



NORTH FALLS

Offshore Wind Farm

ENVIRONMENTAL STATEMENT

Appendix 25.5 Heritage walkover survey

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NORTH FALLS

Offshore Wind Farm

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Glossary of Acronyms

APS	Air Photo Services
DBA	Desk Based Assessment
DCO	Development Consent Order
EIA	Environmental Impact Assessment
HER	Historic Environment Record
HES	Essex County Council Historic Environment Service (Place Services)
ES	Environmental Statement
GIS	Geographic Information System
LiDAR	Light Detection and Ranging
NFOW	North Falls Offshore Wind Limited
NMP	National Mapping Programme
OS	Ordnance Survey
PEIR	Preliminary Environmental Information Report

Glossary of Terminology

The Project or 'North Falls'	North Falls Offshore Wind Farm, including all onshore and offshore infrastructure.
Onshore project area	The boundary in which all onshore infrastructure required for the Project will be located (i.e. landfall, onshore cable route, accesses, construction compounds, onshore substation), as considered within the PEIR.
Landfall	The location where the offshore cables come ashore.
Onshore cable corridor(s)	Onshore corridor(s) considered at PEIR within which the onshore cable route, as assessed at ES, is located.
Onshore cable route	Onshore route within which the onshore export cables and associated infrastructure would be located.
Onshore substation	A compound containing electrical equipment required to transform and stabilise electricity generated by the Project so that it can be connected to the national grid.
Onshore substation zone	The area considered at PEIR, within which the onshore substation will be located.

1 Introduction

1. This appendix presents the results of a heritage walkover survey which assessed the condition of above ground designated and non-designated heritage assets (e.g. historic earthworks and structures) and areas of archaeological potential which are recorded as being located within the North Falls Wind Farm (herein ‘the Project’) onshore project area.
2. This appendix informs the onshore archaeology and cultural heritage baseline presented in Chapter 25 Onshore Archaeology and Cultural Heritage (Document Reference: 3.1.27).

2 Methodology

2.1 Targeted approach

3. The above ground heritage assets and areas of potential archaeological sensitivity considered as part of the heritage walkover survey were identified as part of a baseline characterisation process.
4. The identified heritage assets (i.e. those located within the onshore project area) were selected from the desk-based baseline review of known heritage assets recorded on the Essex Historic Environment Record (HER), and from the results of the analysis of aerial photographic imagery and Light Detection and Ranging (LiDAR) data for the study area carried out by Air Photo Services Ltd., the results of which are presented in the Historic Environment Desk-Based (Baseline) Assessments in Appendix 25.1 (Document Reference: 3.3.48) (cable landfall search area) and Appendix 25.2 (Document Reference: 3.3.49) (onshore cable route and onshore substation works area).
5. These two datasets were incorporated into a project geographic information system (GIS) using ArcGIS 10.7.1, so that they could be spatially analysed. Information as to the type of heritage asset (i.e. structure, earthwork, cropmark) and the likelihood of that asset surviving above ground informed the targeted approach to the heritage walkover survey.
6. A written and photographic record was compiled on an ‘asset by asset’ or ‘area by area’ basis, the results of which are presented in Section 3.

2.2 Survey aims

7. The aims of the walkover survey were to:
 - Assess the condition of previously recorded upstanding/above ground archaeological remains within the identified areas (i.e. earthworks or structures);
 - Identify any currently unrecorded heritage assets (i.e. earthworks or structures);
 - Inform the potential for currently unknown heritage assets (e.g. buried archaeology) within the onshore project area; and

- To assess the potential impact from other modern developments within the study areas which may have reduced the significance/preservation of known heritage assets.

3 Survey Results

3.1 Introduction

8. The following section provides details of the observations made during the heritage walkover survey from the landfall zone towards the onshore substation works area. The locations of the assets are presented Figures 25.5.1a-d, Annex 25.5.1.
9. In total, 16 areas were selected within the onshore project area; this comprised a number of pillboxes, areas of copperas works and the sites of two Martello Towers along the coastline within the landfall area, and three areas of potential earthworks along the onshore cable route.
10. The heritage walkover survey took place over two days, from 5th to 6th October 2022. The weather was clear with good visibility.
11. The topography across the majority of the study area is generally flat, with localised undulating areas (unless otherwise specified within the descriptions presented in below).

3.1.1 Martello Tower I, Battery Point – MEX1039272

12. This is the site of a Martello Tower built between 1810 and 1812, along with towers G and H which together guarded the Holland Marshes. All three towers were sold by auction in April 1819 and demolished shortly after sale. The tower and battery at Battery Point were demolished in 1822.
13. No evidence of the tower was identified during the walkover survey.
14. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.

3.1.2 Pillbox (destroyed), 'Thatched Cottage', Greensward – MEX41320

15. The HER record for this pillbox states that it is reliably reported to have stood on the Greensward opposite the end of Second Avenue. It is known as 'Thatched Cottage' in reference to its location near to the thatched building (now a public convenience) which stands at the southern end of the Greensward between Frinton Golf Club and the sea wall.
16. No evidence of the pillbox was identified during the walkover survey.
17. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.

