2022

Valentia Island Energy Ltd

VI Energy

SCHEDULE OF WORKS

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1. Introduction

Aqualicense has been commissioned by Valentia Offshore Energy Ltd. ("the Applicant") to prepare this Report in support of a Foreshore Licence Application to the Marine Planning and Foreshore Section of the Department of Housing, Local Government and Heritage. This licence, if granted, will allow Valentia Offshore Energy Ltd. to carry out necessary site investigation surveys which will enable the project to confirm the most suitable site and design for offshore wind energy production off the coast of Valentia Island, off the southwest coast of county Kerry. In advance of these surveys, Valentia Offshore Energy Ltd. has identified indicative potential development areas which are illustrated in *Map 1*. These potential development areas are subject to change based on survey results, stakeholder engagement, technology design and other reporting. This document should be read in conjunction with the Other Marine Users document, the Appropriate Assessment Reports (NIS/SISAA/Article 12) and Foreshore Investigatory Licence Application Form. A detailed description and timeframe for these survey works are provided in the accompanying Methods Statement and Programme of Works document.

2. Survey Works

2.1. Geophysical Surveys

2.1.1. Multibeam Echosounder (MBES)

Purpose: Water depth and seabed topography.

Method: MBES mounted on hydrodynamic pod deployed from survey vessel. The vessel passes over the tract of seabed under survey and emits a fan of acoustic waves which are reflected off the seabed and back to the receiver.

Vessel Length: To be confirmed once the survey contractor is appointed. It's possible that two vessels will be used, one offshore in water depths greater than 50m and a second inshore vessel operating from a water depth of 50 metres to as close to the shore as possible. Offshore vessel c. 75m / Inshore vessel c. 22m.

Swath Width: MBES swath widths can be approximately 10 times the water depth depending on the product selected. For the EM 2040 the manufacturers claim a swath width of 10 times the water depth at the 300 kHz frequency. The R2Sonic produces a swath angle of 120-130deg under normal use.

Location: To provide 100% coverage of the array areas of the Foreshore Licence Area as shown in *Map 2*.

2.1.2. Side Scan Sonar (SSS)

Purpose: Map seabed features and/or obstructions.

Method: The device is generally towed on a fish. An SSS works by emitting fan-shaped acoustic pulses to the seafloor and then recording the intensity of the reflections.

Vessel Length: To be confirmed once the survey contractor is appointed. It's possible that two vessels will be used, one offshore in water depths greater than 50m and a second inshore vessel operating

from a water depth of 50 metres to as close to the shore as possible. Offshore vessel c. 75m / Inshore vessel c. 22m.

Swath Width: Operating ranges are as follows 120 kHz: 600m, 230 kHz: 350m, 410 kHz: 200m, 540 kHz: 150m, 850 kHz: 90m.

Location: To provide 100% coverage of the array areas of the Foreshore Licence Area as shown in *Map 2*.

2.1.3. Sub-Bottom Profiling (SBP)

Purpose: Identify character of the shallow geology.

Method: It is expected that the inshore vessel will have a Parametric SBP most likely an INNOMAR SES–2000 medium –100 system. This will be pole mounted over the side or through a small moonpool. It can operate in water depths from 2 – 2000 metres. It has a penetration of up to 70 metres below seabed and uses primary frequencies between 85-115kHz with secondary low frequencies between 2-22kHz. The offshore vessel will be fitted with a hull mounted or moonpool deployed SBP probably an EdgeTech 3400 OTS Low Frequency system. It has a maximum penetration of 20-200 metres depending on sediment type. The SBP will be run at the same time as the Side Scan Sonar and Multibeam. Line spacing will be dictated by the Side Scan Sonar coverage requirements.

Vessel Length: To be confirmed once the survey contractor is appointed. It's possible that two vessels will be used, one offshore in water depths greater than 50m and a second inshore vessel operating from a water depth of 50 metres to as close to the shore as possible. Offshore vessel c. 75m / Inshore vessel c. 22m

Survey Spacing: The SBP will be run at the same time as the Side Scan Sonar and Multibeam. Line spacing will be dictated by the Side Scan Sonar coverage requirements. Cross lines may be necessary to further define sub seabed layers.

Location: To provide 100% coverage of the array areas of the Foreshore Licence Area as shown in Map 2.

2.1.4. Magnetometer

Purpose: Map any metallic obstacles or hazards, including UXO.

Method: Magnetometers measure total magnetic field therefore can only detect items that have an associated ferrous metal casing or magnetic signature. The magnetometer is required to be towed close to the seabed. A general magnetometer survey will be carried out at the same time as the MBES, SSS and SBP surveys, with the same line spacing.

Vessel Length: To be confirmed once the survey contractor is appointed. It's possible that two vessels will be used, one offshore in water depths greater than 50m and a second inshore vessel operating from a water depth of 50 metres to as close to the shore as possible. Offshore vessel c. 75m / Inshore vessel c. 22m.

Survey Spacing: For the general survey with a single magnetometer the line spacing will depend on the spacing required to achieve full Side Scan Sonar coverage.

Location: To provide 100% coverage of the array areas of the Foreshore Licence Area as shown in *Map 2*.

2.2. Geotechnical Surveys and Sediment Sampling

2.2.1. Boreholes

Purpose: Deep subsurface sampling – required at the centre of each floating mooring system.

Diameter: Will be determined by drilling company – typically 150mm (6inch) or 200mm (8inch) diameter casing are utilised.

Depth: Dependent on downhole surveys to be obtained and the results of the geophysical survey. It is expected that borehole depths will vary across all sample locations. Generally, the borehole depth should be half to one pile diameter below the planned pile tips for a static installation.

Location: Points as shown in *Map 7* and at cable landfall points in *Map 8* to *Map 11*.

2.2.2. Cone Penetrometer Tests (CPTs)

Purpose: Strength profiles of seabed substrate.

Diameter: 500mm2, 1,000 mm2 or 1,500 mm2 plus other sizes as determined required by CPT operator.

Depth: Up to 50m depth below seabed or to refusal, unless the maximum thrust capacity of the equipment is reached or another operational occurrence.

Location: Points as shown in *Map 7* and at cable landfall points in *Map 8* to *Map 11*.

2.2.3. Vibrocore/Gravity Sampler

Purpose: Surface/subsurface sampling. Shorter than a borehole, vibrocores and gravity cores can be used to collect samples down to around 8 to 12m (depending on soil conditions).

Diameter: Typically, a 3- or 4-inch diameter aluminium core barrel.

Depth: The length of the recovered cores typically ranges from 1.5 to 9.0 meters. depending on soil type

Location: Points as shown in *Map 7* and at cable landfall points in *Map 8* to *Map 11*.

2.2.4. Grab Samples

Purpose: Description of uppermost seabed, ground truthing of geophysical interpretation.

Diameter: A range of sizes are available, the size selected will be capable of recovering a representative volume of soil. A modified 0.1m^2 Day grab is most suitable in muds and sands, while a large grab is required for gravel.

Depth: Negligible as only collects from upper most surface of the seabed.

Location: Points as shown in *Map 12* and at cable landfall points in *Map 13* to *Map 16*.

2.3. Environmental Surveys

2.3.1. Benthic Survey

Purpose: Habitat Characterisation

Sample: One every 2km along each cable route.

Location: Points as shown in *Map 12* and at cable landfall points in *Map 13* to *Map 16*.

2.3.2. Echolocation Click Detectors (PODs)

Purpose: Acoustic monitoring of odontocete cetaceans.

Sample: Two (2) PODs located inside of each array site, with indicative location for four (4) additional PODs outside of the Foreshore Licence Area.

Location: Points as shown in *Map 12*.

2.4. Metocean Surveys

2.4.1. Floating LiDAR

Purpose: Wind speed characteristics.

Sample: 4 located within each array.

Location: Apparatus locations are shown in *Map 17*.

2.4.2. Acoustic Doppler Current Profiler (ADCP)

Purpose: Subsurface wave and current measurements.

Sample: 2-3 located with each array.

Location: Apparatus locations are shown in *Map 17*.

2.4.3. Wave Buoy

Purpose: Wave height and speed.

Sample: 4 located with each array.

Location: Apparatus locations are shown in *Map 17*.

3. MAPPING

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Map 2: Foreshore Licence Area
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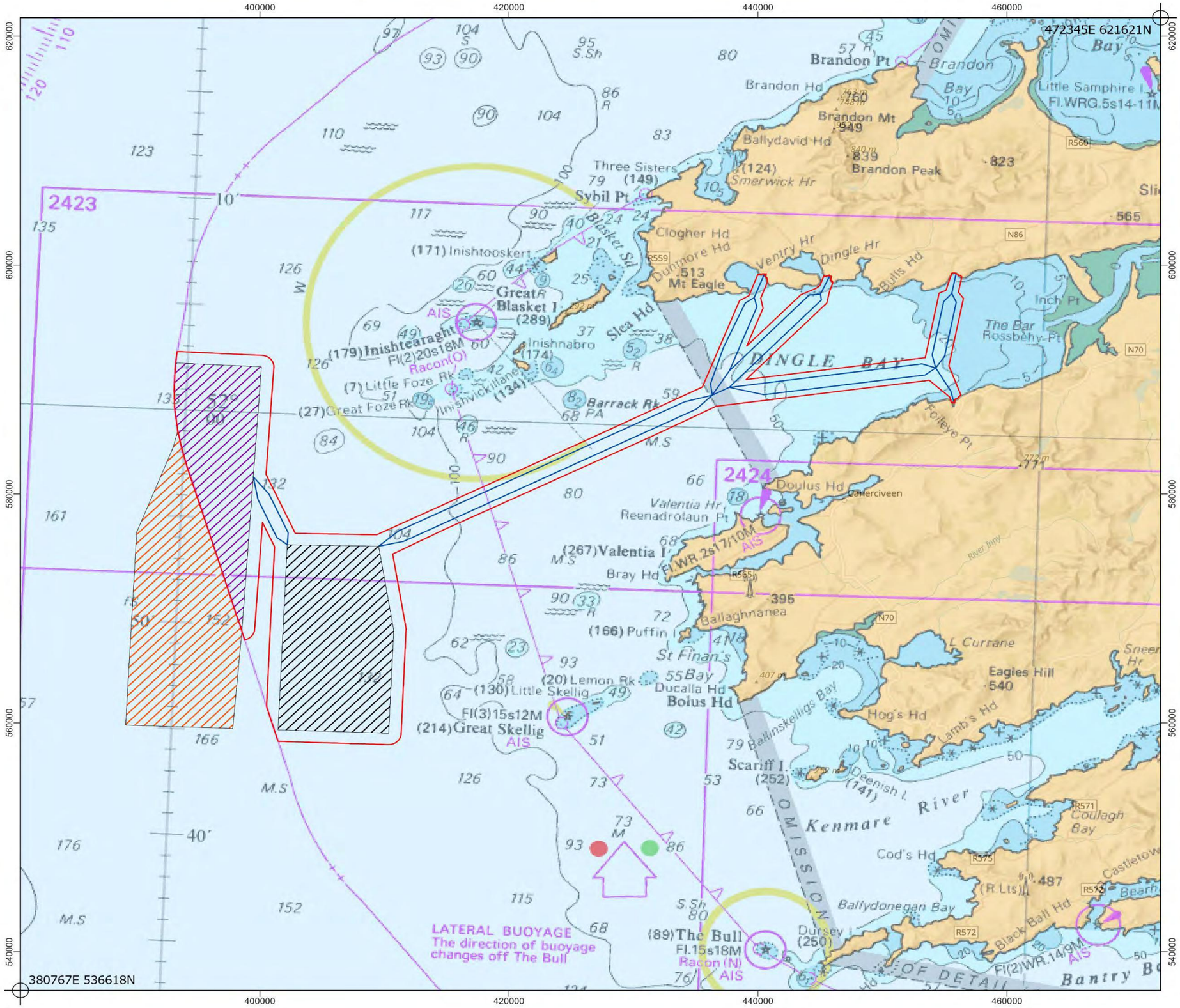

