

FIGURE NO. FIGURE NAME

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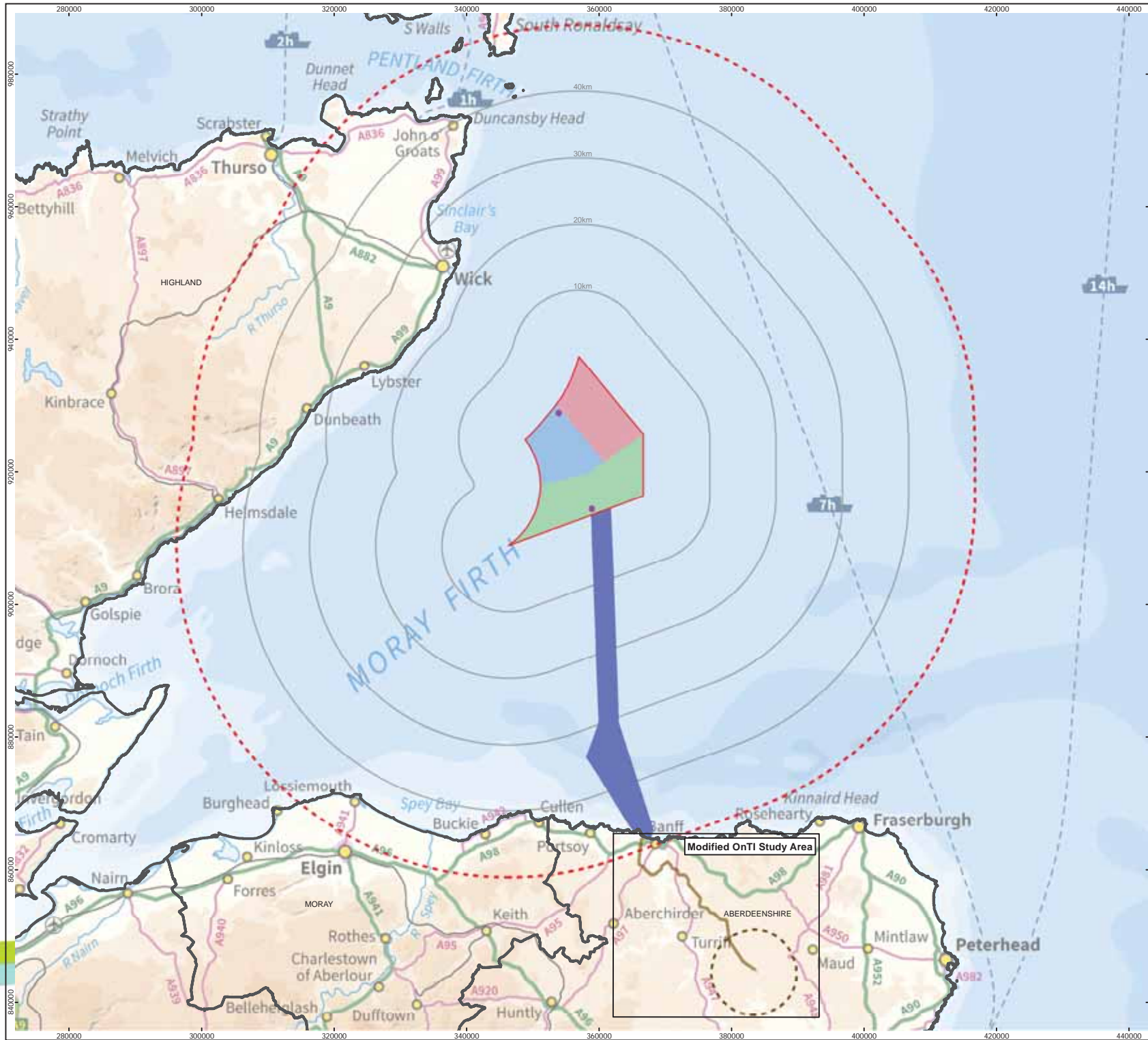
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Cumulative Impact Assessment

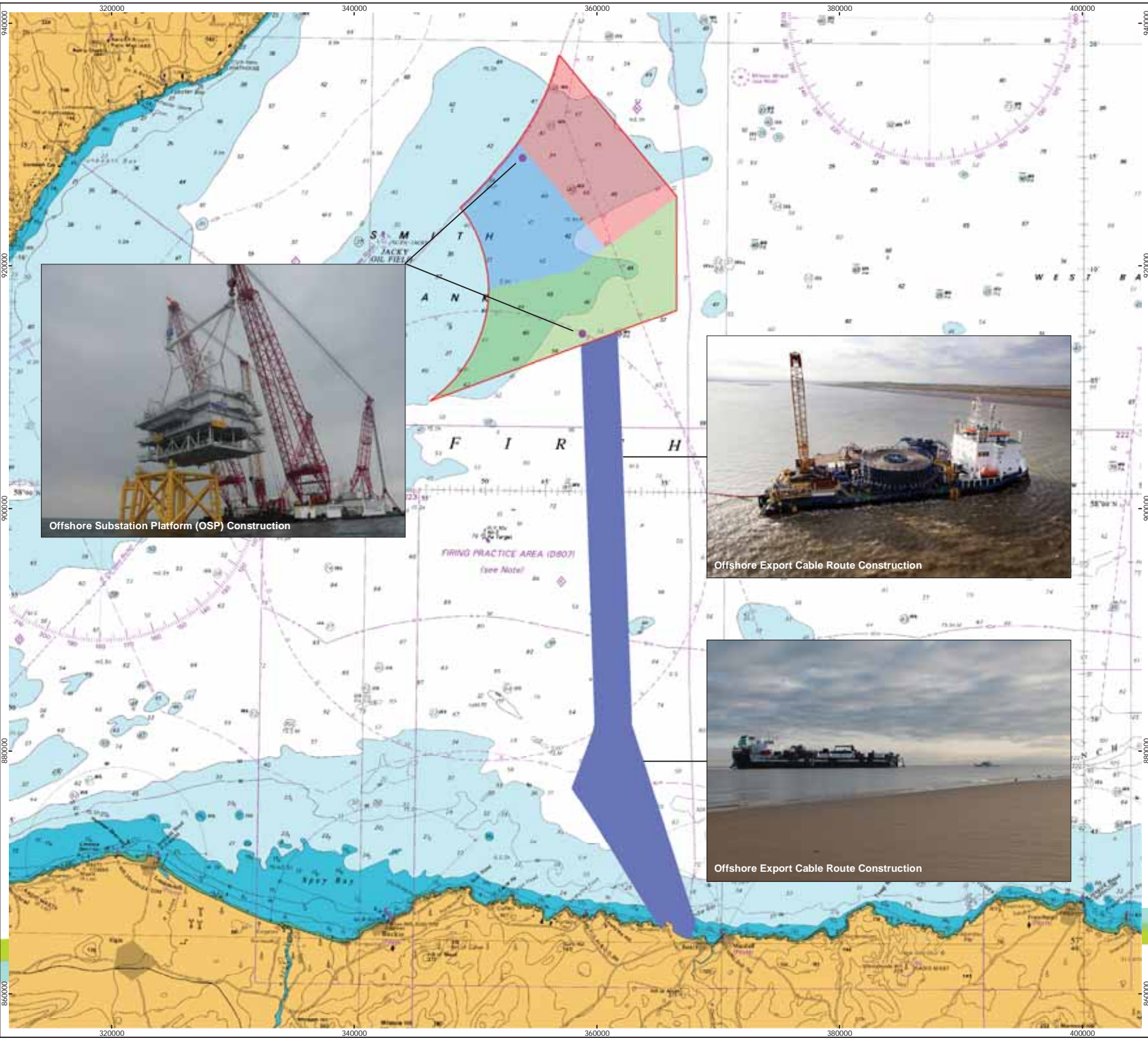
5.3-38	Modified OnTI: Cumulative Development Context
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Moray Offshore Renewables Ltd