3.1.3 Pillbox (destroyed) on the sea wall at Battery Point – MEX31498

18. The site of a pillbox which continues the line of defences along the sea wall. The location on the 1946 Ordnance Survey (OS) map is marked as 'Gun

Emplacement (Disused)' which likely refers to a WWI gun site rather than a WWII pillbox.

19. No evidence of the pillbox was identified during the walkover survey.
20. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.

3.1.4 Mr Barton's Pans, Gunfleet Estuary – MEX1049138

21. This area is recorded as the site of Mr Barton's Pans at the mouth of the Gunfleet Estuary. The features are thought to be copperas settling pans, however, there is no copperas house on the site although one is recorded at Walton. They are recorded on the 1783 plan of Tendring levels and now comprise a line of roughly rectangular ponds running parallel to the sea wall on the marshland side of the wall. Their dimensions vary from 20m x 10m to 175m x 25m, however their depth is unknown.
22. These features were identified during the walkover survey however the detail of the pans were difficult to establish due to the nature of the long vegetation along this stretch of the marshland (Plate 1).



Plate 1 View of Mr Barton's Pans, looking north-east

3.1.5 Sea frontage, between Holland and Frinton – MEX10282.

23. The HER data for this site records a red hill within the intertidal area however no further information is provided and no evidence for salt making was identified at low tide during the walkover survey.
24. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.

3.1.6 Pillbox on the sea wall at Sandy Point – MEX31497

25. An FW3/22 pillbox stands on the sea wall at Sandy Point. As with the other pillboxes located along the sea wall between Holland and Frinton, it was sited to face attack both from the sea and the land and had its entrance at the lower landward side (Plate 2).
26. It is hexagonal with a protective belt of concrete up to the bottom of the loopholes. The names of the former occupants are etched in the concrete on the north-west side of the protective belt - 'Cpl. Smith, J. Campbell, P. H. Hall - 'D' Coy'.
27. The pillbox has deteriorated with small sections of concrete broken away, particularly around the loopholes, and vegetation is growing out of the concrete.



Plate 2 View of Pillbox at Sandy Point from the north-east

3.1.7 Martello Tower H, Holland Marsh – MEX1039273

28. Martello Tower H was built between 1810 and 1812, and stood in the centre of the present Frinton Golf Course. It was sold at auction in 1819, along with

towers G and I, and later demolished with its material used for farm buildings at Kirby.

29. Tower H was the only tower in Essex to not have a supporting battery.
30. No evidence of the tower was identified during the walkover survey.

3.1.8 Pillbox on the sea wall east of Chevaux de Frise Point – MEX31496

31. As with the other pillboxes located along the sea wall, it is a hexagonal concrete type FW3/22 pillbox with a protective concrete belt up to the bottom of the loopholes. The entrance is at the lower level at the base on the landward side, with interior steps visible through a hole in the block-up doorway.
32. The pillbox is in fairly good condition (Plate 3) with some deterioration around the loopholes and edges of the pillbox on the seaward side.
33. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.



Plate 3 View of Pillbox east of Chevaux de Frise Point, looking south

3.1.9 Pillbox base at Chevaux de Frise Point – MEX31495

34. Similar to pillbox MEX31496, although only the base and doorway (block-up) survive (Plate 4).
35. The remaining parts of the pillbox are in fairly good condition.

36. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.



Plate 4 View of Pillbox at Chevaux de Frise Point, looking east

3.1.10 Pillbox (destroyed) east of Holland Haven Country Park – MEX31493

37. This is recorded as the site of a hexagonal, concrete pillbox of the FW3/22 type with protective concrete belt around its base. The pillbox was likely demolished as a result of extensive rebuilding of the sea wall.
38. No evidence of the pillbox was identified during the walkover survey.
39. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.

3.1.11 Pillbox at Holland Haven Country Park – MEX31492

40. This pillbox is sited on high ground, approximately 60m landward from the sea wall, and dominates the open countryside with a 360 degree field of fire over the sea and flat grasslands.
41. Unlike the other FW3/22 type pillboxes along the sea wall, the entrance to this pillbox is on the seaward side suggesting that this was considered to be the rear of the pillbox.
42. The pillbox is in good condition although vegetation is growing up the sides of the pillbox, and metal railings and steps have been added to make this a viewing platform for the Holland Haven Country Park (Plate 5).

43. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.



Plate 5 View of Pillbox at Holland Haven Country Park, looking north-west

3.1.12 Pillbox (destroyed), cliff edge, Holland Haven – MEX1034362

44. An aerial photograph dated 1946 records a hexagonal FW3/22 type pillbox on the cliff edge at Holland Haven. A photograph dated 1953, taken at ground level shows the pillbox on the beach where it lay after the cliff edge had eroded.
45. Possible remnants of the concrete base associated with the pillbox were recorded during the walkover survey (Plate 6). Although the location appears to be the same as that recorded on the HER, it is uncertain if this amorphous concrete block does form part of the pillbox.
46. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.