Project:

Valentia Island Energy

Title:

Overall Project

Legend

- Foreshore Licence Area
- Nearshore Array A
- Nearshore Array B
- Offshore Array
- Cable Routes

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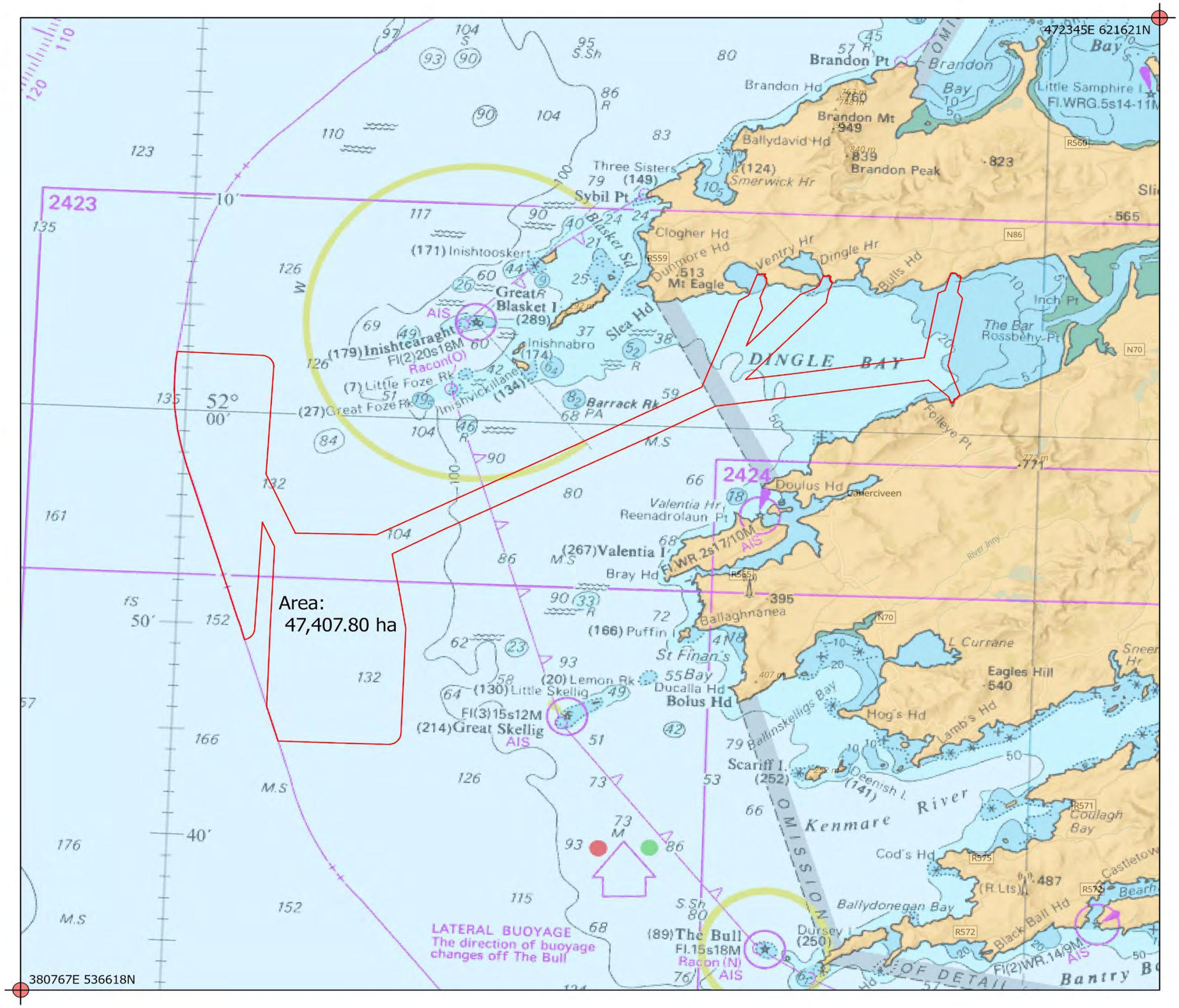
Map 1: Overall Project



Foreshore Licence Map

Project: Valentia Island Energy

Legend

- Foreshore Licence Area
- ITM Grid Coordinate Intersect

Drawing Title: Foreshore Licence Map

Drawing No.: 380

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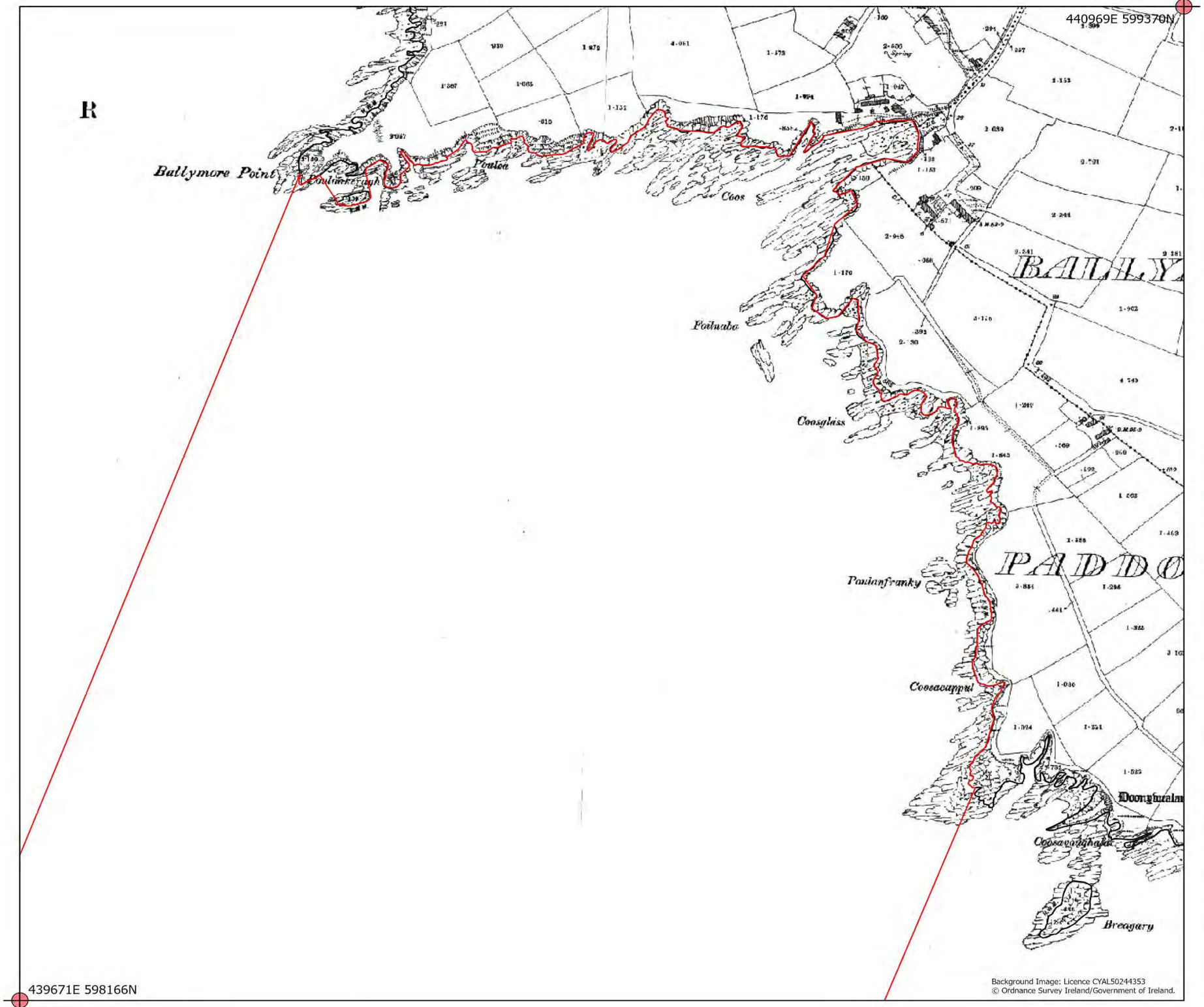
Map 4: Foreshore Licence Area



Foreshore Licence Map

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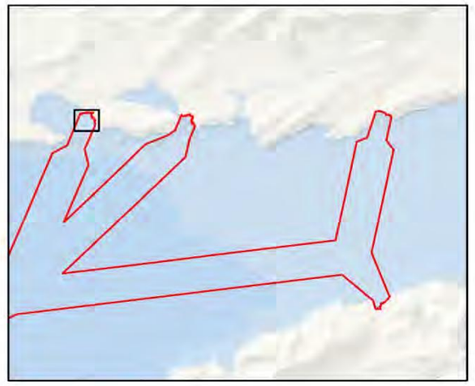
Cable Landfall Point Option A



