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Environmental Impact Assessment Report
Volume 3, Appendix 4.1: Crossings Register

MarramWind Offshore Wind Farm

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1. Crossing Register

1.1 Purpose

- 1.1.1.1 This crossing register identifies the proposed crossing method of features along the onshore export cable corridor from the landfall(s) to the onshore substations, that are located to the west of Peterhead, and onward to the point of connection at the Scottish and Southern Electricity Networks (SSEN) Netherton Hub substation.
- 1.1.1.2 **Tables 1.2 to 1.4** present the crossing reference, crossing type, crossed asset / feature and proposed method for each crossing. Crossed assets / features include Core Paths / rights of way, roads, surface drains, tracks and watercourses.
- 1.1.1.3 In some cases, a single crossing will intersect with multiple crossed assets / features. The “crossing” therefore refers to the construction exercise rather than the intersection.
- 1.1.1.4 All utilities listed are understood to be buried below ground level. Other overhead utilities also cross the route, but these do not create any requirement to deviate from the standard trenched corridor (for instance, no crossing construction is required).

1.2 Definitions and abbreviations

- 1.2.1.1 The definitions used in this Appendix are set out in **Table 1.1**.

Table 1.1 Definitions

Word / phrase	Description
Core Path	Core Paths are routes designated by local authorities in Scotland under the Land Reform (Scotland) Act 2003. They include paths, waterways, or other land crossings that support and manage public access rights.
Open cut (crossing)	A method of installation that requires open trench excavation, disturbing the ground surface and exposing / interacting with the feature(s) being crossed.
Road	A public or private road, typically a designed road with sealed surface subject to high volumes of traffic. Including any associated embankments, footways and drainage ditches.
Surface drain	Open surface drains and waterways used for local water management.
Track	A rough path or road, typically unsealed with gravel or dirt surface. This may include low volume traffic evolved roads.
Trenchless (crossing)	An installation technique in which a pipe, duct or conduit is installed with little or no surface excavation, and hence with little to no direct disturbance of the feature(s) being crossed.
Utility	Infrastructure providing telecommunications, electricity, gas, water, or sewerage services.
Watercourse	Permanent or seasonal river, stream or artificially constructed water channel.

1.3 Labelling convention

1.3.1.1 For ease of reference, the onshore export cable corridor is divided into four zones:

- the landfall zone covers the corridor (including branches) from the coastline to the River Ugie;
- onshore export cable corridor zone A covers the corridor from the River Ugie to the onshore substation co-located on one onshore substation site;
- the onshore substation zone¹ covers the onshore substations co-located on one onshore substation site; and
- onshore export cable corridor zone B covers the grid connection section from the onshore substations, co-located on one onshore substation site, to the point of connection at SSE Netherton Hub.

1.3.1.2 Where there are branches to the onshore export cable corridor within a zone, the paths are labelled according to zone, and then sequentially. For example, the path from Scotstown landfall is “Segment L1” and the northernmost path from Lunderton North is “Segment L2”.

1.3.1.3 The segment along which any crossing is located is encoded as the third and fourth digits of the crossing reference; for instance, CRL101.

1.3.1.4 The onshore export cable corridor zones and segments are shown in **Appendix A, Figure 1: Zones and segments**. The location of crossed assets / features are shown in **Appendix A, Figure 2: Crossing register**.

¹ For which there is no Crossing Register below, as there are no crossings within the onshore substation sites.

Table 1.2 Crossing register: landfall zone

Crossing reference	Easting (BNG)	Northing (BNG)	Type	Name	Crossing approach	Approx. length (metres (m))
CRL101	410299	851234	Trunk road.	A90	Trenchless	730
	410301	851238	Electricity power cables x 2.	SSEN 2 x (3c 185 millimetre (mm) 11 kilovolt (kV)).		
	410301	851238	Telecoms cable.	SSEN telecoms.		
	410306	851245	Telecoms cable x 2.	Openreach telecoms x 2.		
	410495	851476	Watercourse	Annachie Burn.		
CRL102	410113	850984	Local road.	Unnamed local road.	Open cut.	-
	410113	850987	Telecoms cable.	Openreach telecoms.		
CRL103	410116	850362	Gas pipeline.	BP Miller Pipeline System 26".	Trenchless	215
	410121	850346	Gas pipeline.	INEOS Forties Natural Gas Liquids Pipeline 12".		
	410119	850327	Watercourse	Cuttie Burn.		
CRL201	410671	849744	Trunk road.	A90	Trenchless	150
	410675	849744	Electricity power cables x 2.	SSEN 2 x (3c 185mm 11kV).		
	410666	849744	Telecoms cable.	SSEN telecoms.		
	410664	849744	Telecoms cable.	Openreach telecoms.		
CRL202	410026	849277	Watercourse	Unnamed watercourse / ditch.	Open cut.	-