Plate 6 Remains of Pillbox on the beach, looking south south-west

3.1.13 Circular Earthwork in the vicinity of Holland Haven – MEX10111

47. The HER records an undated circular earthwork within this area which may be associated with a copperas works.
48. No clear evidence for an earthwork was identified during the walkover survey, however located on the beach was a roughly rectangular-shaped area of rocks which may possibly be associated with a copperas works (Plate 7).
49. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.



Plate 7 Possible copperas works in the vicinity of Holland Haven, looking east

3.1.14 Field System – APS_04

50. The aerial photographic and LiDAR assessment (Appendix 25.6 (Document Reference: 3.3.53)) recorded a field system comprising field boundaries visible as cropmarks on historic aerial photographs and satellite imagery with residual earthwork remains visible on LiDAR data.
51. These features are associated with the following HER records:
 - MEX11450 – cropmarks of field boundaries, trackways and enclosures, heavily masked by geological features;
 - MEX1031415 – cropmarks of multiple linear features and a possible enclosure, masked by geological features; and
 - MEX11519 - cropmarks comprising one ring ditch east of Thorpe Hall, a second smaller one on the other side of the same field, and a penannular ring ditch in the middle. There are also linear features and pits, all heavily masked by periglacial features.
52. As part of the walkover survey, the field in which the residual enclosure was recorded from LiDAR data was visited. A slightly raised area was identified in the area of the enclosure however it was unclear if this undulation was a natural change in the topography or the result of human activity (Plate 8).



Plate 8 Possible location of enclosure (indicated by arrows) recorded as a residual earthwork from LiDAR data, looking north

3.1.15 Funerary site (round barrow) and field boundary – APS_09

53. Within this area the aerial photographic and LiDAR assessment (Appendix 25.6 (Document Reference: 3.3.53)) records a tumulus depicted on OS mapping dated 1880 indicating the position of a likely Bronze Age round barrow which was visible later as a cropmark on aerial photographs over its retaining ditch. Field boundaries are also visible as cropmarks on satellite imagery with residual earthwork remains visible on LiDAR data.
54. These features are associated with the following HER records:
 - MEX1031435 - cropmarks appear to show the wide ditches of a conjoined rectangular enclosure to the east of Hannan Hall. It is possible the cropmarks represent a former moat however there is no evidence of a moat on either the 1st Edition OS map or the Chapman and Andre map. The ditches are up to 12m wide in places and the enclosures are 108m by at least 37m wide. The enclosures are not complete and there are no apparent entrances.
 - MEX10843 – recorded as Mill Hill, a tumulus is marked on the 6' OS series of 1874-5; it is possibly a wind mill mound given its name.
55. The field in which a ring ditch was recorded as part of the aerial photographic and LiDAR assessment relates to HER record MEX10843, Mill Hill. This field was visited as part of the walkover survey. At the highest point in the field, a

large circular/oval depression was identified (Plate 9). This may represent the remains of Mill Hill or represent a large enclosure as recorded at MEX1031435.

56. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.



Plate 9 View of depression possibly associated with Mill Hill - MEX10843, looking east