Legend

- Foreshore Licence Area
- HWM
- ITM Grid Coordinate Intersect

Drawing Title: Foreshore Licence Map

Drawing No.: 384

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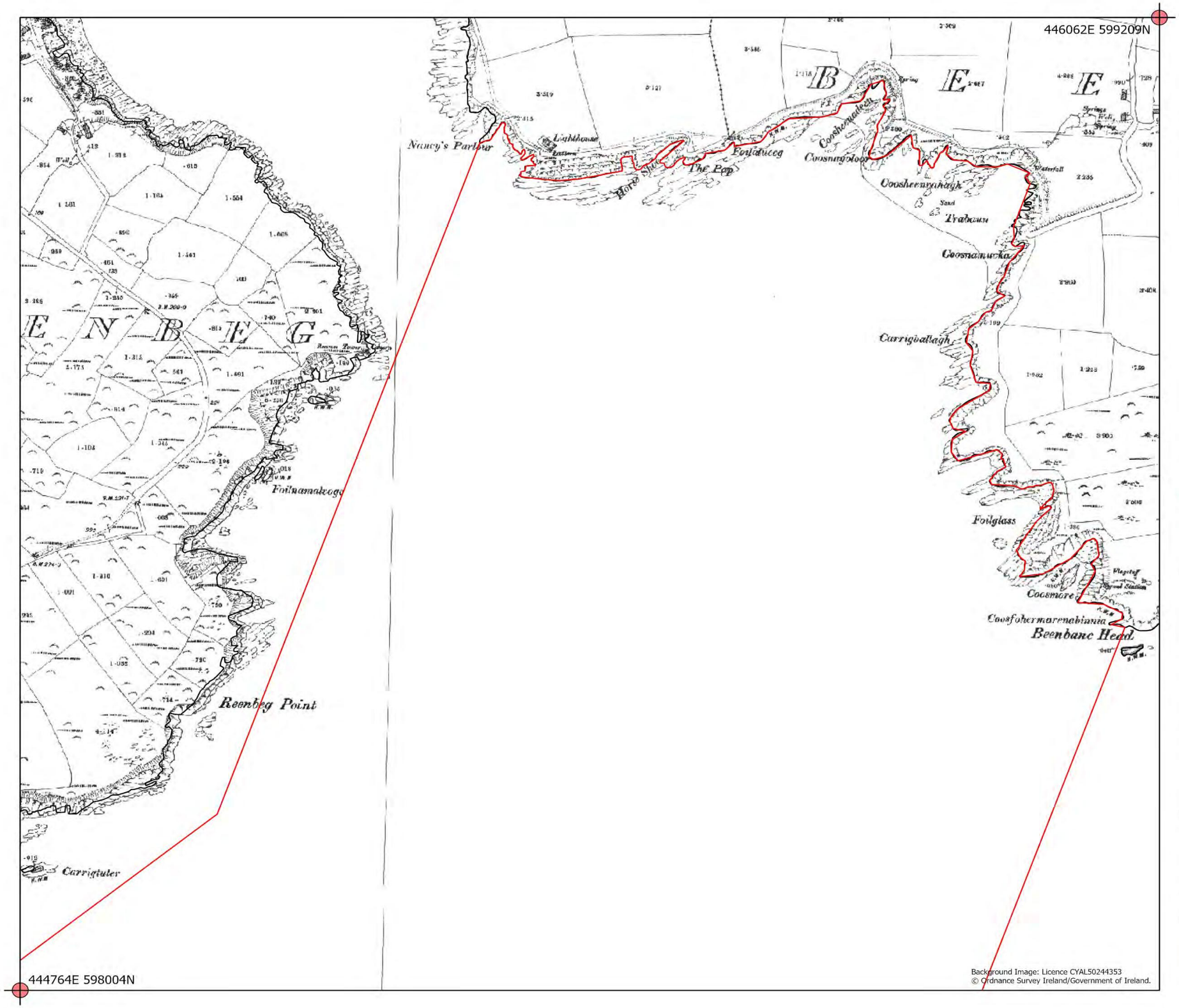
Map 7: Cable Landfall Point Option A



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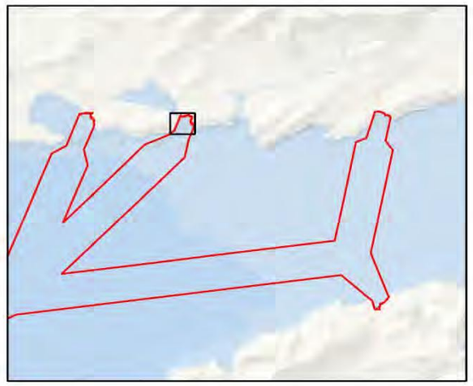
Cable Landfall Point Option B



Legend

- Foreshore Licence Area
- HWM
- ITM Grid Coordinate Intersect

Drawing Title: Foreshore Licence Map

Drawing No.: 385

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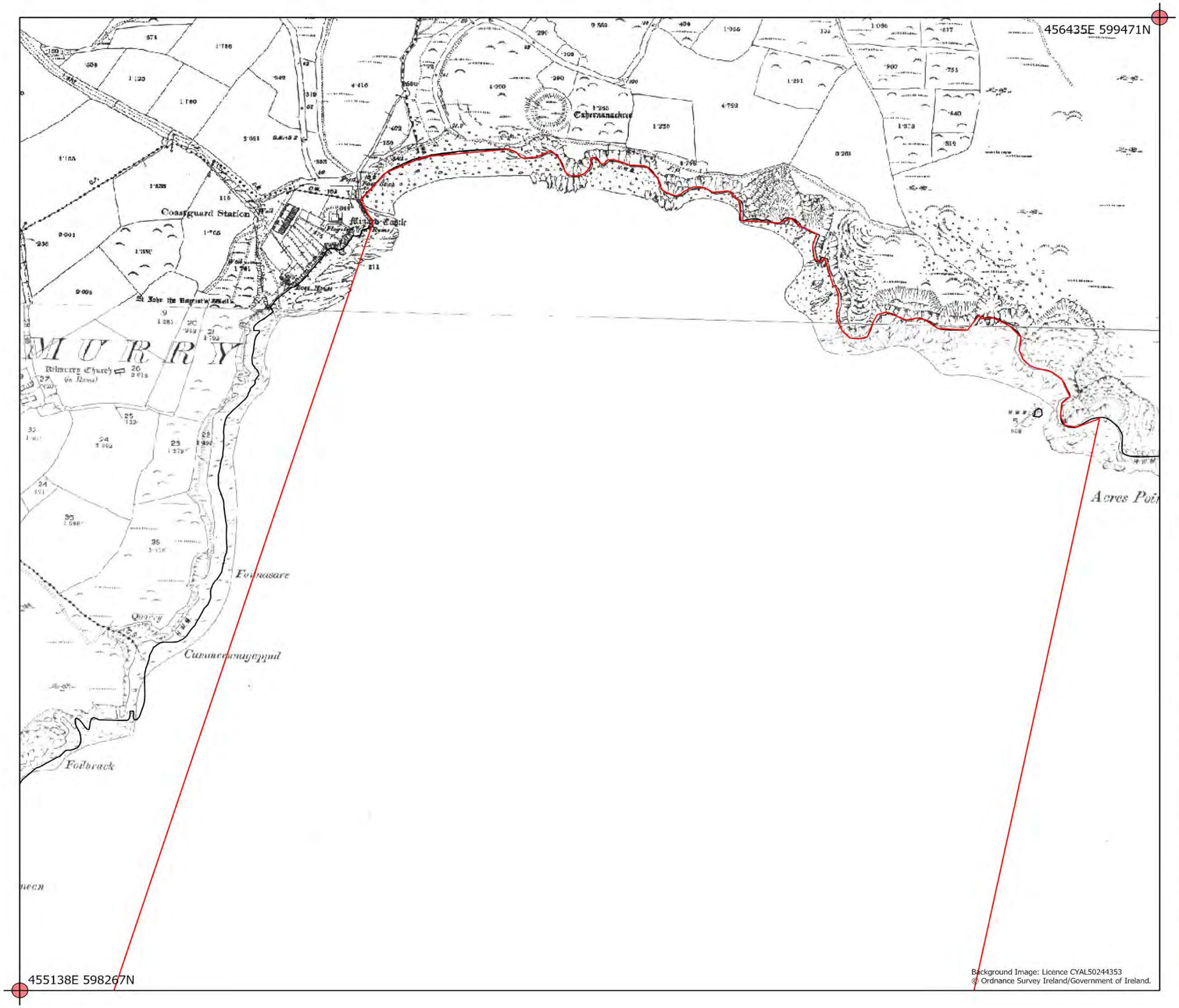
Map 10: Cable Landfall Point Option B

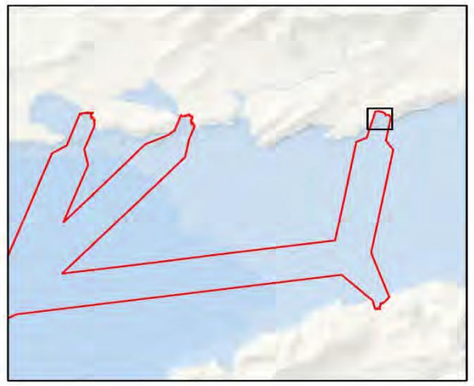


Foreshore Licence Map

Project: Valentia Island Energy

Title:

Cable Landfall Point Option C



Legend

- Foreshore Licence Area
- HWM
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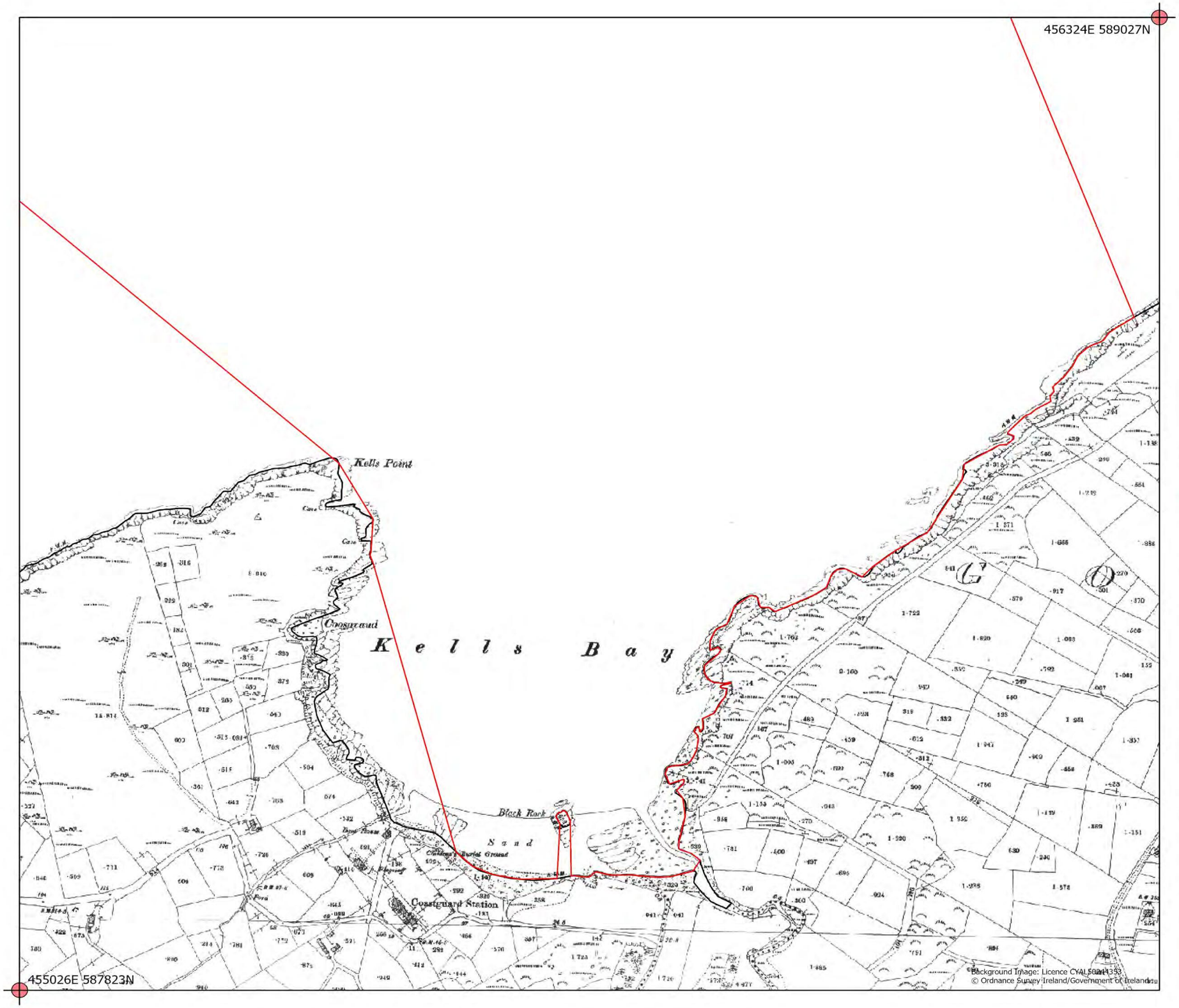
Map 11: Cable Landfall Point Option C