Crossing reference	Easting (BNG)	Northing (BNG)	Type	Name	Crossing approach	Approx. length (metres (m))
CRL203	409876	849130	Local road.	Unnamed local road.	Open cut ²	-
	409876	849130	Telecoms cable.	Openreach telecoms.		
	409876	849130	Electricity power cable(s).	Greenvolt Offshore Wind Farm onshore export cable(s) – planned.		
	409876	849130	Electricity power cable(s).	Muir Mhor Offshore Wind Farm onshore export cable(s) – planned.		
CRL204	409175	848852	River	River Ugie.	Trenchless	300
CRL301	410628	849471	Trunk road.	A90	Trenchless	150
	410628	849471	Electricity power cables x 2.	SSEN 2 x (3c 185mm 11kV).		
	410628	849471	Telecoms cable.	SSEN telecoms.		
	410628	849471	Telecoms cable.	Openreach telecoms.		
CRL401	410559	848964	Trunk road.	A90	Trenchless	150
	410559	848964	Electricity power cables x 2.	SSEN 2 x (3c 185mm 11kV).		
	410559	848964	Telecoms cable.	SSEN telecoms.		
	410559	848964	Telecoms cable.	Openreach telecoms.		

² It is possible that a trenchless approach may be required at this location.

Table 1.3 Crossing Register: onshore export cable corridor zone A

Crossing reference	Easting (BNG)	Northing (BNG)	Type	Name	Crossing approach	Approx. length (m)
CRA101	409159	848364	Telecoms cable.	Openreach telecoms.	Open cut.	-
	409159	848364	Telecoms cable – planned.	Openreach telecoms.		
	409159	848364	Local road.	Unnamed local road.		
CRA102	409198	847828	Core Path and one of Scotland's Great Trails.	Formantine and Buchan Way.	Open cut.	-
CRA103	409088	847420	Local road.	Unnamed local road.	Open cut.	-
	409088	847420	Telecoms cable.	Openreach telecoms.		
	409088	847420	Water pipeline.	150mm Polyvinyl Chloride (PVC) 1982 pipeline.		
CRA104	408856	847309	Local road.	Tortorston Road.	Open cut.	-
	408856	847309	Telecoms cable.	Openreach telecoms.		
	408856	847309	Telecoms cable - planned.	Openreach telecoms .		
	408856	847309	Water pipeline.	300mm ductile iron (DI) 1994 pipeline.		
	408856	847309	Water pipeline.	150mm PVC 1994 pipeline.		
CRA105	408705	847107	Watercourse	Tributary of River Ugie.	Trenchless	150
CRA106	408719	846890	Local road.	Downiehills Road.	Open cut.	-
	408719	846890	Telecoms cable.	Openreach telecoms.		
	408719	846890	Telecoms cable - planned	Openreach telecoms.		

Crossing reference	Easting (BNG)	Northing (BNG)	Type	Name	Crossing approach	Approx. length (m)
CRA107	408539	846640	Local road.	Downiehills Road.	Open cut.	-
CRA108	408442	846583	Water pipeline.	3" PVC 1975 pipeline.	Open cut.	-
CRA109	408364	846399	A road.	A950 / Longside Road.	Trenchless	100
	408364	846399	Telecoms cable.	Openreach telecoms.		
	408364	846399	Water pipeline.	6" DI 2000 pipeline.		
	408364	846399	Water pipeline.	6" PVC 1999 pipeline.		
	408364	846399	Water pipeline.	6" PVC 1972 pipeline.		
	408364	846399	Water pipeline.	150mm DI 2001 pipeline.		
	408364	846399	Water pipeline.	180mm medium density polyethylene (MDPE) pipeline.		
CRA201	408977	846959	Watercourse	Tributary of River Ugie.	Trenchless	150
	408977	846959	Track	Private road / track.		
CRA202	408840	846756	Local road.	Tortorston Road.	Open cut.	-
	408840	846756	Water pipeline.	300mm DI 1994 pipeline.		
	408840	846756	Water pipeline.	150mm PVC 1994 pipeline.		