3.1.16 Ring Ditch to west of Wolfe's Hall Farm - APS_010

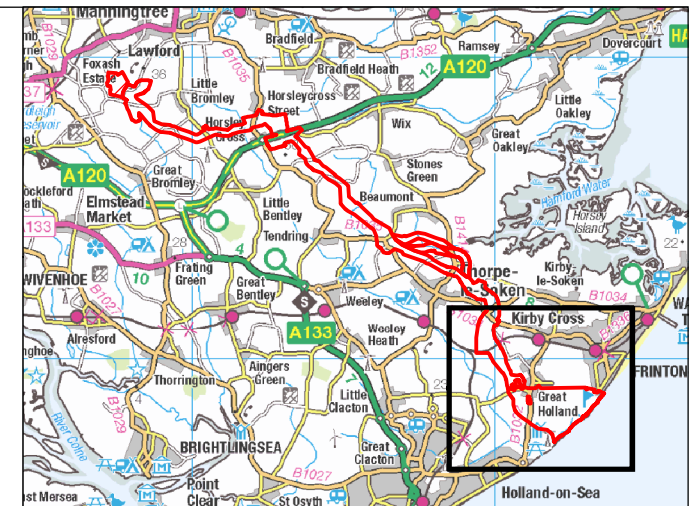
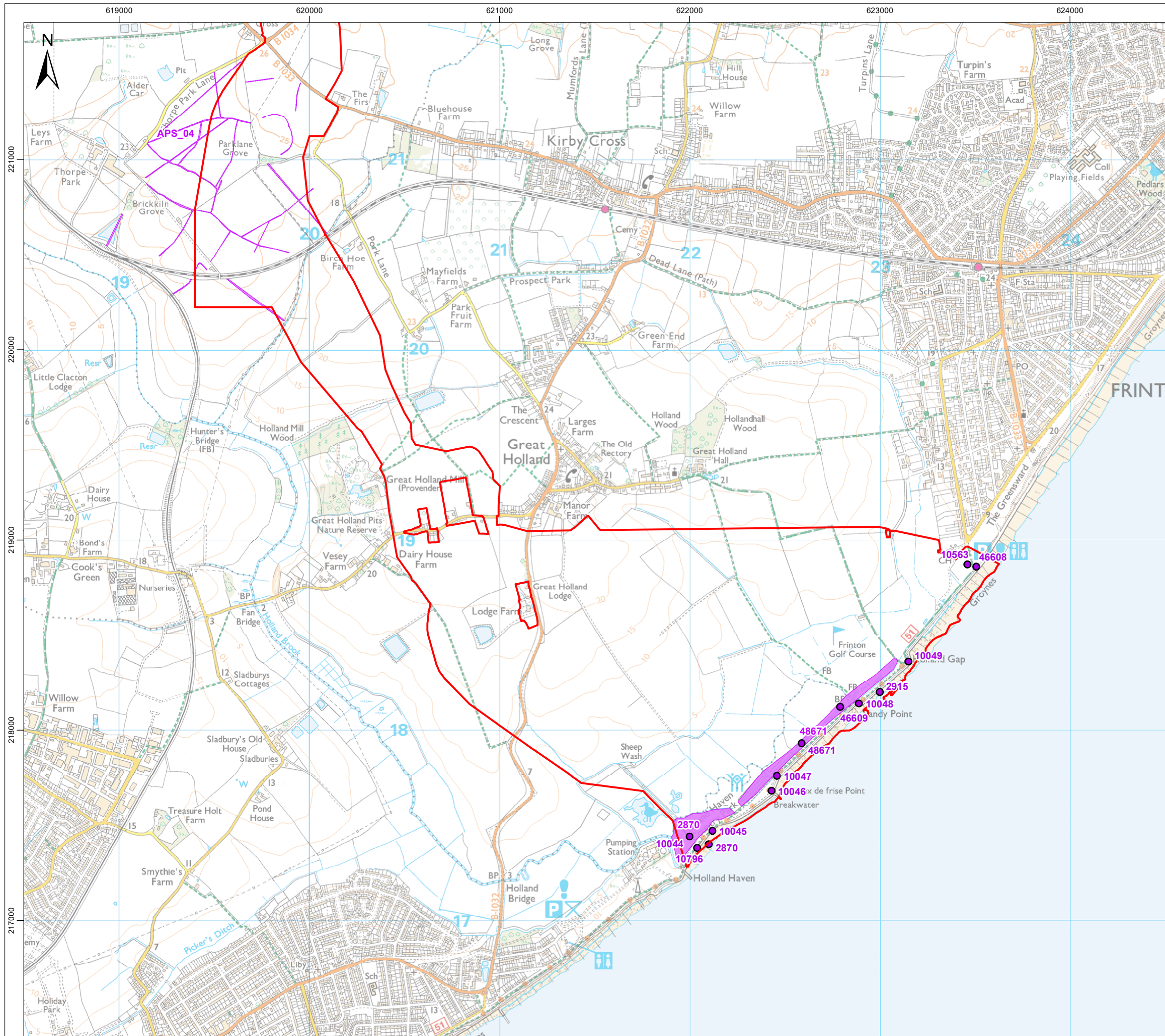
57. This area contains cropmarks of ring ditches, linear ditches and possible trackways visible on aerial photographs and satellite imagery (Appendix 25.6 (Document Reference: 3.3.53)).
58. These features are associated with the following HER records:
- MEX11405 – cropmarks comprising linear features and trackways south of Wolves Hall Farm;
 - MEX11650 – located to the west of Wolves Hall Farm area cropmarks of two double-ditched round barrows, measuring 27m and 37m in diameter, located 10m apart with a small partial round barrow visible to the north of the larger double-ditched barrow; and
 - MEX1031514 – cropmarks of various linear features, including former field boundaries and a partly visible rectangular enclosure which may represent a former house plot associated with the settlement on Tendring Green.

59. The area to the west of Wolves Hall farm was visited during the walkover survey however no evidence of earthworks relating to the ring ditches/double-ditched round barrows was evident. The field was relatively flat with a natural rise from west to east.
60. Following the refinement of the onshore cable route, this asset now lies outside of the onshore project area.

