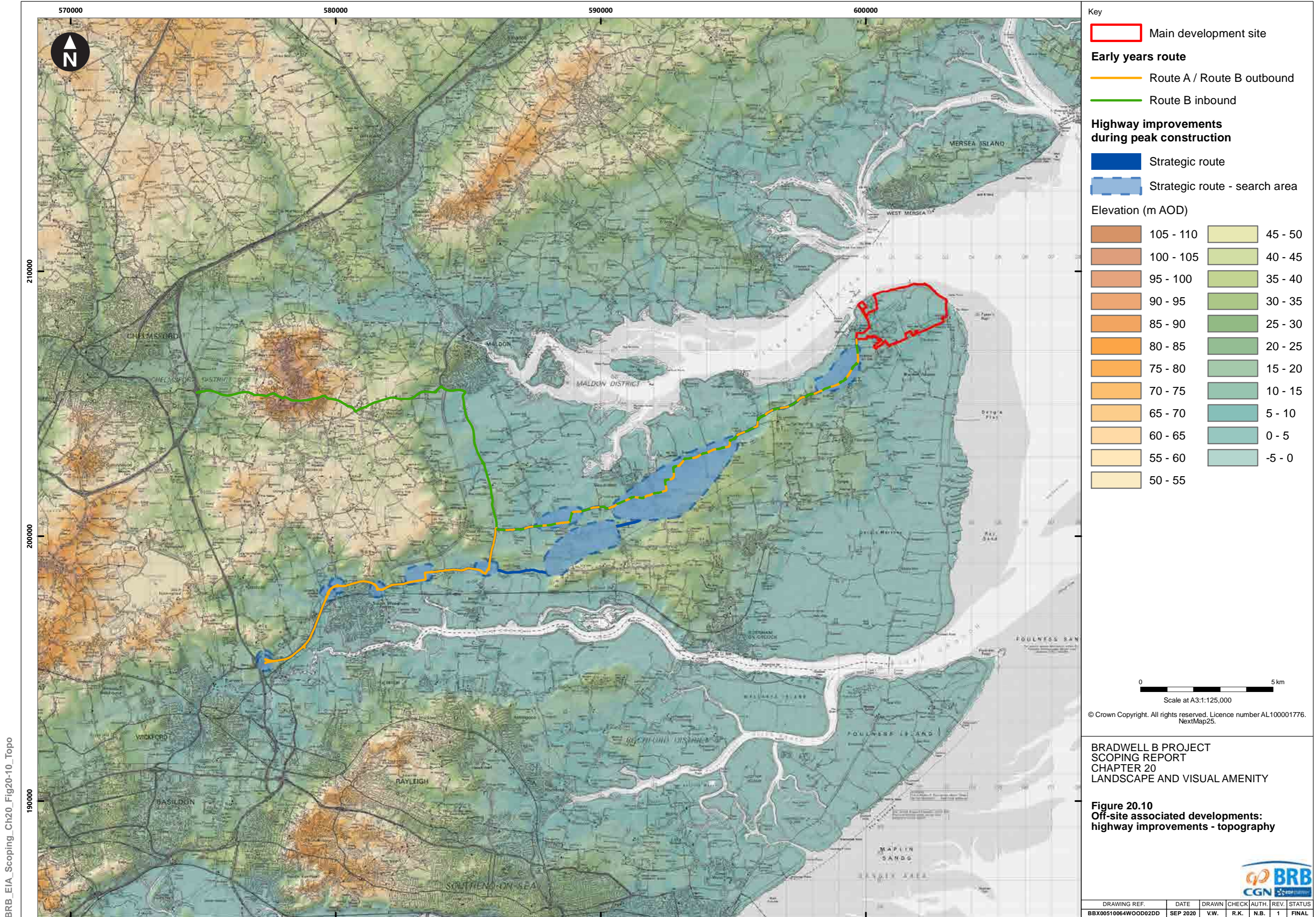


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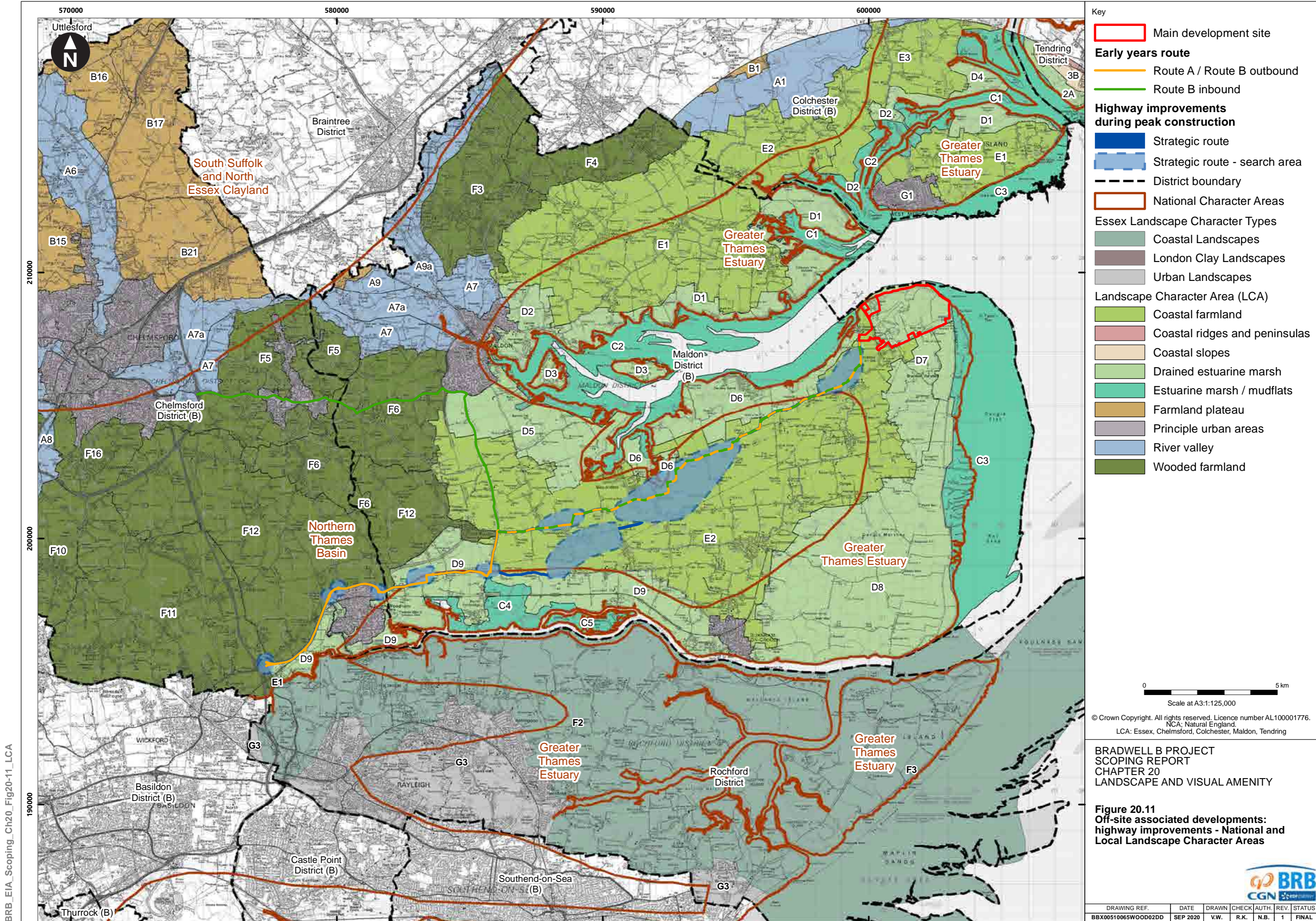
Figure 20.9
Main development site visual receptors
within 10km

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BRB_EIA_Scoping_Ch20_Fig20-10_Topo

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- Key**
- Main development site
 - Early years route**
 - Route A / Route B outbound
 - Route B inbound
 - Highway improvements during peak construction**
 - Strategic route
 - Strategic route - search area
 - District boundary
 - National Character Areas
 - Essex Landscape Character Types**
 - Coastal Landscapes
 - London Clay Landscapes
 - Urban Landscapes
 - Landscape Character Area (LCA)**
 - Coastal farmland
 - Coastal ridges and peninsulas
 - Coastal slopes
 - Drained estuarine marsh
 - Estuarine marsh / mudflats
 - Farmland plateau
 - Principle urban areas
 - River valley
 - Wooded farmland

0 5 km
Scale at A3:1:125,000
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NCA: Natural England.
LCA: Essex, Chelmsford, Colchester, Maldon, Tendring

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CHAPTER 20
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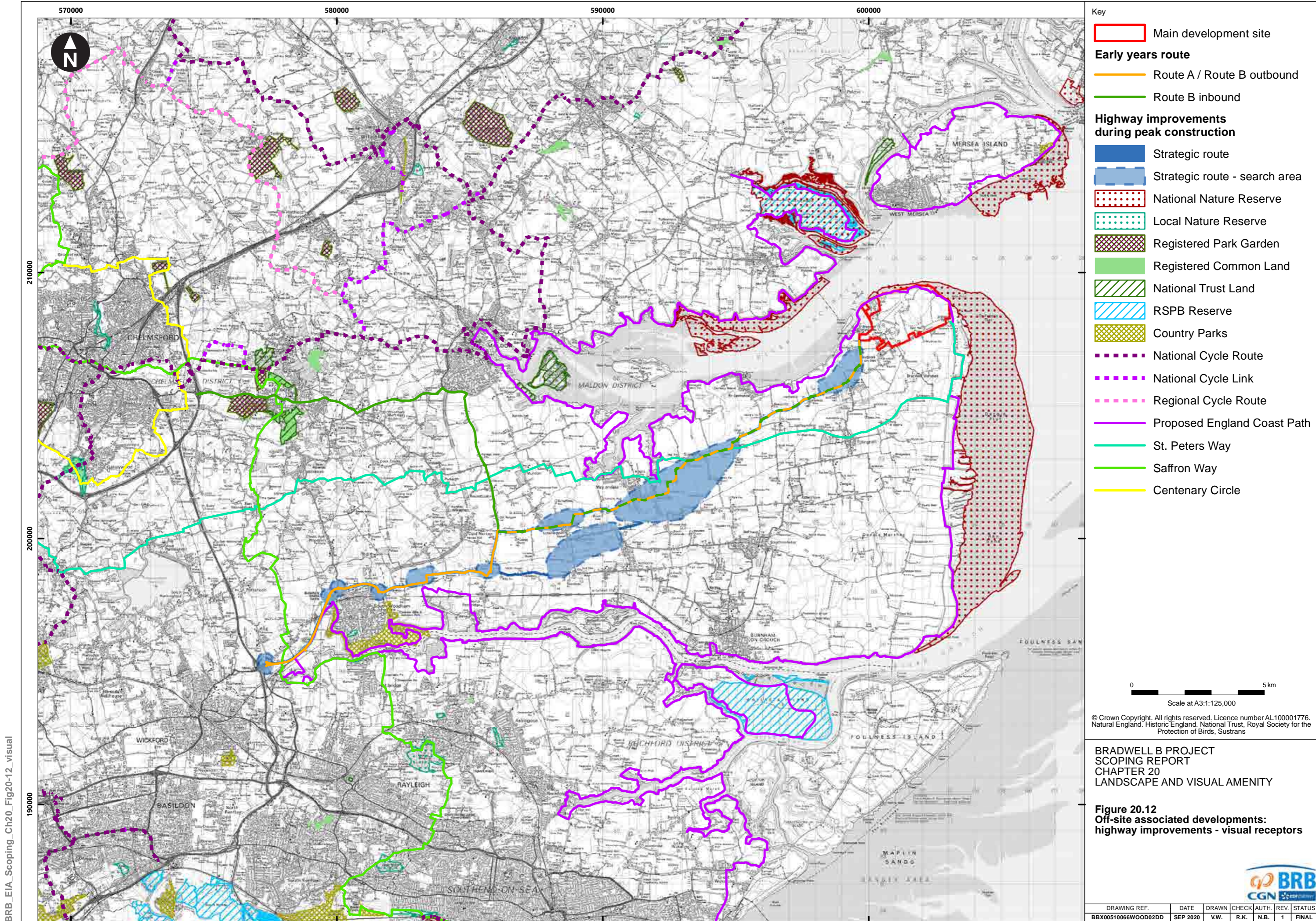
Figure 20.11
Off-site associated developments:
highway improvements - National and
Local Landscape Character Areas



