



# FIVE ESTUARIES OFFSHORE WIND FARM

## ENVIRONMENTAL STATEMENT

### VOLUME 6, PART 6, ANNEX 1.1: OBSTACLE CROSSING REGISTER

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## 1 CROSSING REGISTER

### 1.1 OVERVIEW

- 1.1.1 This crossing register is an annex to Volume 6, Part 3, Chapter 1: Onshore Project Description. It identifies obstacles along the proposed onshore export cable corridor (ECC) and the proposed crossing methodologies.
- 1.1.2 The crossing register corresponds to sections of the ECC, there are seven route sections in total. The full description of cable route sections is outlined Volume 6, Part 3, Chapter 1: Onshore Project Description. The tables are split by type of crossing, there are nine types as listed below. In the first 8 tables the last column denotes associated haul road crossings, where the haul road crosses the same obstacle but via an off-route haul road rather than immediately beside the ECC. In some cases this means the haul road has additional crossings of obstacles that are not also crossed by the main ECC, these are listed in Table 9.
- > Road Crossings (Table 1)
  - > Rail Crossings (Table 2)
  - > Watercourses (Table 3)
  - > PRow and other paths (Table 4)
  - > Overhead utilities (Table 5)
  - > Other obstacles (Table 6)
  - > Underground utilities (Table 7)
  - > Environmental features (Table 8)
  - > Additional haul road crossings (Table 9), where the haul road has additional crossings of obstacles that are not also crossed by the main ECC.
- 1.1.3 It is highlighted that not all obstacles cross the entire width of the ECC. Therefore as the final design is refined, certain obstacles may be entirely avoided. The tables highlight key crossings and the approach currently proposed, this will be refined further as a result of detailed design.
- 1.1.4 The following codes are used in the last two columns of the table to denote the assumed and / or potential crossing techniques:
- > Y: Currently assumed crossing technique
  - > P: Possible crossing technique that may be used
  - > N: No/ Not considered appropriate crossing technique
- 1.1.5 Where trenched options are used for environmental feature crossings the removal (or height reduction) of trees, hedgerows and ground vegetation will be kept to a minimum but where necessary will be completed in accordance with the prevailing best practice and controlled by the Code of Construction Practice (CoCP) and the Landscape Ecological Management Plan (LEMP), both of which will be secured within the DCO.

- 1.1.6 For features where a trenchless crossings, such as HDD, is committed to the haul road may need to pass through the feature. Where it is an environmental obstacle, such as hedgerows / trees the haul road would seek to target existing gaps, where practical.
- 1.1.7 Obstacles associated with the widening works along Bentley Road are not included in this crossing register. Where needed utilities along Bentley Road will generally be relocated to align with the widened road alignment.
- 1.1.8 Obstacles that may affect the access route into the EACN substation are not included in this crossing register. This is because it is expected National Grid provide the construction access to enter the EACN substation.

**Note:** *Obstacle IDs have been maintained for each project from previous phases to ensure consistency with reporting and previous assessments completed. Where additional obstacles have been identified these have been given a letter suffix to allow to be incorporated into obstacle crossing register without duplication of obstacle IDs.*

**Table 1: Road Crossings**

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 1	ROAD CROSSING	RX-01	B1032 CLACTON ROAD	SURFACE	N	Y	RX-01A; RX-01B
SECTION 1	ROAD CROSSING	RX-03	LITTLE CLACTON ROAD	SURFACE	N	Y	
SECTION 2/3	ROAD CROSSING	RX-04	B1033 THORPE ROAD	SURFACE	N	Y	
SECTION 3	ROAD CROSSING	RX-05	B1034 SNEATING HALL LANE	SURFACE	N	Y	
SECTION 3	ROAD CROSSING	RX-06	DAMANT'S FARM LANE	SURFACE	P	Y	
SECTION 3	ROAD CROSSING	RX-07	B1414 LANDERMERE ROAD	SURFACE	N	Y	RX-07A
SECTION 3	ROAD CROSSING	RX-08	GOLDEN LANE	SURFACE	N	Y	
SECTION 3/4A	ROAD CROSSING	RX-10A	B1035 TENDERING ROAD	SURFACE	N	Y	RX-9A
SECTION 3/4A	ROAD CROSSING	RX-11	B1035 THORPE ROAD	SURFACE	N	Y	
SECTION 3/4A	ROAD CROSSING (NF DUCTS)	RX-23	SWAN ROAD	SURFACE	N	Y	
SECTION 4A/4B	ROAD CROSSING	RX-12	LODGE LANE	SURFACE	N	Y	
SECTION 4B	ROAD CROSSING	RX-13	WOLVES HALL LANE	SURFACE	N	Y	
SECTION 4B	ROAD CROSSING	RX-14	STONES GREEN ROAD	SURFACE	N	Y	RX-14A
SECTION 4B/5	ROAD CROSSING	RX-22	A120	SURFACE	N	Y	
SECTION 5	ROAD CROSSING	RX-16	B1035 CLACTON ROAD	SURFACE	N	Y	RX-16A
SECTION 5/6	ROAD CROSSING	RX-17	BENTLEY ROAD	SURFACE	N	Y	RX-17A; RX-17B
SECTION 6	ROAD CROSSING	RX-18	PAYNE'S LANE	SURFACE	Y	P	
SECTION 6	ROAD CROSSING	RX-19	SPRATTS LANE	SURFACE	Y	P	
SECTION 6	ROAD CROSSING	RX-20	BARLON ROAD	SURFACE	Y	P	
SECTION 6/7	ROAD CROSSING	RX-21	ARDLEIGH ROAD	SURFACE	N	Y	RX-21A
400kV Route	ROAD CROSSING	RX-24	GRANGE ROAD	SURFACE	N	Y	

**Table 2: Under Rail Track Crossing**

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 1/2	UNDER TRACK CROSSING	UTX-01	RAILWAY LINE	SURFACE	N	Y	

**Table 3: Watercourse Crossings**

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
LANDFALL	WATERCOURSE CROSSING	WX-01	ENVIRONMENT AGENCY MAIN RIVER	SURFACE	N	Y	
LANDFALL	WATERCOURSE CROSSING	WX-02A	ENVIRONMENT AGENCY MAIN RIVER	SURFACE	N	Y	
LANDFALL	WATERCOURSE CROSSING	WX-02	ENVIRONMENT AGENCY MAIN RIVER	SURFACE	N	Y	
SECTION 1	WATERCOURSE CROSSING	WX-02B	WATERCOURSE	SURFACE	N	Y	
SECTION 1	WATERCOURSE CROSSING	WX-05	WATERCOURSE/DRAIN	SURFACE	N	Y	
SECTION 1	WATERCOURSE CROSSING	WX-05A	WATERCOURSE	SURFACE	N	Y	
SECTION 1	WATERCOURSE CROSSING	WX-06	WATERCOURSE	SURFACE	N	Y	WX-06A (REMOTE FROM CABLE CORRIDOR))
SECTION 3	WATERCOURSE CROSSING	WX-07	WATERCOURSE / DRAIN	SURFACE	N	Y	
SECTION 3	WATERCOURSE CROSSING	WX-08	WATERCOURSE	SURFACE	P	Y	
SECTION 3	WATERCOURSE CROSSING	WX-09	WATERCOURSE	SURFACE	Y	P	WX-09A
SECTION 3	WATERCOURSE CROSSING	WX-19	WATERCOURSE	SURFACE	N	Y	
SECTION 3	WATERCOURSE CROSSING (NF DUCTS)	WX-20	WATERCOURSE	SURFACE	P	Y	
SECTION 4A	WATERCOURSE CROSSING	WX-11	WATERCOURSE	SURFACE	N	Y	
SECTION 4A/4B	WATERCOURSE CROSSING	WX-12	ENVIRONMENT AGENCY MAIN RIVER - TENDRING BROOK	SURFACE	N	Y	WX-12A (REMOTE FROM CABLE CORRIDOR)
SECTION 5	WATERCOURSE CROSSING	WX-14	WATERCOURSE	SURFACE	N	Y	
SECTION 5	WATERCOURSE CROSSING	WX-21	WATERCOURSE	SURFACE	P	Y	

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 6/7	WATERCOURSE CROSSING	WX-15	WATERCOURSE	SURFACE	P	Y	
SECTION 6/7	WATERCOURSE CROSSING	WX-22	WATERCOURSE	SURFACE	N	Y	WX-22A



**Table 4: Footpath, bridleway or other track crossing**

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
LANDFALL	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-01	PUBLIC FOOTPATH ALONG THE SEA DEFENCE	SURFACE	N	Y	
LANDFALL	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-01A	TRACK / PATH	SURFACE	N	Y	
SECTION 1	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-03	TRACK (SHORT LANE)	SURFACE	N	Y	
SECTION 1	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-04	TRACK	SURFACE	Y	P	
SECTION 1	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-05	TRACK / PATH	SURFACE	N	Y	
SECTION 1	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-11	PUBLIC FOOTPATH - FP38 164	SURFACE	N	Y	PAT-11A
SECTION 1	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-12	PUBLIC FOOTPATH - FP11 164	SURFACE	Y	P	
SECTION 1	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-13	TRACK	SURFACE	N	Y	
SECTION 1	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-14	TRACK	SURFACE	N	Y	
SECTION 2	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-16	TRACK/PATH	SURFACE	N	Y	
SECTION 3	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-17	PUBLIC FOOTPATH - FP13 180	SURFACE	P	Y	
SECTION 3	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-24	PUBLIC FOOTPATH - FP3 180	SURFACE	N	Y	PAT-24A (REMOTE FROM CABLE CORRIDOR)
SECTION 3	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-26	PUBLIC FOOTPATH - FP1 180	SURFACE	Y	P	
SECTION 3	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-27	PUBLIC FOOTPATH - FP18 180 and FP 18 159	SURFACE	Y – VE CIRCUITS P – NF DUCTS	P	PAT-27A
SECTION 4A	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-28	TRACK	SURFACE	N	Y	

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 4A/4B	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-29	PUBLIC FOOTPATH - FP22 179	SURFACE	N	Y	PAT-29A (REMOTE FROM CABLE CORRIDOR)
SECTION 4B	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-31	PUBLIC FOOTPATH - FP8 179	SURFACE	Y	P	
SECTION 4B	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-33	PUBLIC FOOTPATH - FP3 179	SURFACE	Y	P	
SECTION 4B	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-34	PUBLIC FOOTPATH - FP1 179	SURFACE	Y	P	
SECTION 4B	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-36	PUBLIC FOOTPATH - FP31 183	SURFACE	Y	P	
SECTION 4B	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-37	PUBLIC FOOTPATH - FP32 183	SURFACE	Y	P	
SECTION 5	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-39	TRACK	SURFACE	Y	P	
SECTION 5	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-40	TRACK	SURFACE	N	Y	
SECTION 5	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-41	PATH	SURFACE	Y	P	
SECTION 6	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-51	PATH	SURFACE	Y	P	
SECTION 6	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-45	PUBLIC FOOTPATH - FP17 172	SURFACE	Y	P	
SECTION 6	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-47	PUBLIC FOOTPATH - FP16 172	SURFACE	Y	P	PAT-47A

**Table 5: Overhead utilities crossings**

SECTION OF CABLE ROUTE	OBSTACLE TYPE		OBSTACLE ID	OBSTACLE DETAILS	OVERHEAD / BURIED SURFACE	TRENCHING	TRENCHLESS-HDD	ASSOCIATED HAUL ROAD CROSSINGS
		UTILITIES	FIVE ESTUARIES CIRCUITS					
SECTION 1	OVERHEAD CROSSING	UTILITIES	OUX-01	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	P	Y	
SECTION 1	OVERHEAD CROSSING	UTILITIES	OUX-2	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	
SECTION 1	OVERHEAD CROSSING	UTILITIES	OUX-03	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	
SECTION 1	OVERHEAD CROSSING	UTILITIES	OUX-08	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	
SECTION 1	OVERHEAD CROSSING	UTILITIES	OUX-09	33kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	N	Y	OUX-09A
SECTION 1	OVERHEAD CROSSING	UTILITIES	OUX-10	33kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	N	Y	OUX-10A (REMOTE FROM CABLE CORRIDOR)
SECTION 2	OVERHEAD CROSSING	UTILITIES	OUX-11	33kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	P	Y	OUX-11A; OUX-11B (REMOTE FROM CABLE CORRIDOR)
SECTION 2/3	OVERHEAD CROSSING	UTILITIES	UUX-27	OPENREACH TELECOMS LINE- OVERHEAD	OVERHEAD	N	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-12	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-13	33kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	N	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-14	OPENREACH TELECOMS LINE - PROPOSED	OVERHEAD	N	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-15	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	UUX-34	OPENREACH TELECOMS LINE	OVERHEAD	P	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-17	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	P	Y	OUX-17A
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-19	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-20	OVERHEAD CABLES NOT RECORDED ON THE UTILITY PLAN. VISIBLE IN GOOGLE STREET VIEW IMAGERY.	OVERHEAD	N	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-21	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	N	Y	
SECTION 3	OVERHEAD CROSSING	UTILITIES	OUX-23	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	OUX-23B