- KEY**
- Telford Offshore Wind Farm
 - Stevenson Offshore Wind Farm
 - MacColl Offshore Wind Farm
 - Modified Offshore Export Cable Route Corridor
 - Offshore Substation Platform (Indicative Location)

Horizontal Scale: 1:300,000 A3 Chart
 0 7,500 15,000 Meters

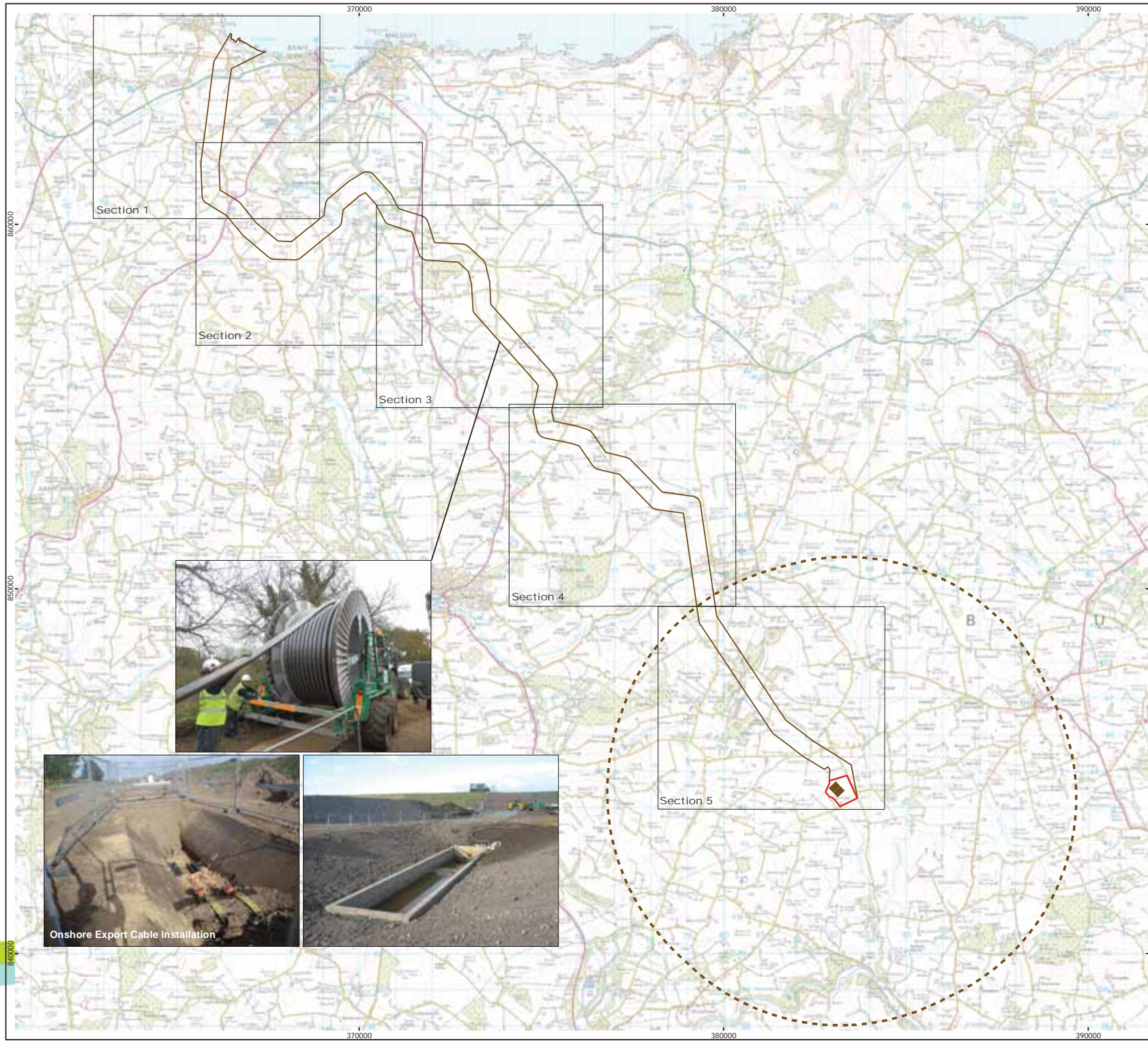
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 REF: 8460001-PSO0021-OPE-MAP-002





Figure 5.3-2
Modified OfTI: Study Area & Rochdale Envelope
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Moray Offshore Renewables Ltd

KEY

-  Indicative Onshore Substation Location
-  Onshore Substation Area
-  Modified Onshore Export Cable Route Corridor
-  Onshore Substation Study Area

Horizontal Scale: 1:100,000 A3 Chart


Geodetic Parameters: OSGB British National Grid

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 Approved: LT

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 REF: 8460001-PSO0021-OPE-MAP-003

**Figure 5.3-3
 Modified OnTI: Study Area
 & Route Corridor**

Moray Offshore
 Renewables Ltd



Moray Offshore Renewables Ltd

KEY

- Modified Offshore Export Cable Route Corridor
- Modified Onshore Export Cable Route Corridor

Note - Pictures illustrate landfall construction.