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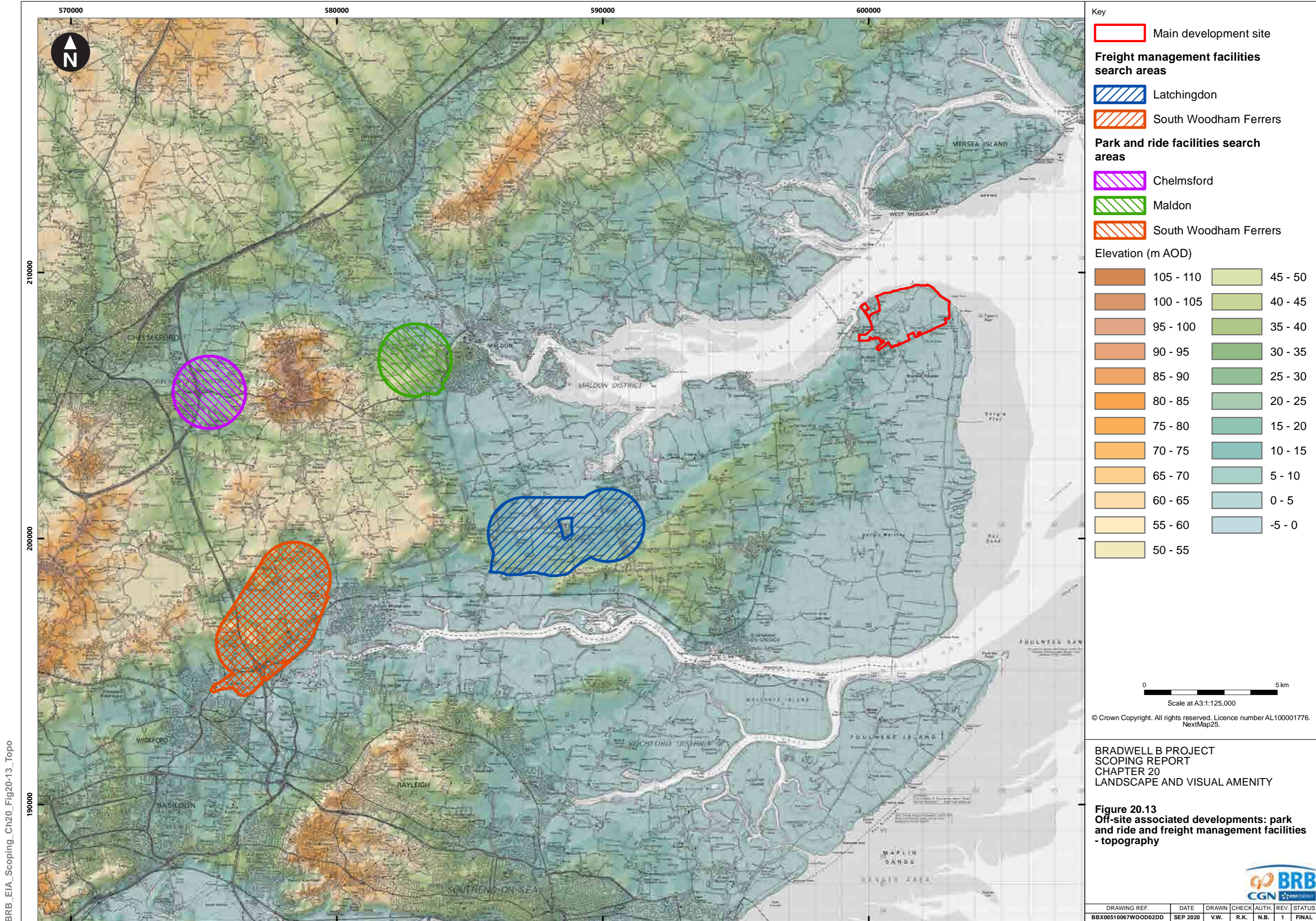
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BRB_EIA_Scoping_Ch20_Fig20-11_LCA



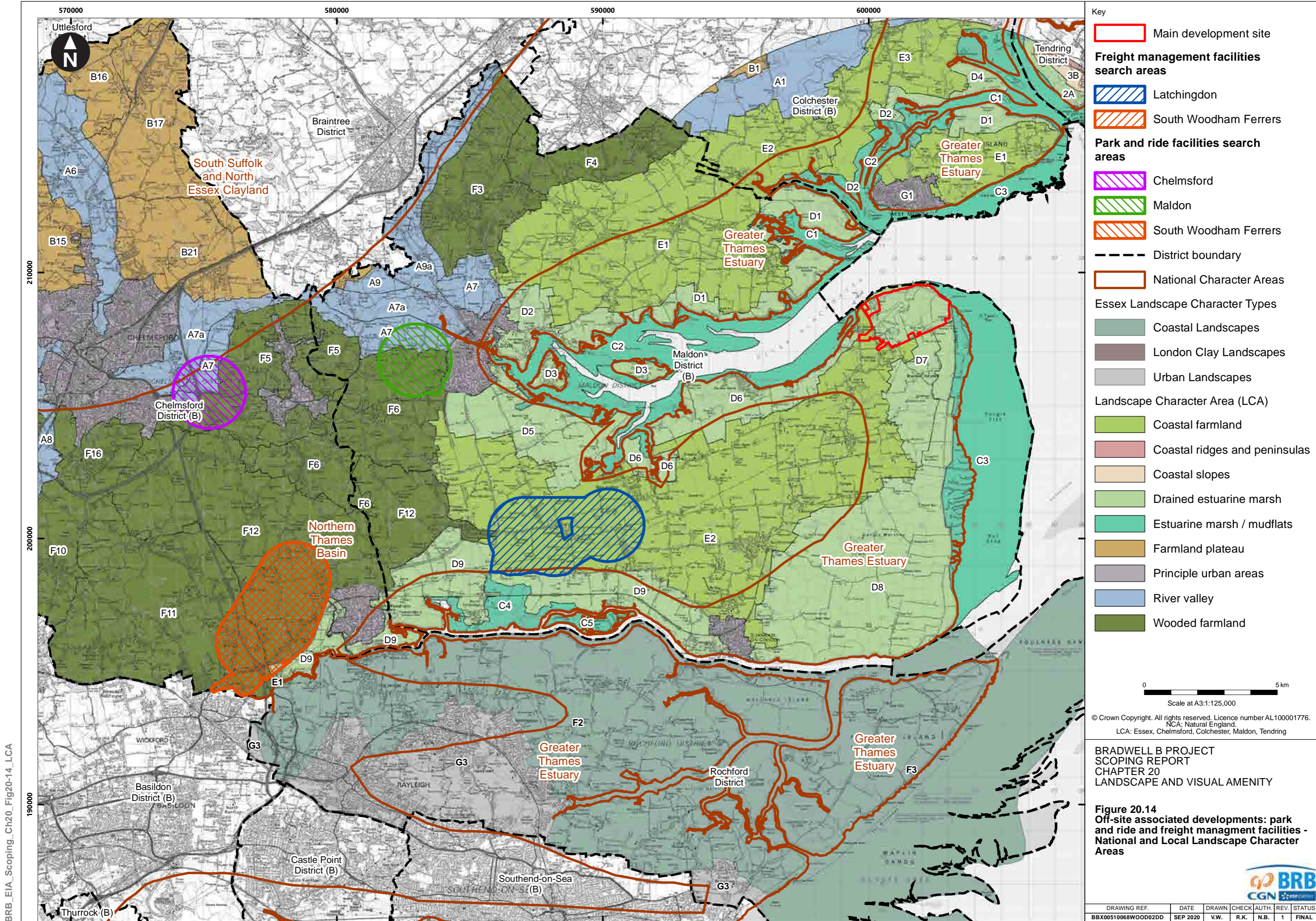
BRB_EIA_Scoping_Ch20_Fig20-12_visual

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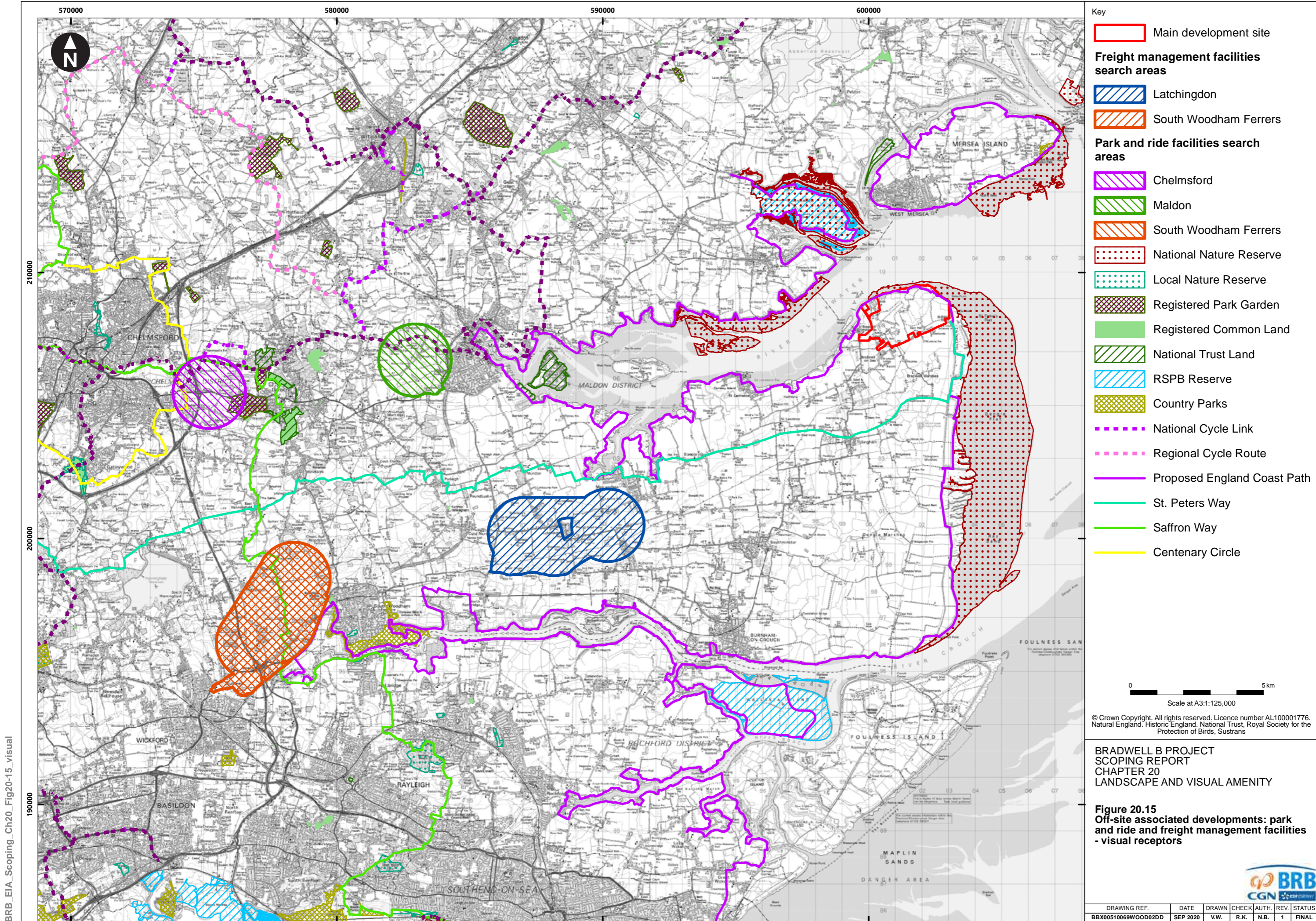
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BRB_EIA_Scoping_Ch20_Fig20-14_LCA