SECTION 3/4A	OVERHEAD CROSSING	UTILITIES	OUX-25	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	
SECTION 3/4A	OVERHEAD CROSSING (NF DUCTS)	UTILITIES	UUX-56B	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	
SECTION 3/4A	OVERHEAD CROSSING (NF DUCTS)	UTILITIES	UUX-57B	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	N	Y	
SECTION 4A	OVERHEAD CROSSING	UTILITIES	OUX-29	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	OUX-29A
SECTION 4A/4B	OVERHEAD CROSSING	UTILITIES	OUX-30	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	
SECTION 4B	OVERHEAD CROSSING	UTILITIES	UUX-55	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	OUX-55A
SECTION 4B	OVERHEAD CROSSING	UTILITIES	OUX-31	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	
SECTION 4B	OVERHEAD CROSSING	UTILITIES	OUX-32	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	
SECTION 5	OVERHEAD CROSSING	UTILITIES	OUX-36	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	
SECTION 5/6	OVERHEAD CROSSING	UTILITIES	OUX-39	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	OUX-39A; OUX-39B
SECTION 6	OVERHEAD CROSSING	UTILITIES	OUX-42	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	
SECTION 6	OVERHEAD CROSSING	UTILITIES	OUX-43	OPENREACH TELECOMS LINE	OVERHEAD	Y	P	
SECTION 6/7	OVERHEAD CROSSING	UTILITIES	OUX-45	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	P	Y	OUX-45A
SECTION 6/7	OVERHEAD CROSSING	UTILITIES	OUX-46	OPENREACH TELECOMS LINE	OVERHEAD	N	Y	OUX-46A
400kV Route	OVERHEAD CROSSING	UTILITIES	OUX-47	132kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	
400kV Route	OVERHEAD CROSSING	UTILITIES	OUX-48	132kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	Y	P	

**Table 6: Other obstacle crossings**

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID	OBSTACLE DETAILS	OVERHEAD BURIED SURFACE	TRENCHING	TRENCHLESS-HDD	ASSOCIATED HAUL ROAD CROSSINGS
LANDFALL	OTHER CROSSING	OOX-01	SEA DEFENCE (SLOPING MASONRY, WALL)	SURFACE	N	Y	
LANDFALL	OTHER CROSSING	OOX-02	FRINTON GOLF COURSE WITH COMPLEX DRAINAGE AND IRRIGATION SYSTEM	SURFACE	N	Y	
LANDFALL	OTHER CROSSING	OOX-03	HOLLAND HAVEN MARCHES SSSI	SURFACE	N	Y	



**Table 7: Underground Utility Crossings**

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 1	UNDERGROUND UTILITIES CROSSING	UUX-03	TELECOMS LINE - AFFINITY WATER	BURIED	N	Y	UUX-03A
SECTION 1	UNDERGROUND UTILITIES CROSSING	UUX-04	375mm ASBESTOS CEMENT WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-04A
SECTION 1	UNDERGROUND UTILITIES CROSSING	UUX-14	ABANDONED WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 1	UNDERGROUND UTILITIES CROSSING	UUX-15	125mm MDPE WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 1	UNDERGROUND UTILITIES CROSSING	UUX-16	AFFINITY WATER MAIN	BURIED	N	Y	
SECTION 1	UNDERGROUND UTILITIES CROSSING	UUX-17	LOW PRESSURE GAS MAIN - CADENT GAS	BURIED	N	Y	
SECTION 1	UNDERGROUND UTILITIES CROSSING	UUX-19	INTERMEDIATE PRESSURE GAS MAIN - CADENT GAS	BURIED	P	Y	
SECTION 2	UNDERGROUND UTILITIES CROSSING	UUX-23	525mm SI WATER MAIN - AFFINITY WATER	BURIED	P	Y	
SECTION 2	UNDERGROUND UTILITIES CROSSING	UUX-103	AFFINITY WATER MAIN	BURIED	P	Y	
SECTION 2	UNDERGROUND UTILITIES CROSSING	UUX-102	TELECOMS LINE - AFFINITY WATER	OVERHEAD	P	Y	
SECTION 2	UNDERGROUND UTILITIES CROSSING	UUX-22	CABLE - AFFINITY WATER	BURIED	P	Y	
SECTION 2	UNDERGROUND UTILITIES CROSSING	UUX-24	IRRIGATION PIPE	BURIED	P	Y	
SECTION 2	UNDERGROUND UTILITIES CROSSING	UUX-25	IRRIGATION PIPE	BURIED	N	Y	
SECTION 2/3	UNDERGROUND UTILITIES CROSSING	UUX-28	OPENREACH TELECOMS LINE	BURIED	N	Y	
SECTION 2/3	UNDERGROUND UTILITIES CROSSING	UUX-29	OPENREACH TELECOMS DUCT	BURIED	N	Y	
SECTION 2/3	UNDERGROUND UTILITIES CROSSING	UUX-31	ABANDONED WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 2/3	UNDERGROUND UTILITIES CROSSING	UUX-33	180mm HPPE WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 2/3	UNDERGROUND UTILITIES CROSSING	UUX-101	AFFINITY WATER MAIN	BURIED	N	Y	
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-100	OPENREACH TELECOMS LINE	BURIED	N	Y	
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-99	TELECOMS LINE - AFFINITY WATER	BURIED	N	Y	UUX-99A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-35	CABLE - AFFINITY WATER	BURIED	N	Y	UUX-35A



SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-36	525mm SI WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-36A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-98	AFFINITY WATER MAIN	BURIED	N	Y	UUX-98A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-37	250mm PVC WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-37A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-97	AFFINITY WATER MAIN	BURIED	N	Y	UUX-97A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-38	ABANDONED WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-38A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-96	OPENREACH TELECOMS LINE	BURIED	N	Y	UUX-96A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-39	ABANDONED WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-39A
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-95	OPENREACH TELECOMS LINE - PROPOSED	BURIED	N	Y	
SECTION 3	UNDERGROUND UTILITIES CROSSING (NF DUCTS)	UUX-95A	OPENREACH TELECOMS LINE	BURIED	N	Y	
SECTION 3/4A	UNDERGROUND UTILITIES CROSSING (NF DUCTS)	UUX-93	ABANDONED WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 3/4A	UNDERGROUND UTILITIES CROSSING (NF DUCTS)	UUX-92	AFFINITY WATER MAIN	BURIED	N	Y	
SECTION 3/4A	UNDERGROUND UTILITIES CROSSING (NF DUCTS)	UUX-91	355mm HPPE WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 3/4	UNDERGROUND UTILITIES CROSSING (NF DUCTS)	UUX-49	150mm PVC WATER MAIN - AFFINITY WATER	BURIED	Y	P	
SECTION 3/4	UNDERGROUND UTILITIES CROSSING (NF DUCTS)	UUX-49A	AFFINITY WATER MAIN	BURIED	Y	P	
SECTION 3/4A	UNDERGROUND UTILITIES CROSSING	UUX-44	AFFINITY WATER MAIN	BURIED	N	Y	
SECTION 3/4A	UNDERGROUND UTILITIES CROSSING	UUX-94	125mm MDPE WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 3/4A	UNDERGROUND UTILITIES CROSSING	UUX-45	355mm HPPE WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 3/4	UNDERGROUND UTILITIES CROSSING	UUX-46	AFFINITY WATER MAIN	BURIED	N	Y	
SECTION 3/4	UNDERGROUND UTILITIES CROSSING	UUX-48	ABANDONED WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-52	AFFINITY WATER MAIN	BURIED	P	Y	UUX-52A, UUX-52B

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-53	525mm SI WATER MAIN - AFFINITY WATER	BURIED	P	Y	UUX-53A, UUX-53B
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-54	CABLE - AFFINITY WATER	BURIED	P	Y	UUX-54A, UUX-54B
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-88	TELECOMS LINE - AFFINITY WATER	BURIED	P	Y	UUX-88A, UUX-88B
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-56	CABLE - AFFINITY WATER	BURIED	N	Y	UUX-56A
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-87	TELECOMS LINE - AFFINITY WATER	BURIED	N	Y	UUX-87A
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-57	AFFINITY WATER MAIN	BURIED	N	Y	UUX-57A
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-58	450mm SI WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-58A
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-59	IRRIGATION PIPE	BURIED	Y	P	
SECTION 4B/5	UNDERGROUND UTILITIES CROSSING	UUX-61	OPENREACH TELECOMS LINE	BURIED	N	Y	
SECTION 4B/5	UNDERGROUND UTILITIES CROSSING	UUX-62	450mm CI WATER MAIN - AFFINITY WATER	BURIED	N	Y	
SECTION 4B/5	UNDERGROUND UTILITIES CROSSING	UUX-63	AFFINITY WATER MAIN	BURIED	N	Y	
SECTION 4B/5	UNDERGROUND UTILITIES CROSSING	UUX-65	IRRIGATION PIPE	BURIED	N	Y	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-66	IRRIGATION PIPE	BURIED	Y	P	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-86	IRRIGATION PIPE	BURIED	P	Y	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-69	ASBESTOS DISTRIBUTION MAIN - AFFINITY WATER	BURIED	P	Y	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-70	400mm AC WATER MAIN - AFFINITY WATER	BURIED	P	Y	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-71	CABLE - AFFINITY WATER	BURIED	P	Y	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-85	TELECOMS LINE - AFFINITY WATER	BURIED	P	Y	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-108	AFFINITY WATER MAIN	BURIED	N	Y	UUX-108A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-78	OPENREACH TELECOMS LINE	BURIED	N	Y	UUX-78A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-107	250mm HPPE WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-107A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-106	CABLE - AFFINITY WATER	BURIED	N	Y	UUX-106A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-105	TELECOMS LINE - AFFINITY WATER	BURIED	N	Y	UUX-105A



SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-82	AFFINITY WATER MAIN	BURIED	N	Y	UUX-82A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-104	525mm CI WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-104A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-73	500mm DI WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-73A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-74	AFFINITY WATER MAIN	BURIED	N	Y	UUX-74A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-75	TELECOMS LINE - AFFINITY WATER	BURIED	N	Y	UUX-75A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-76	CABLE - AFFINITY WATER	BURIED	N	Y	UUX-76A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-77	ABANDONED WATER MAIN - AFFINITY WATER	BURIED	N	Y	UUX-77A
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-83	UNDERGROUND WATERMAIN AND PUMP	BURIED	Y	P	
SECTION 5	UNDERGROUND UTILITIES CROSSING	UUX-84	PRIVATE ELECTRICAL CABLE AND IRRIGATION MAIN	BURIED	Y	P	
400kV Route	UNDERGROUND UTILITIES CROSSING	UUX-113	OPENREACH TELECOMS LINE	BURIED	N	Y	
400kV Route	UNDERGROUND UTILITIES CROSSING	UUX-114	OPENREACH TELECOMS LINE	BURIED	N	Y	

**Table 8: Environmental feature crossings**

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-6A	HEDGEROW	SURFACE	N	Y	
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-01	HEDGEROW	SURFACE	N	Y	EOX-01A
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-02	HEDGEROW / MATURE TREES ALONG SIDE ROAD	SURFACE	N	Y	EOX-02A, EOX-02B
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-02C	HEDGEROW / MATURE TREES ALONG SIDE ROAD	SURFACE	N	Y	EOX-02E
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-02D	HEDGEROW	SURFACE	P	Y	
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-6	HEDGEROW / MATURE TREES ALONG SIDE ROAD	SURFACE	N	Y	
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-7	HEDGEROW / MATURE TREES ALONG SIDE ROAD	SURFACE	N	Y	
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-08	HEDGEROW	SURFACE	N	Y	EOX-08A, EOX-08B (NF DUCTS)
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-11	HEDGEROW	SURFACE	N	Y	
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-12	HEDGEROW	SURFACE	N	Y	
SECTION 1	ENVIRONMENTAL OBSTACLE CROSSING	EOX-16/17	HEDGEROW / MATURE TREES	SURFACE	N	Y	
SECTION 1/2	ENVIRONMENTAL OBSTACLE CROSSING (NF DUCTS)	EOX-107	WOODLAND BLOCK	SURFACE	N	Y	
SECTION 1/2	ENVIRONMENTAL OBSTACLE CROSSING	EOX-19	MATURE TREES/DENSE VEGETATION ALONG RAILWAY	SURFACE	N	Y	
SECTION 1/2	ENVIRONMENTAL OBSTACLE CROSSING	EOX-20	MATURE TREES/DENSE VEGETATION ALONG RAILWAY	SURFACE	N	Y	
SECTION 2	ENVIRONMENTAL OBSTACLE CROSSING	EOX-25	PORK LANE GROVE WOODLAND AND HEDGEROW TO THE EAST	SURFACE	N	Y	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-29	HEDGEROW	SURFACE	Y	P	

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-32	MATURE TREES	SURFACE	P	Y	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-33	HEDGEROW	SURFACE	N	Y	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-35	HEDGEROW/MATURE TREES	SURFACE	Y	P	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-36	WOODLAND / HEDGEROW	SURFACE	N	Y	EOX-37
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-39	HEDGEROW	SURFACE	P	Y	EOX-39A, EOX-39C EOX-39B,
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-40	HEDGEROW	SURFACE	Y	P	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-41	HEDGEROW	SURFACE	N	Y	EOX-41B
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-108	HEDGEROW	SURFACE	N	Y	EOX-108B
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-42	HEDGEROW/MATURE TREES	SURFACE	Y	P	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-44	HEDGEROW/MATURE TREES	SURFACE	Y	P	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-46	HEDGEROW ALONG GOLDEN LN	SURFACE	N	Y	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-47	HEDGEROW ALONG GOLDEN LN	SURFACE	N	Y	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-48	HEDGEROW	SURFACE	N	Y	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-49	HEDGEROW/MATURE TREES	SURFACE	N	Y	EOX-49A (REMOTE FROM CABLE CORRIDOR)
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-52	HEDGEROW/MATURE TREES	SURFACE	N	Y	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-55A	HEDGEROW/TREES	SURFACE	Y	P	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-55	HEDGEROW/TREES	SURFACE	Y	P	
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-109	HEDGEROW / TREES ALONG WATERCOURSE	SURFACE	P	Y	