Horizontal Scale: 1:20,000 A3 Chart

Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

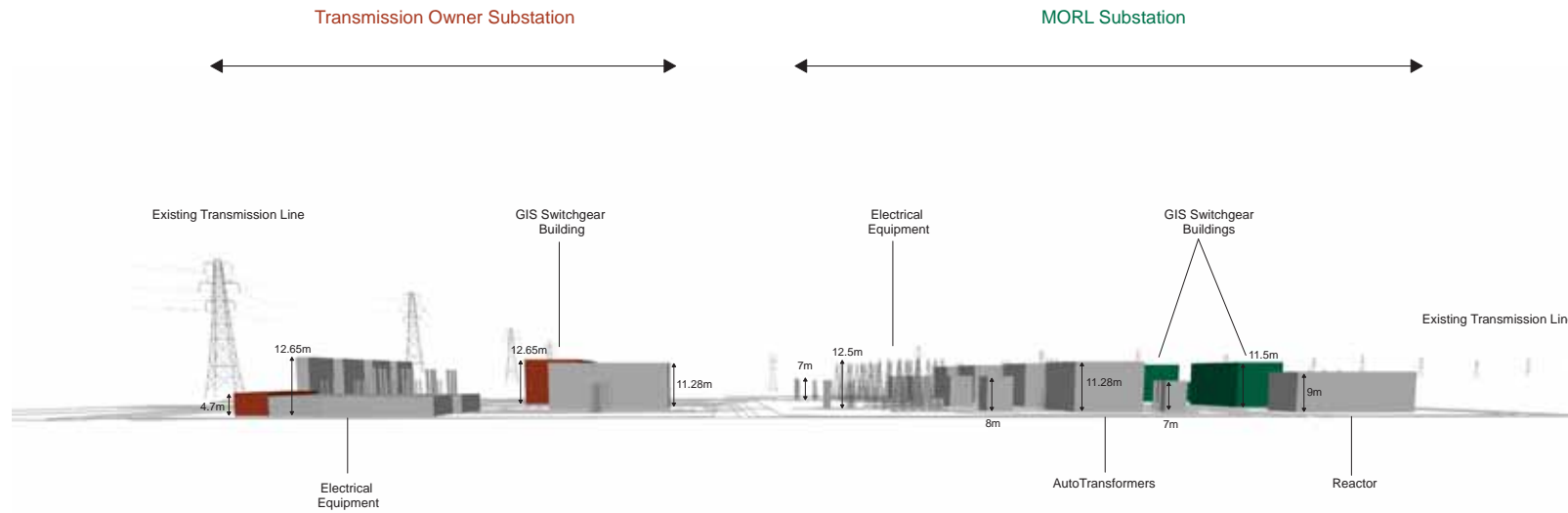
Date: 24/06/2014 Revision: B
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Figure 5.3-4
Modified Export Cable
Landfall(s): Rochdale Envelope

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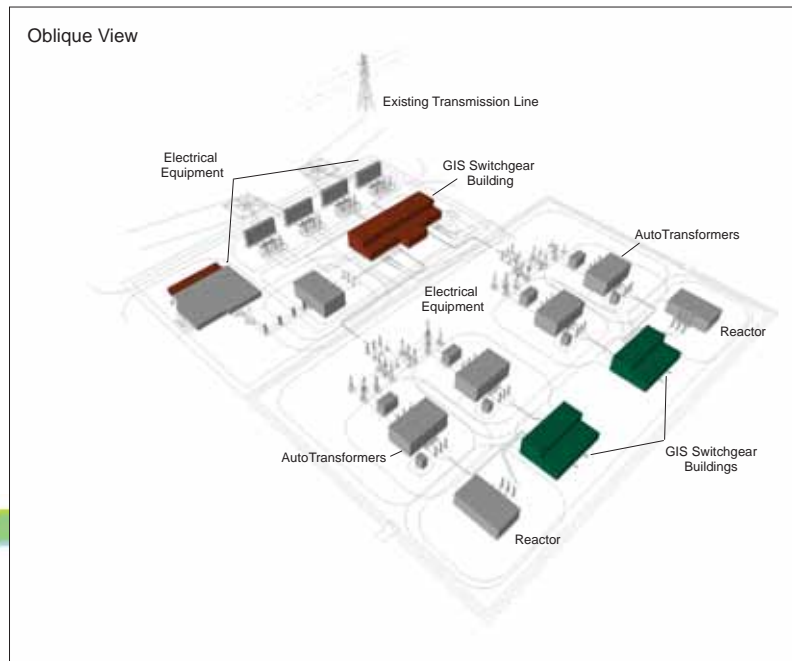
Perspective View



Plan View



Oblique View



Moray Offshore Renewables Ltd

KEY

Indicative Onshore Substation Location

MORL Substation Layout:

Substation Building Development Envelope

Electrical Equipment Development Envelope

Transmission Owner Substation Layout:

Substation Building Development Envelope

Electrical Equipment Development Envelope

Geodetic Parameters: OSGB British National Grid

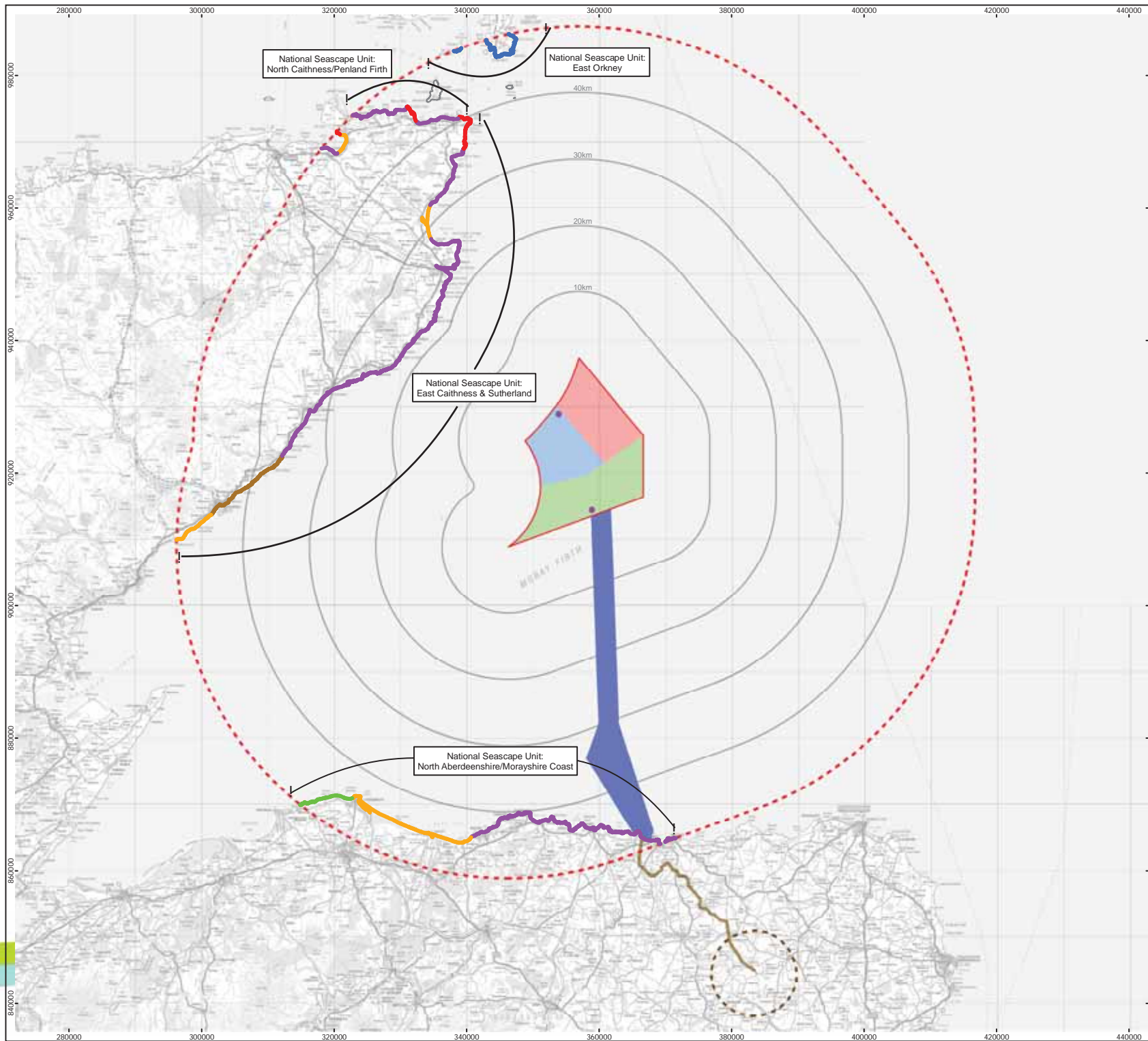
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Date: 24/06/2014 Revision: B
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Figure 5.3-5
Onshore Substations:
Rochdale Envelope

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Moray Offshore Renewables Ltd

KEY

Offshore:

- Telford Offshore Wind Farm
- Stevenson Offshore Wind Farm
- MacColl Offshore Wind Farm
- Modified Offshore Export Cable Route Corridor
- Offshore Substation Platform (Indicative Location)
- 10km Distance Radii
- SLVIA Study Area

Onshore:

- Modified Onshore Export Cable Route Corridor
- Onshore Substation Study Area

National Coastal Character Type:

- Type 1 - Remote High Cliffs
- Type 2 - Rocky Coastline / Open Sea Views
- Type 3 - Deposition Coastline, Open Views
- Type 4 - Outer Firths
- Type 6 - Narrow Coastal Shelf
- Type 12 - Deposition Coasts of Islands

Horizontal Scale: 1:550,000 A3 Chart

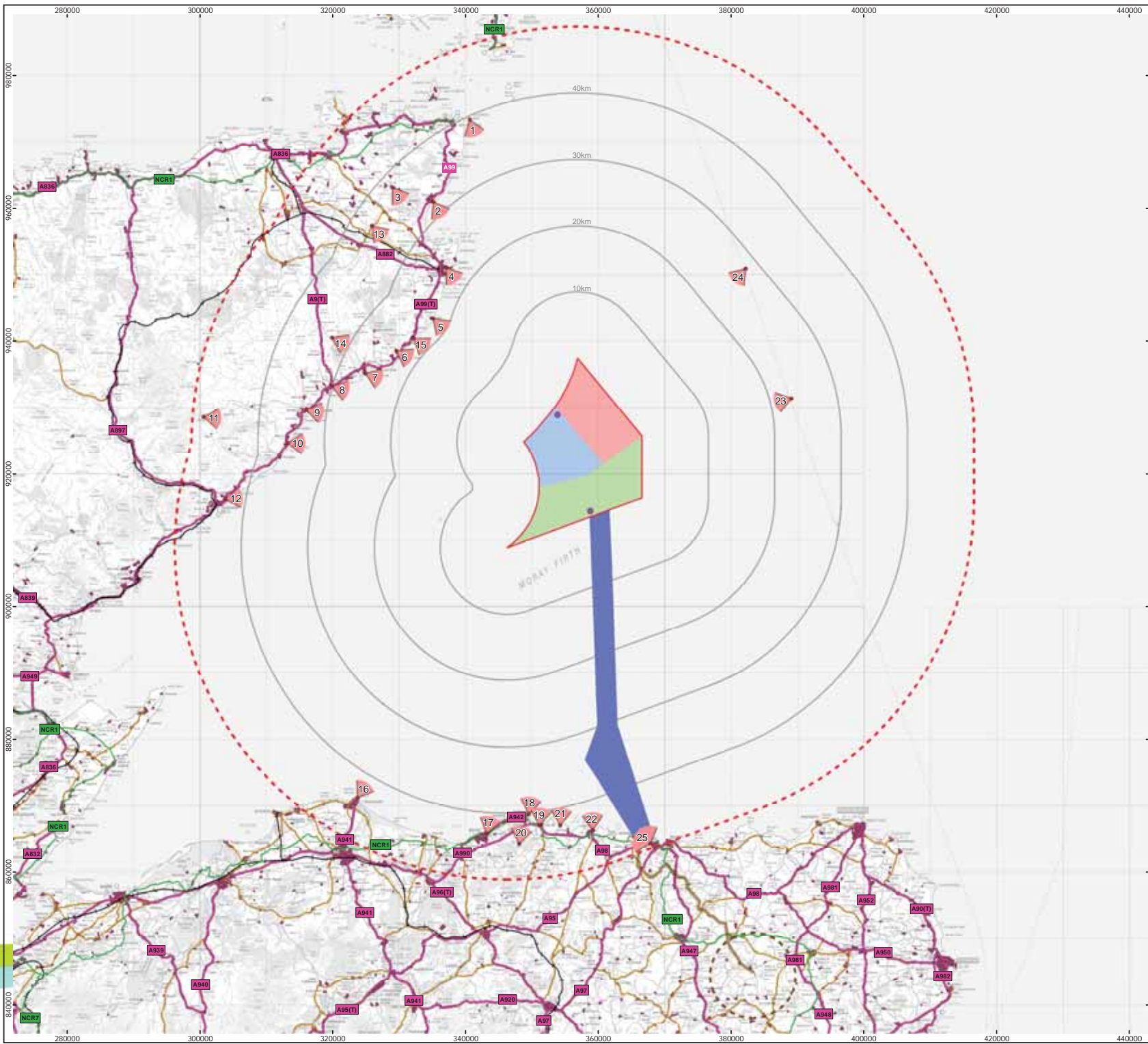
Geodetic Parameters: OSGB British National Grid