Table 1.4 Crossing register: onshore export cable corridor zone B

Crossing reference	Easting (BNG)	Northing (BNG)	Type	Name	Crossing approach	Approx. length (m)
CRB101	407952	846129	Watercourse	Tributary of River Ugie.	Trenchless	200
	407923	846149	Gas pipeline.	BP Miller Pipeline System 26".		
	407923	846149	Gas pipeline.	INEOS Forties NGL Pipeline 12".		
	407892	846170	Gas pipeline.	SSE St. Fergus to Peterhead 36".		
	407986	846107	Water pipeline.	6" PVC 1999 pipeline.		
	407986	846107	Water pipeline.	6" DI 2000 pipeline.		
	407986	846107	Water pipeline.	180mm MDPE pipeline.		
CRB102	407665	846300	Local road.	Unnamed local road.	Open cut.	-
	407665	846300	Telecoms cable.	Openreach telecoms.		
	407665	846300	Telecoms cable – planned.	Openreach telecoms.		
CRB103	406779	845924	Watercourse	Burn of Faichfield.	Trenchless	470
	406720	845979	Gas pipeline.	NG St. Fergus to Aberdeen.		
	406736	845961	Gas pipeline.	Shell 20" St. Fergus to Mossmoran.		
	406736	845961	Gas pipeline.	Shell 6" St. Fergus to Cruden Bay.		
	406736	845961	Gas pipeline.	Shell 18" St. Fergus to Peterhead Power Station.		
	406656	845861	Local road.	Unnamed local road.		

Crossing reference	Easting (BNG)	Northing (BNG)	Type	Name	Crossing approach	Approx. length (m)
	406656	845861	Water pipeline.	150mm PVC 1988 water pipeline.		