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
	(NF DUCTS)						
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-110	MATURE TREES	SURFACE	N	Y	
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-111	HEDGEROW	SURFACE	N	Y	
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-62	POND	SURFACE	N	Y	
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-61	HEDGEROW	SURFACE	N	Y	
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-66	HEDGEROW ALONG THORPE RD	SURFACE	N	Y	
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-67	HEDGEROW ALONG THORPE RD	SURFACE	N	Y	
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING (NF DUCTS)	EOX-112	WOODLAND BLOCK	SURFACE	N	Y	
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING (NF DUCTS)	EOX-113	HEDGEROW ALONG SWAN RD	SURFACE	N	Y	
SECTION 4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-69	HEDGEROW/MATURE TREES	SURFACE	Y	P	
SECTION 4A	ENVIRONMENTAL OBSTACLE CROSSING (NF DUCTS)	EOX-69A	HEDGEROW/MATURE TREES	SURFACE	Y	P	
SECTION 4A	ENVIRONMENTAL OBSTACLE CROSSING	EOX-70	HEDGEROW/MATURE TREES	SURFACE	N	Y	
SECTION 4A/4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-71	MATURE TREES ALONG TENDRING BROOK	SURFACE	N	Y	
SECTION 4A/4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-73	HEDGEROW/MATURE TREES ALONG LODGE LN	SURFACE	N	Y	
SECTION 4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-74	HEDGEROW/MATURE TREES	SURFACE	N	Y	
SECTION 4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-76	HEDGEROW ALONG WOLVES HALL LN	SURFACE	N	Y	
SECTION 4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-77	HEDGEROW/MATURE TREES	SURFACE	Y	P	

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	TRENCHED?	TRENCHLESS?	ASSOCIATED HAUL ROAD CROSSINGS
SECTION 4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-81	HEDGEROW ALONG STONE GREEN RD	SURFACE	N	Y	EOX-81A, EOX-81B (NF DUCTS)
SECTION 4B/5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-103	HEDGE ALONG THE A120	SURFACE	N	Y	
SECTION 4B/5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-104	HEDGE ALONG THE A120	SURFACE	N	Y	
SECTION 5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-105	HEDGEROW / MATURE TREES	SURFACE	N	P (or may be avoided)	
SECTION 5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-106	HEDGEROW	SURFACE	P	Y	
SECTION 5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-86	HEDGEROW ALONG CLACTON ROAD	SURFACE	N	Y	EOX-86A
SECTION 5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-88	HEDGEROW/MATURE TREES	SURFACE	N	Y	
SECTION 5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-91	HEDGEROW/MATURE TREES	SURFACE	Y	P	
SECTION 5	ENVIRONMENTAL OBSTACLE CROSSING	EOX-92	HEDGEROW/MATURE TREES	SURFACE	P	Y	
SECTION 5/6	ENVIRONMENTAL OBSTACLE CROSSING	EOX-99	TREES ALONG BENTLEY RD	SURFACE	N	Y	
SECTION 6	ENVIRONMENTAL OBSTACLE CROSSING	EOX-102	HEDGEROW ALONG SPRATS LN	SURFACE	Y	P	
SECTION 6	ENVIRONMENTAL OBSTACLE CROSSING	EOX-103C	HEDGEROW/MATURE TREES	SURFACE	Y	P	
400kV Route	ENVIRONMENTAL OBSTACLE CROSSING	EOX-114	HEDGEROW/MATURE TREES	SURFACE	N	Y	



**Table 9: Haul Road Crossings**

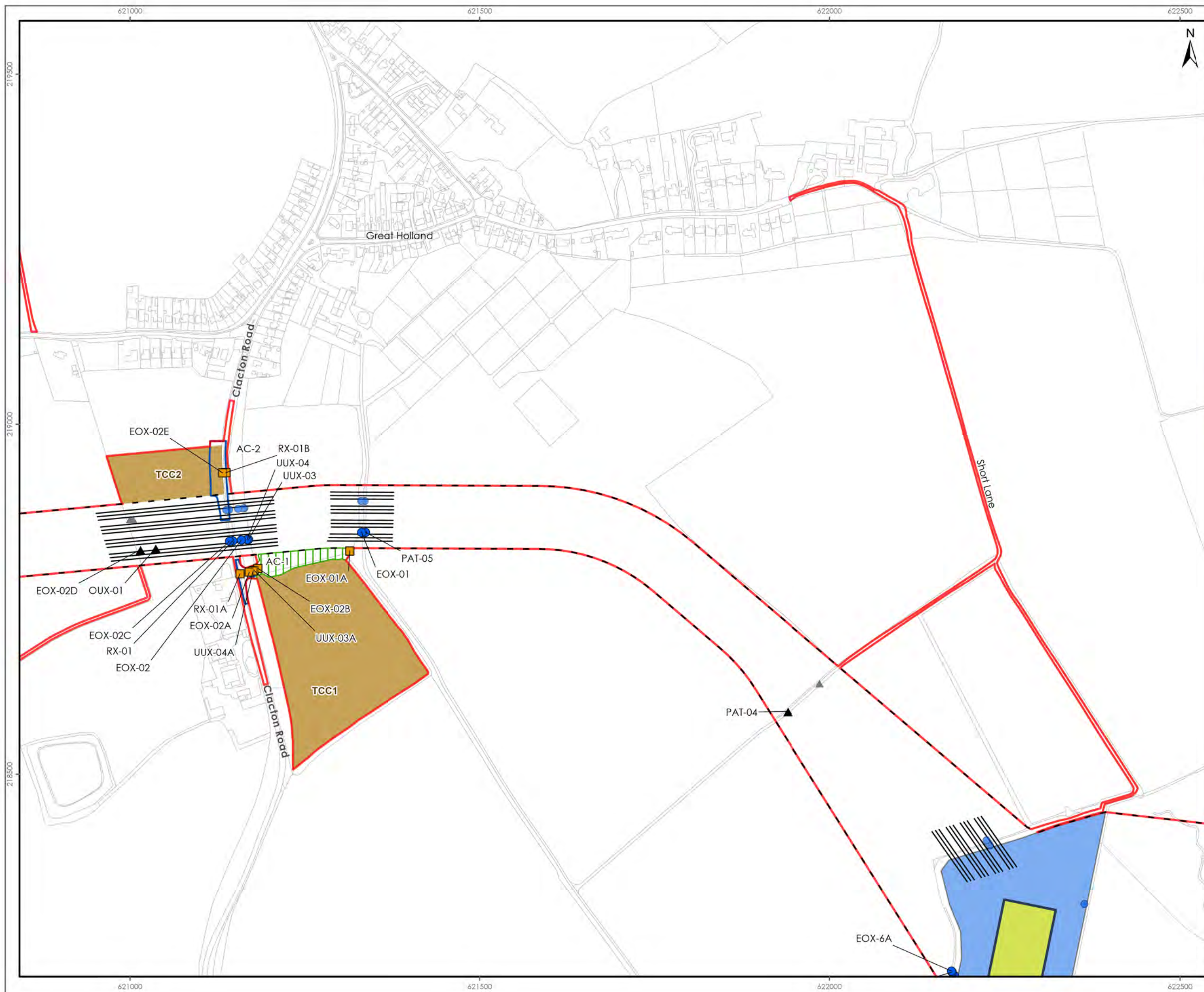
SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	COMMENTS
SECTION 4B	ROAD	RX-22A	B1035	SURFACE	ASSOCIATED WITH ACCESS OFF B1035 INTO TCC #6
SECTION 4B	ROAD	RX-22B	B1035	SURFACE	ASSOCIATED ACCESS OFF B1035 INTO TCC #6
SECTION 3	WATERCOURSE CROSSING	WX-19A	WATERCOURSE	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 6/7	WATERCOURSE CROSSING	WX-15A	WATERCOURSE	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL SOUTH OF ARDLEIGH ROAD
SECTION 3	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-20	PUBLIC FOOTPATH - FP7 180	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL ROAD AT LANDEMERE ROAD
SECTION 3	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-22	PUBLIC FOOTPATH - FP4 180	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 4B	FOOTPATH, BRIDLEWAY OR OTHER TRACK CROSSING	PAT-38	PUBLIC FOOTPATH - FP15 183	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL CONNECTING TCC #6 TO CABLE CORRIDOR
SECTION 4B	OVERHEAD UTILIES CROSSING	OUX-33A	11kV ELECTRICITY LINE - UK POWER NETWORKS	OVERHEAD	ASSOCIATED WITH OFF ROUTE HAUL CONNECTING TCC #6 TO CABLE CORRIDOR
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-95C	CABLE - AFFINITY WATER	BURIED	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-95A	TELECOMS LINE - AFFINITY WATER	BURIED	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-95B	525mm SI WATER MAIN - AFFINITY WATER	BURIED	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 3	UNDERGROUND UTILITIES CROSSING	UUX-95D	AFFINITY WATER MAIN	BURIED	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 3	UNDERGROUND UTILITIES CROSSING (NF DUCTS)	UUX-95E	TELECOMS LINE - AFFINITY WATER	BURIED	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 4A/4B	UNDERGROUND UTILITIES CROSSING	UUX-48A	150mm PVC WATER MAIN - AFFINITY WATER	BURIED	WITHIN TCC #5
SECTION 4A/4B	UNDERGROUND UTILITIES CROSSING	UUX-48B	AFFINITY WATER MAIN	BURIED	WITHIN TCC #5
SECTION 4A/4B	UNDERGROUND UTILITIES CROSSING	UUX-48C	AFFINITY WATER MAIN	BURIED	WITHIN TCC #5
SECTION 4A/4B	UNDERGROUND UTILITIES CROSSING	UUX-48D	525mm SI WATER MAIN - AFFINITY WATER	BURIED	WITHIN TCC #5
SECTION 4A/4B	UNDERGROUND UTILITIES CROSSING	UUX-48E	TELECOMS LINE - AFFINITY WATER	BURIED	WITHIN TCC #5
SECTION 4A/4B	UNDERGROUND UTILITIES CROSSING	UUX-48F	CABLE - AFFINITY WATER	BURIED	WITHIN TCC #5
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-61B	TELECOMS LINE - AFFINITY WATER	BURIED	WITHIN TCC #6

SECTION OF CABLE ROUTE	OBSTACLE TYPE	OBSTACLE ID FIVE ESTUARIES CIRCUITS	OBSTACLE DETAILS	OVERHEAD / BURIED / SURFACE	COMMENTS
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-61C	686mm SI WATER MAIN - AFFINITY WATER	BURIED	WITHIN TCC #6
SECTION 4B	UNDERGROUND UTILITIES CROSSING	UUX-61A	OPENREACH TELECOMS LINE	BURIED	ASSOCIATED WITH OFF ROUTE HAUL CONNECTING TCC #6 TO CABLE CORRIDOR
SECTION 2	ENVIRONMENTAL OBSTACLE CROSSING	EOX-23	HEDGEROW	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL ROAD AROUND PORK LANE GROVE WOODLAND
SECTION 2	ENVIRONMENTAL OBSTACLE CROSSING	EOX-26	HEDGEROW	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL ROAD AROUND PORK LANE GROVE WOODLAND
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-49B	HEDGEROW	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 3	ENVIRONMENTAL OBSTACLE CROSSING	EOX-52A	HEDGEROW	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL ROAD NORTH WEST OF GOLDEN LANE
SECTION 3/4A	ENVIRONMENTAL OBSTACLE CROSSING (NF DUCTS)	EOX-67	HEDGEROW ALONG THORPE RD	SURFACE	ASSOCIATED WITH ACCESS FOR SECTION 4B
SECTION 4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-103A	HEDGE ALONG THE B1035	SURFACE	ASSOCIATED WITH ACCESS OFF B1035 INTO TCC #6
SECTION 4B	ENVIRONMENTAL OBSTACLE CROSSING	EOX-103B	HEDGE ALONG THE B1035	SURFACE	ASSOCIATED WITH ACCESS OFF B1035 INTO TCC #6
SECTION 6	ENVIRONMENTAL OBSTACLE CROSSING	EOX-103D	HEDGEROW/MATURE TREES	SURFACE	ASSOCIATED WITH OFF ROUTE HAUL SOUTH OF ARDLEIGH ROAD

















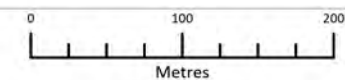






### LEGEND

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|---|--|
|  | Order Limits   |
|  | Onshore Export Cable Corridor                                    |
| Obstacle Crossing Register - Five Estuaries Circuits                                |  |
|  | Committed Trenchless   |
|  | Haul Road Obstacles  |
|  | Trenched, Trenchless or Other (To be Determined at a Later Date) |
| Obstacle Crossing Register - North Falls Ducts                                      |  |
|  | Committed Trenchless   |
|  | Haul Road Obstacles  |
|  | Trenched, Trenchless or Other (To be Determined at a Later Date) |
|  | Trenchless Crossing Indicative Alignment                         |
|  | Temporary Construction Compound                                  |
|  | Off Route Haul Road  |
|  | Access and Crossing Zone   |
|  | Landfall Compound Zone   |
|  | Indicative Landfall Compound                                     |