Produced: LA
Reviewed: SM
Approved: LT

Date: 26/06/2014 Revision: B
REF: 8460001-PSO0021-OPE-MAP-006

Figure 5.3-6
Modified OfTI:
Seascape Character (Context)

Moray Offshore
Renewables Ltd



Moray Offshore Renewables Ltd

KEY

Offshore:

- Telford Offshore Wind Farm
- Stevenson Offshore Wind Farm
- MacColl Offshore Wind Farm
- Modified Offshore Export Cable Route Corridor
- Offshore Substation Platform (Indicative Location)

10km Distance Radii

SLVIA Study Area

Onshore:

- Modified Onshore Export Cable Route Corridor
- Onshore Substation Study Area

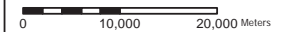
Principal Visual Receptors:

- A Road
- B Road
- Railway
- National Cycle Route
- Urban Area (Source - OS Strategi)

Viewpoint Location:

- | | |
|------------------------------------|--|
| 1 Duncansby Head | 14 Minor Rd |
| 2 Keiss Pier | 15 Whalgie Steps |
| 3 Sornat | 16 Lossiemouth Harbour |
| 4 Wick Bay | 17 Buckie |
| 5 Sarnet (Sarnet Haven Info Board) | 18 Portnockie - Bow Fiddle Rock Info Point |
| 6 Hill Of Many Staves | 19 Cuten |
| 7 Lybster (end of Main Street) | 20 Bin Hill |
| 8 Latheron (A9) | 21 Findlater Castle (Check height) |
| 9 Dunbeath (w/ Heritage Centre) | 22 Portsoy |
| 10 Berriedale (A9) | 23 Ferry Route (Kirkwall to Aberdeen) 1 |
| 11 Morven | 24 Ferry Route (Kirkwall to Aberdeen) 2 |
| 12 Navidale | 25 Inverboyndie Bay |
| 13 Cachory | |

Horizontal Scale: 1:550,000 A3 Chart



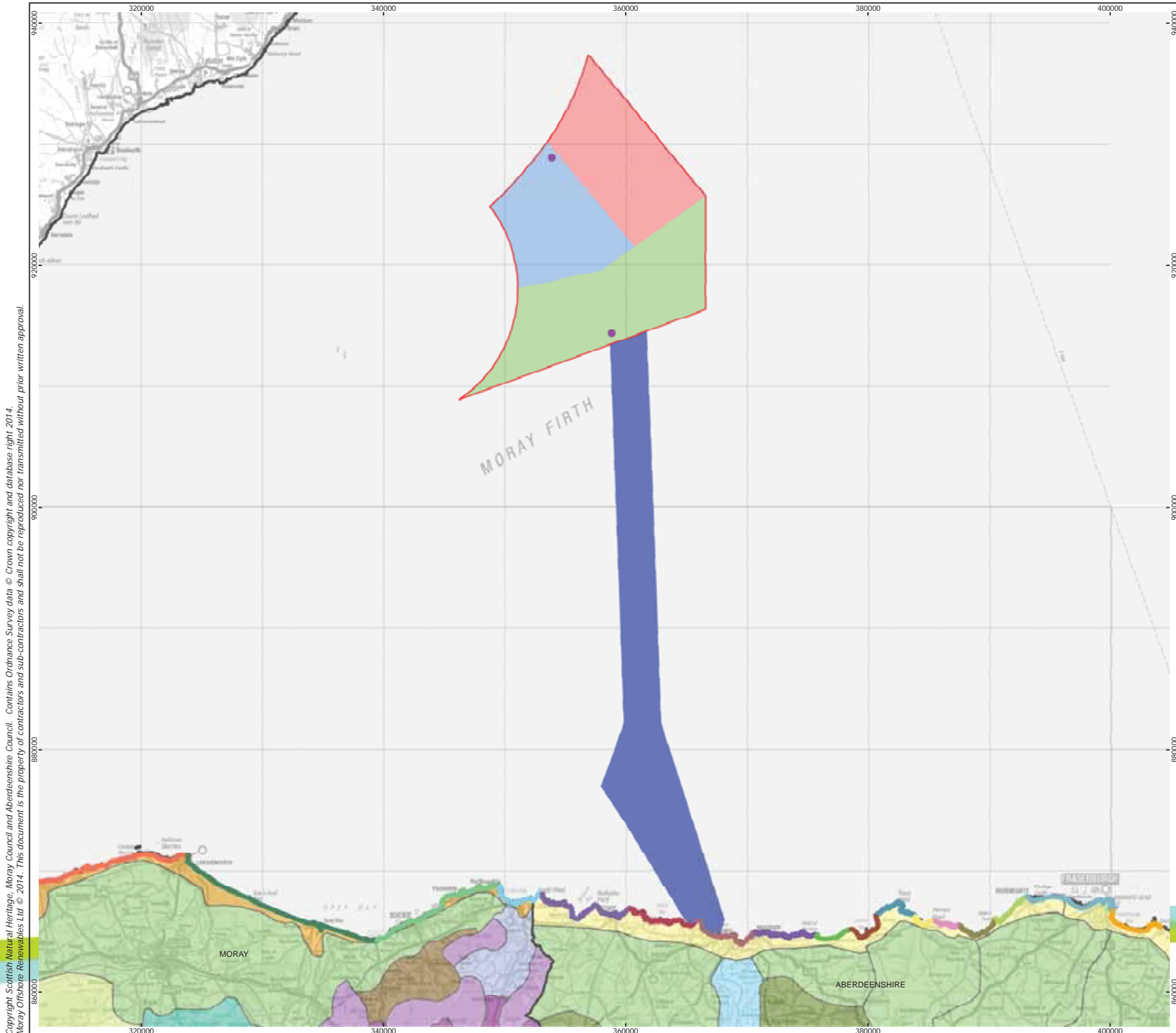
Geodetic Parameters: OSGB British National Grid