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- Key**
- Main development site
- Freight management facilities search areas**
- Latchingdon
 - South Woodham Ferrers
- Park and ride facilities search areas**
- Chelmsford
 - Maldon
 - South Woodham Ferrers
 - National Nature Reserve
 - Local Nature Reserve
 - Registered Park Garden
 - Registered Common Land
 - National Trust Land
 - RSPB Reserve
 - Country Parks
 - National Cycle Link
 - Regional Cycle Route
 - Proposed England Coast Path
 - St. Peters Way
 - Saffron Way
 - Centenary Circle

0 5km
Scale at A3:1:125,000

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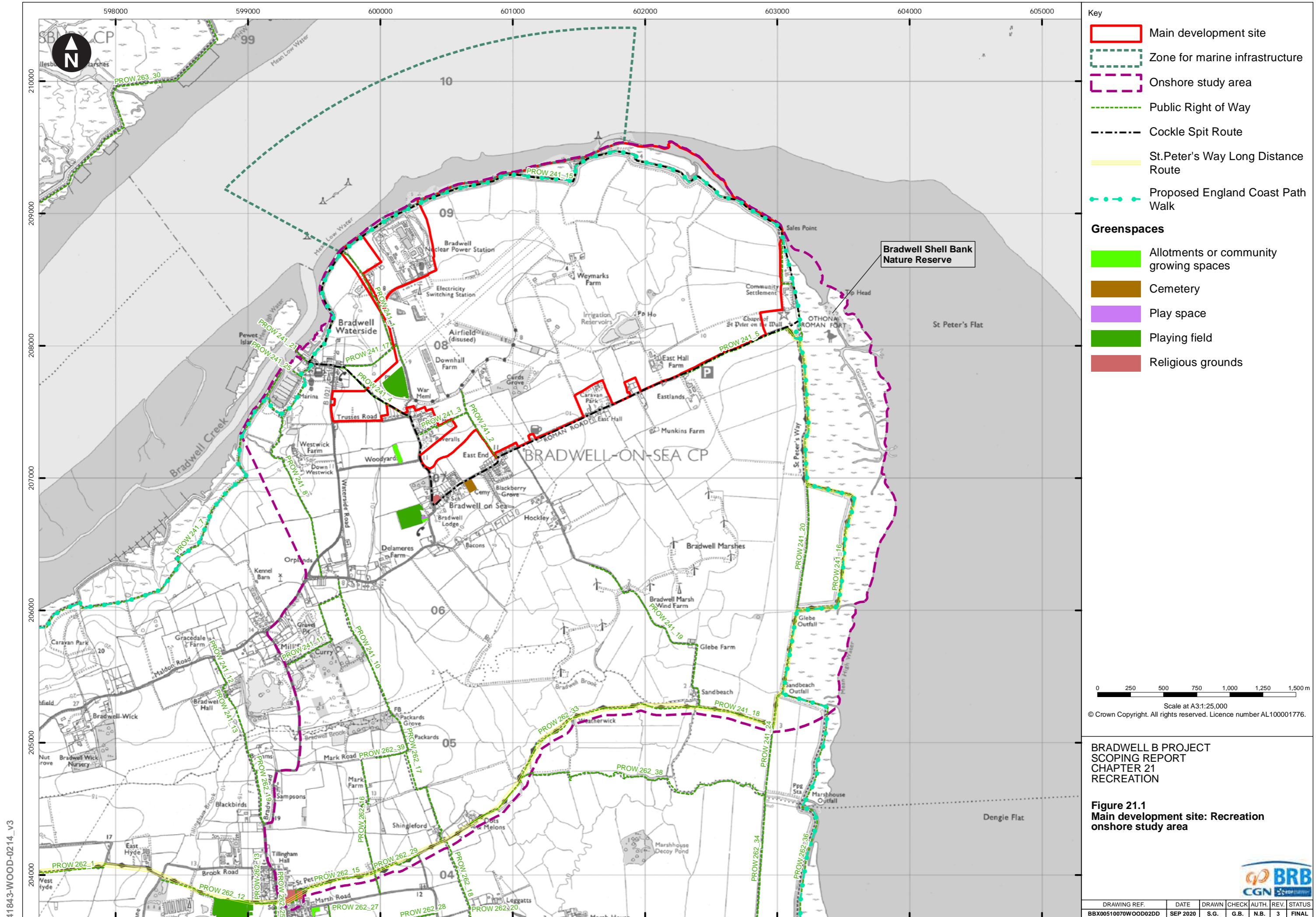
Figure 20.15
Off-site associated developments: park and ride and freight management facilities - visual receptors



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- Key**
- Main development site
 - Zone for marine infrastructure
 - Onshore study area
 - Public Right of Way
 - Cockle Spit Route
 - St. Peter's Way Long Distance Route
 - Proposed England Coast Path Walk
- Greenspaces**
- Allotments or community growing spaces
 - Cemetery
 - Play space
 - Playing field
 - Religious grounds

0 250 500 750 1,000 1,250 1,500 m
 Scale at A3:1:25,000
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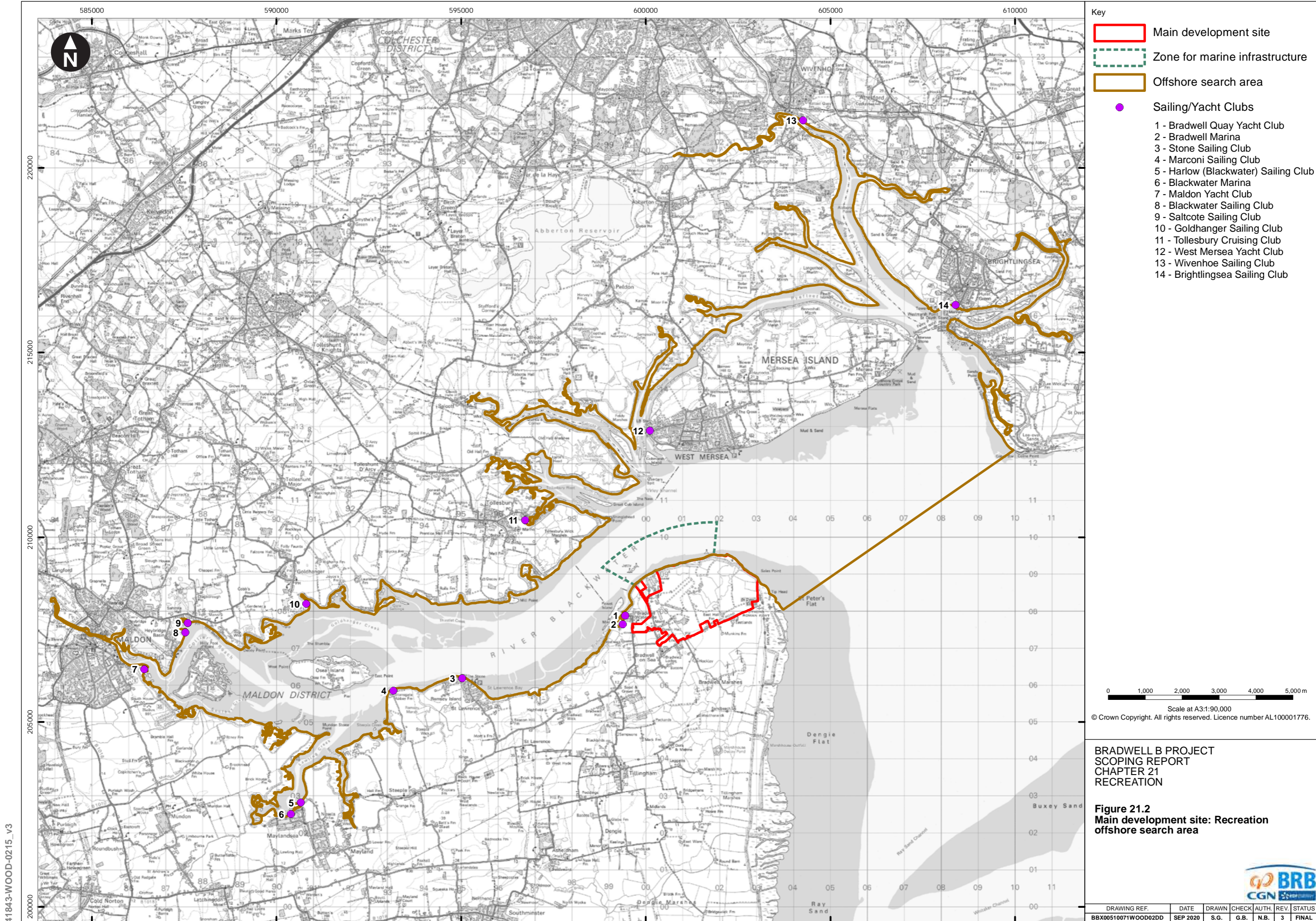
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 CHAPTER 21
 RECREATION**

**Figure 21.1
 Main development site: Recreation
 onshore study area**

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		BBX00510070WOOD02DD	SEP 2020	S.G.	G.B.	N.B.	3	FINAL

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41843-WOOD-0214_v3



- Key**
- Main development site
 - Zone for marine infrastructure
 - Offshore search area
 - Sailing/Yacht Clubs
- 1 - Bradwell Quay Yacht Club
 - 2 - Bradwell Marina
 - 3 - Stone Sailing Club
 - 4 - Marconi Sailing Club
 - 5 - Harlow (Blackwater) Sailing Club
 - 6 - Blackwater Marina
 - 7 - Maldon Yacht Club
 - 8 - Blackwater Sailing Club
 - 9 - Saltcote Sailing Club
 - 10 - Goldhanger Sailing Club
 - 11 - Tollesbury Cruising Club
 - 12 - West Mersea Yacht Club
 - 13 - Wivenhoe Sailing Club
 - 14 - Brightlingsea Sailing Club

0 1,000 2,000 3,000 4,000 5,000 m
 Scale at A3:1:90,000
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 CHAPTER 21
 RECREATION**