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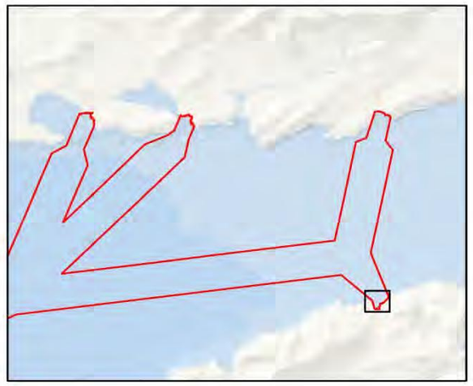
Project: Valentia Island Energy

Title:

Cable Landfall Point Option D



Legend

- Foreshore Licence Area
- HWM
- ITM Grid Coordinate Intersect

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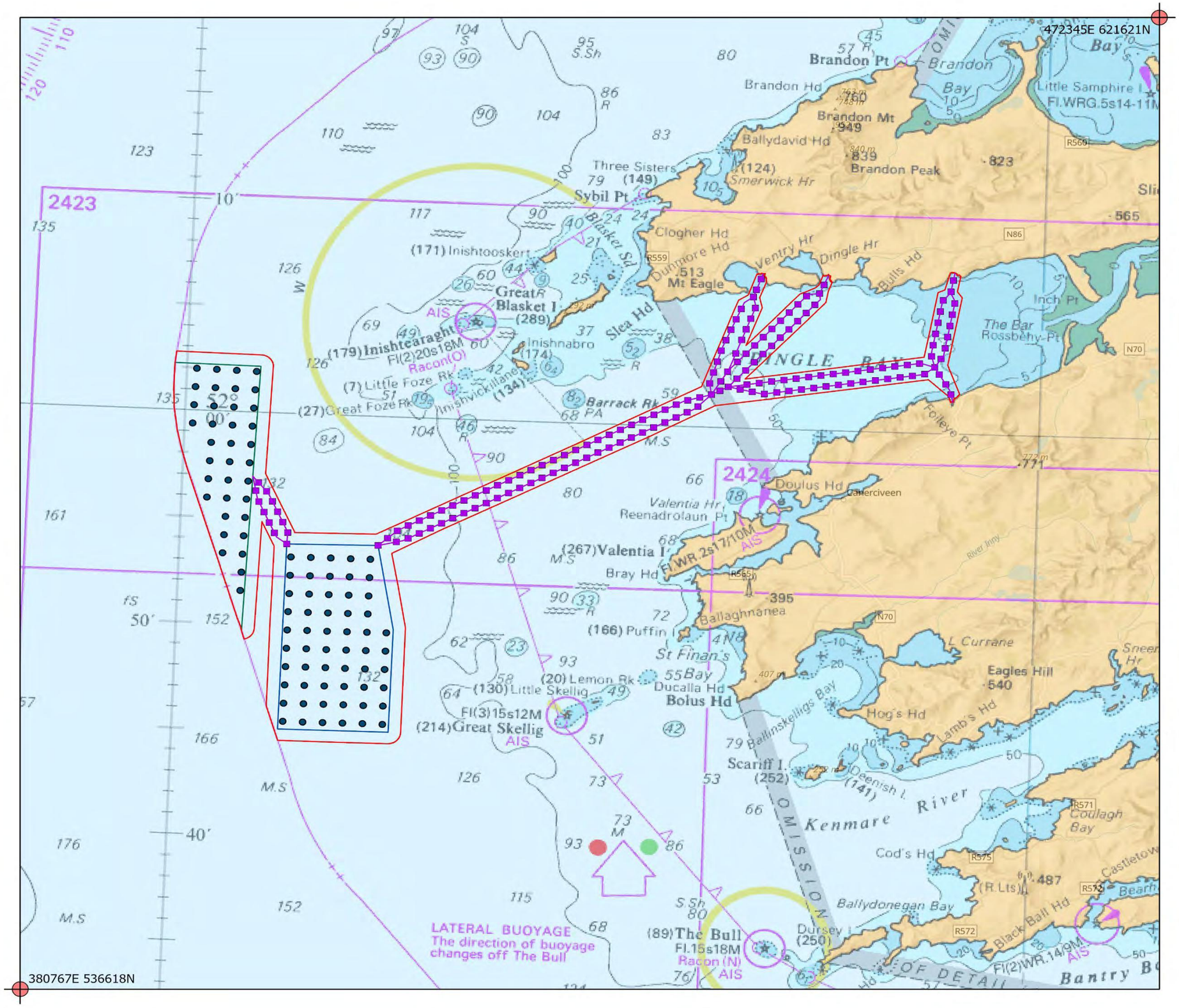
Map 12: Cable Landfall Point Option D



Site Layout: Geotechnical and Geophysical Works

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)

Legend

- Foreshore Licence Area
- Nearshore Array A
- Nearshore Array B
- Cable Routes
- CPT / Boreholes
- Indicative Vibrocore/Gravity Sample + CPT Sample
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Geotechnical and Geophysical Works

Drawing No.: 382

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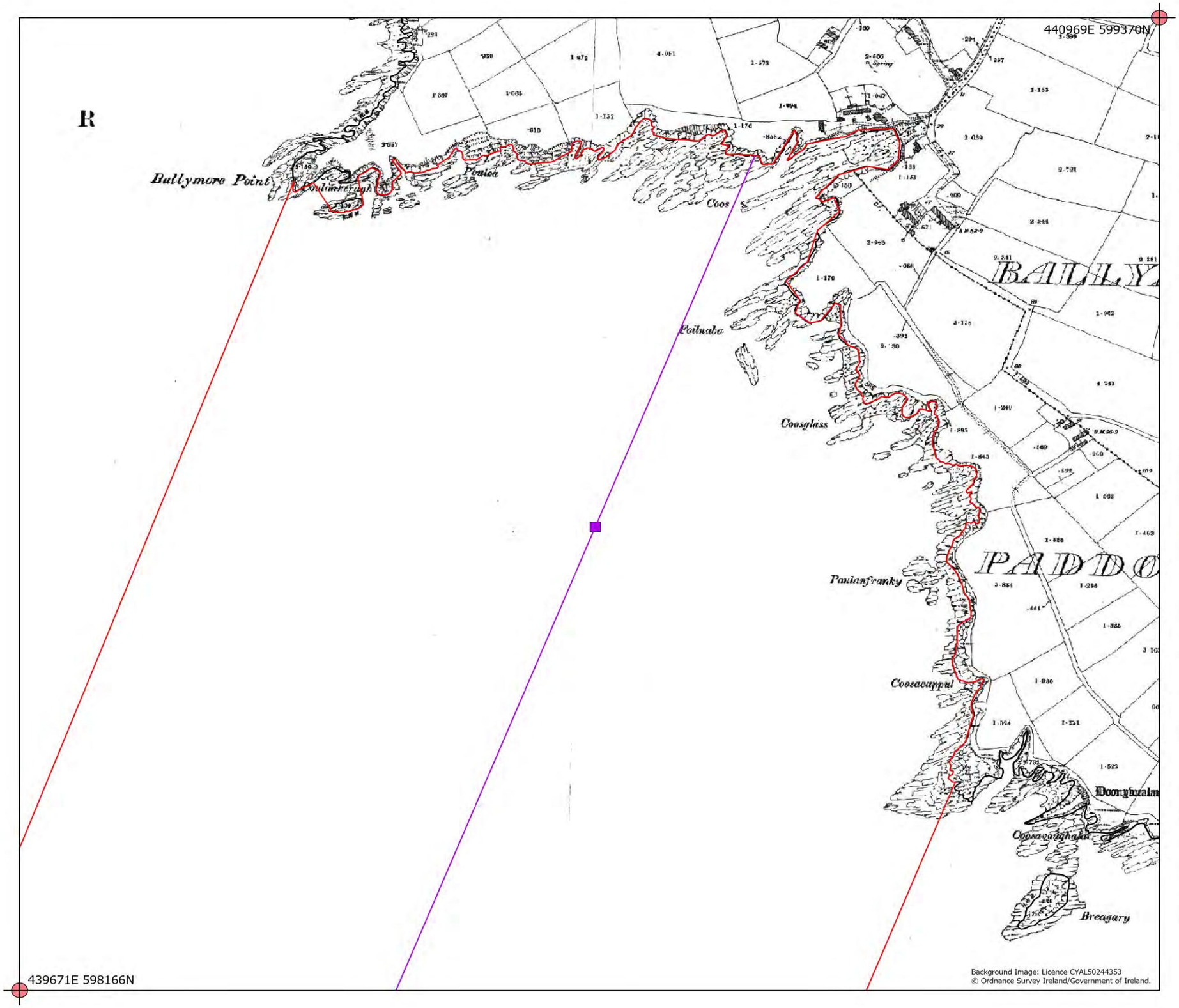
Map 15: Geotechnical and Geophysical Survey Works