Produced: LA
Reviewed: SM
Approved: LT

Date: 24/06/2014 Revision: B
REF: 8460001-PSO0021-OPE-MAP-007

Figure 5.3-7
Modified OfTI: Visual Receptors & Viewpoints (Context)

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Moray Offshore Renewables Ltd

- KEY**
- Telford Offshore Wind Farm
 - Stevenson Offshore Wind Farm
 - MacColl Offshore Wind Farm
 - Modified Offshore Export Cable Route Corridor
 - Offshore Substation Platform (Indicative Location)

- Moray Landscape Character Type:**
- | | |
|--|---|
| Broad Forested Hills within Upland Farmland | Rolling Farmlands & Forests |
| Coastal Farmland | Rolling Farmlands & Forests with Valleys |
| Coastal Farmland with Rolling Hills | Upland Farmland |
| Coastal Margin | Valleys within Upland Farmland |

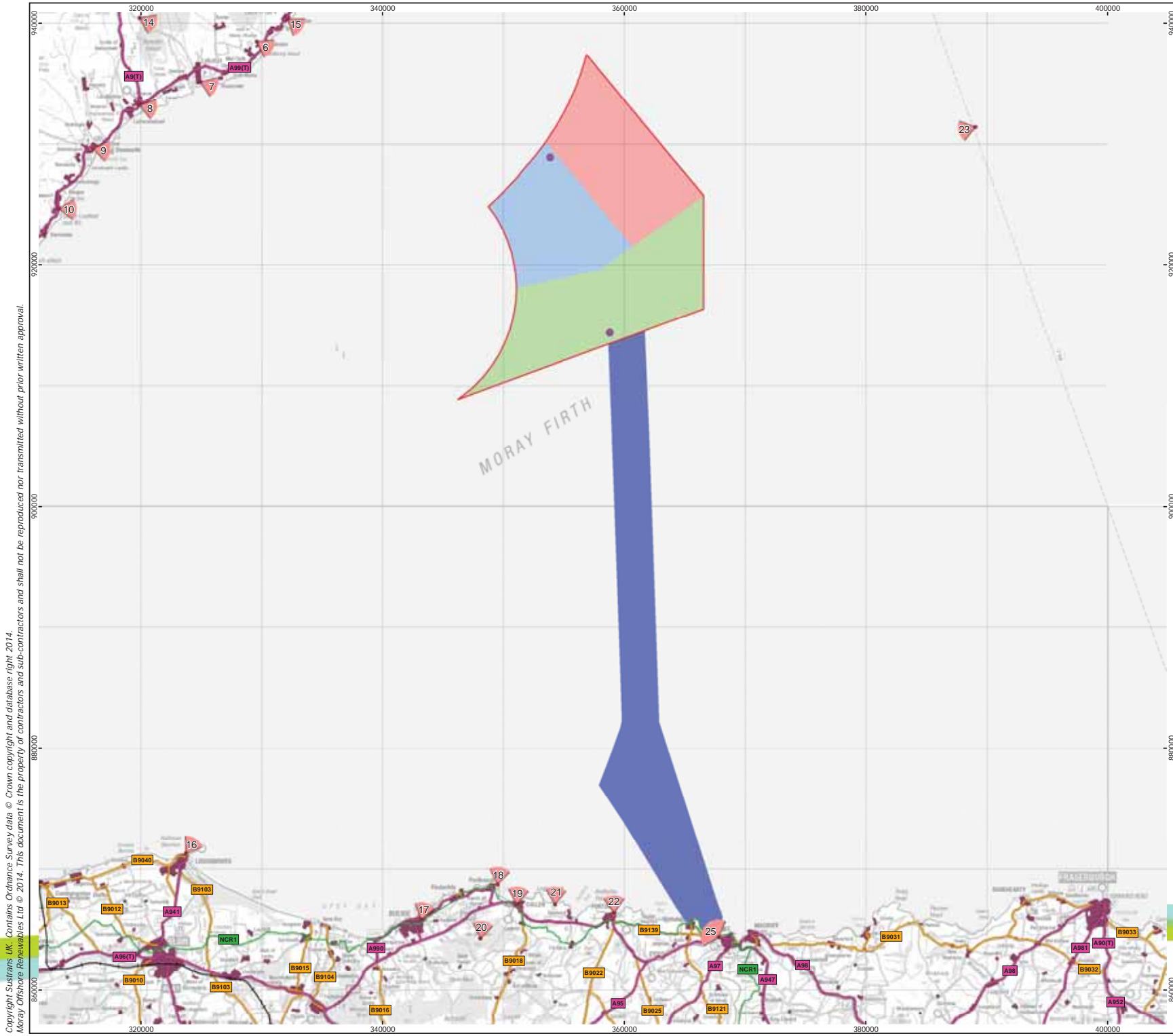
- Aberdeenshire Landscape Character Type:**
- | | |
|---|--|
| Agricultural Heartland | River Valleys |
| Coastal Farmland | The Coast |