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PROJECT TITLE:

FIVE ESTUARIES OFFSHORE WINDFARM

DRAWING TITLE:

## ONSHORE OBSTACLE CROSSINGS SECTION 1

VER	DATE	REMARKS	Drawn	Checked
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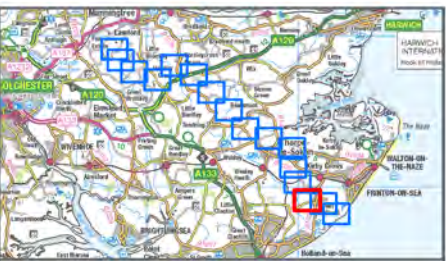
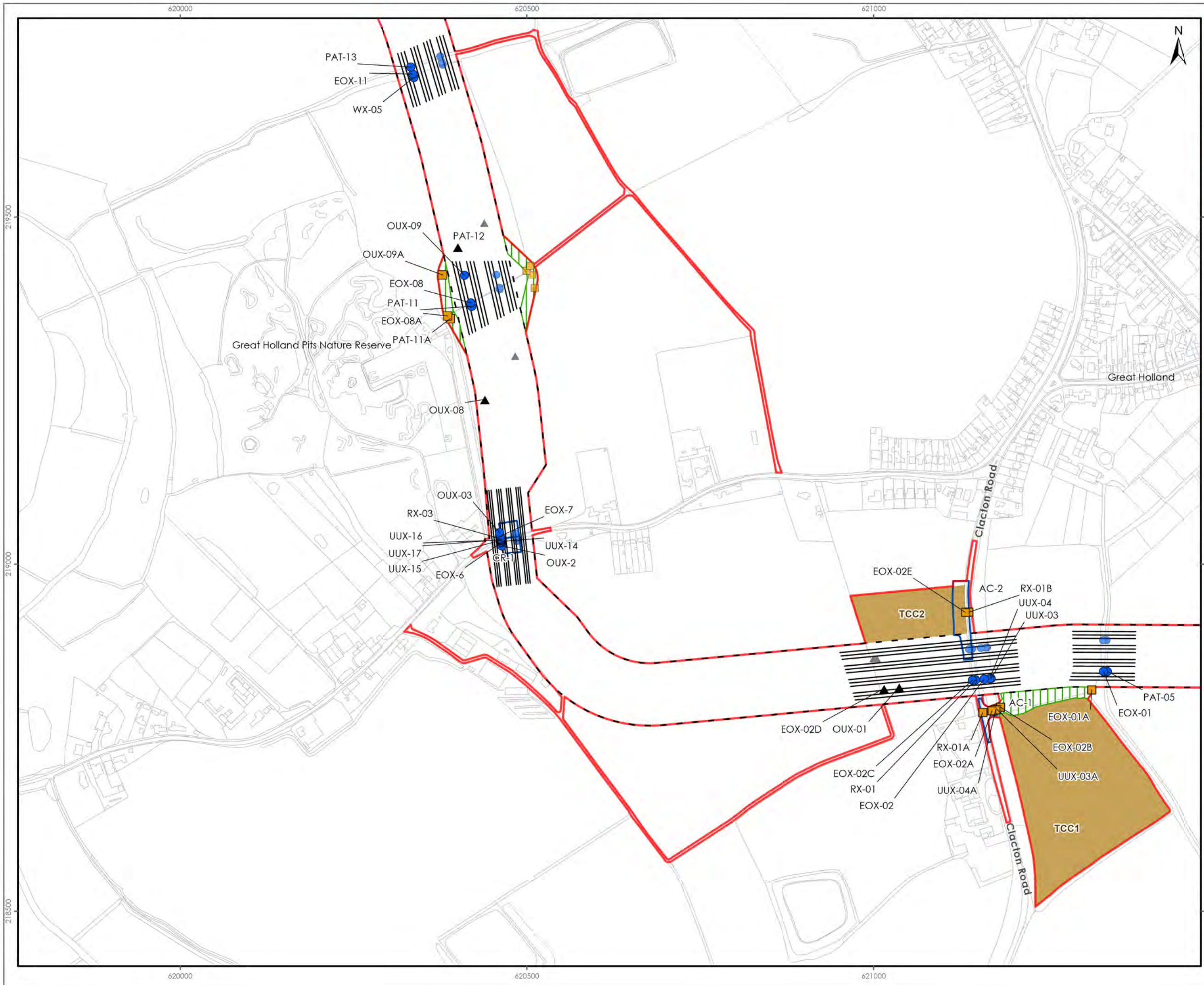
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Sheet No: 2 of 16

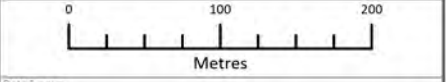
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- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Temporary Construction Compound
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
FIVE ESTUARIES OFFSHORE WINDFARM

DRAWING TITLE:  
ONSHORE OBSTACLE CROSSINGS  
SECTION 1

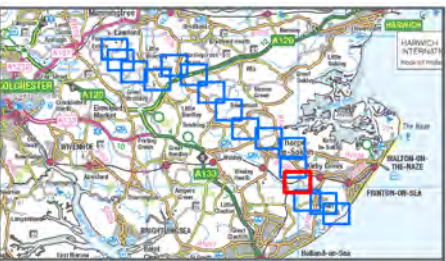
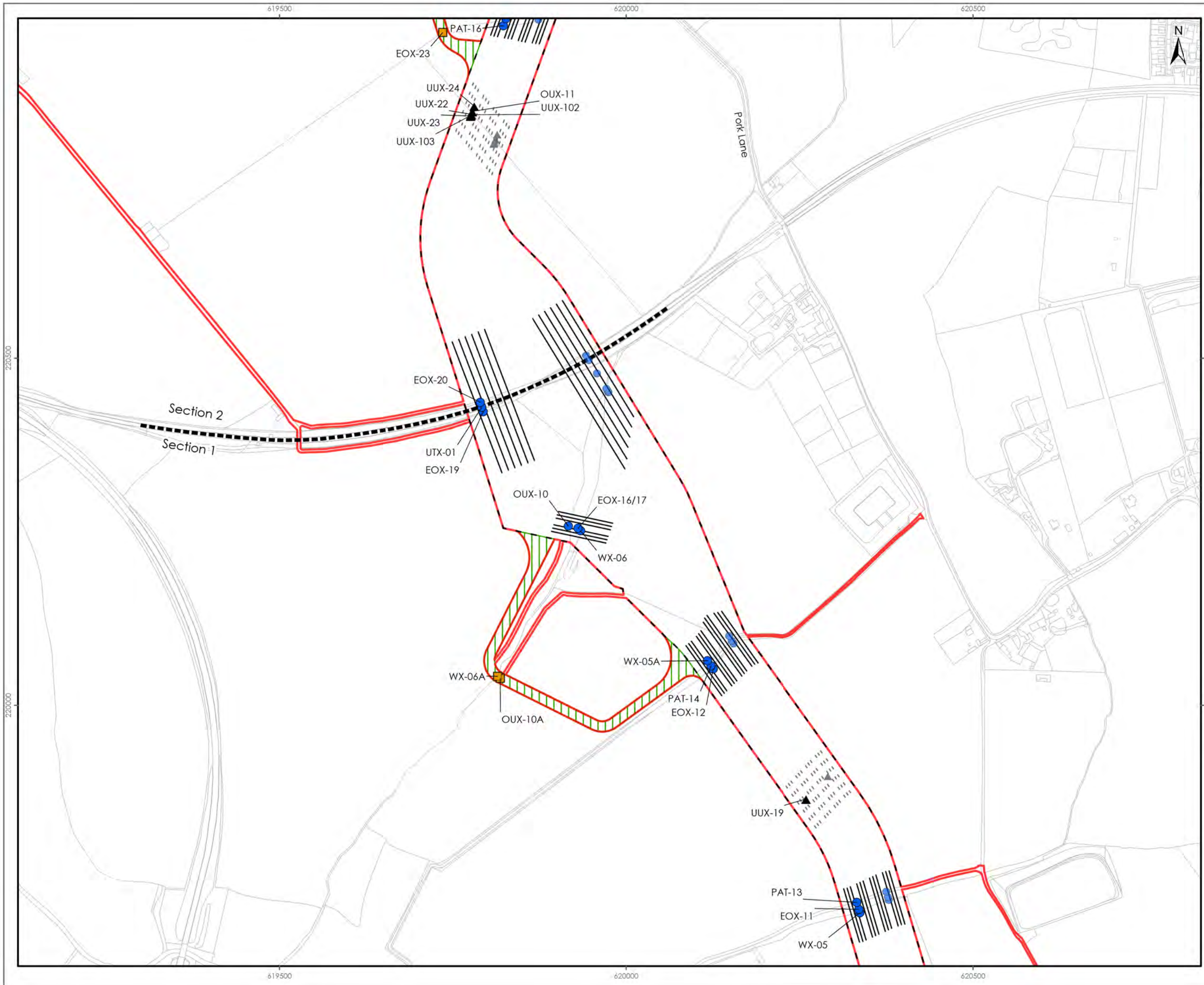
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1	14/02/2024	ES Submission	JO	JRS

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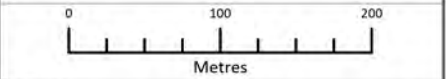
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- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Off Route Haul Road



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS  
SECTIONS 1 AND 2**

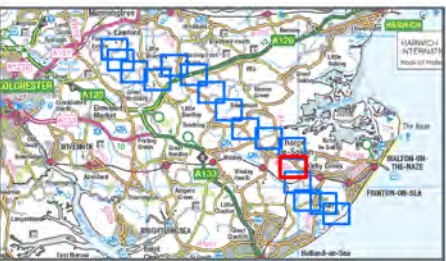
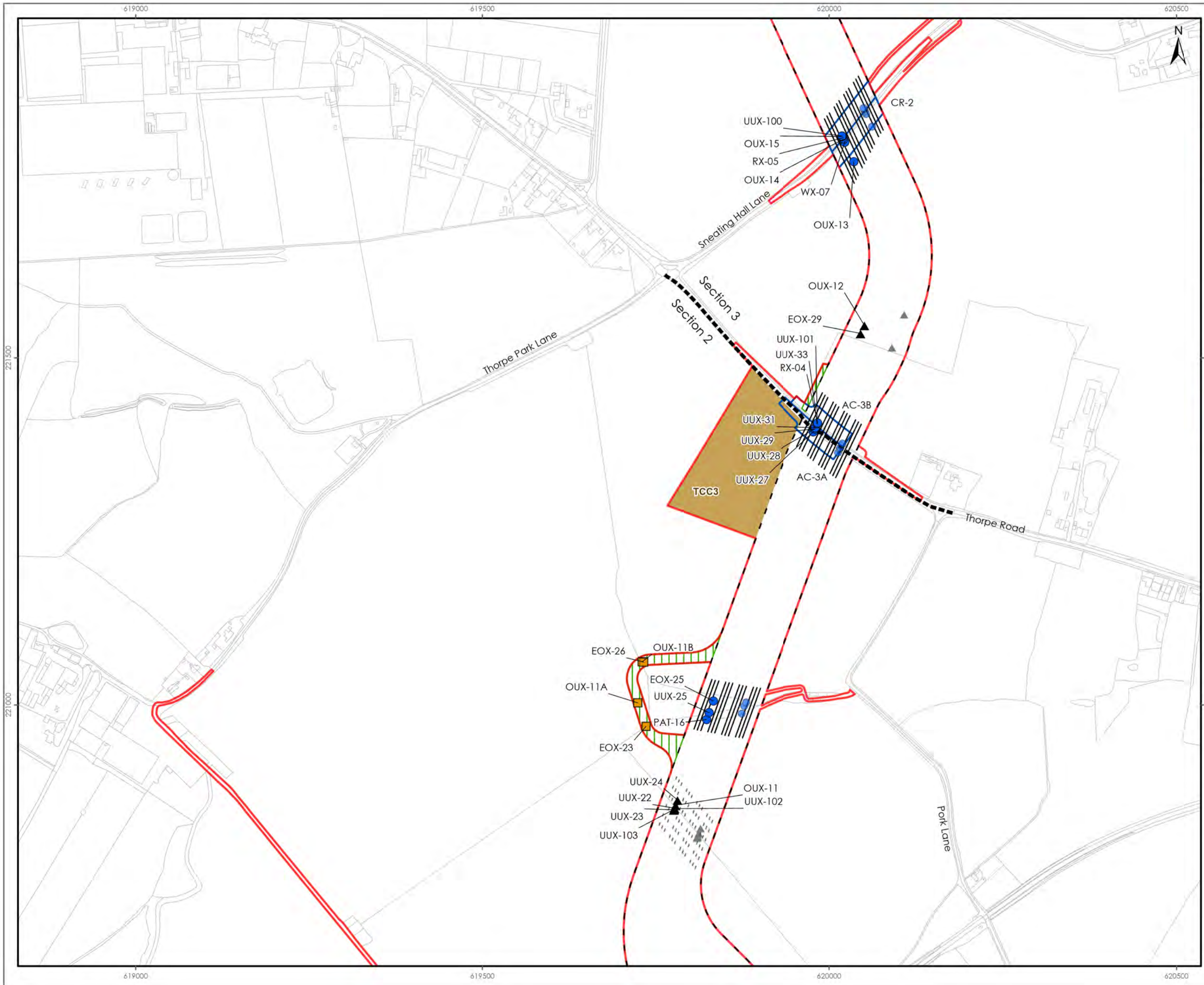
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1	14/02/2024	ES Submission	JO	JRS