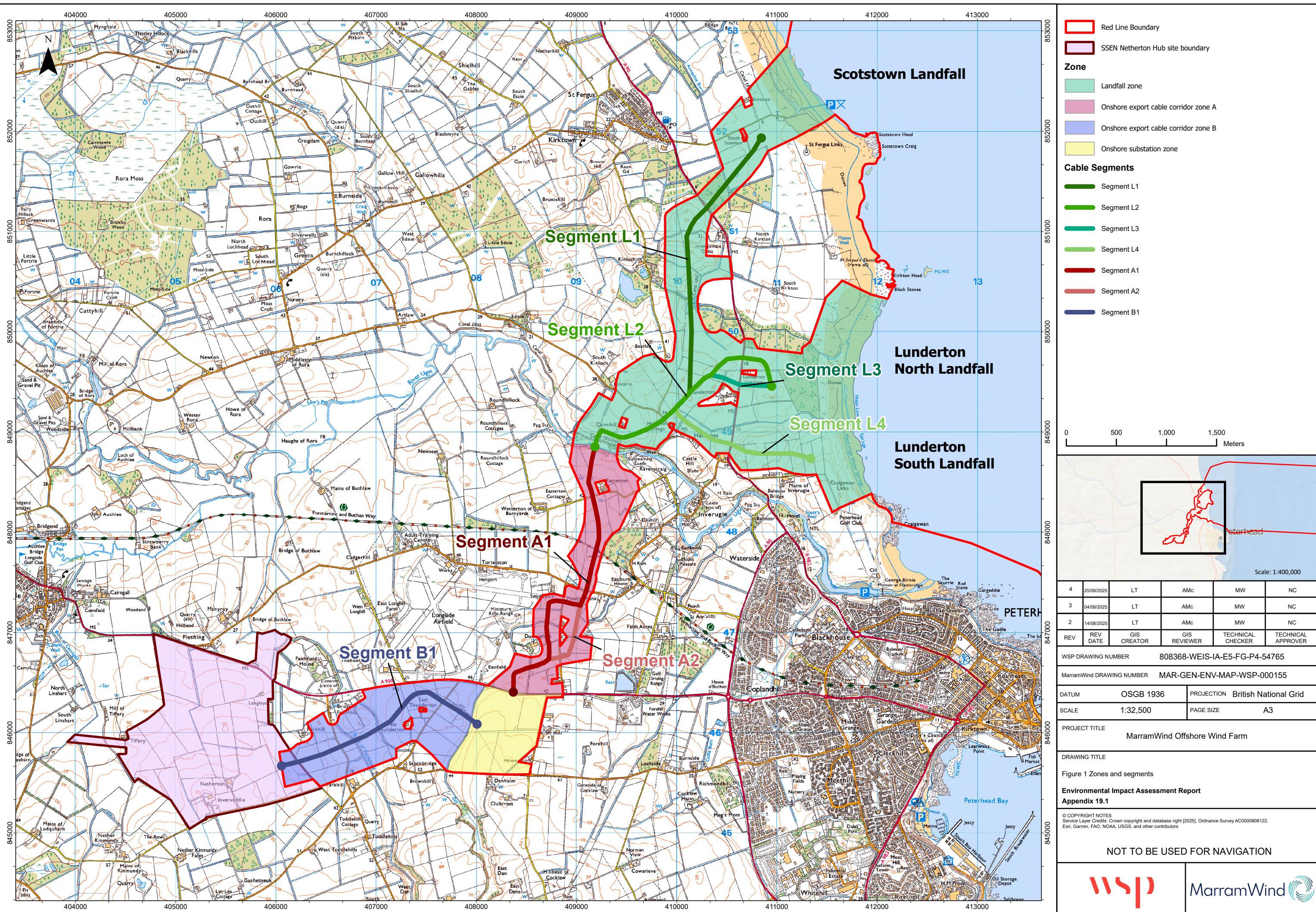
1.4 References

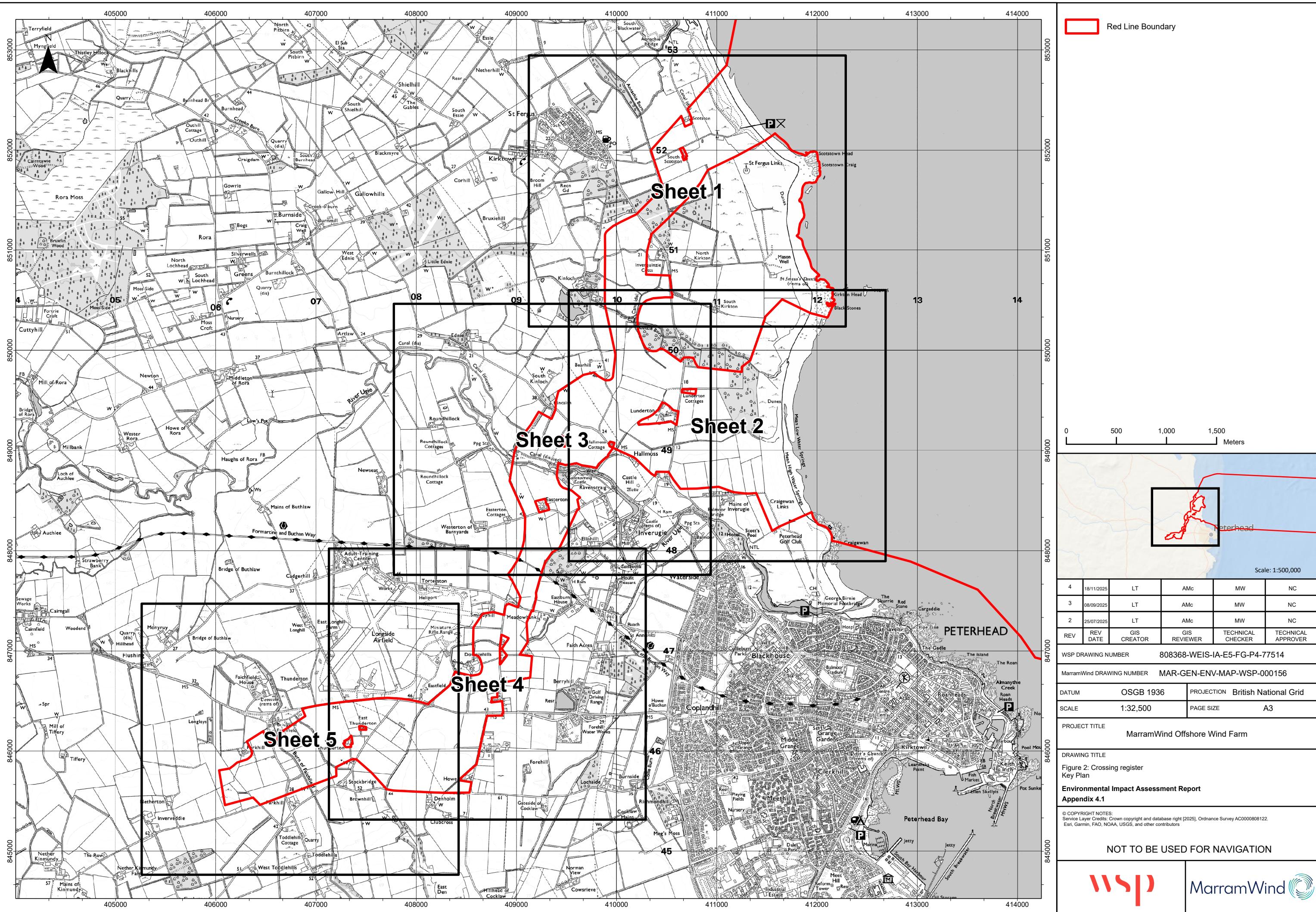
Land Reform (Scotland) Act 2003. (2003 asp 2). [online]. Available at: <https://www.legislation.gov.uk/asp/2003/2/contents> [Accessed: 4 June 2025].