- Coastal Character Area:**
- | | |
|---|--|
| Lossiemouth to Burghead Coast | Scurs of Greenside |
| Spey Bay | Gamrie Bay |
| Portgordon to Portnockie Coast | Troup Head |
| Cullen Bay | Cullykhan and Pennan Bays |
| Sandend Bay | Pennan Head |
| Boyne Bay | Aberdour Bay |
| Boyndie Bay | Lochielair Bay |
| Macduff to Stocked Head Cliffs | 32 - Kinnaird Head |
| | 33 - Fraserburgh Bay |

Horizontal Scale: 1:300,000 A3 Chart
 0 7,500 15,000 Meters

Geodetic Parameters: OSGB British National Grid
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 Approved: LT
 Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-008

Figure 5.3-8
Modified OfTI:
Seascape & Landscape Character
 Moray Offshore Renewables Ltd



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Moray Offshore Renewables Ltd

- KEY**
- Telford Offshore Wind Farm
 - Stevenson Offshore Wind Farm
 - MacColl Offshore Wind Farm
 - Modified Offshore Export Cable Route Corridor
 - Offshore Substation Platform (Indicative Location)
- Principal Visual Receptors:**
- A Road
 - B Road
 - Railway
 - National Cycle Route
 - Urban Area (Source - OS Strategi)
 - Viewpoint Location:
- | | |
|------------------------------------|---|
| 1 Duncansby Head | 14 Minor Rd |
| 2 Keiss Pier | 15 Whalgie Steps |
| 3 Sornal | 16 Lossiemouth Harbour |
| 4 Wick Bay | 17 Buckie |
| 5 Sarnet (Sarnet Haven Info Board) | 18 Portnokie - Bow Fiddle Rock into Point |
| 6 Hill O' Many Stanes | 19 Cullen |
| 7 Lyster (end of Main Street) | 20 Bin Hill |
| 8 Latheron (A9) | 21 Findlater Castle (Check height) |
| 9 Dunbeath (ex Heritage Centre) | 22 Portsoy |
| 10 Berriedale (A9) | 23 Ferry Route (Kirkwall to Aberdeen) 1 |
| 11 Morven | 24 Ferry Route (Kirkwall to Aberdeen) 2 |
| 12 Navidale | 25 Inverboynidie Bay |
| 13 Catorchy | |

Horizontal Scale: 1:300,000 A3 Chart
 0 7,500 15,000 Meters

Geodetic Parameters: OSGB British National Grid

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 Approved: LT

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Figure 5.3-9
Modified OfTI:
Visual Receptors & Viewpoints

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Moray Offshore Renewables Ltd

- KEY**
- Indicative Onshore Substation Location
 - Onshore Substation Area
 - Modified Onshore Export Cable Route Corridor
 - Onshore Substation Study Area
 - Modified Offshore Export Cable Route Corridor
 - Operational Wind Turbine
 - Transmission Line
- Aberdeenshire Landscape Character Type:**
- Agricultural Heartland
 - Coastal Farmland
 - River Valleys
 - The Coast
- Coastal Character Area:**
- Boyne Bay
 - Boyndie Bay
 - Macduff to Stocked Head Cliffs
 - Scurrs of Greenside
 - Gamrie Bay
 - Cullykhan and Pennan Bays
 - Pennan Head
 - Aberdour Bay

Horizontal Scale: 1:100,000 A3 Chart

Geodetic Parameters: OSGB British National Grid

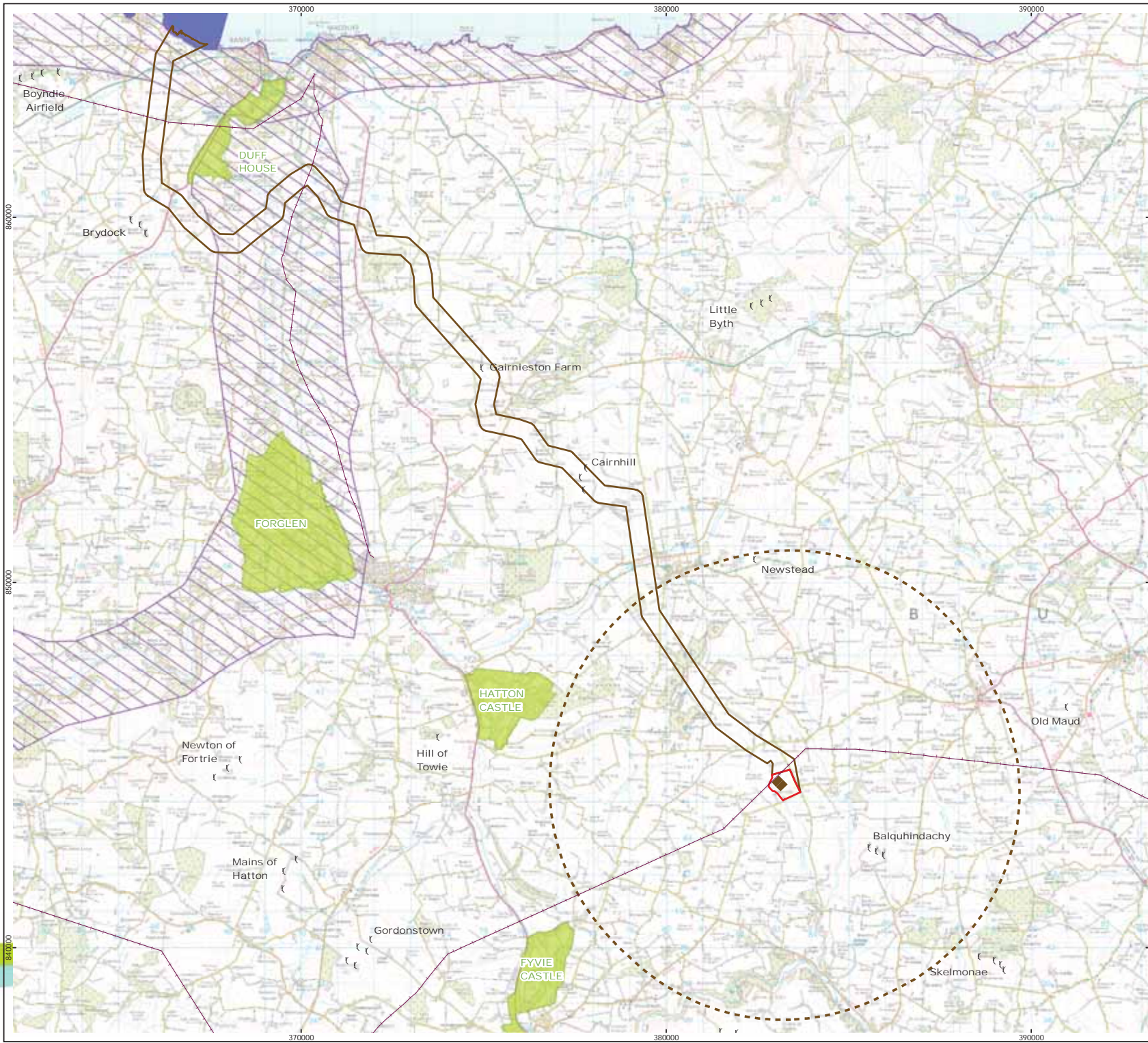
Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-010