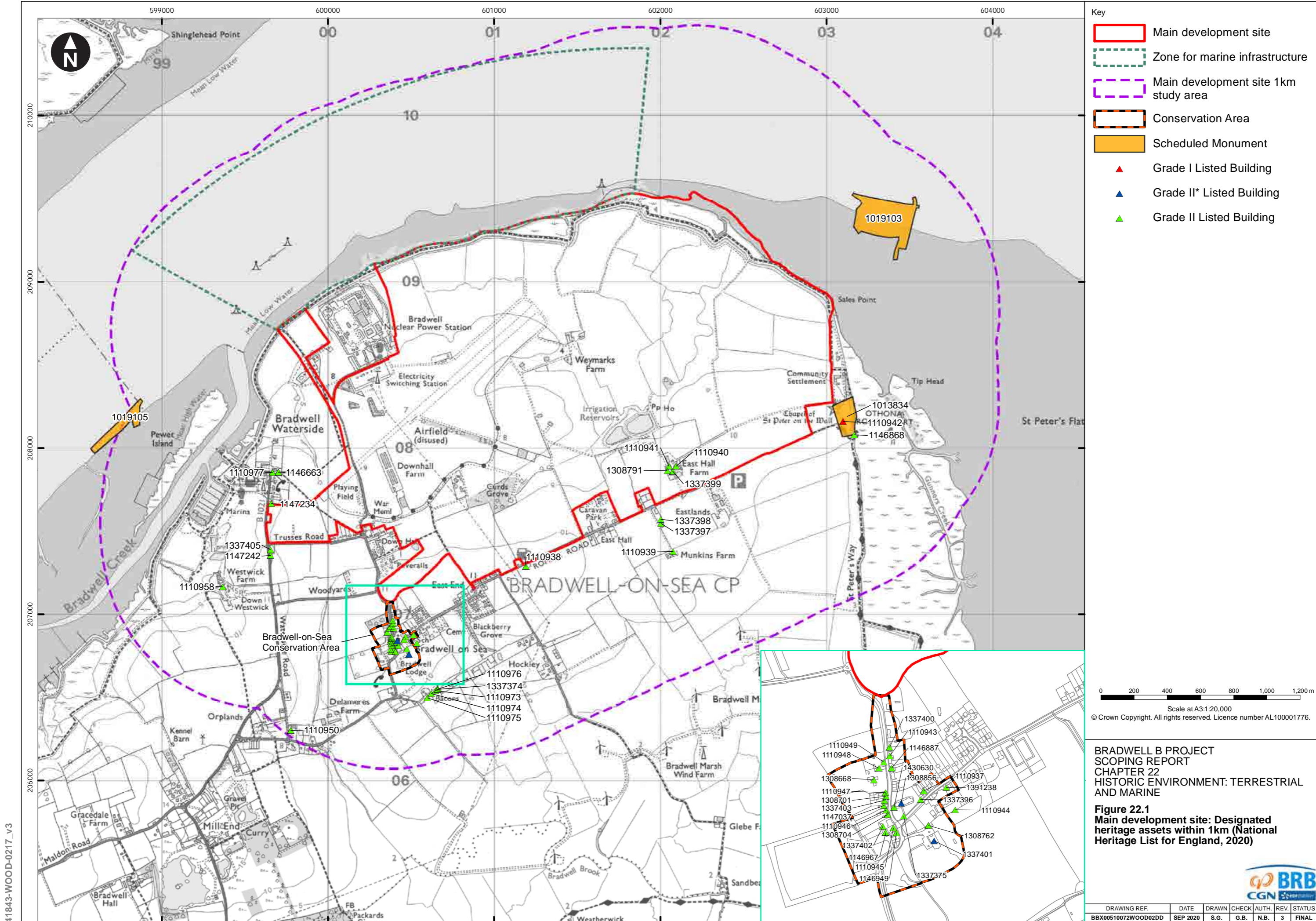
**Figure 21.2
 Main development site: Recreation
 offshore search area**



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41843-WOOD-0215_v3



- Key**
- Main development site
 - Zone for marine infrastructure
 - Main development site 1km study area
 - Conservation Area
 - Scheduled Monument
 - ▲ Grade I Listed Building
 - ▲ Grade II* Listed Building
 - ▲ Grade II Listed Building

0 200 400 600 800 1,000 1,200 m
 Scale at A3:1:20,000
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 CHAPTER 22
 HISTORIC ENVIRONMENT: TERRESTRIAL
 AND MARINE**

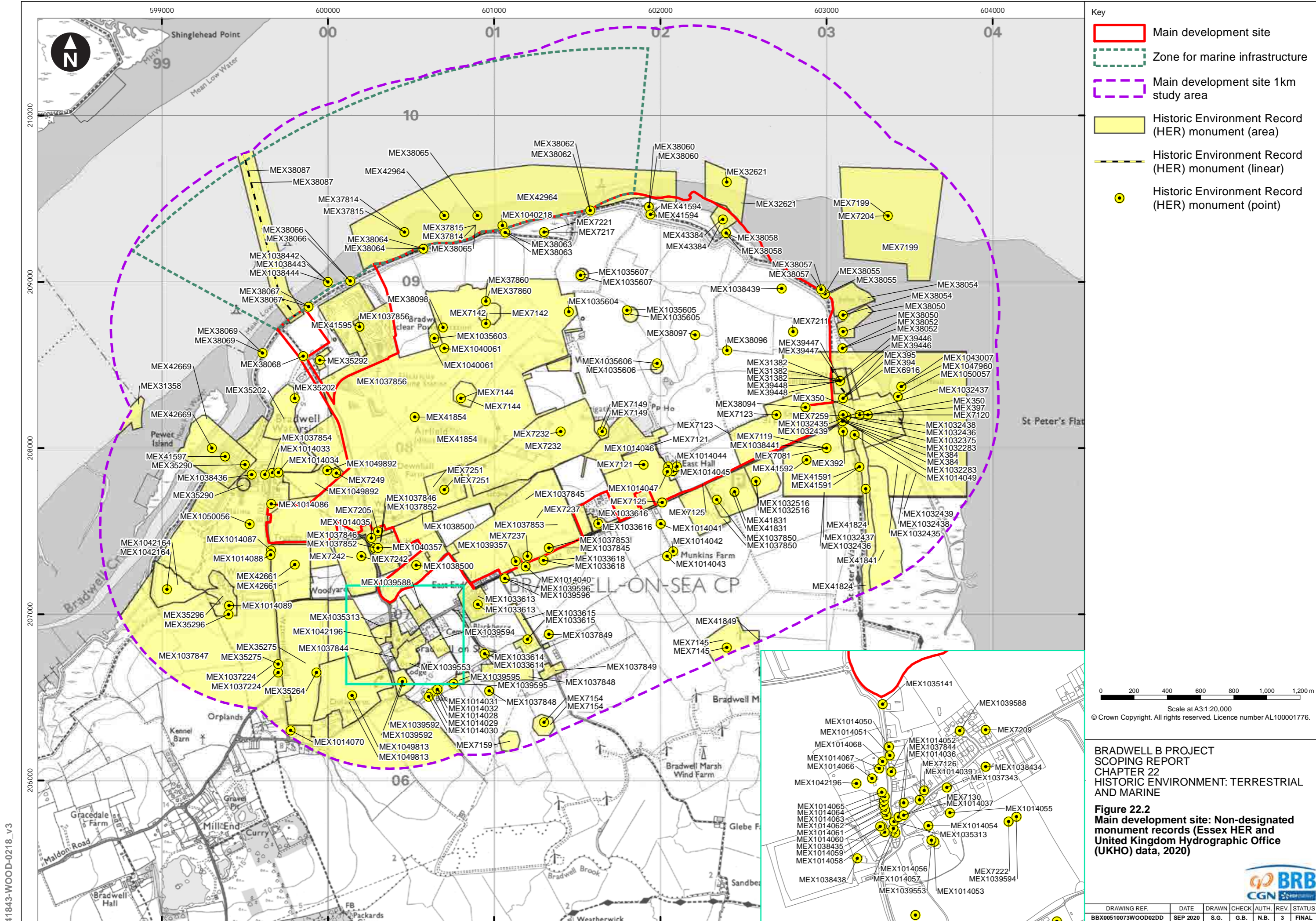
**Figure 22.1
 Main development site: Designated
 heritage assets within 1km (National
 Heritage List for England, 2020)**