Site Layout: Geotechnical and Geophysical Works Option A

Project: Valentia Island Energy

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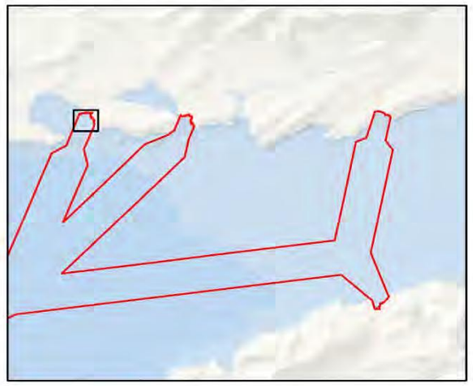

Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Vibrocore/Gravity Sample + CPT Sample
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Geotechnical and Geophysical Works

Drawing No.: 388

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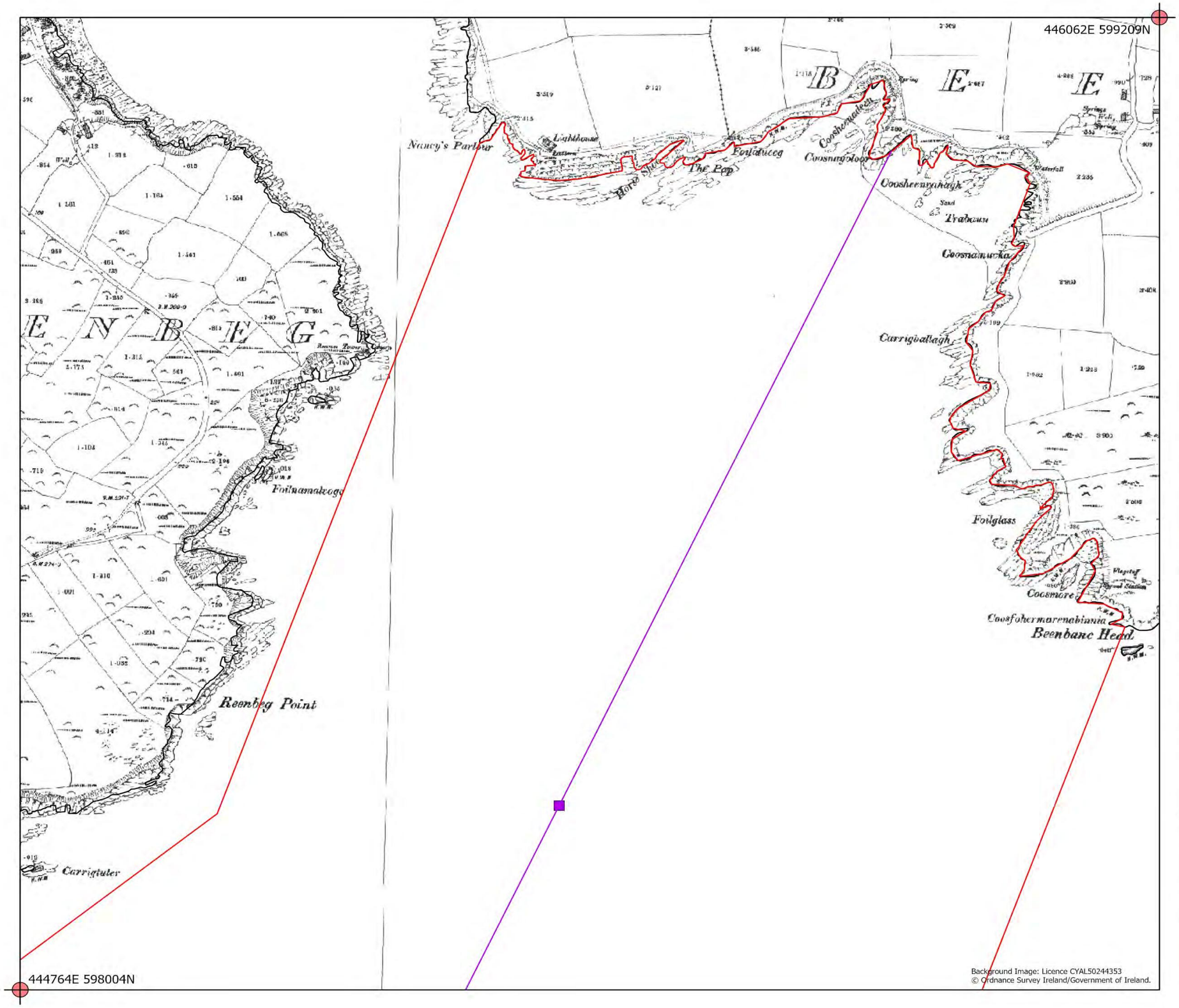
Map 16: Geotechnical and Geophysical Survey Works at Cable Landfall Point Option A



Site Layout: Geotechnical and Geophysical Works Option B

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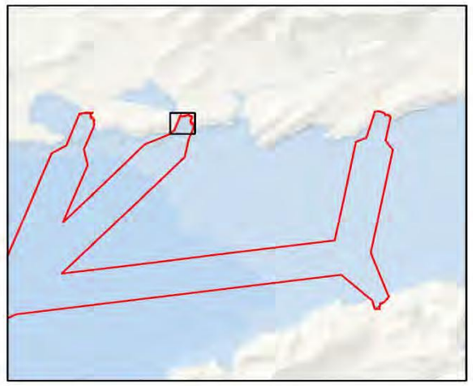

Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Vibrocore/Gravity Sample + CPT Sample
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Geotechnical and Geophysical Works

Drawing No.: 389

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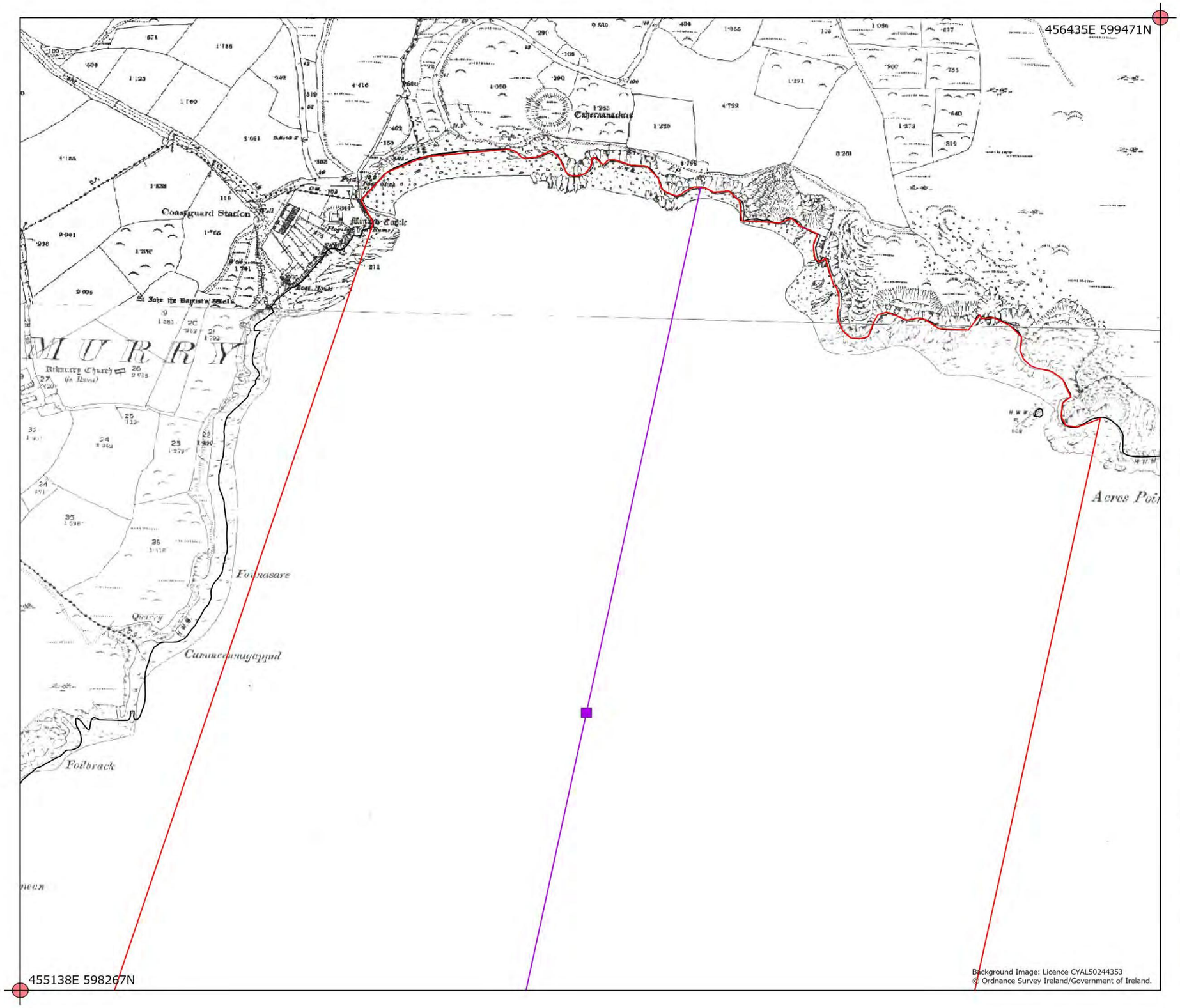
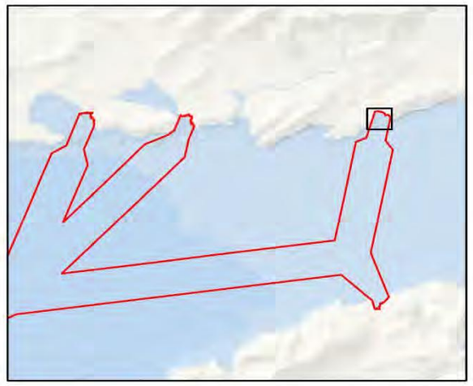
Map 17: Geotechnical and Geophysical Survey Works at Cable Landfall Point Option B



Site Layout: Geotechnical and Geophysical Works Option C

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)



Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Vibrocore/Gravity Sample + CPT Sample
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Geotechnical and Geophysical Works

Drawing No.: 390

File Ref: FS007365

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Scale: 1:4,250@ A3

N

Coordinate System: IRENET95 Irish Transverse Mercator

0 55 110 220 Meters

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01	03/03/2021	[redacted]	
02	01/06/2022		