DRAWING NUMBER: T.1

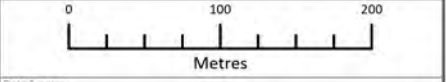
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- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Temporary Construction Compound
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS  
SECTIONS 2 AND 3**

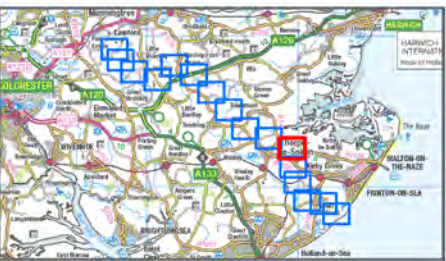
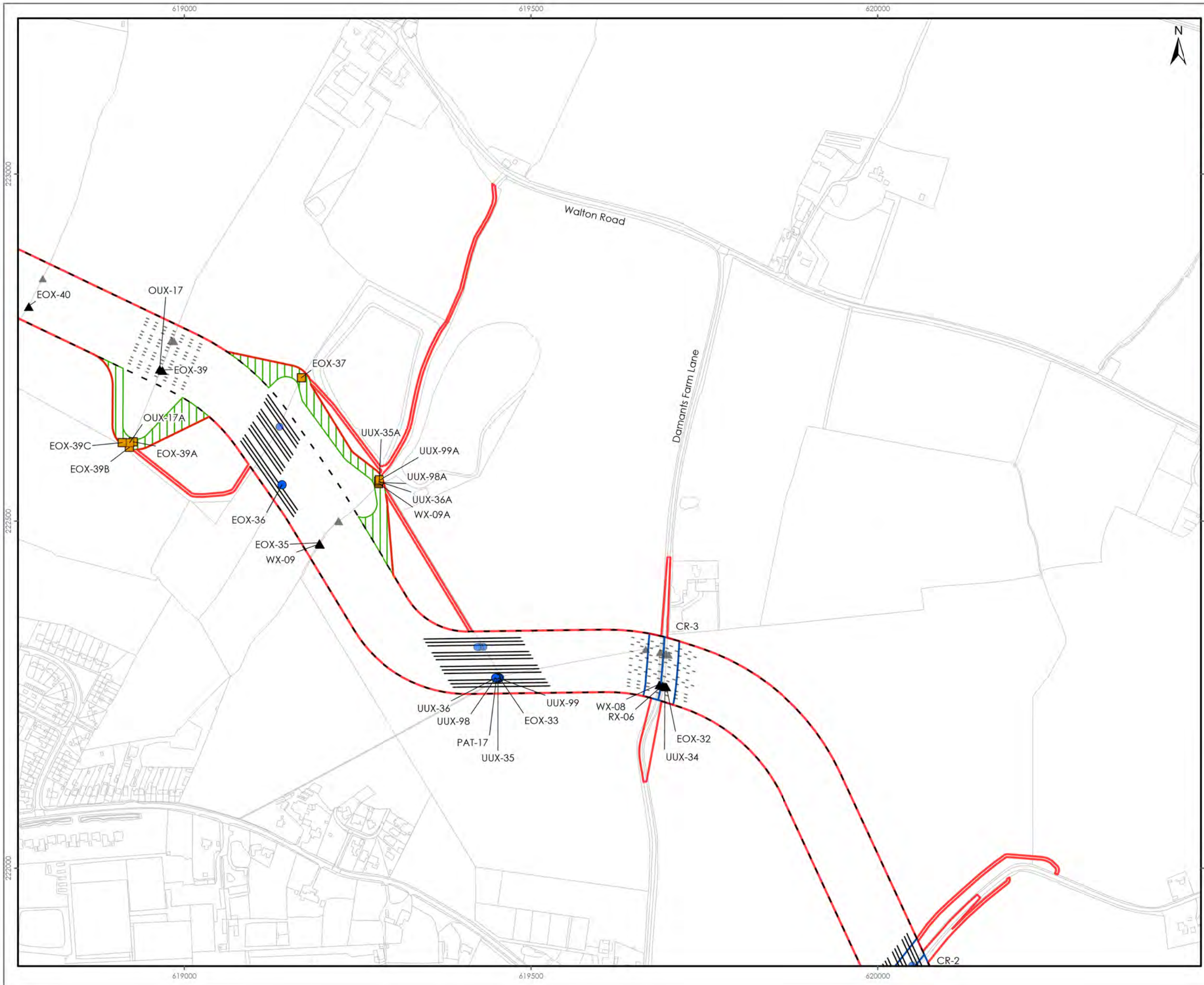
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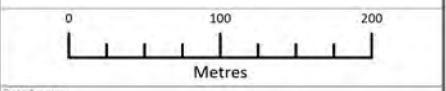
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SCALE: 1:5,000 PLOT SIZE: A3 DATUM: OSG 1936 PROJECTION: British National Grid







- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
FIVE ESTUARIES OFFSHORE WINDFARM

DRAWING TITLE:  
ONSHORE OBSTACLE CROSSINGS  
SECTION 3

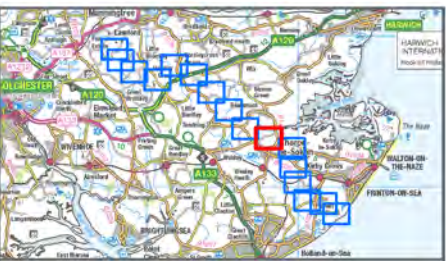
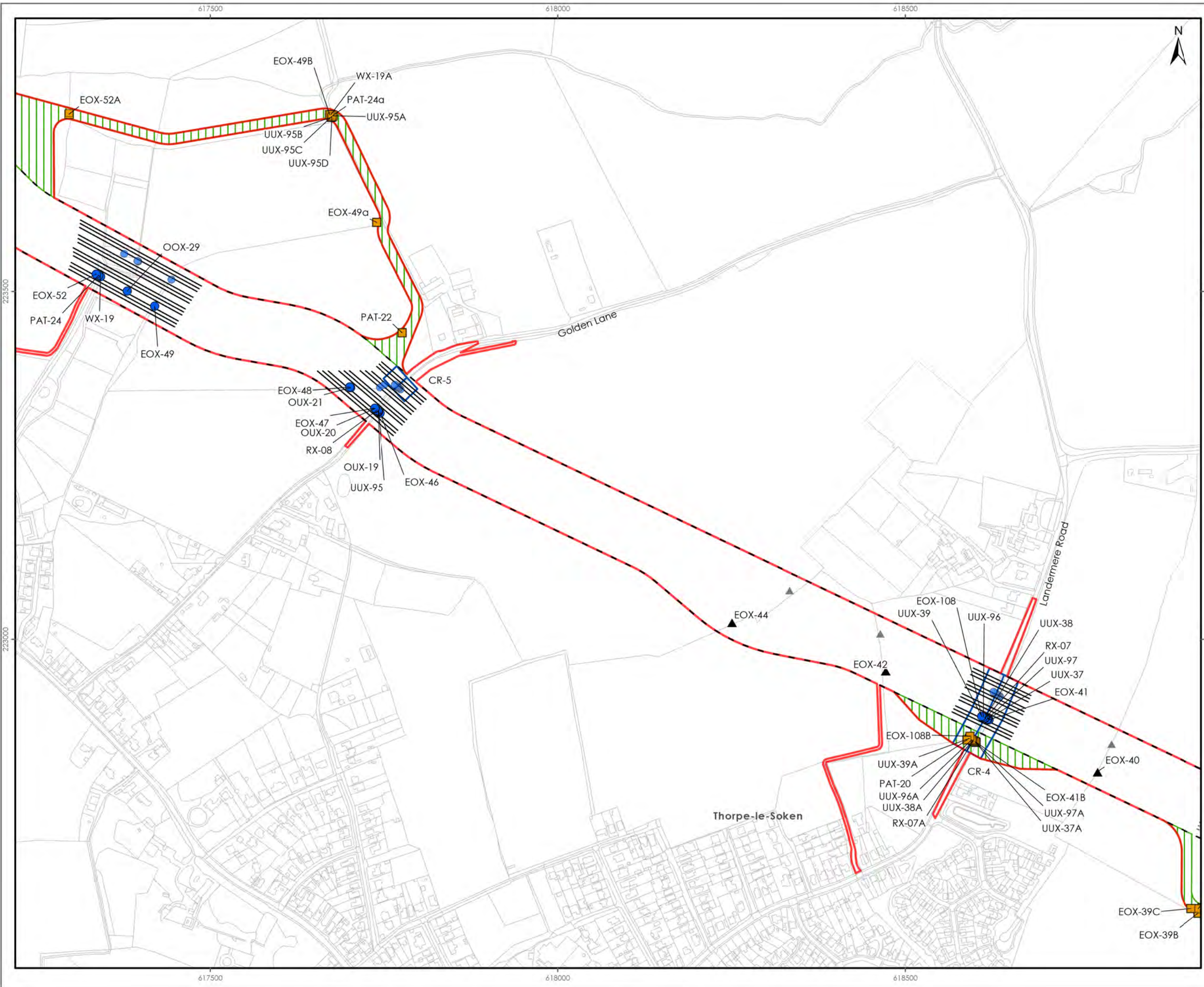
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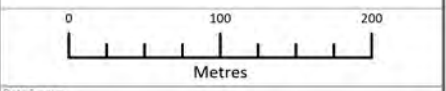
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SCALE: 1:5,000 PLOT SIZE: A3 DATUM: OSG 1936 PROJECTION: British National Grid







- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS SECTION 3**

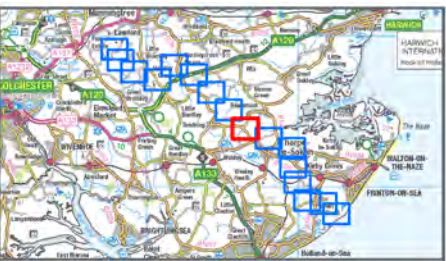
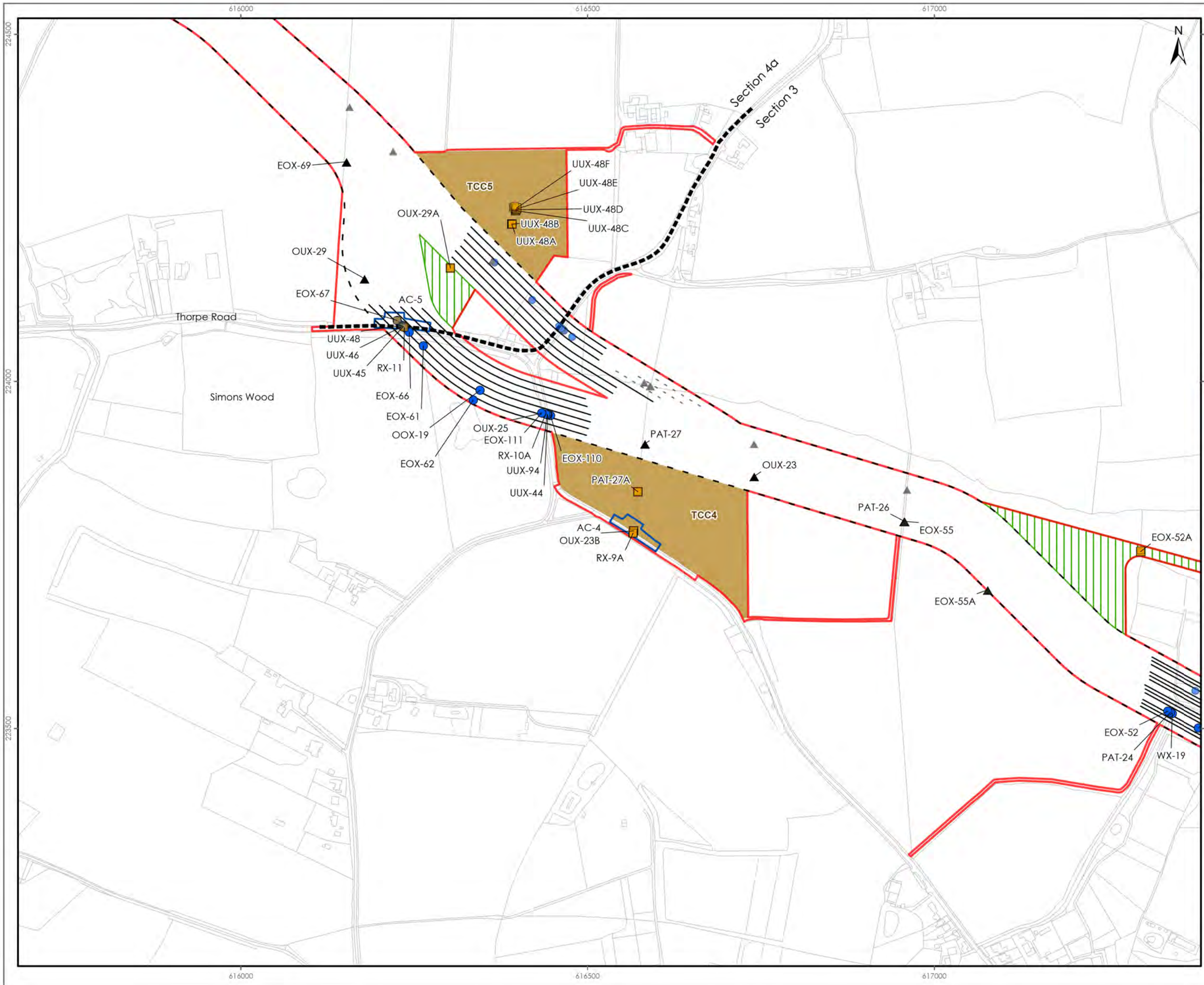
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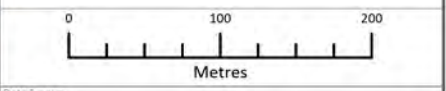
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- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Temporary Construction Compound
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
FIVE ESTUARIES OFFSHORE WINDFARM