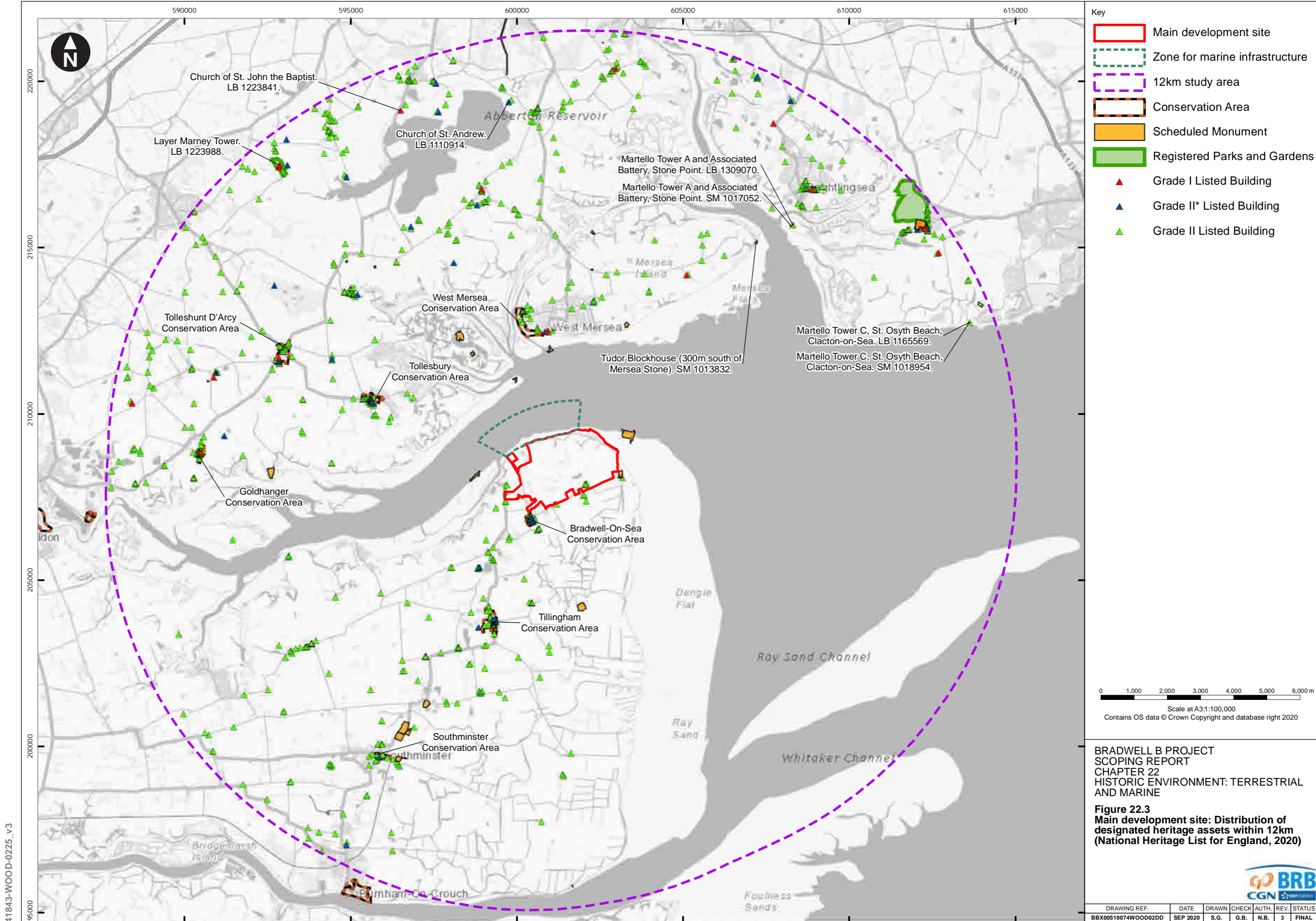


DRAWING REF.	DATE	DRAWN	CHECK	AUTH.	REV.	STATUS
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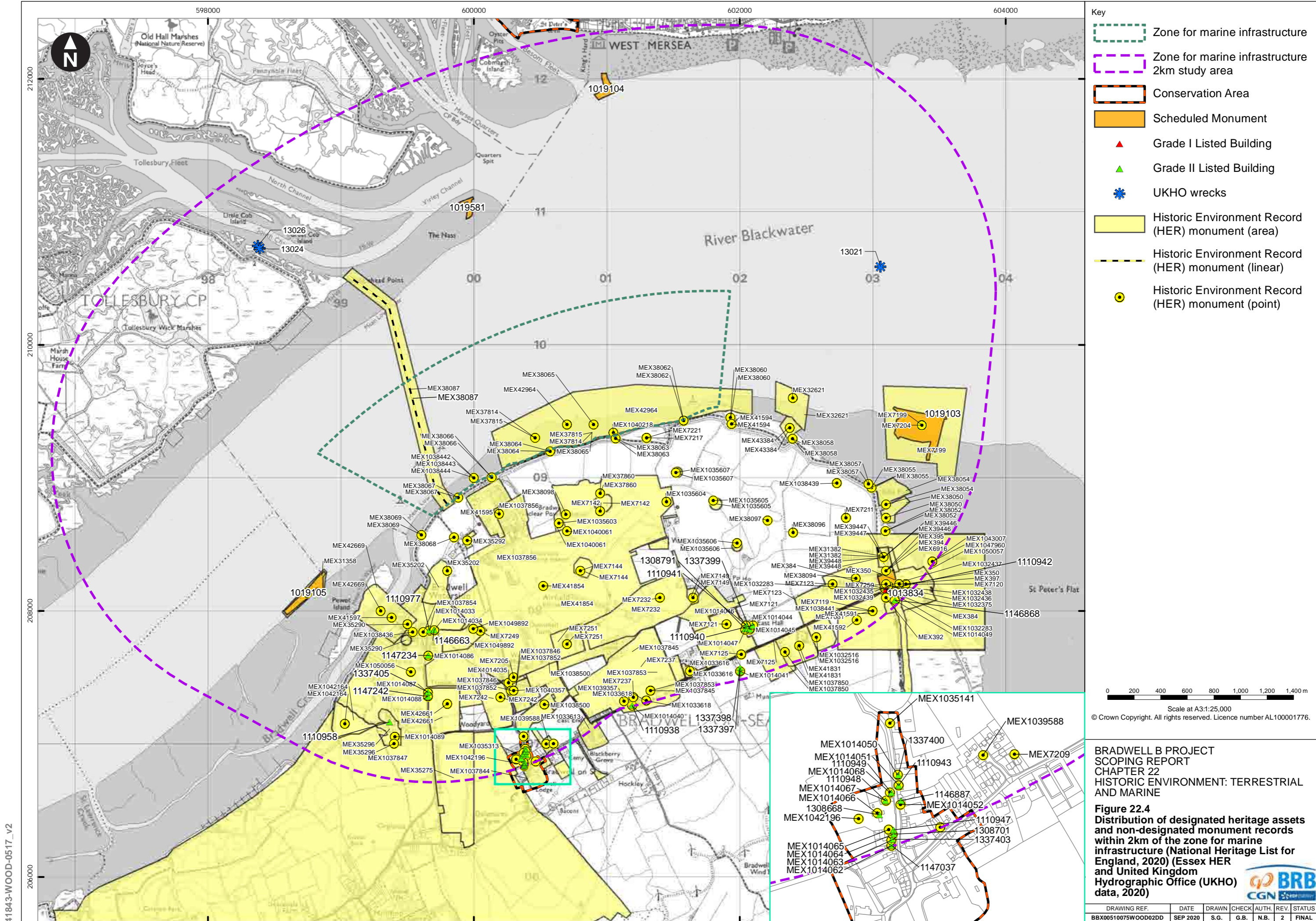
41843-WOOD-0217_V3





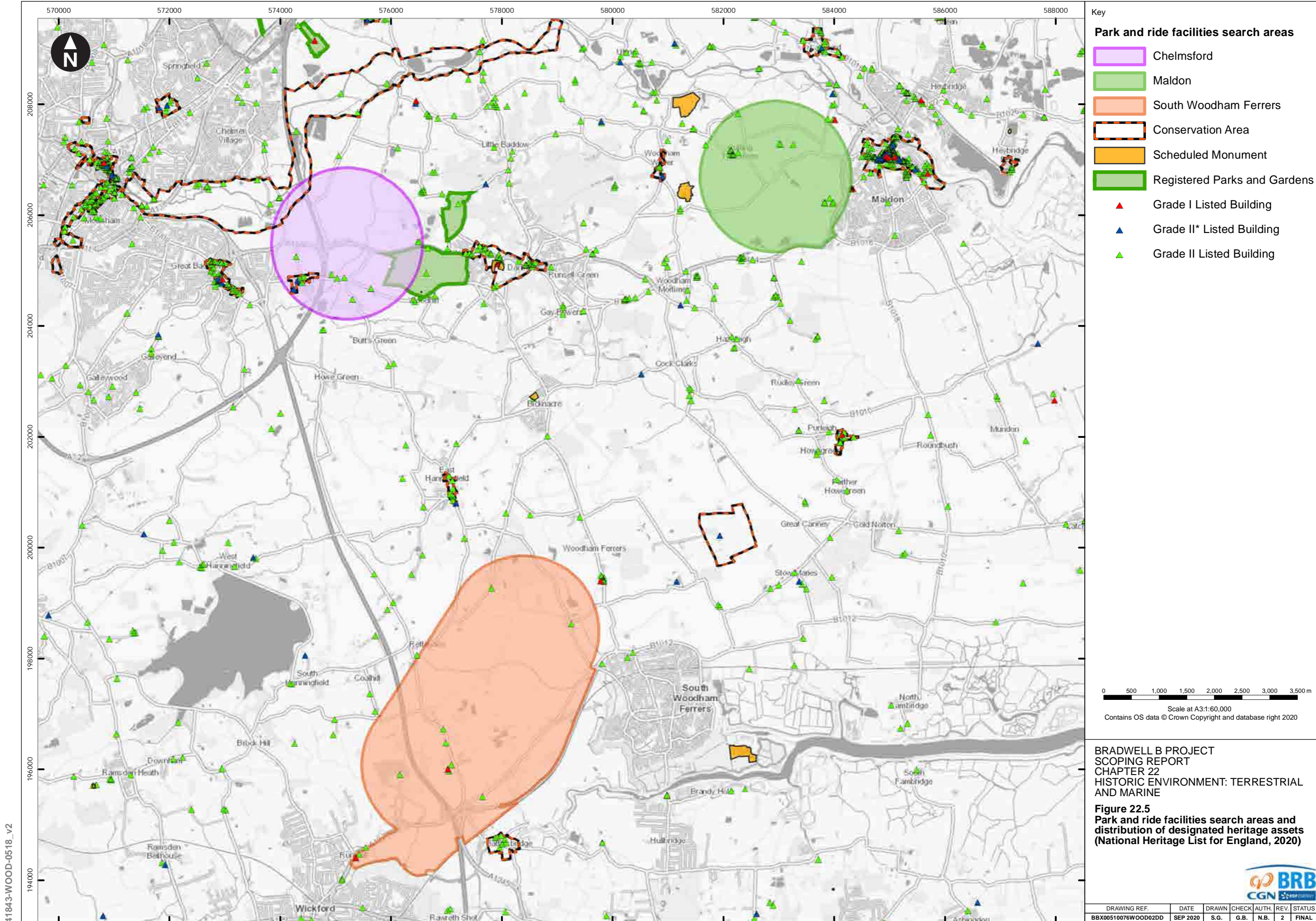
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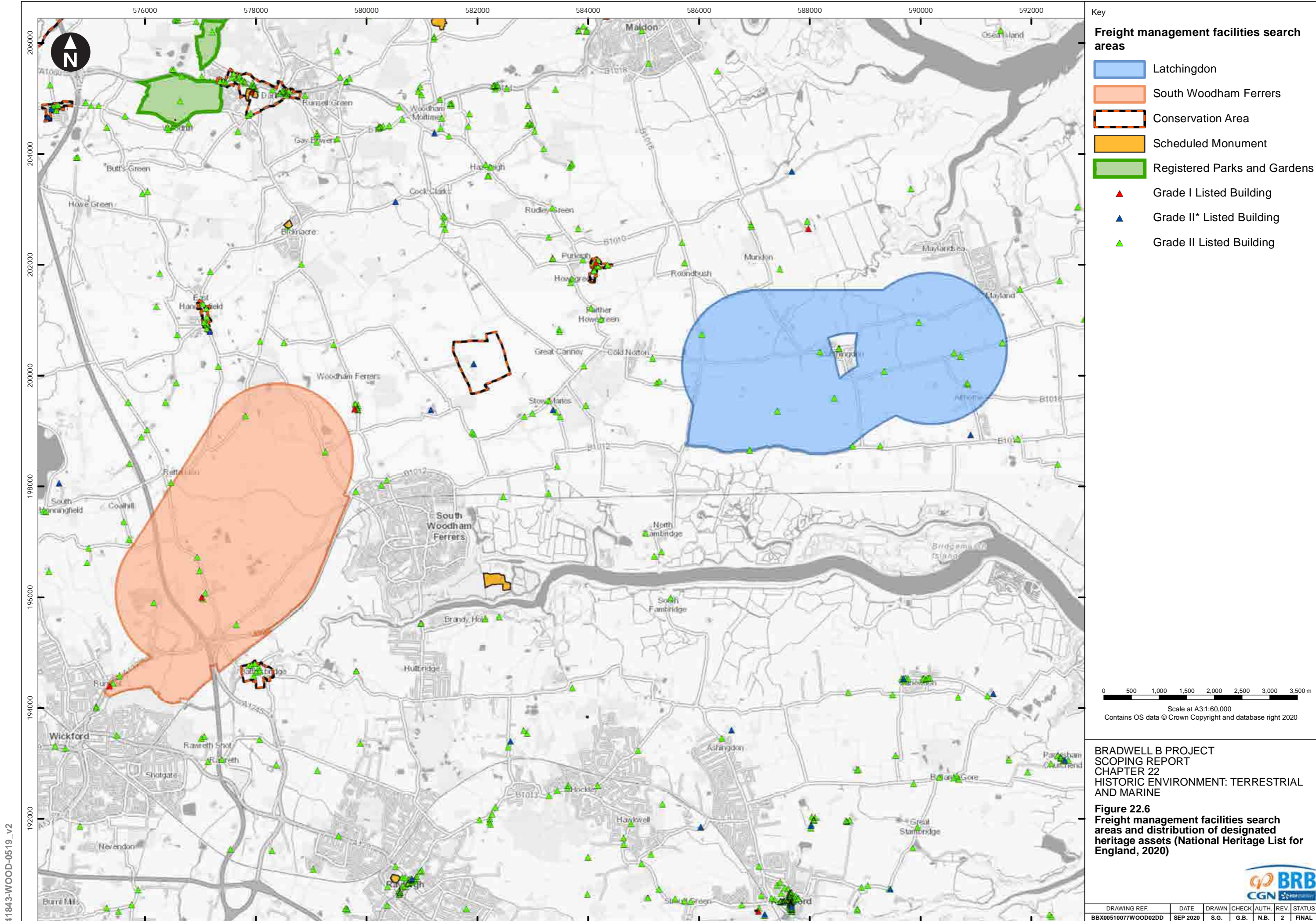
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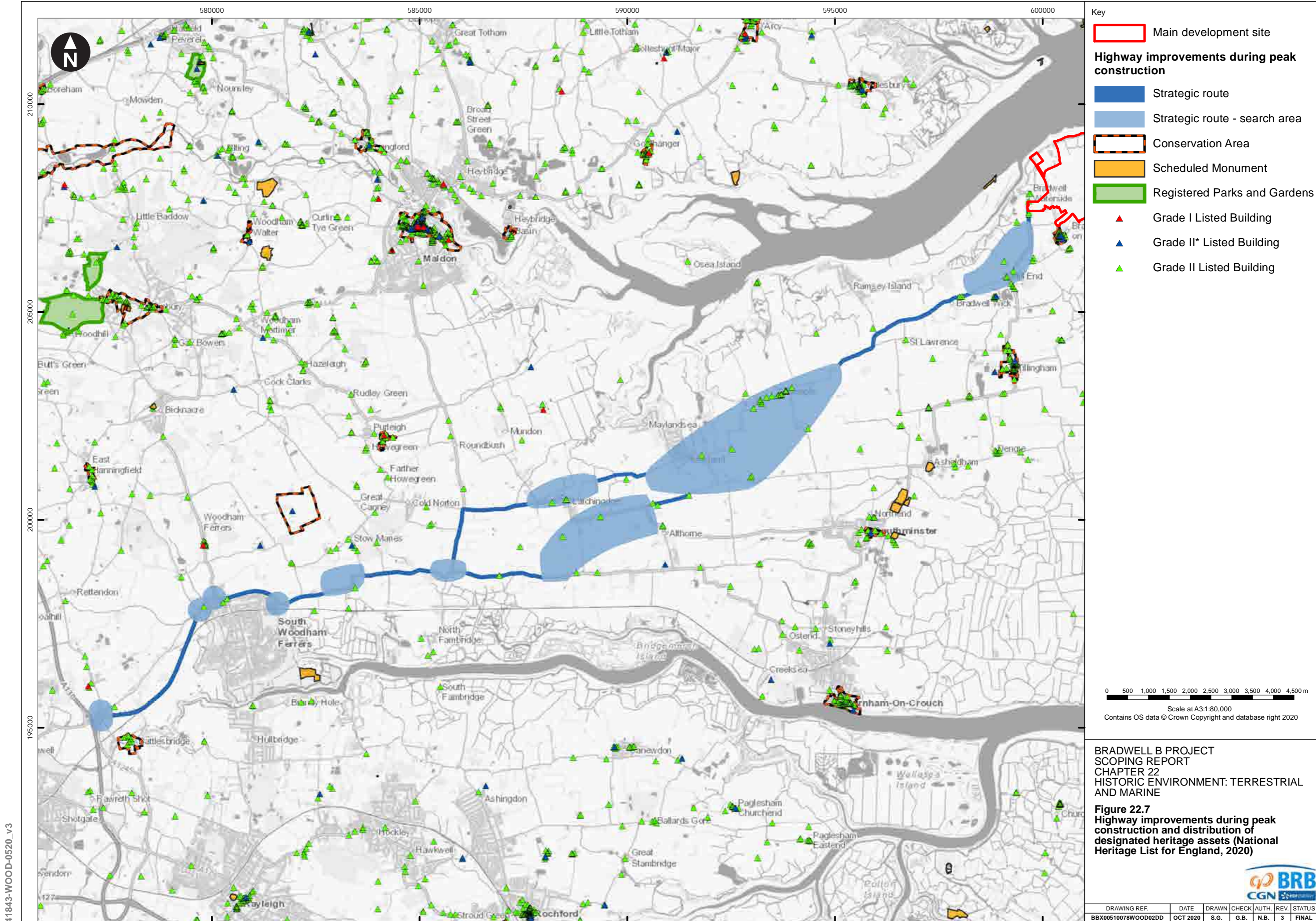
41843-WOOD-0518_v2