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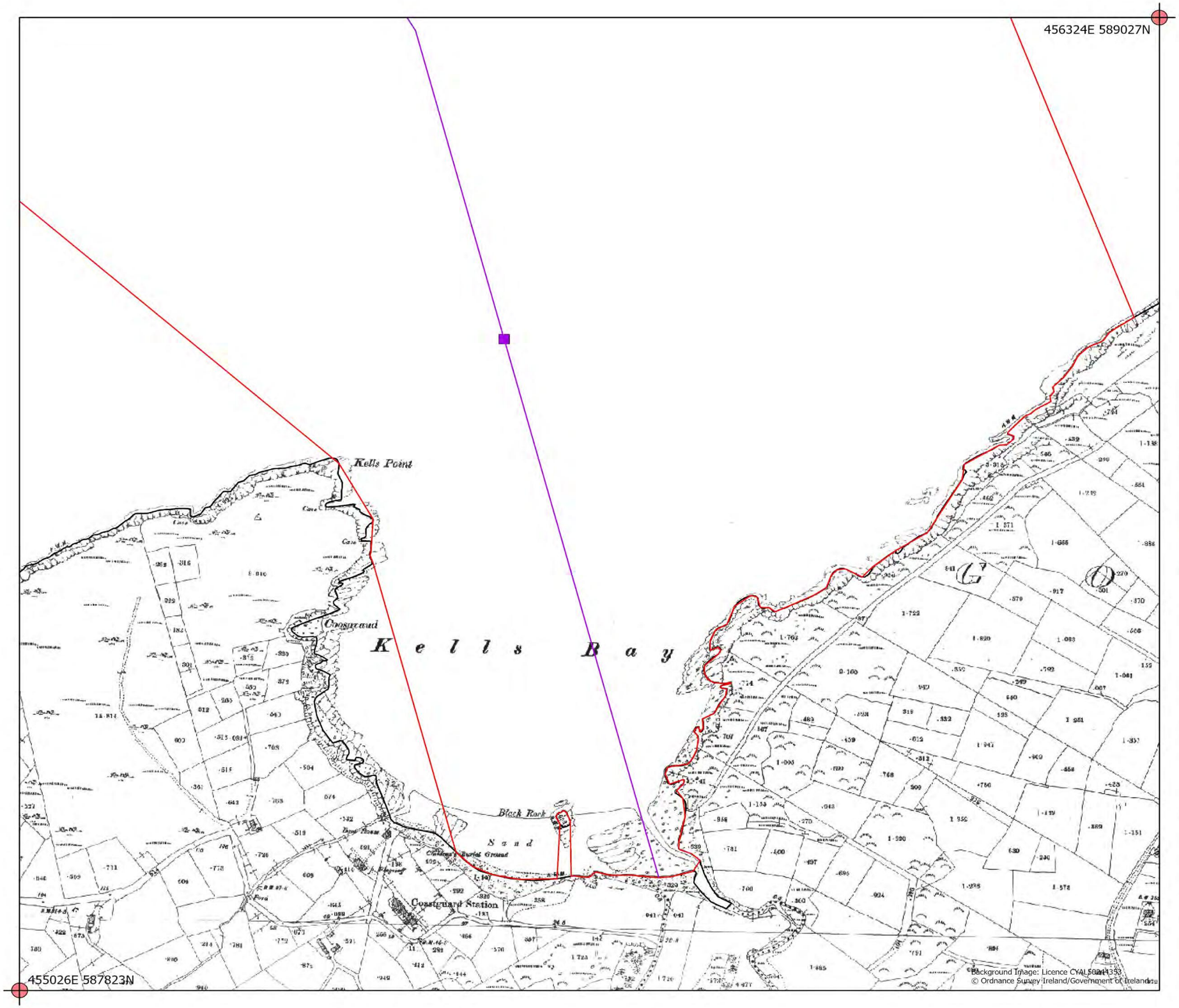
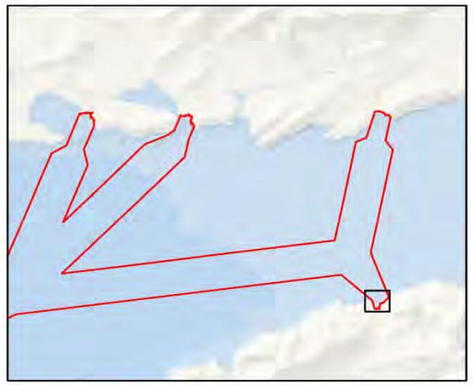
Map 18: Geotechnical and Geophysical Survey Works at Cable Landfall Point Option C



Site Layout: Geotechnical and Geophysical Works Option D

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)



Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Vibrocore/Gravity Sample + CPT Sample
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Geotechnical and Geophysical Works

Drawing No.: 391

File Ref: FS007365

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Coordinate System: IRENET95 Irish Transverse Mercator

0 55 110 220 Meters

N

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01	03/03/2021	[redacted]	
02	01/06/2022		

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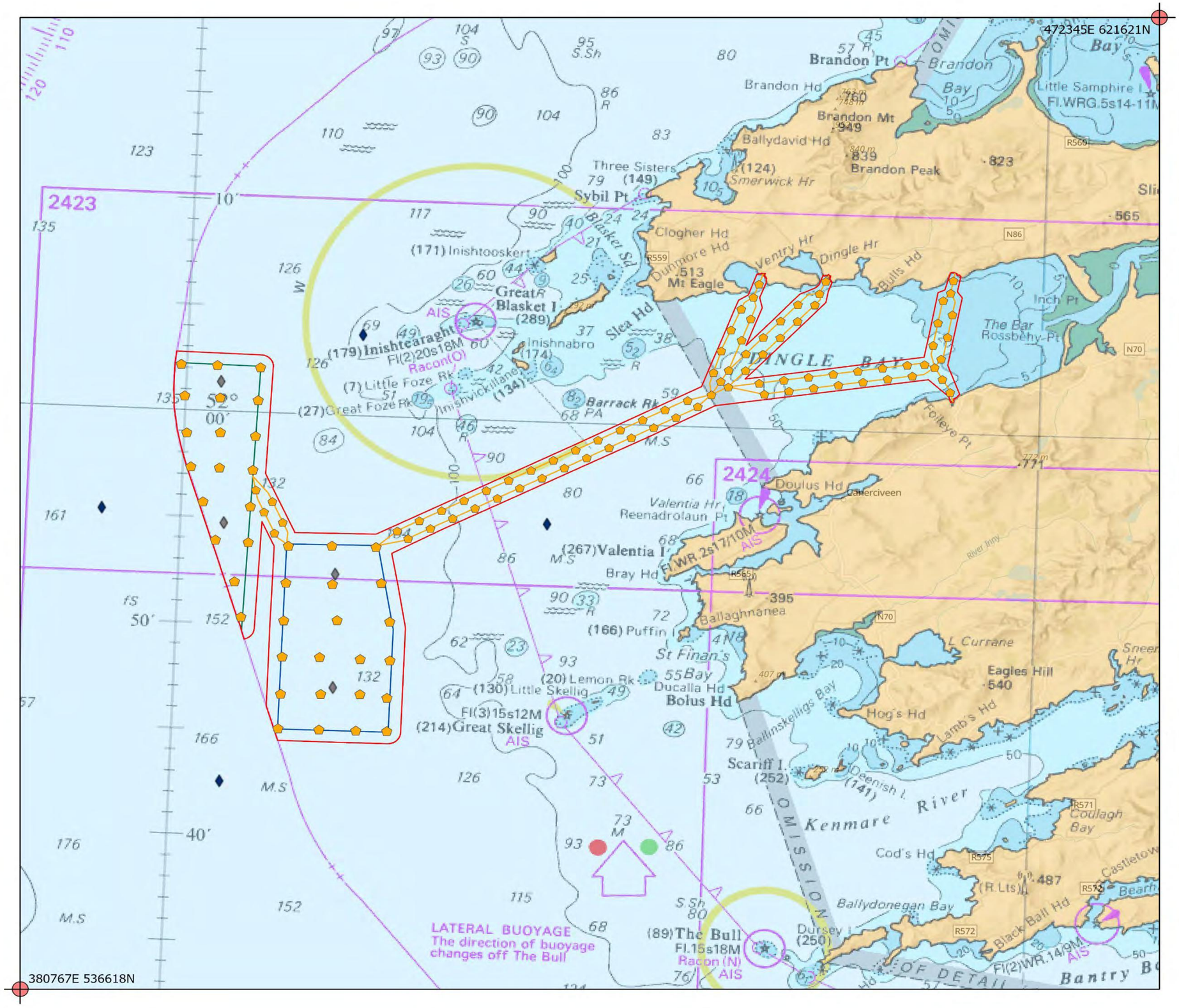
Map 19: Geotechnical and Geophysical Survey Works at Cable Landfall Point Option D



Site Layout: Environmental Works

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)

Legend

- Foreshore Licence Area
- Nearshore Array A
- Nearshore Array B
- Cable Routes
- Indicative Grab Samples
- Indicative PODs
- Additional PODs
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Environmental Works

Drawing No.: 381

File Ref: FS007365

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Scale: 1:300,000@ A3

Coordinate System: IRENET95 Irish Transverse Mercator

0 3.5 7 14 Kilometers

N

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01	03/03/2021	[redacted]	
02	01/06/2022		

[redacted]