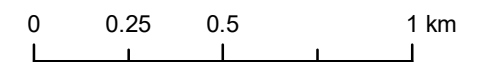
3.2 Discussion

61. The heritage walkover survey has confirmed the presence of four FW3/22 pillboxes located within the landfall area between Holland-on-Sea and Frinton-on-Sea (MEX31492, MEX31495, MEX31496 and MEX31497), three of which are located along the sea wall, and the possible remnants of a pillbox on the beach (MEX1034362). These pillboxes were in fairly good condition although some deterioration of the concrete around the loopholes and upper edges of the pillboxes was evident along with vegetation growing from the pillboxes adding to their deterioration. Following the refinement of the onshore cable route, only one of these pillboxes (MEX31497) now lies within the onshore project area.
62. Evidence of Mr. Barton's copperas works (MEX1049138) was noted along the landward side of the sea wall although the detail of the pans was not clear due to the nature of the marshland habitat and long vegetation. Possible remnants of further copperas works were identified on the beach in the location of the HER record for an undated earthwork (MEX10111) although this remains uncertain.
63. Along the coastline, the walkover survey also confirmed the absence of any remains associated with Martello Towers H (MEX1039273) and I (MEX1039272), the red hill (MEX10282) and a further two pillboxes (MEX31493 and MEX31498). This supports the existing records on the Essex HER.
64. Of the three areas in which extant earthworks had the potential to survive, as identified from aerial imagery and LiDAR data, only APS_09 is likely to contain an earthwork associated with the known heritage asset although it is unclear if it is the remnants of Mill Hill (MEX10843) or a large enclosure (MEX1031435). Both of these assets now lie outside of the onshore project area.
65. Within the other two areas, APS_04 and APS_010, slight raises were noted across the fields which for APS_04 could be a result of a natural change in topography or the result of human activity, whereas at APS_10 the slight rise is most likely a natural change in topography.
66. The findings from the heritage walkover survey will inform the baseline and impact assessment sections of the Environmental Statement (ES) chapter.

Annex 25.5.1 Figures



- Legend**
- North Falls Onshore Project Area
 - Heritage Walkover Survey Point
 - Heritage Walkover Survey Area



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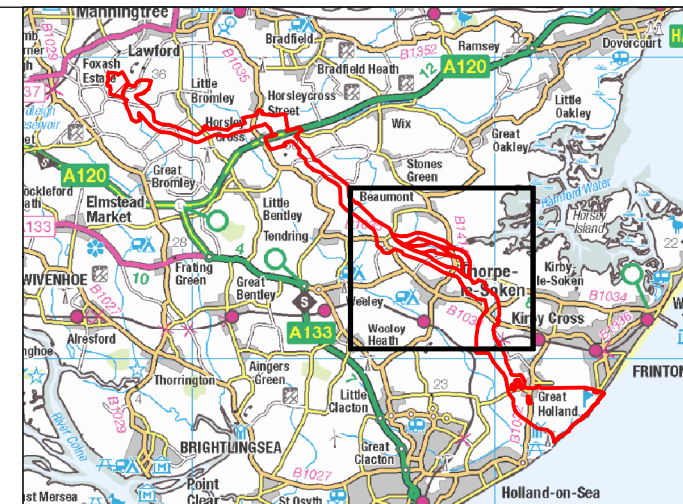
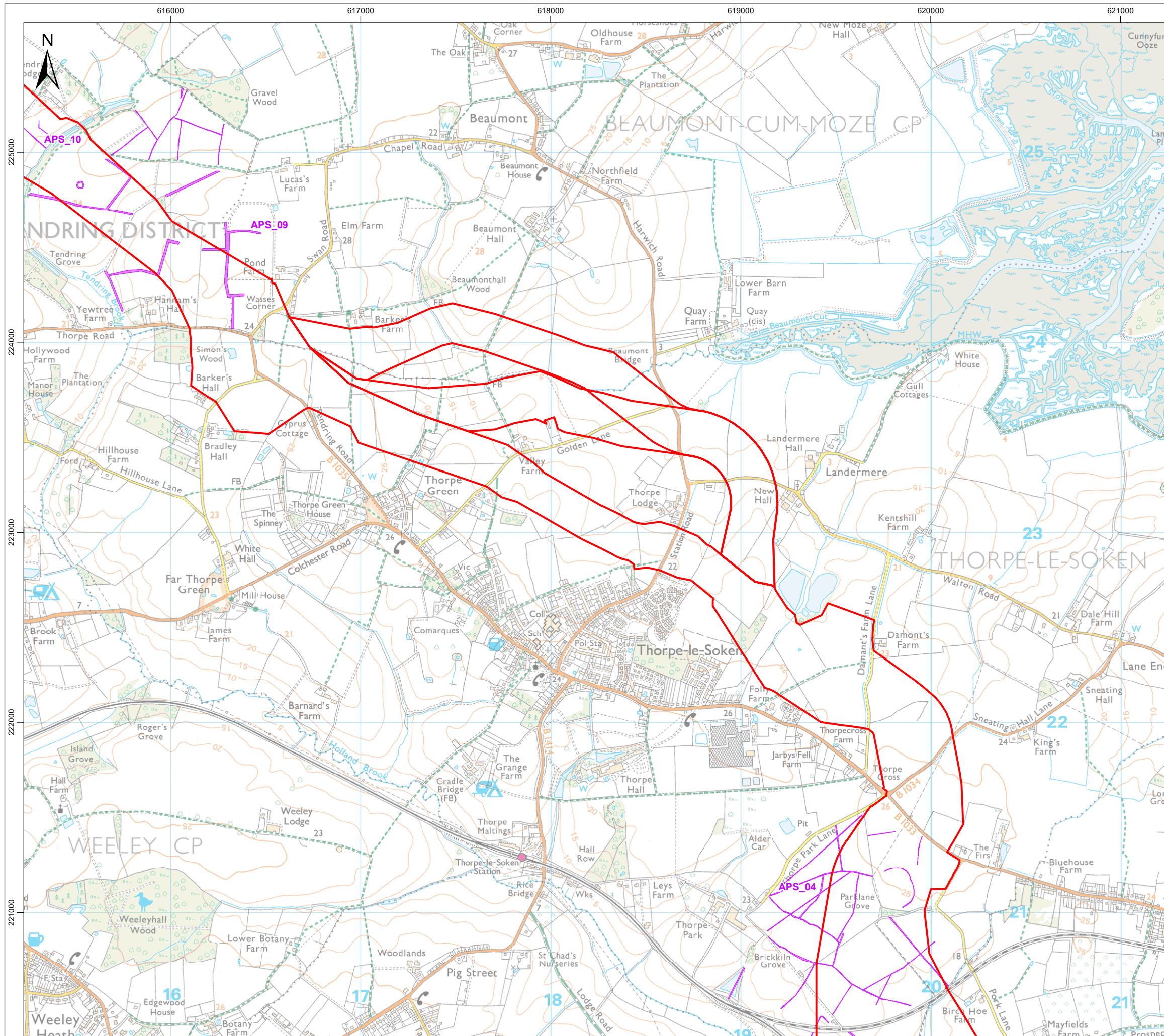
Heritage Walkover Survey Locations