NOT PROTECTIVELY MARKED



41843-WOOD-0519_v2

NOT PROTECTIVELY MARKED



- Key
- Main development site
 - Highway improvements during peak construction**
 - Strategic route
 - Strategic route - search area
 - Conservation Area
 - Scheduled Monument
 - Registered Parks and Gardens
 - ▲ Grade I Listed Building
 - ▲ Grade II* Listed Building
 - ▲ Grade II Listed Building

0 500 1,000 1,500 2,000 2,500 3,000 3,500 4,000 4,500 m
 Scale at A3:1:80,000
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 CHAPTER 22
 HISTORIC ENVIRONMENT: TERRESTRIAL
 AND MARINE

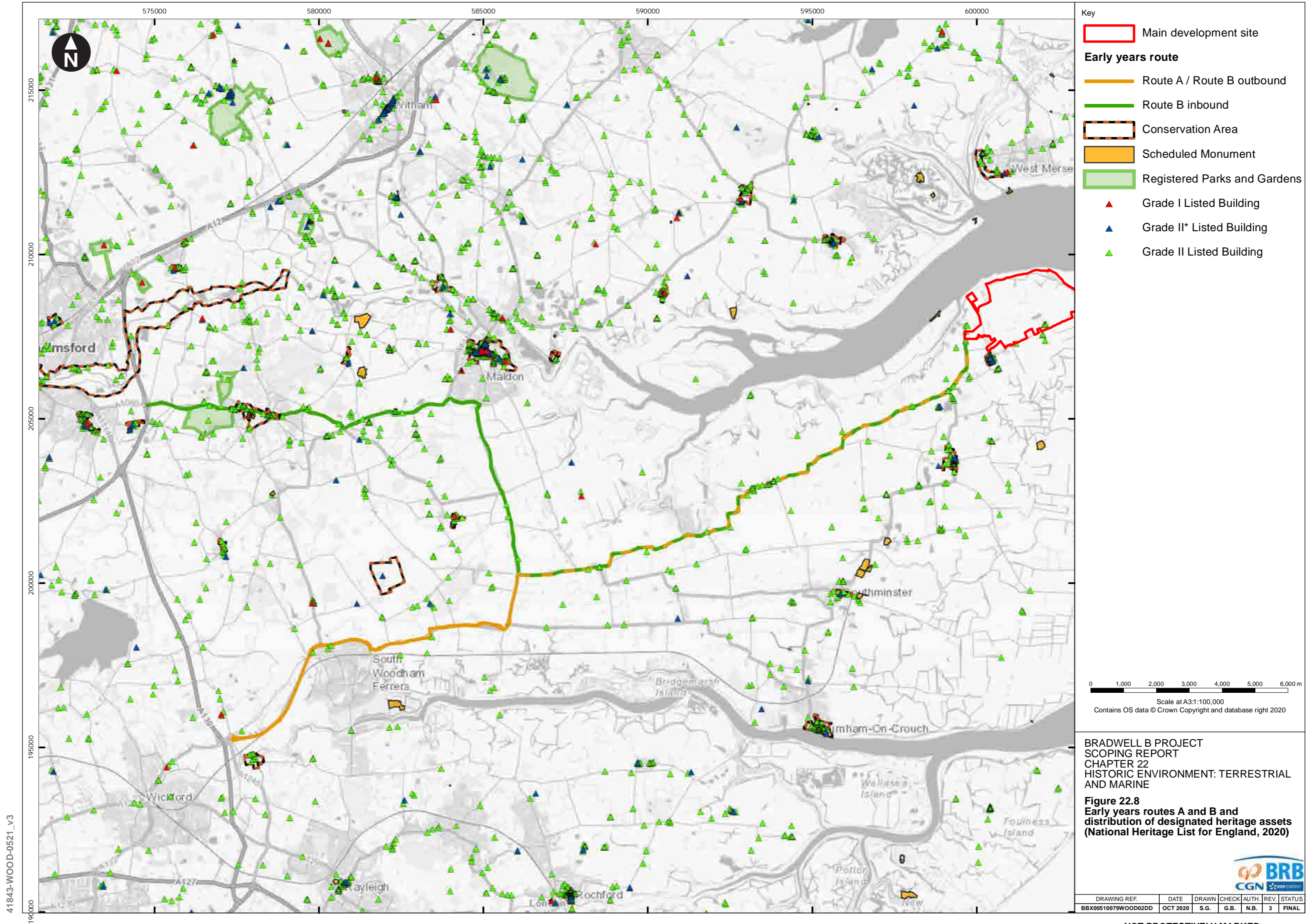
Figure 22.7
 Highway improvements during peak
 construction and distribution of
 designated heritage assets (National
 Heritage List for England, 2020)



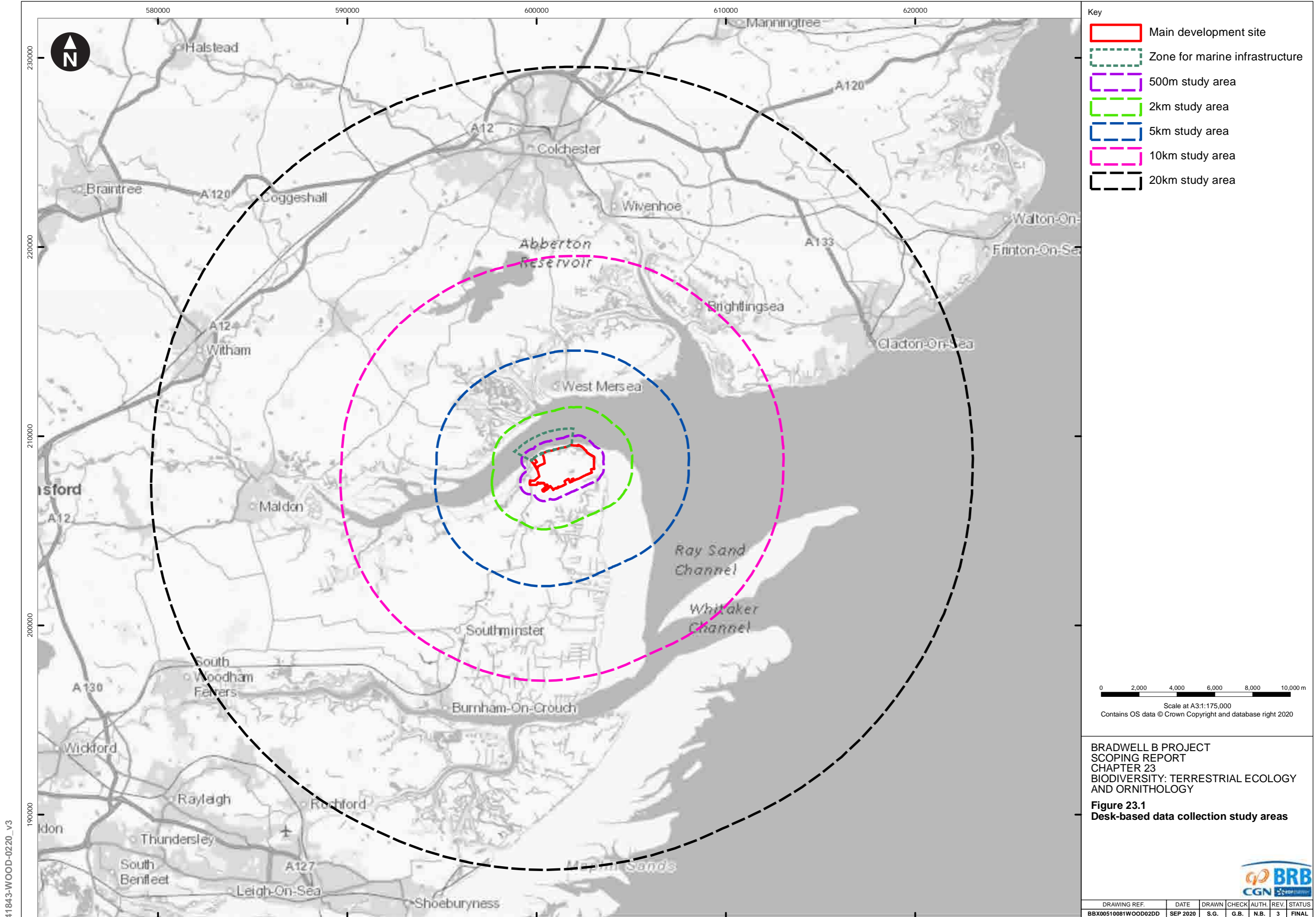
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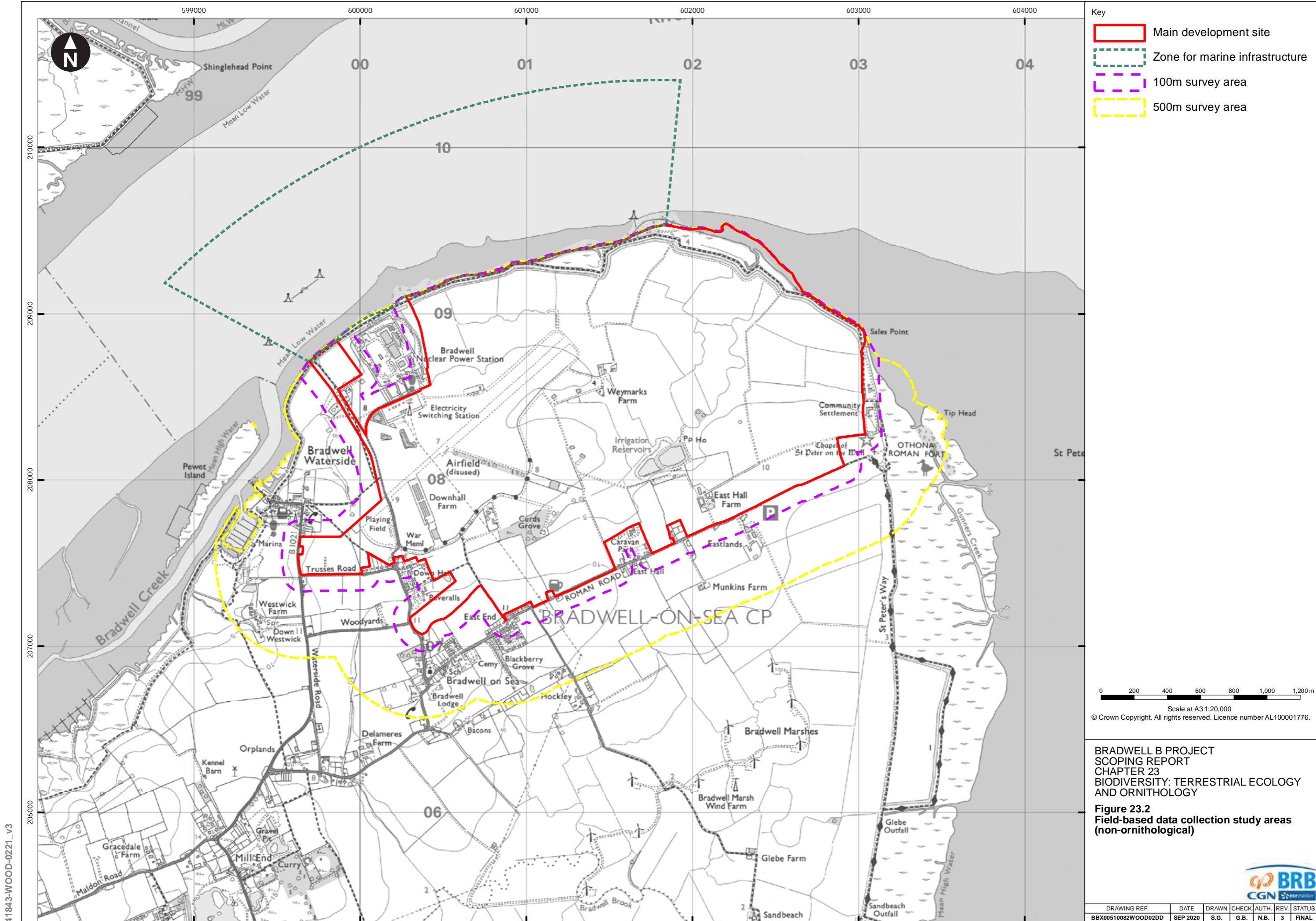