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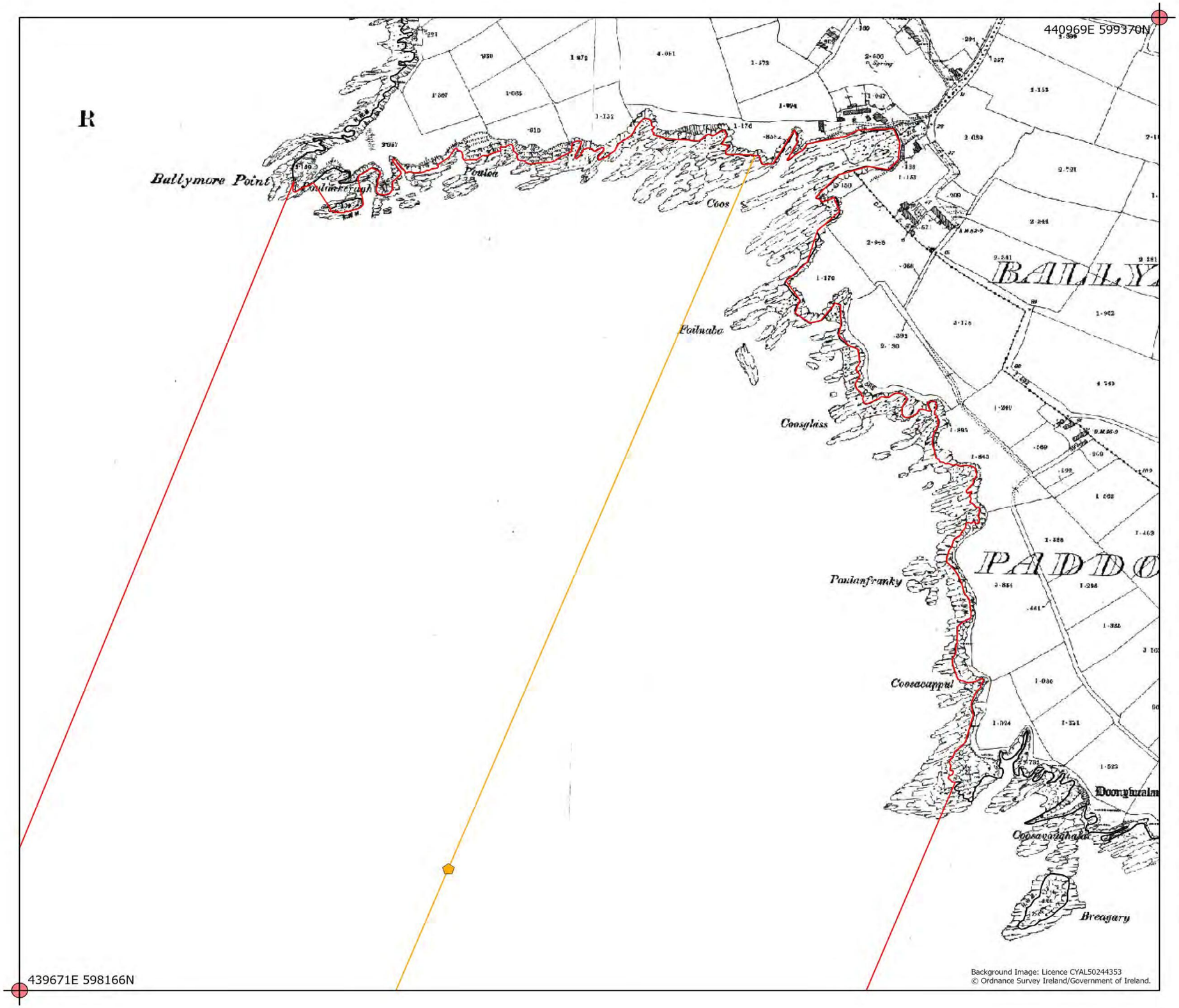
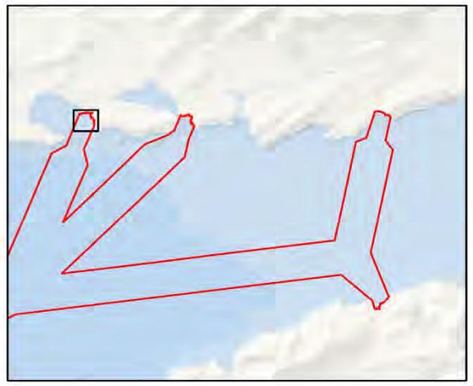
Map 20: Environmental Works



Site Layout: Environmental Works Option A

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)



Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Grab Samples
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Environmental Works

Drawing No.: 392

File Ref: FS007365

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Coordinate System: IRENET95 Irish Transverse Mercator

0 55 110 220 Meters

N

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[redacted]

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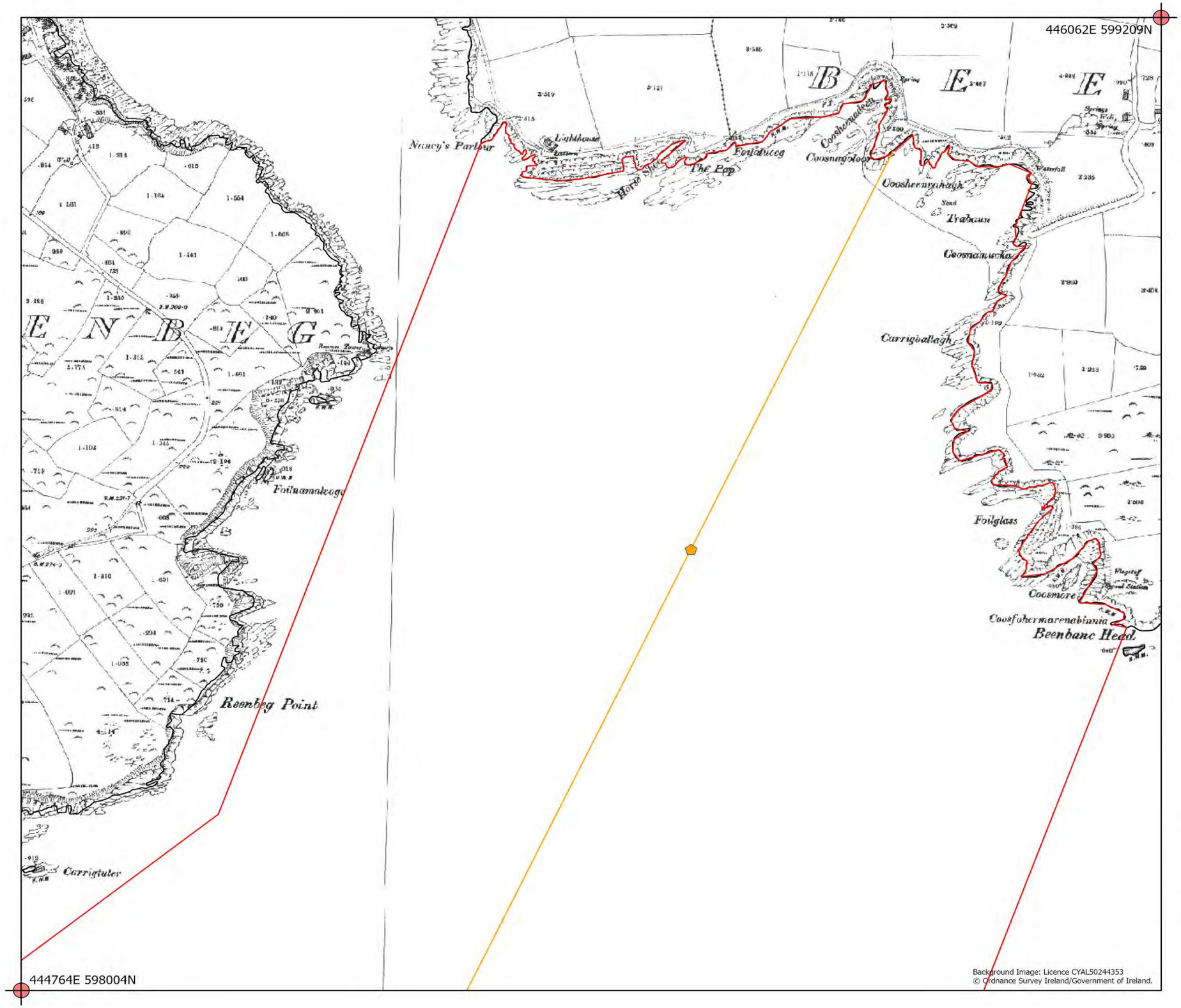
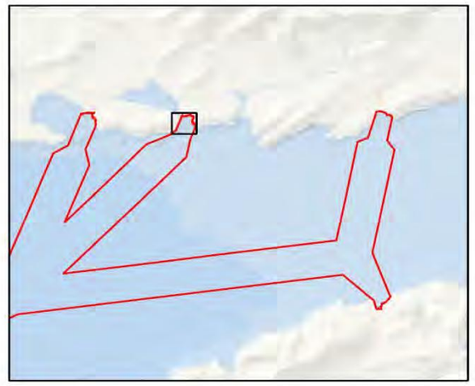
Map 21: Environmental Works at Cable Landfall Point Option A



Site Layout: Environmental Works Option B

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)



Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Grab Samples
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Environmental Works

Drawing No.: 393

File Ref: FS007365

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0 55 110 220 Meters

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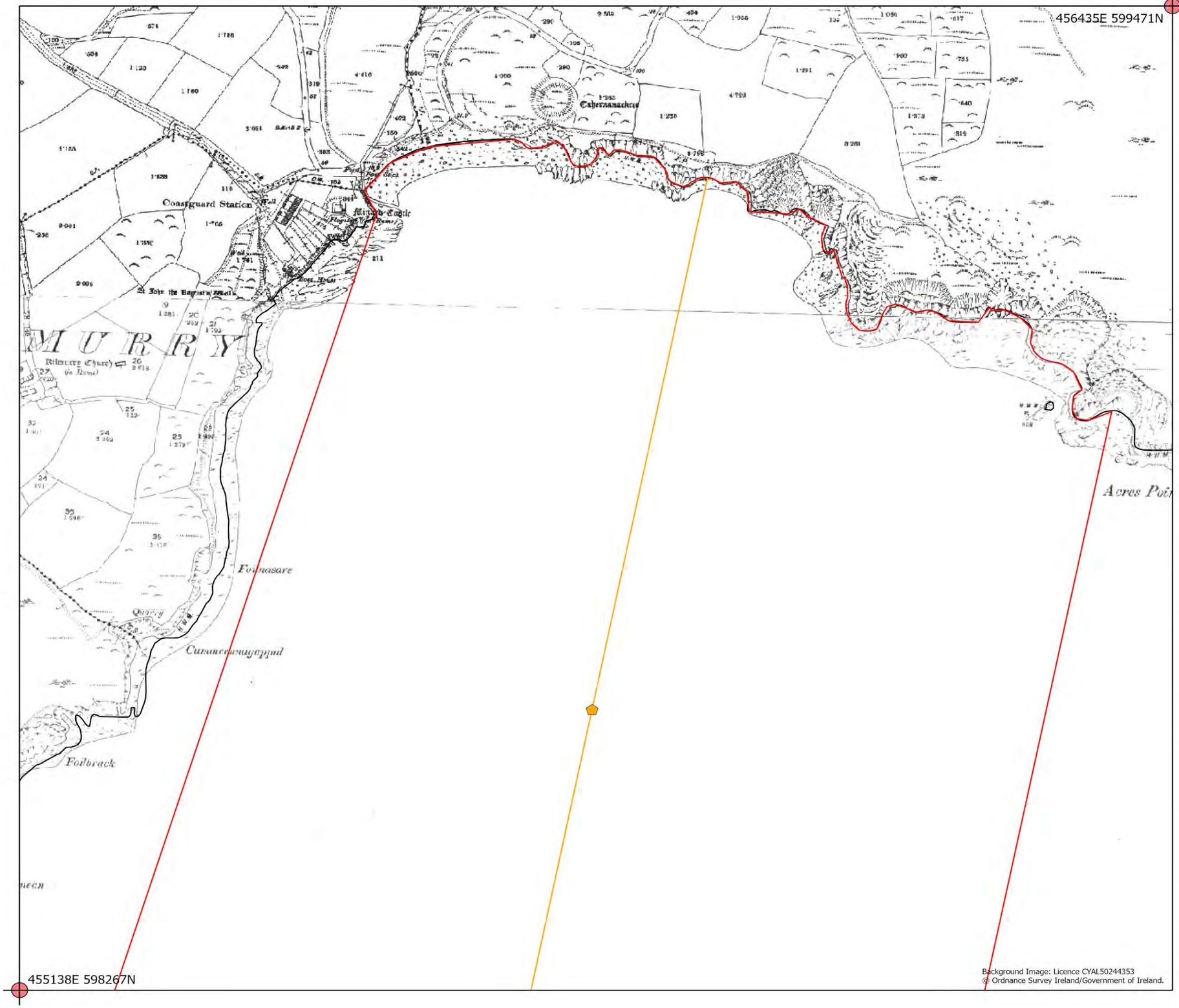
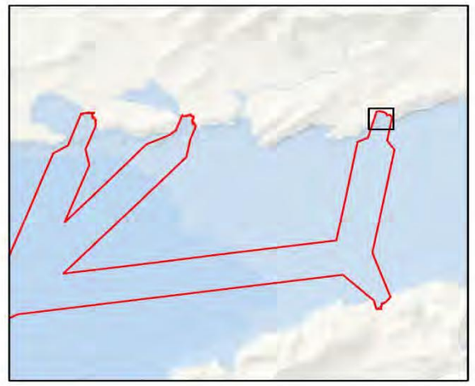
Map 22: Environmental Works at Cable Landfall Point Option B