DRAWING TITLE:  
ONSHORE OBSTACLE CROSSINGS  
SECTIONS 3 AND 4A

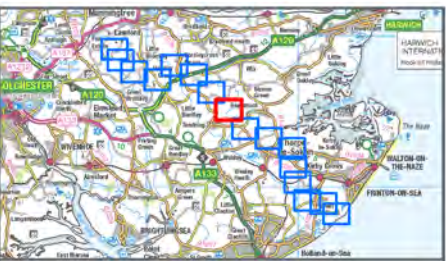
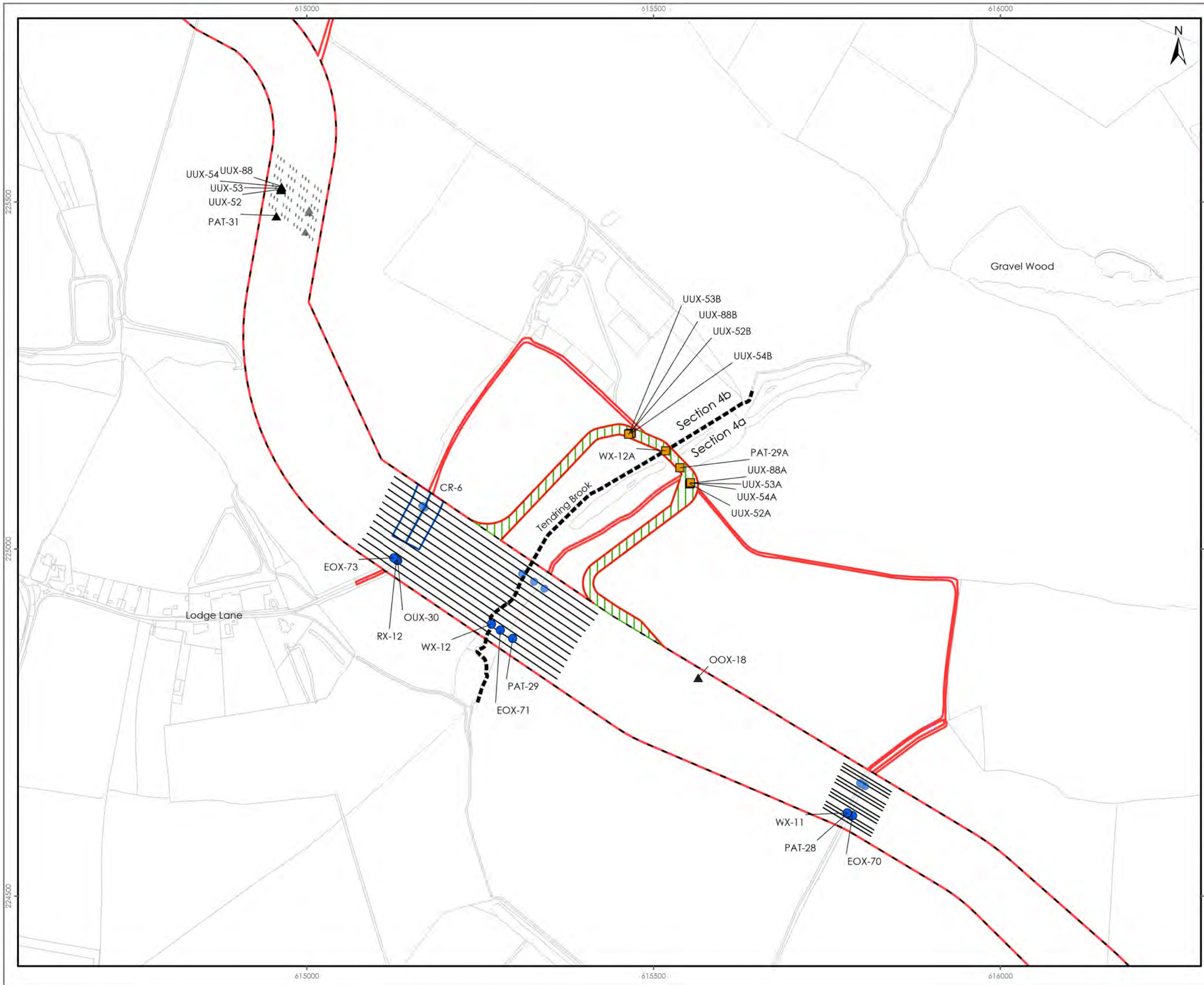
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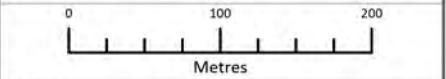
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**FIVE ESTUARIES**  
Offshore Windfarm





- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS  
SECTIONS 4A AND 4B**

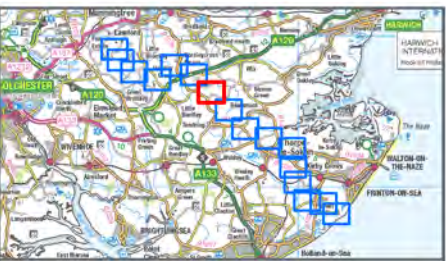
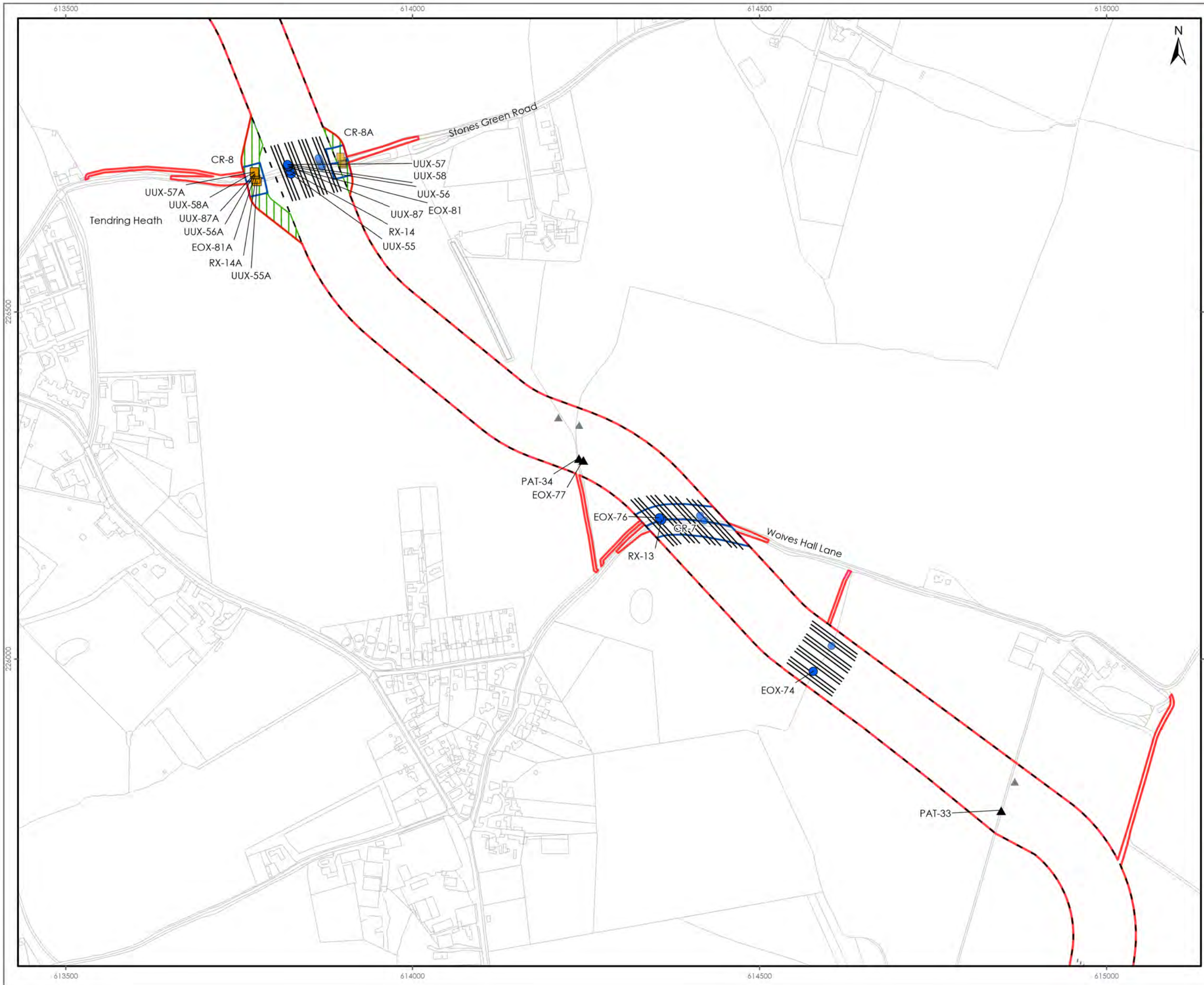
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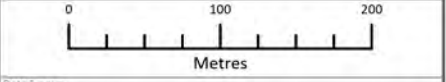
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SCALE: 1:5,000 PLOT SIZE: A3 DATUM: OSG 1936 PROJECTION: British National Grid







- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS  
SECTION 4B**

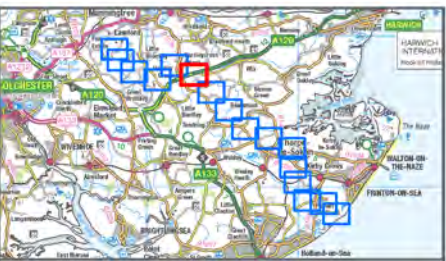
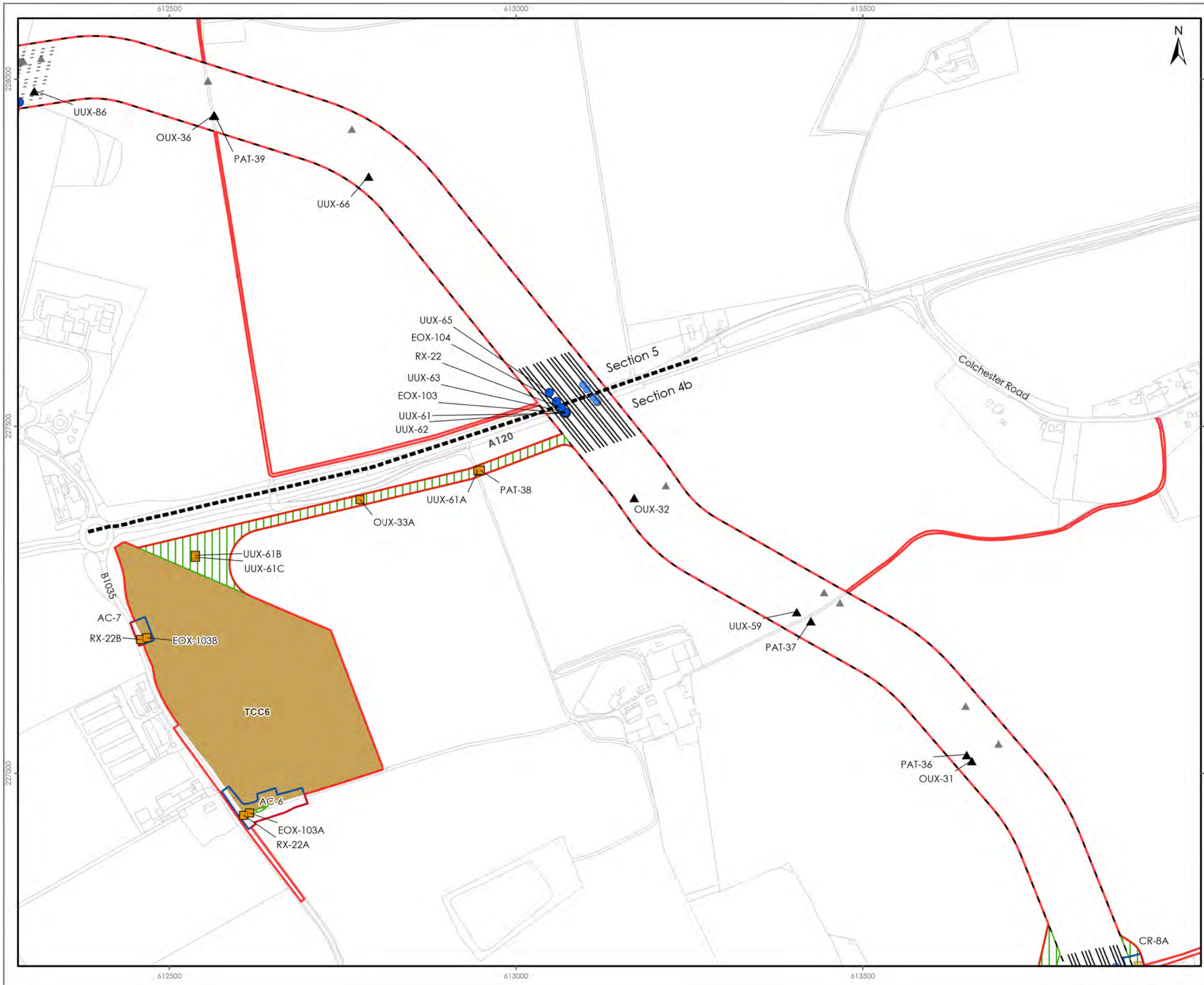
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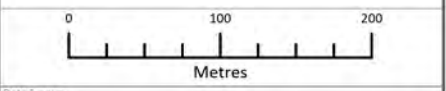
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- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Temporary Construction Compound
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
FIVE ESTUARIES OFFSHORE WINDFARM