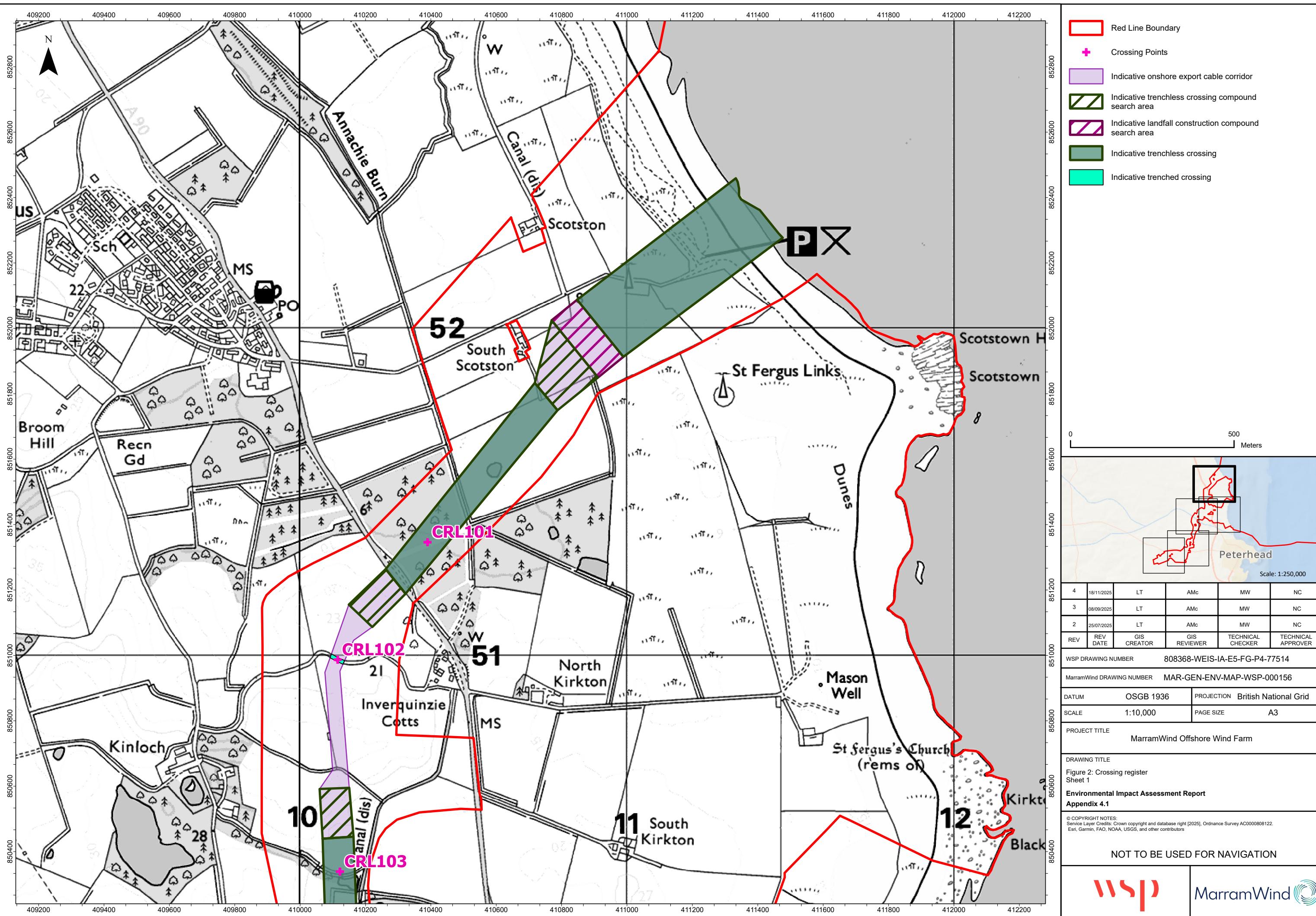
1.5 Abbreviations

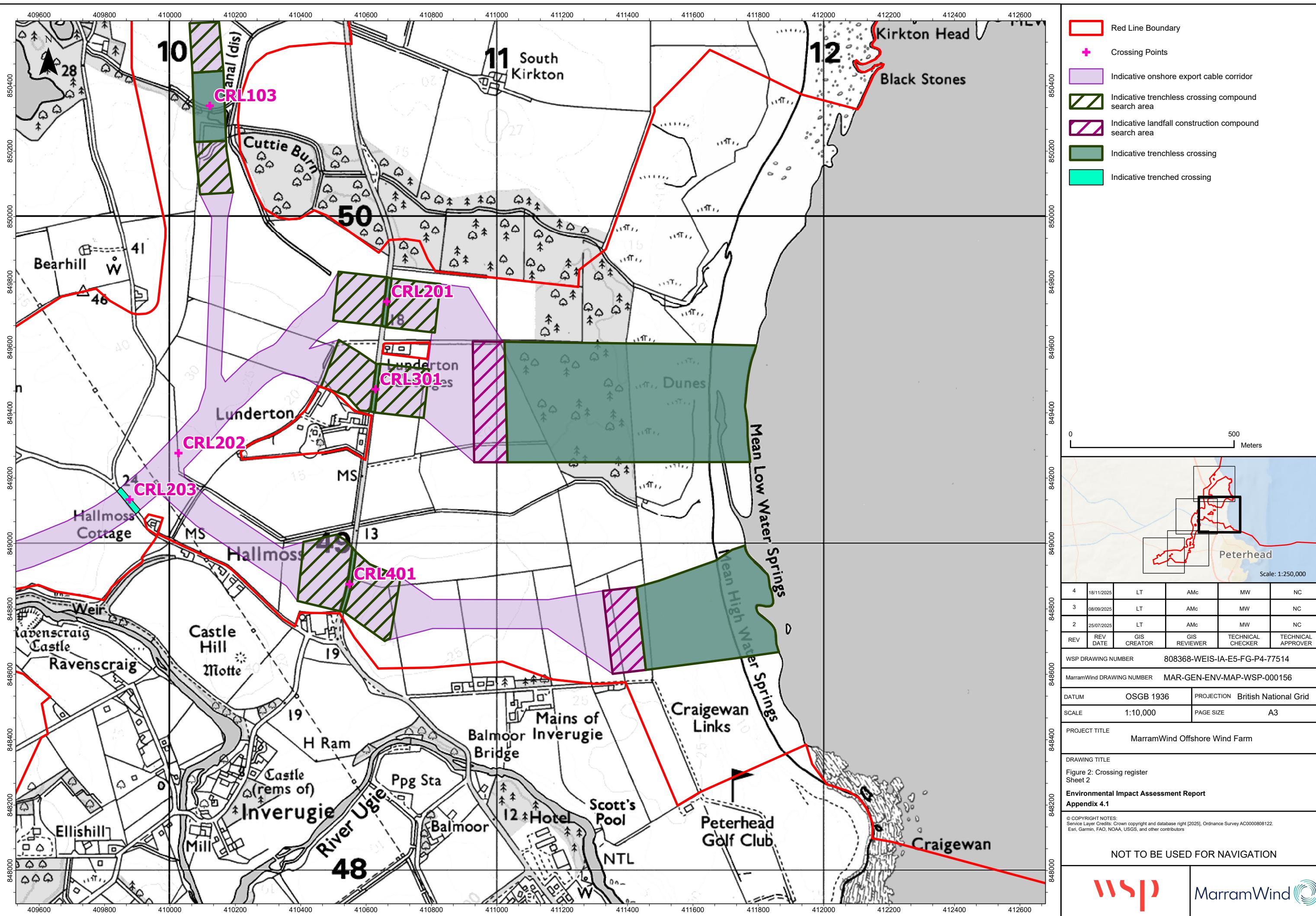
Acronym	Definition
DI	Ductile Iron
kilovolts	kV
m	metre
MDPE	Medium Density Polyethylene
millimetre	mm
PVC	Polyvinyl Chloride
SSEN	Scottish and Southern Electricity Networks