41843-WOOD-0521_v3



41843-WOOD-0220_v3

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- Key
- Main development site
 - Zone for marine infrastructure
 - 100m survey area
 - 500m survey area

0 200 400 600 800 1,000 1,200 m
 Scale at A3:1:20,000
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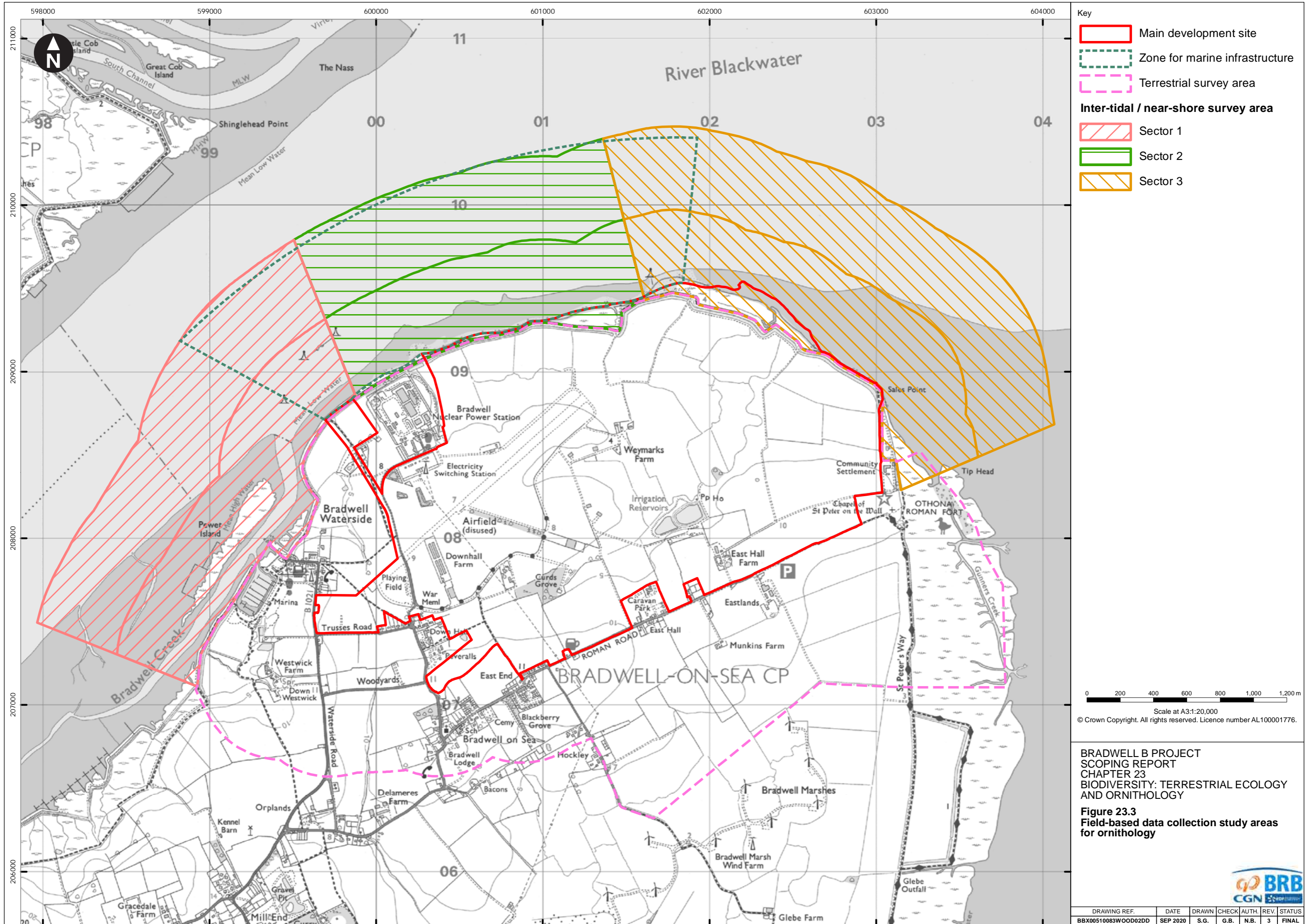
**Figure 23.2
 Field-based data collection study areas
 (non-ornithological)**



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41843-WOOD-0221_v3



Key

- Main development site
- Zone for marine infrastructure
- Terrestrial survey area

Inter-tidal / near-shore survey area

- Sector 1
- Sector 2
- Sector 3

0 200 400 600 800 1,000 1,200 m
 Scale at A3:1:20,000
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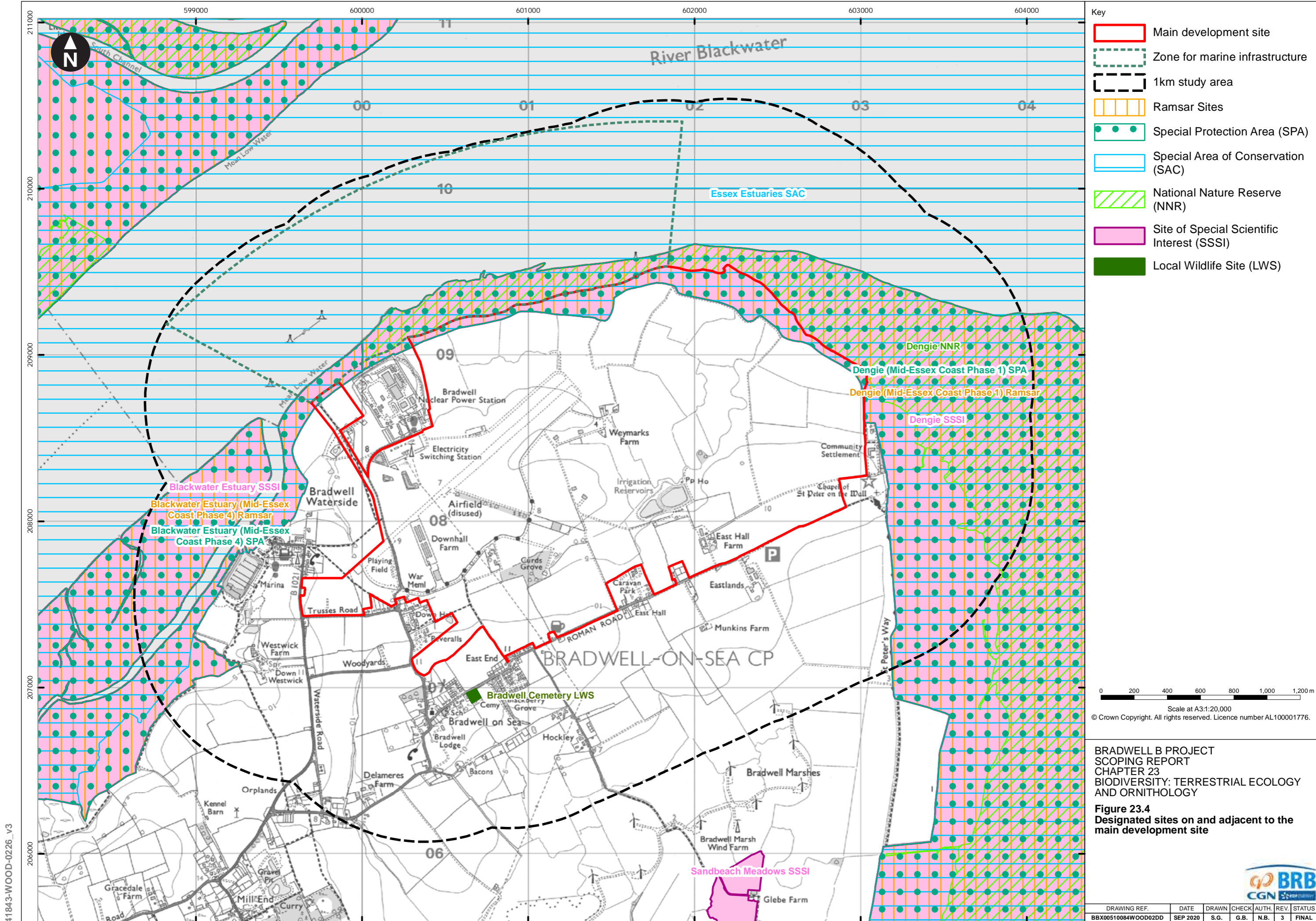
Figure 23.3
Field-based data collection study areas
for ornithology



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- Key
- Main development site
 - Zone for marine infrastructure
 - 1km study area
 - Ramsar Sites
 - Special Protection Area (SPA)
 - Special Area of Conservation (SAC)
 - National Nature Reserve (NNR)
 - Site of Special Scientific Interest (SSSI)
 - Local Wildlife Site (LWS)