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01	07/11/2022	First issue	FC	SM

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Scale 1:20,000	Plot Size A3	Datum OSGB36	Projection BNG
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Legend

- North Falls Onshore Project Area
- Heritage Walkover Survey Area

0 0.25 0.5 1 km

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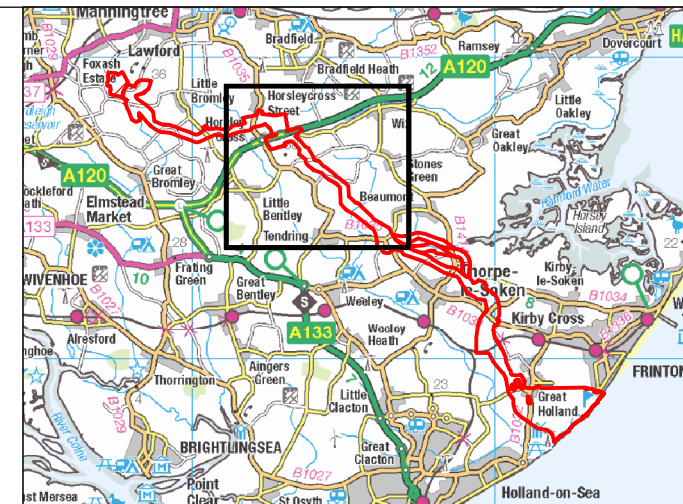
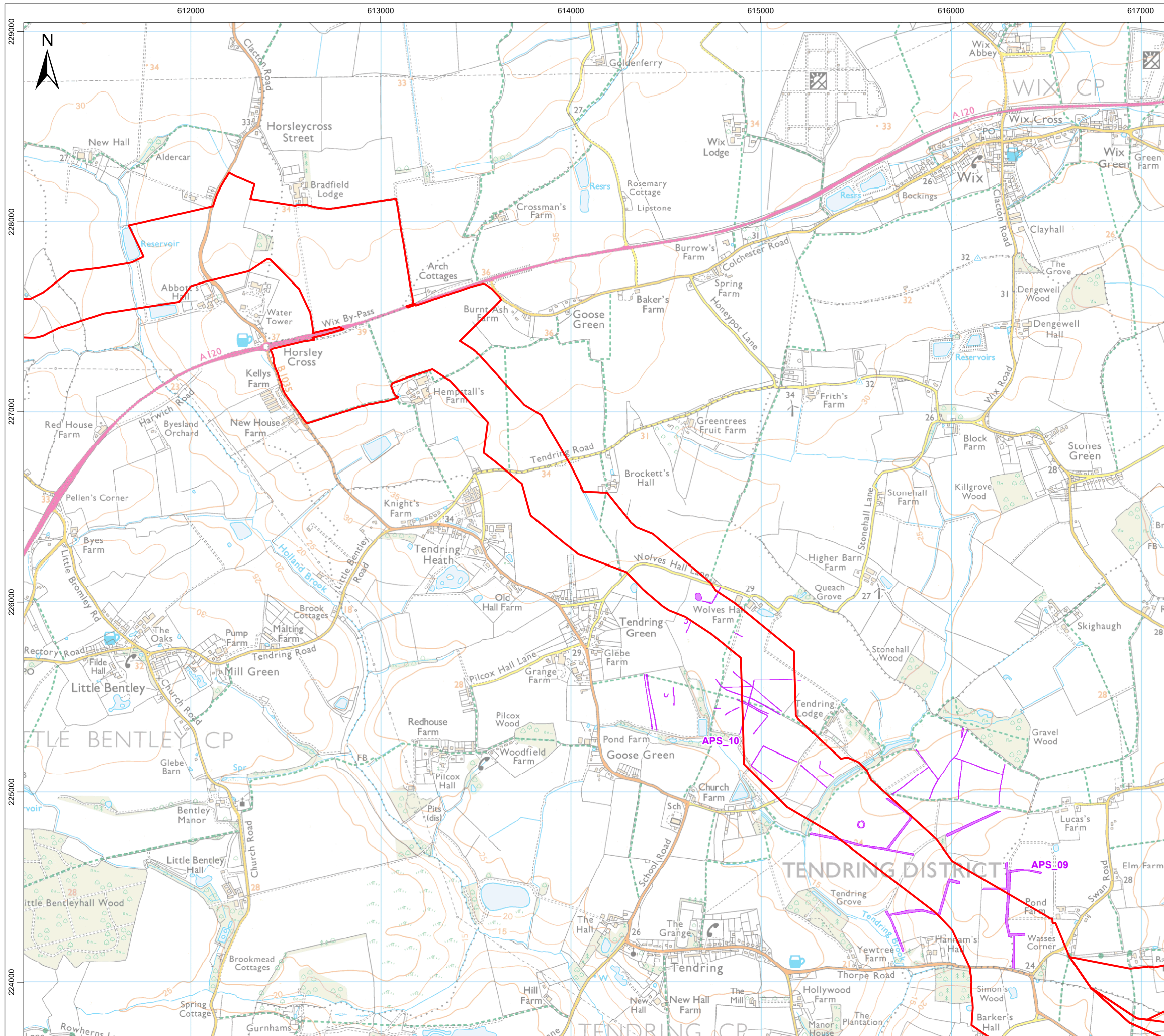
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01	07/11/2022	First issue	FC	SM