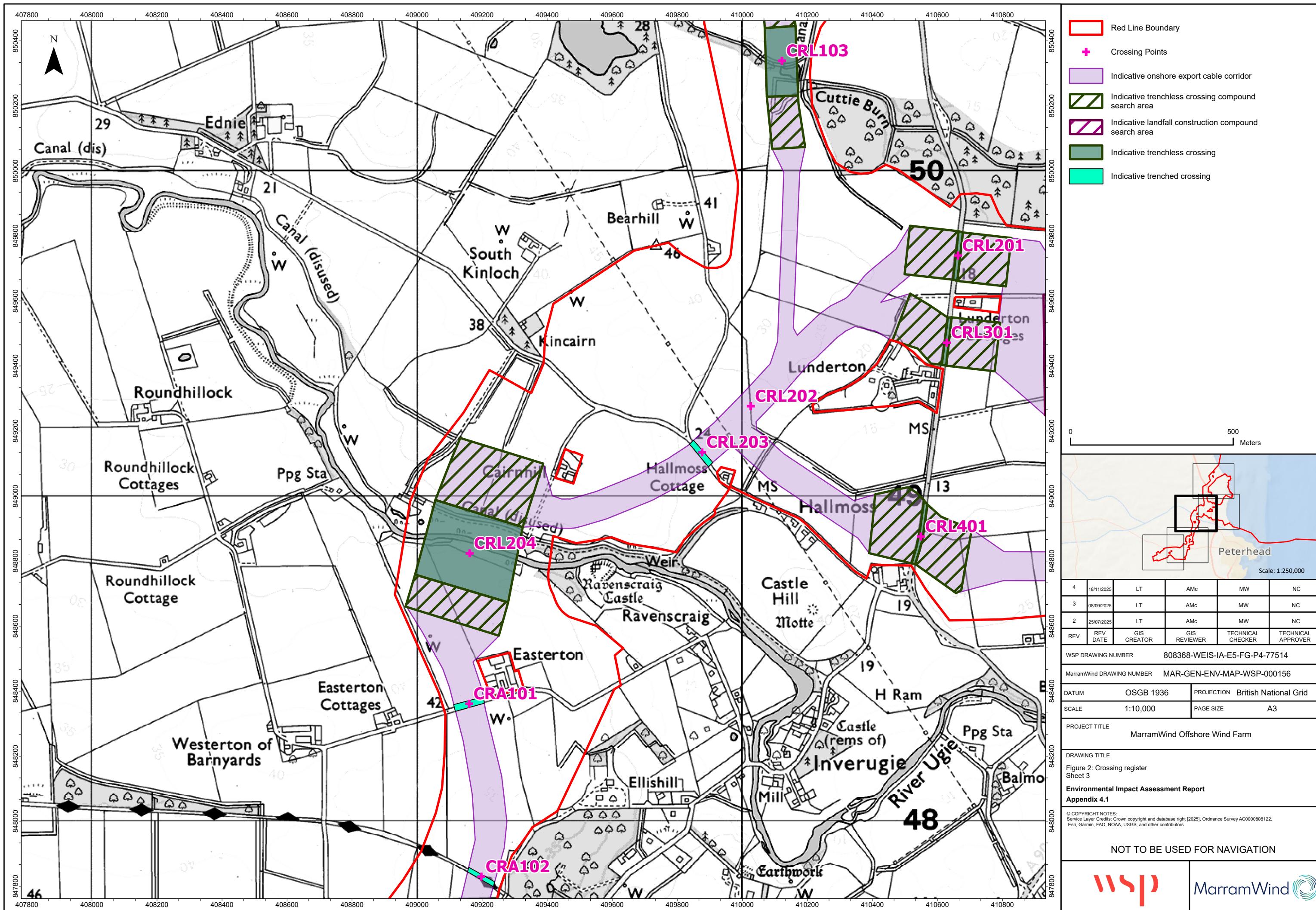
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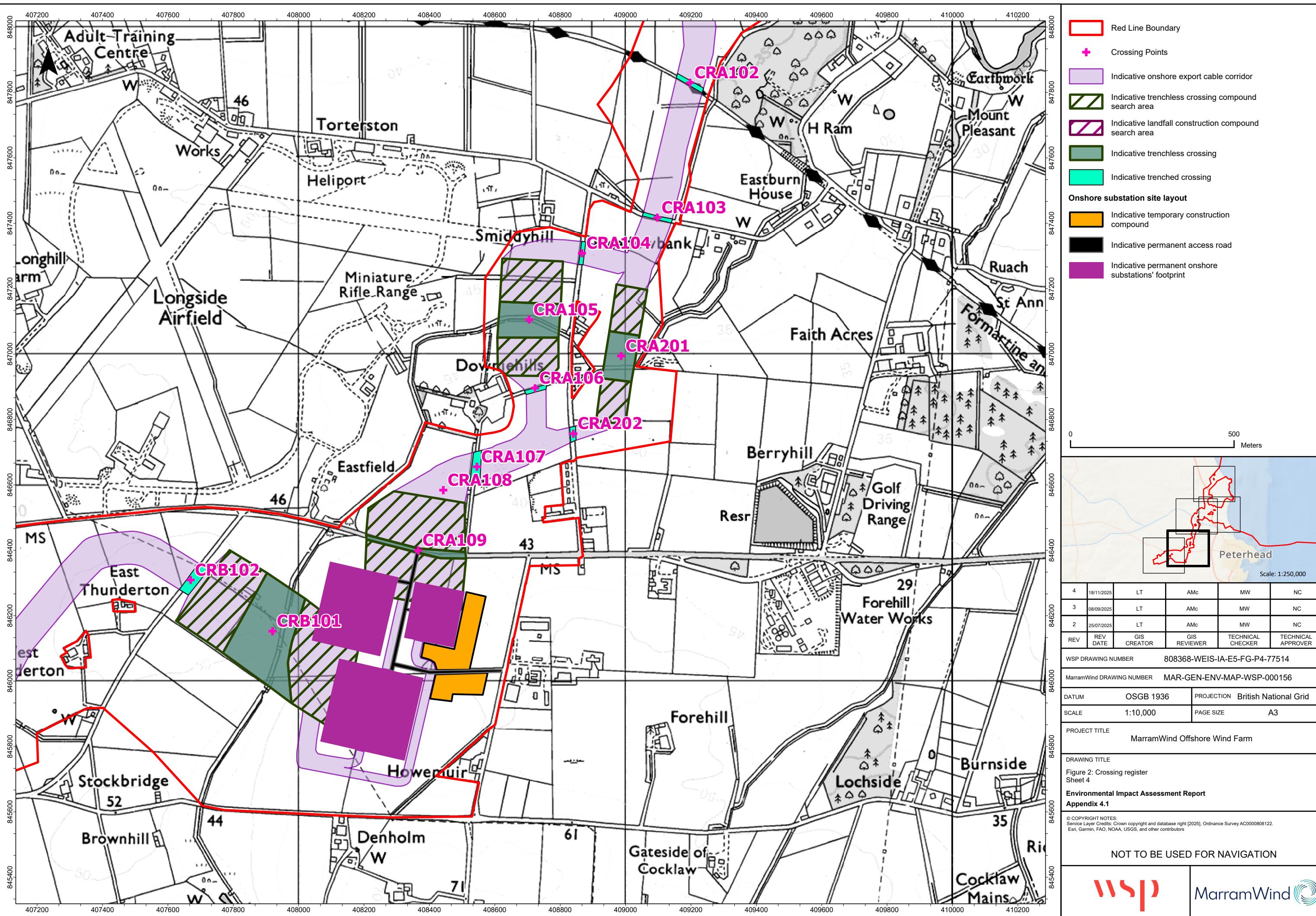