0 200 400 600 800 1,000 1,200 m
 Scale at A3:1:20,000
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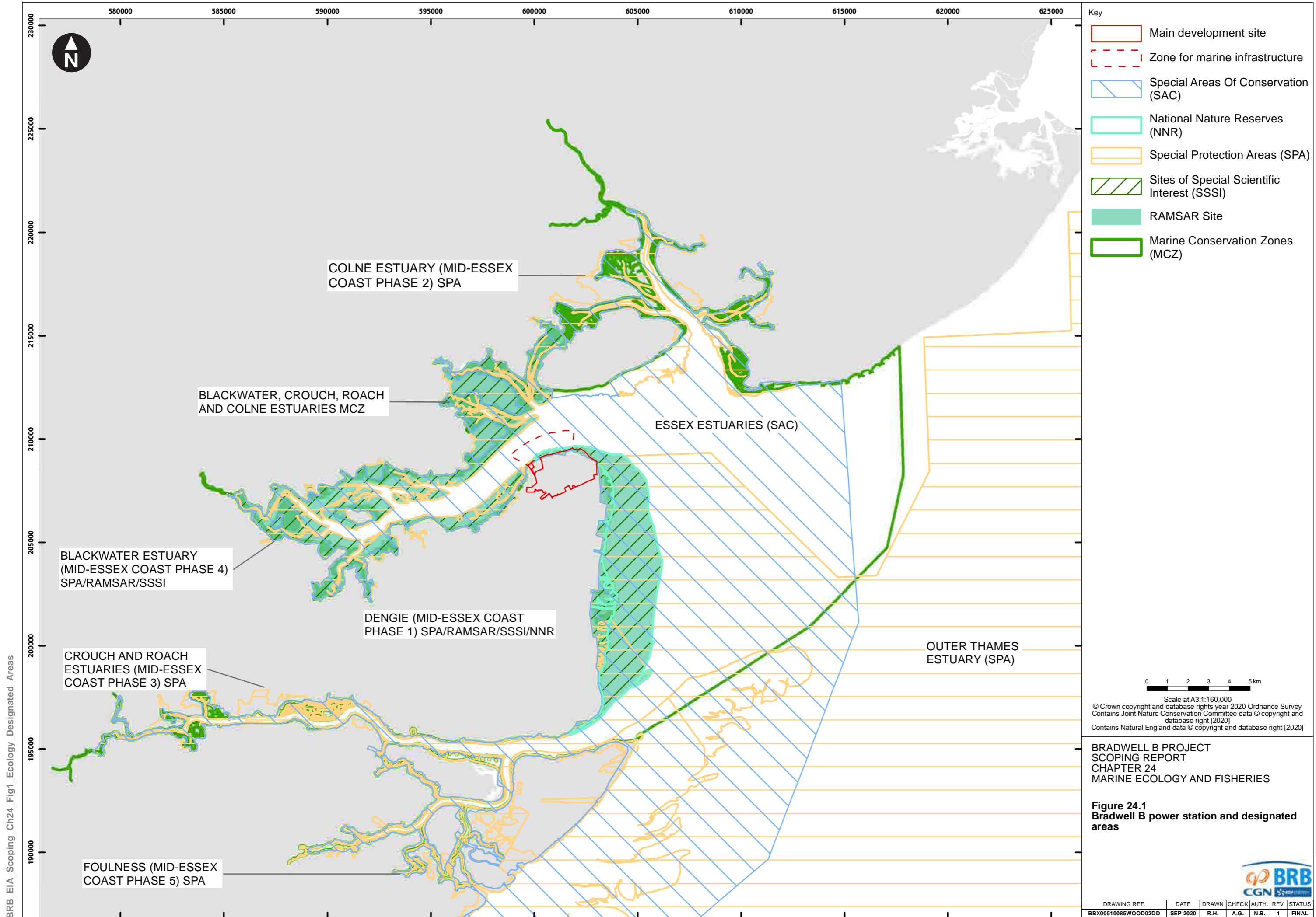
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Figure 23.4
 Designated sites on and adjacent to the
 main development site

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- Key
- Main development site
 - Zone for marine infrastructure
 - Special Areas Of Conservation (SAC)
 - National Nature Reserves (NNR)
 - Special Protection Areas (SPA)
 - Sites of Special Scientific Interest (SSSI)
 - RAMSAR Site
 - Marine Conservation Zones (MCZ)

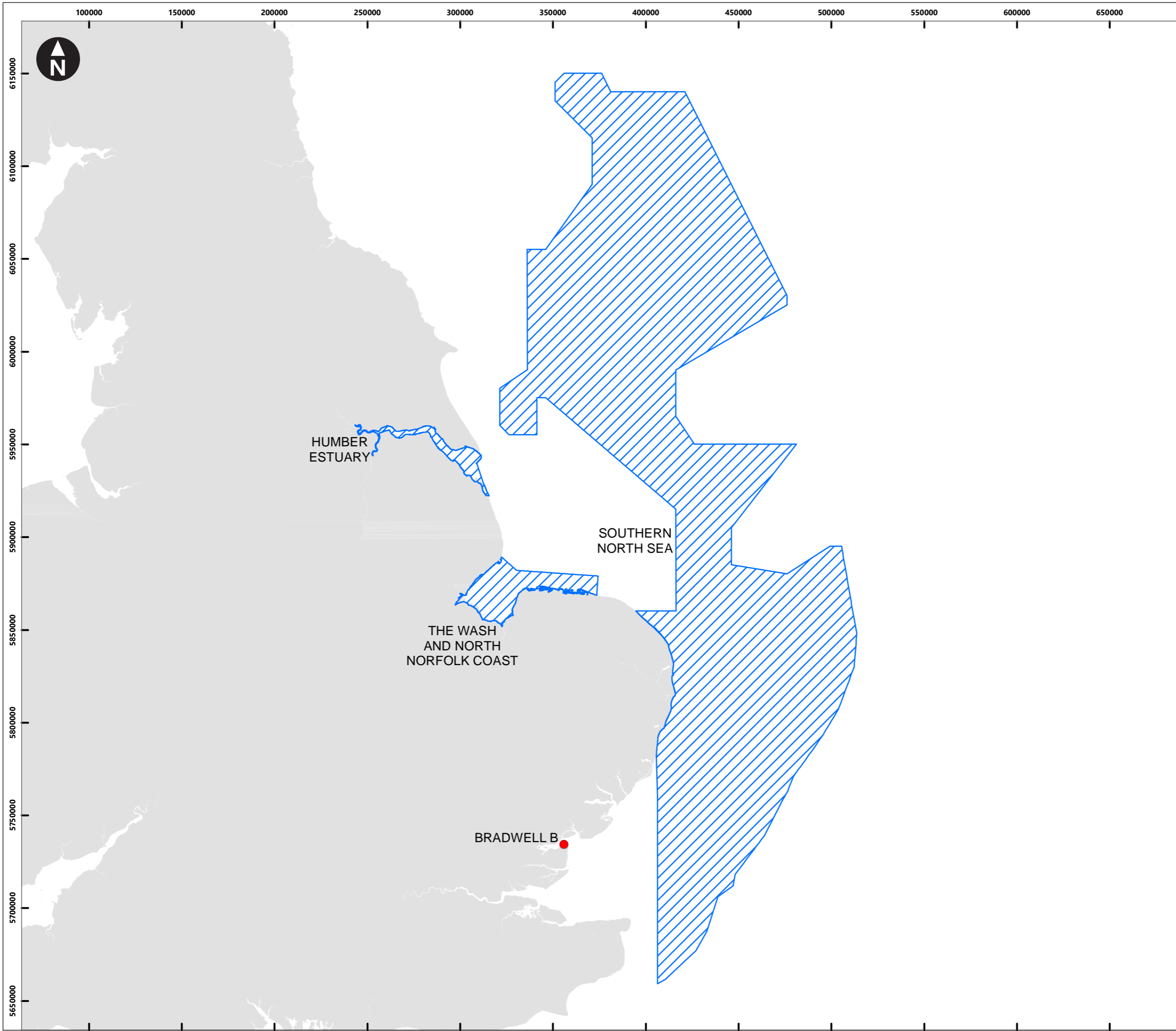
0 1 2 3 4 5 km
 Scale at A3:1:160,000
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 MARINE ECOLOGY AND FISHERIES

Figure 24.1
Bradwell B power station and designated areas

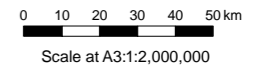


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Key

- Main development site
- Special Area of Conservation (SAC)



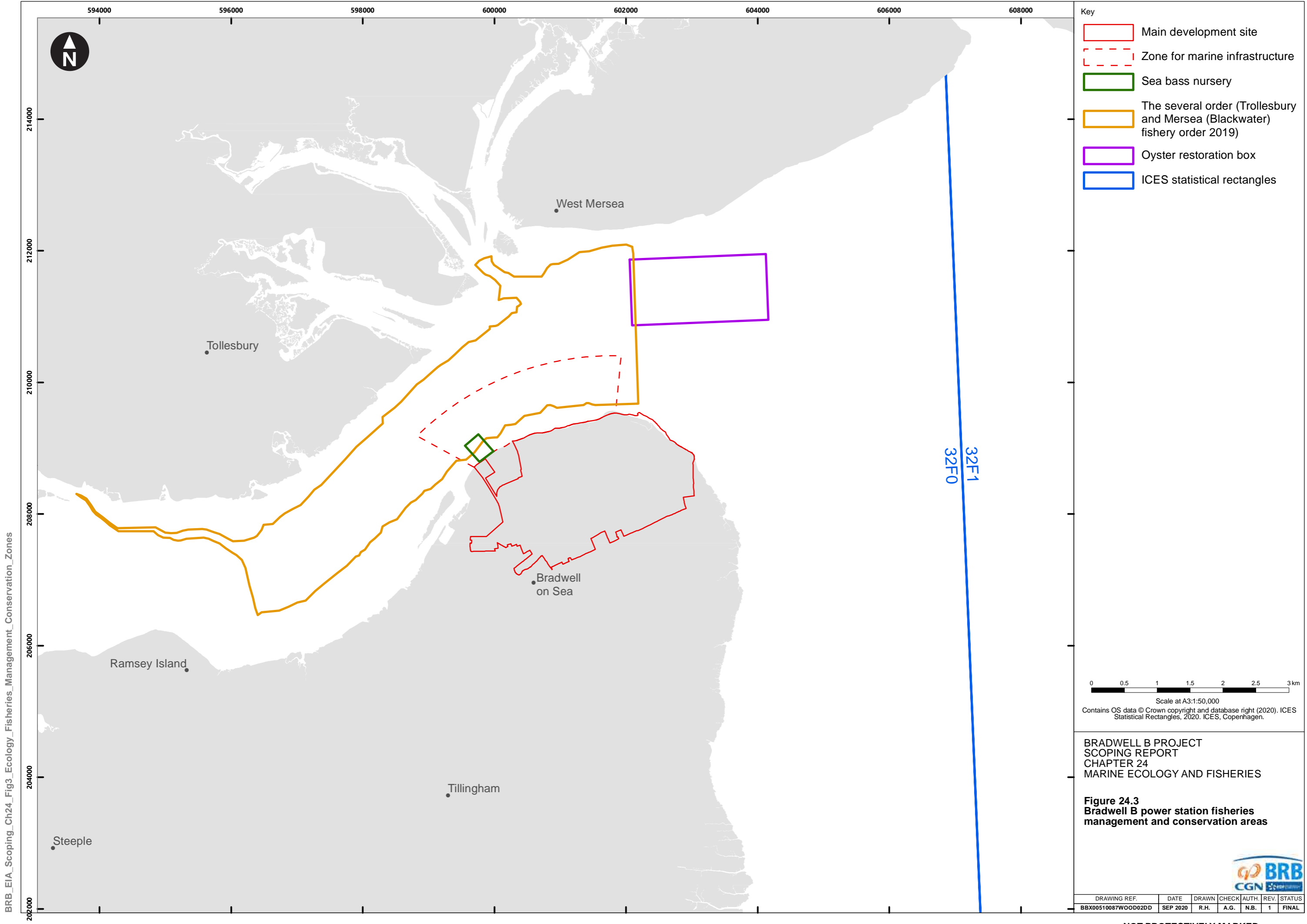
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Figure 24.2
Bradwell B power station and Special Areas of Conservation (SAC)



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BRB_EIA_Scoping_Ch24_Fig3_Ecology_Fisheries_Management_Conservation_Zones

- Key
- Main development site
 - Zone for marine infrastructure
 - Sea bass nursery
 - The several order (Tollesbury and Mersea (Blackwater) fishery order 2019)
 - Oyster restoration box
 - ICES statistical rectangles

0 0.5 1 1.5 2 2.5 3 km
 Scale at A3:1:50,000
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Figure 24.3
 Bradwell B power station fisheries management and conservation areas



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