DRAWING TITLE:  
ONSHORE OBSTACLE CROSSINGS  
SECTIONS 4B AND 5

VER	DATE	REMARKS	Drawn	Checked
1	14/02/2024	ES Submission	JO	JRS

DRAWING NUMBER: T.1

Sheet No: 11 of 16

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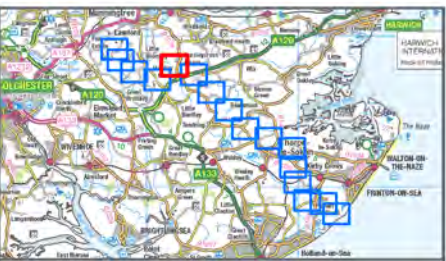
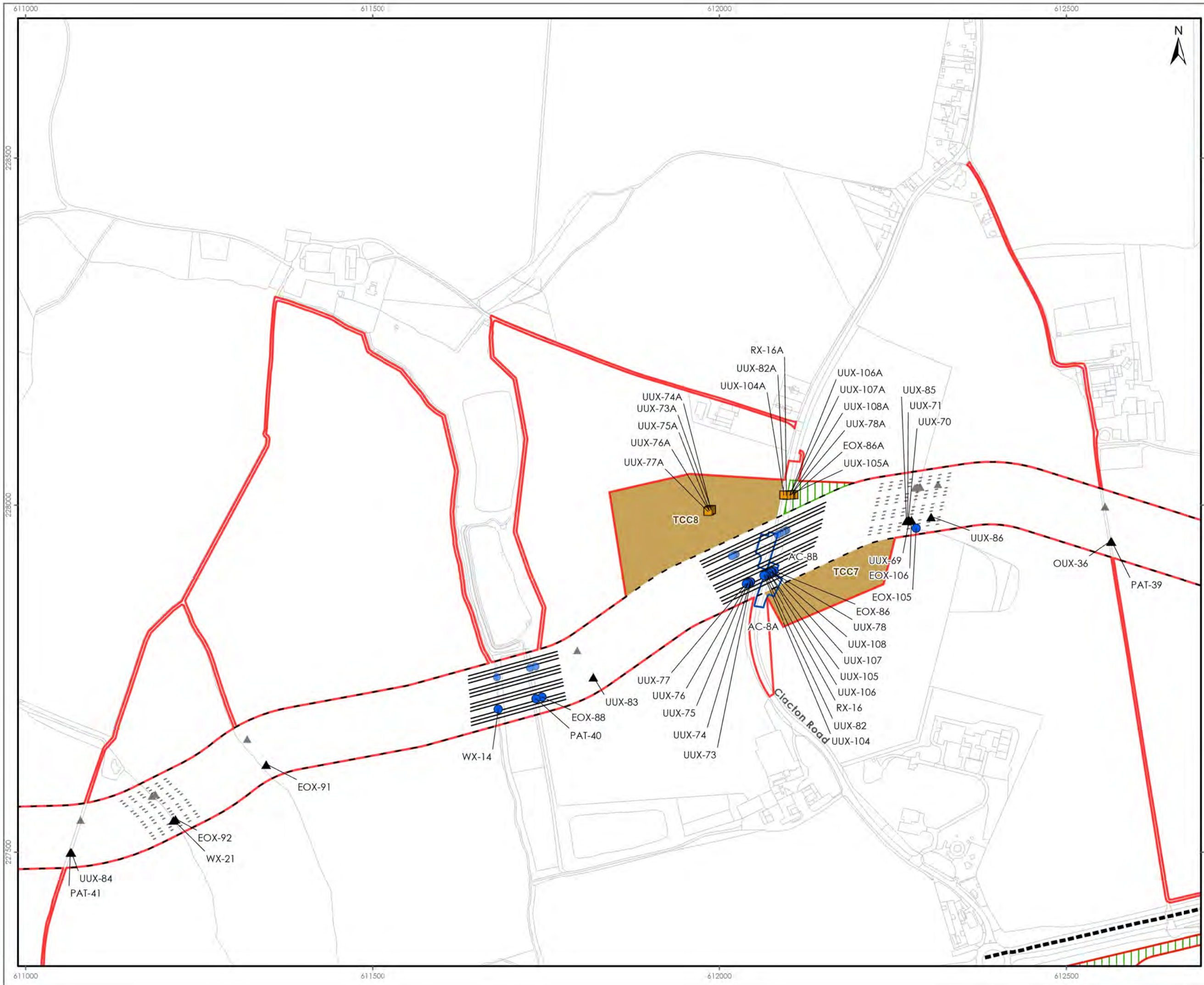
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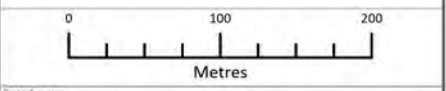
PROJECTION: British National Grid

**FIVE ESTUARIES**  
Offshore Windfarm





- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Temporary Construction Compound
  - Off Route Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS SECTION 5**

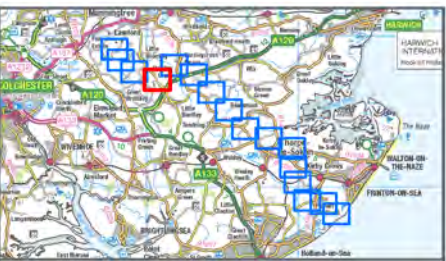
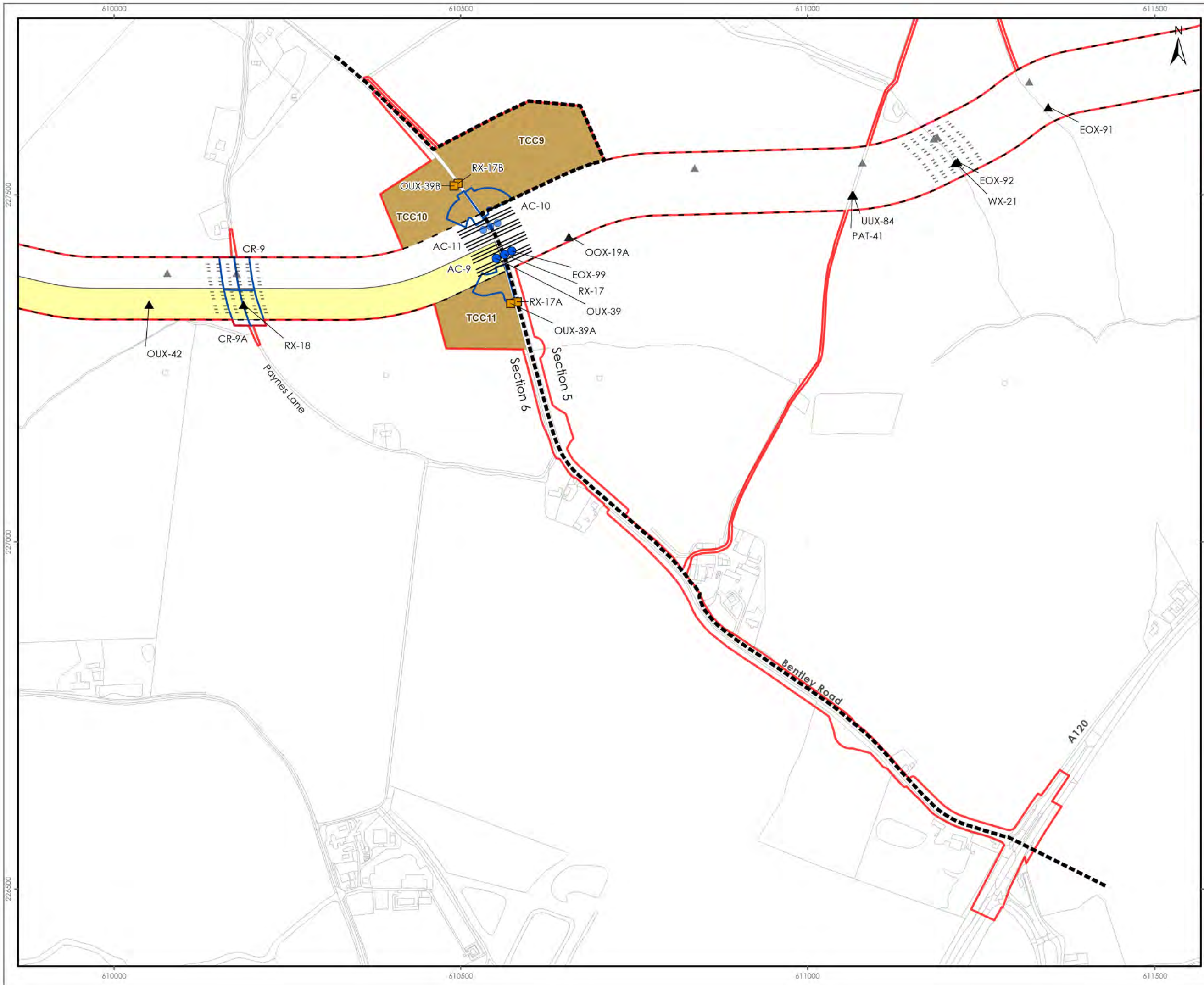
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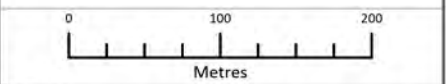
Sheet No: 12 of 16  
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- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Substation Temporary Construction Haul Road
  - Temporary Construction Compound
  - Access and Crossing Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS  
SECTIONS 5 AND 6**

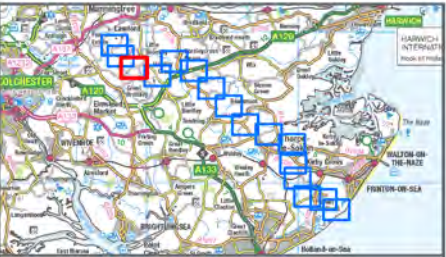
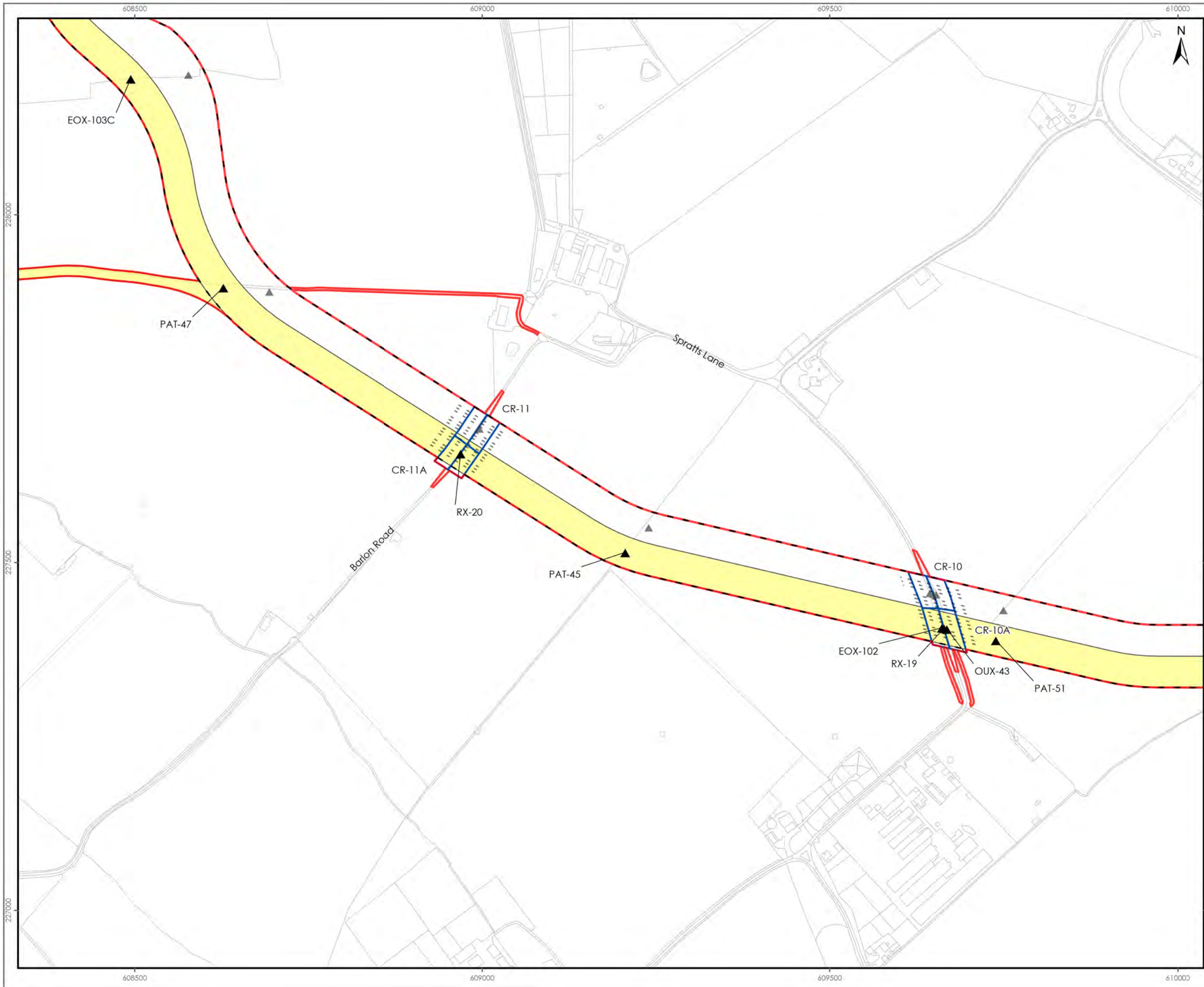
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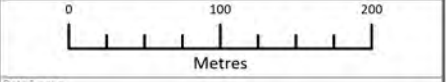
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OSGB 1936  
PROJECTION: British National Grid







- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
    - Trenchless Crossing Indicative Alignment - Non Committed
  - Substation Temporary Construction Haul Road
  - Access and Crossing Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS  
SECTION 6**

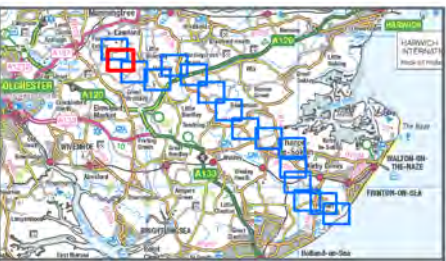
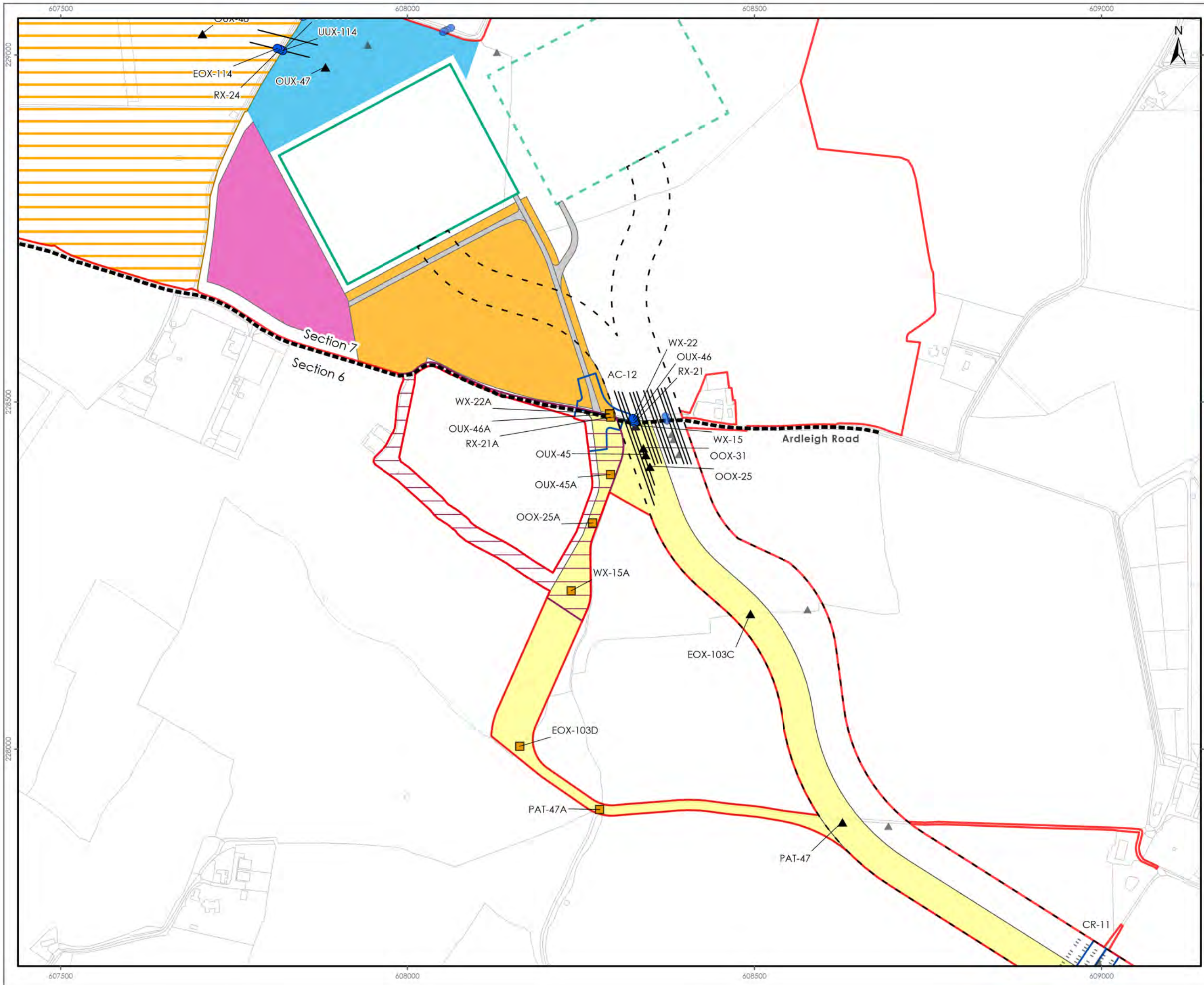
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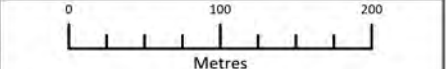
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- LEGEND**
- Order Limits
  - Onshore Export Cable Corridor Section Division
  - Onshore Export Cable Corridor
  - Obstacle Crossing Register - Five Estuaries Circuits
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Obstacle Crossing Register - North Falls Ducts
    - Committed Trenchless
    - Haul Road Obstacles
    - Trenched, Trenchless or Other (To be Determined at a Later Date)
  - Trenchless Crossing Indicative Alignment
  - Trenchless Crossing Indicative Alignment - Non Committed
  - Substation Operational Boundary
  - Substation Temporary Construction Compound
  - Ardleigh Road Drainage Zone
  - Indicative Substation Access and Drainage Zone
  - Indicative Substation Access Route
  - Substation Temporary Construction Haul Road
  - North Falls Indicative Substation Operational Boundary
  - Access and Crossing Zone
  - Indicative 400kV Underground Cable Zone
  - National Grid East Anglia Connection Node (EACN) Substation Zone



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PROJECT TITLE:  
FIVE ESTUARIES OFFSHORE WINDFARM

DRAWING TITLE:  
ONSHORE OBSTACLE CROSSINGS  
SECTION 6

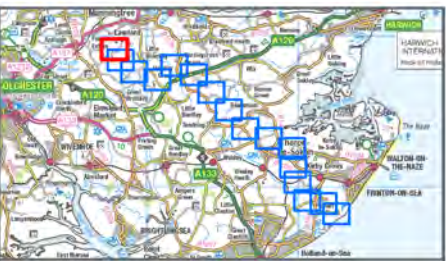
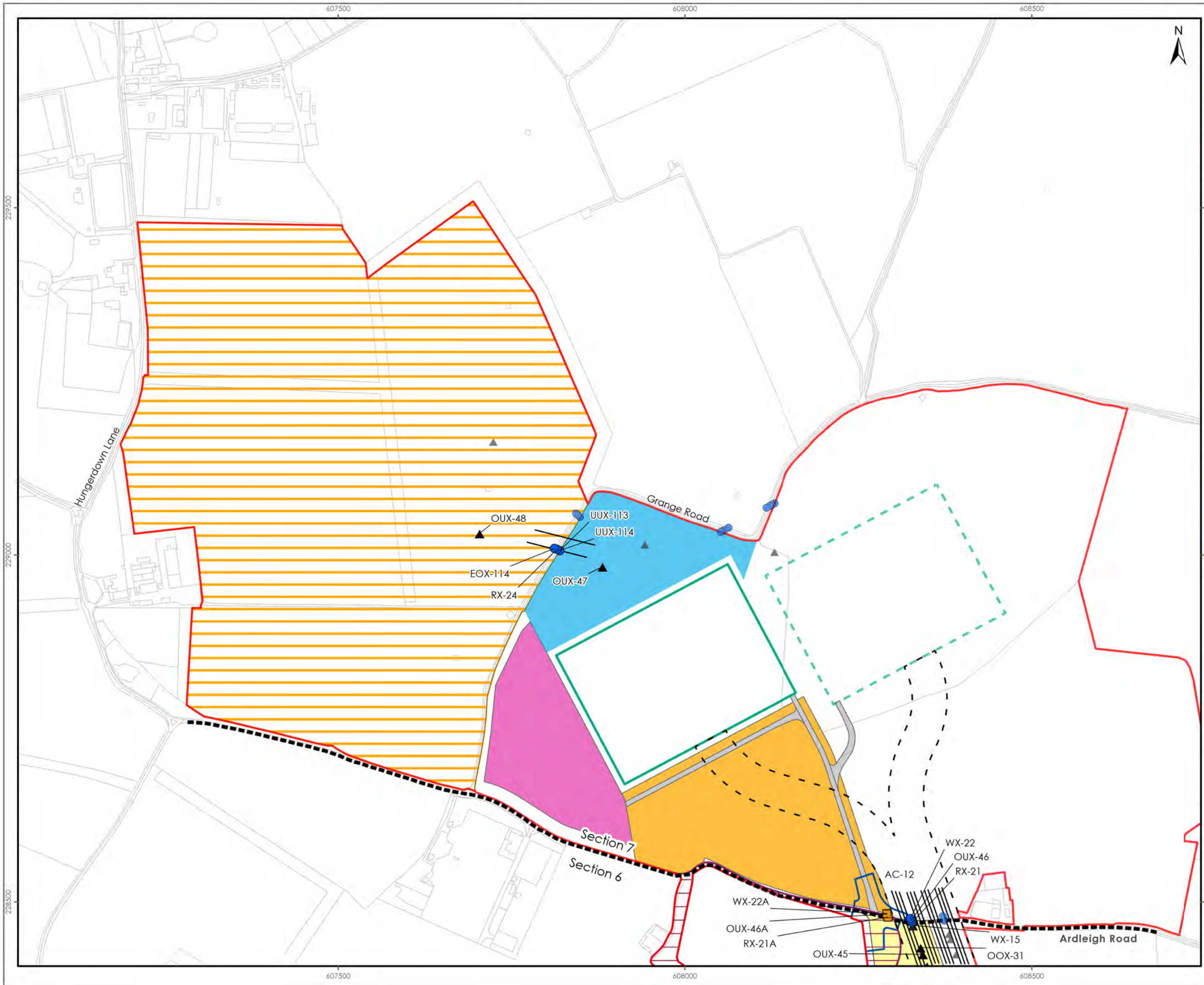
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1	14/02/2024	ES Submission	JO	JRS

DRAWING NUMBER: T.1

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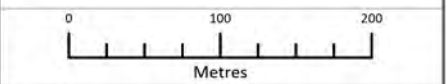
**FIVE ESTUARIES**  
Offshore Windfarm





### LEGEND

- Order Limits
- Onshore Export Cable Corridor Section Division
- Onshore Export Cable Corridor
- Obstacle Crossing Register - Five Estuaries Circuits
  - Committed Trenchless
  - Haul Road Obstacles
  - Trenched, Trenchless or Other (To be Determined at a Later Date)
- Obstacle Crossing Register - North Falls Ducts
  - Committed Trenchless
  - Haul Road Obstacles
  - Trenched, Trenchless or Other (To be Determined at a Later Date)
- Trenchless Crossing Indicative Alignment
- Substation Operational Boundary
- Substation Temporary Construction Compound
- Ardleigh Road Drainage Zone
- Indicative Substation Access and Drainage Zone
- Indicative Substation Access Route
- Substation Temporary Construction Haul Road
- North Falls Indicative Substation Operational Boundary
- Access and Crossing Zone
- Indicative 400kV Underground Cable Zone
- National Grid East Anglia Connection Node (EACN) Substation Zone



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PROJECT TITLE:  
**FIVE ESTUARIES OFFSHORE WINDFARM**

DRAWING TITLE:  
**ONSHORE OBSTACLE CROSSINGS SECTION 7**

VER	DATE	REMARKS	Drawn	Checked
1	14/02/2024	ES Submission	JO	JRS

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