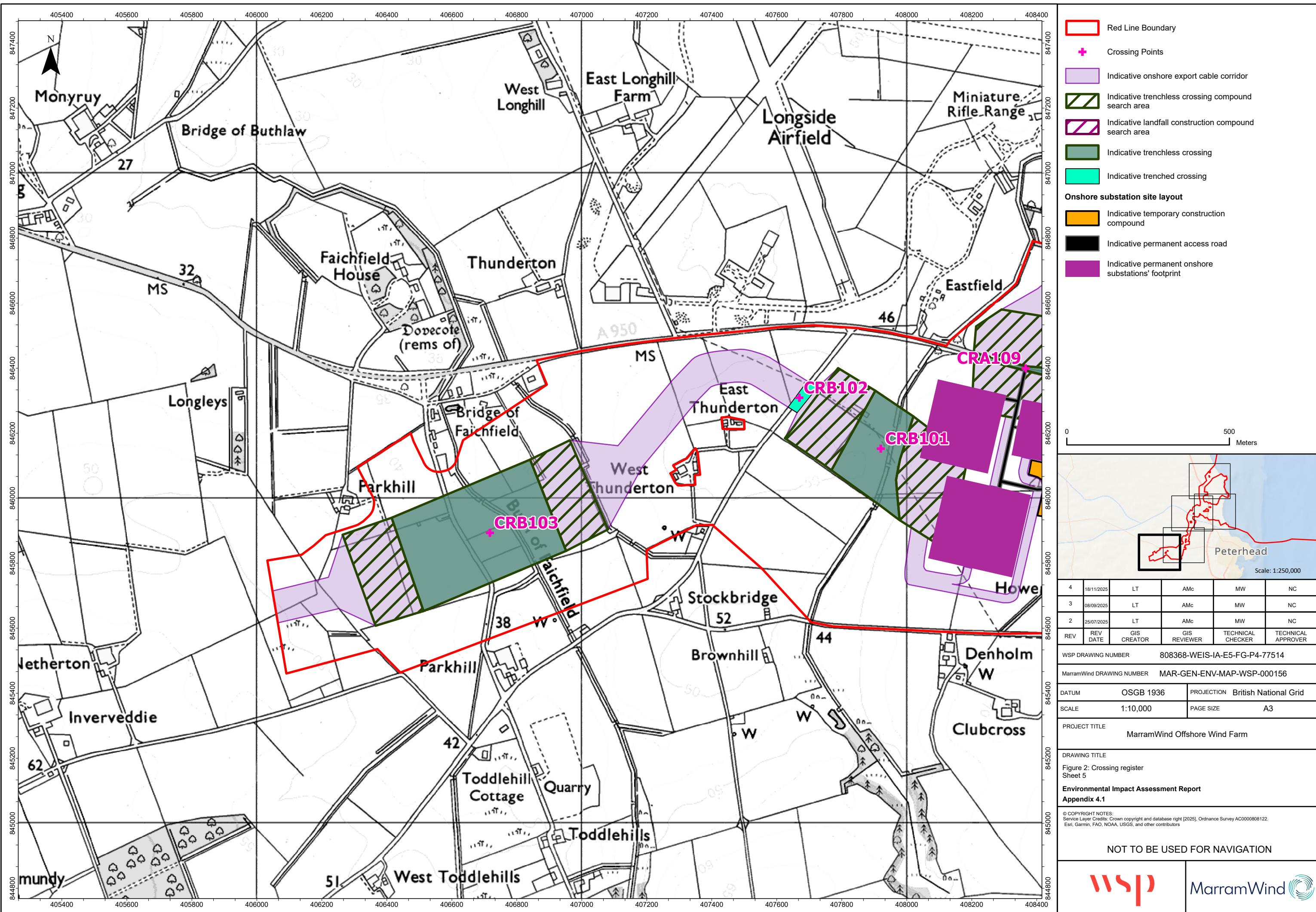












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