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Datum OSGB36	Projection BNG

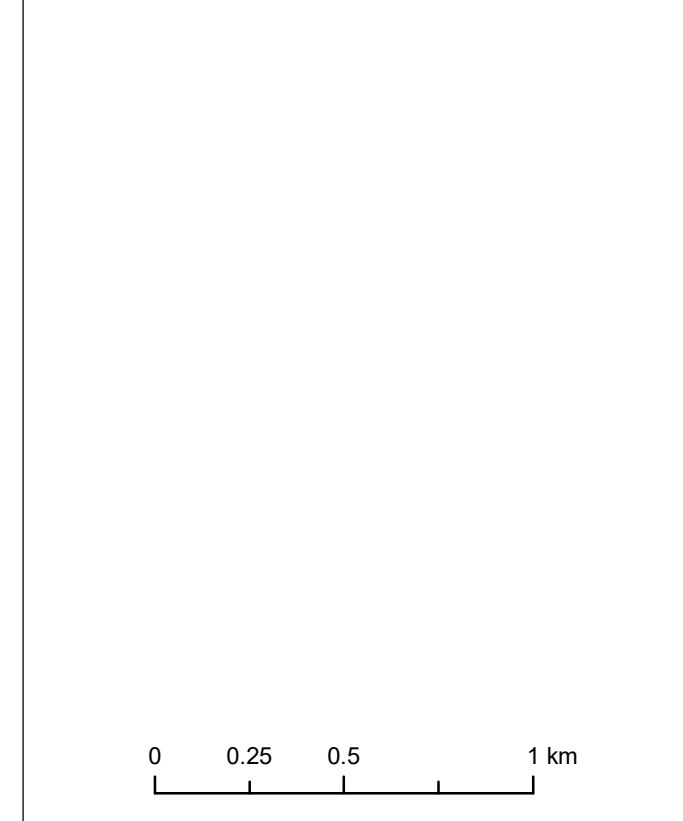
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NORTH FALLS
Offshore Wind Farm