Site Layout: Environmental Works Option C

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)



Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Grab Samples
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Environmental Works

Drawing No.: 394

File Ref: FS007365

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Coordinate System: IRENET95 Irish Transverse Mercator

0 55 110 220 Meters

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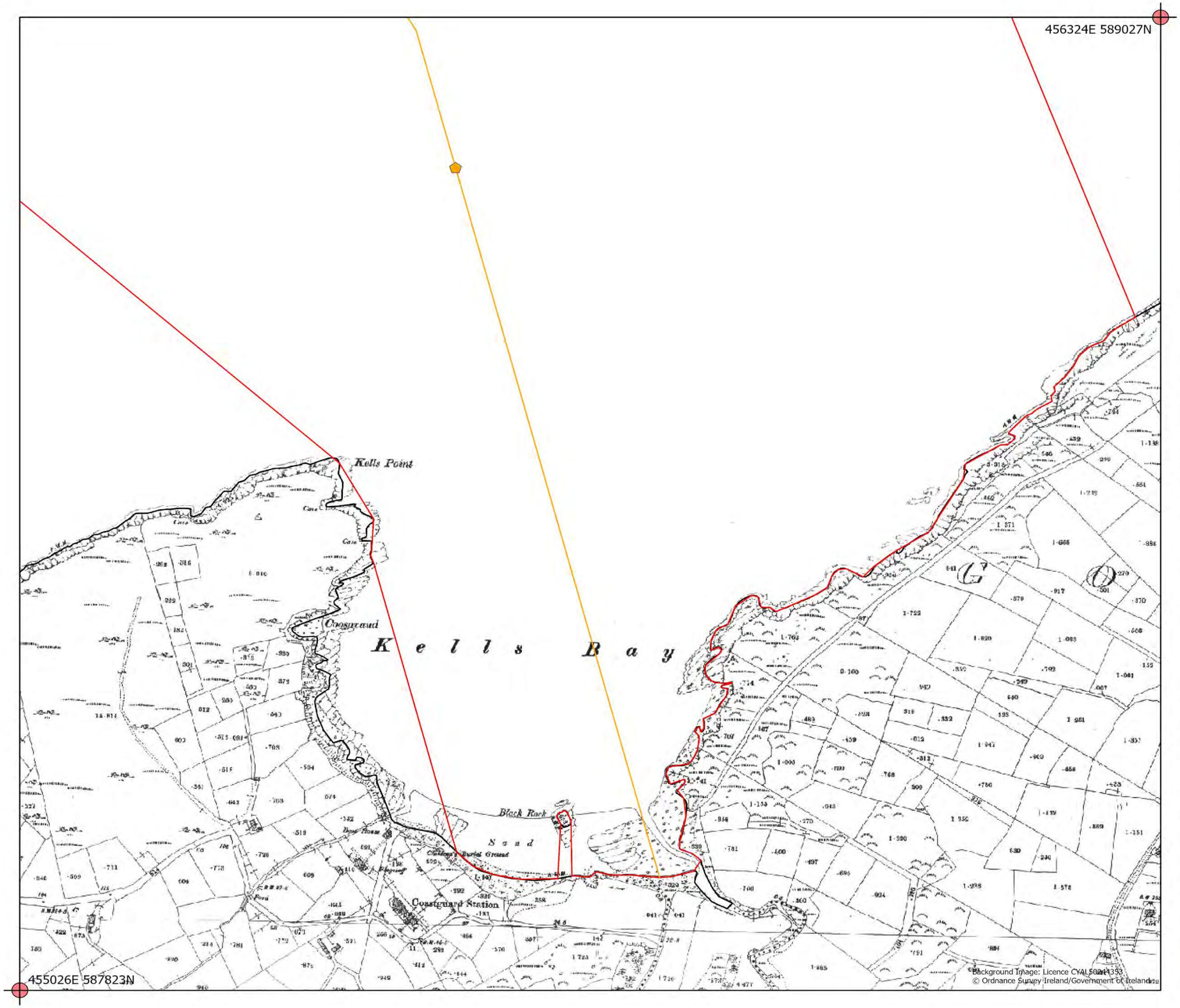
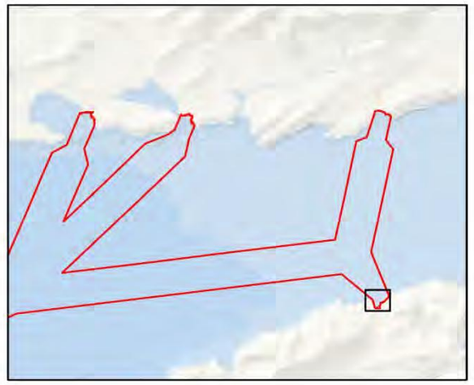
Map 23: Environmental Works at Cable Landfall Point Option C



Site Layout: Environmental Works Option D

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)



Legend

- Foreshore Licence Area
- Cable Routes
- HWM
- Indicative Grab Samples
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Environmental Works

Drawing No.: 395

File Ref: FS007365

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0 55 110 220 Meters

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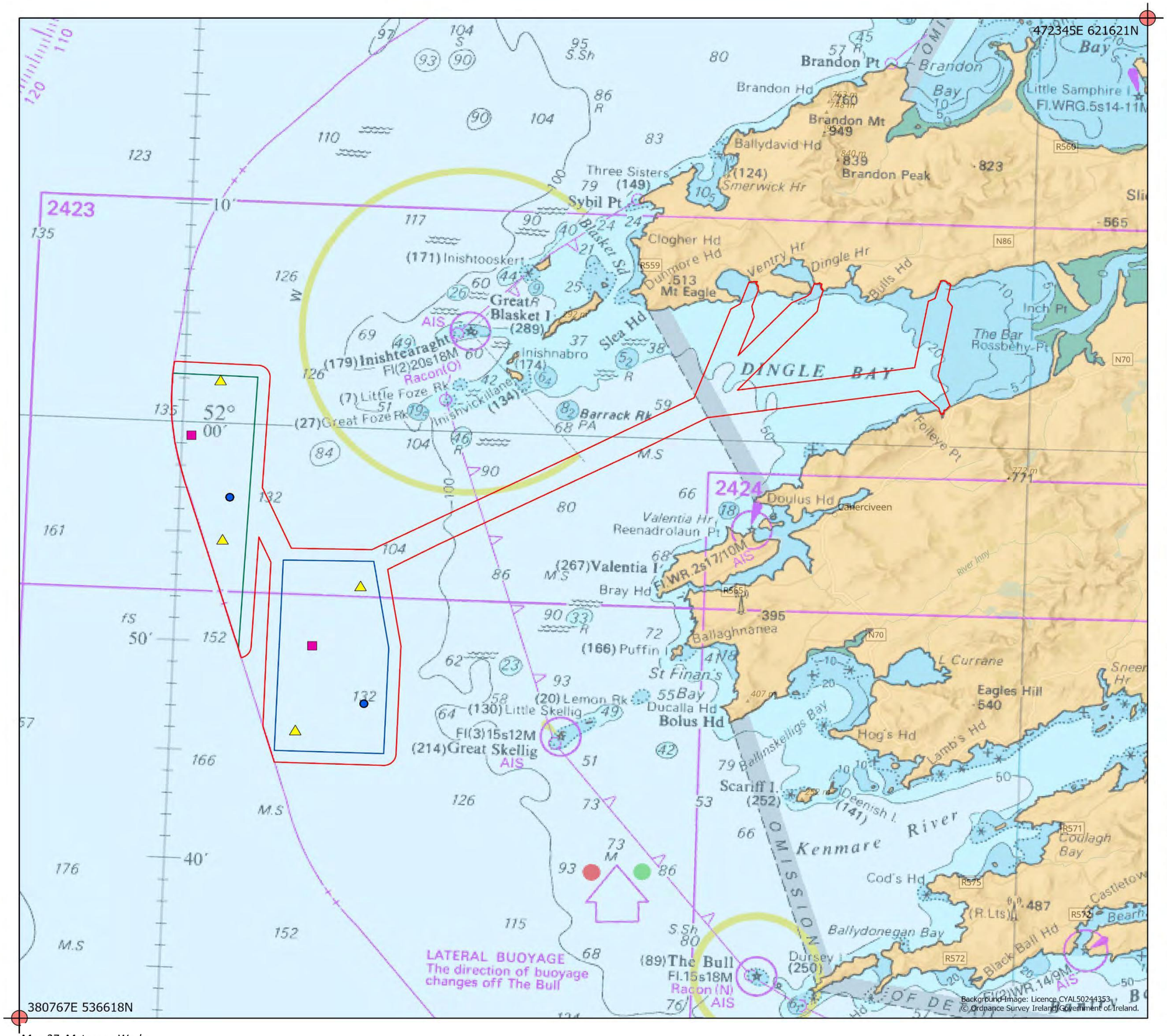
Map 24: Environmental Works at Cable Landfall Point Option D



Site Layout: Metocean Works

Project: Valentia Island Energy

To be read in conjunction with the Schedule of Works (FS007365)

Legend

- Foreshore Licence Area
- Nearshore Array A
- Nearshore Array B
- Wave Buoy
- ADCP
- Floating LIDAR
- ITM Grid Coordinate Intersect

Drawing Title: Site Layout: Metocean Works

Drawing No.: 383

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0 3,750 7,500 15,000 Meters

N

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Map 27: Metocean Works