Legend

- North Falls Onshore Project Area
- Heritage Walkover Survey Area



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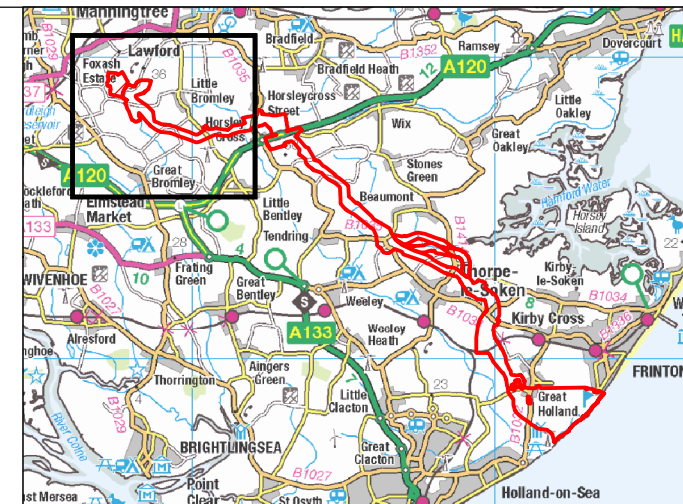
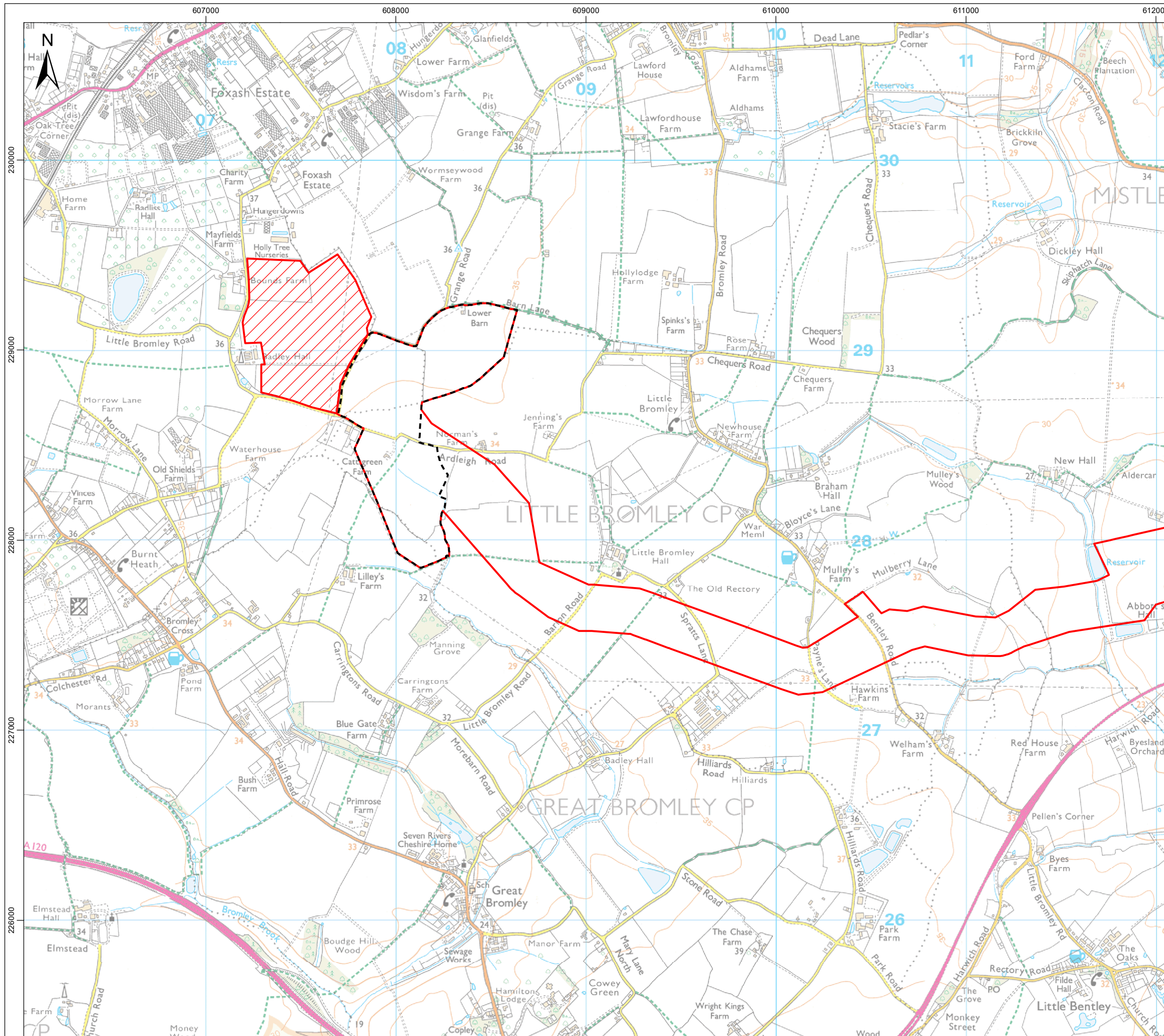
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Scale 1:20,000	Plot Size A3	Datum OSGB36	Projection BNG
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Legend

- North Falls Onshore Project Area
- East Anglia GREEN Proposed Substation Location
- North Falls Onshore Substation Zone

0 0.25 0.5 1 km

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