**Figure 5.3-10
 Modified OnTI: Landscape
 & Coastal Character**

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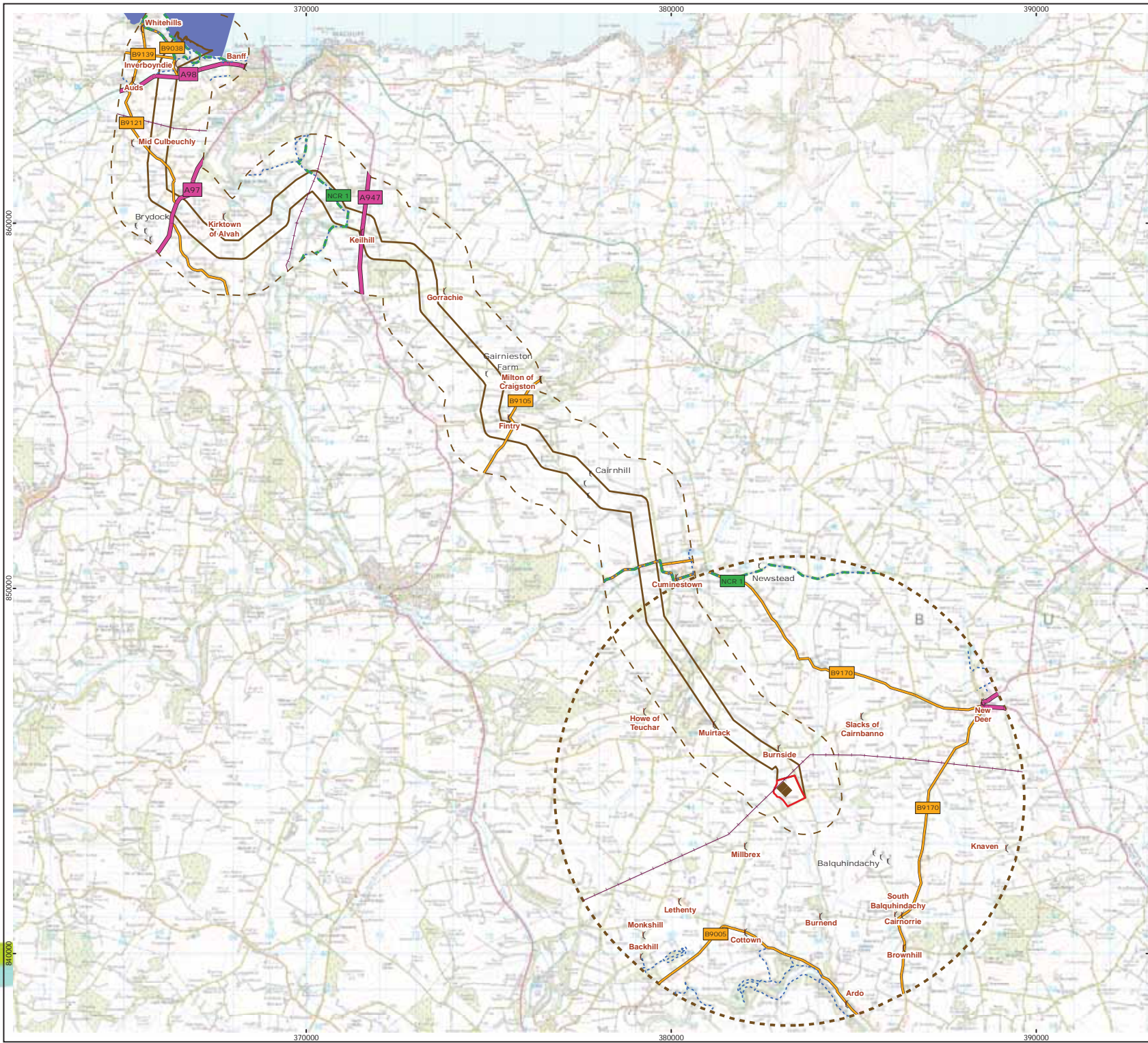
- KEY**
- Indicative Onshore Substation Location
 - Onshore Substation Area
 - Modified Onshore Export Cable Route Corridor
 - Onshore Substation Study Area
 - Modified Offshore Export Cable Route Corridor
 - Operational Wind Turbine
 - Transmission Line
- Aberdeenshire Council Landscape Character Advice for Small Scale Development (Dec 2012)
- Area of Increased Sensitivity
 - Garden & Designed Landscape
- Historic Scotland (Jan 2014)

Horizontal Scale: 1:100,000 A3 Chart













Geodetic Parameters: OSGB British National Grid


Produced: LA	Reviewed: SM	Approved: LT
Date: 24/06/2014	Revision: B	
REF: 8460001-PSO0021-OPE-MAP-011		

Figure 5.3-11
Modified OnTI: Landscape & Coastal Designations
 Moray Offshore Renewables Ltd



Moray Offshore Renewables Ltd

- KEY**
-  Indicative Onshore Substation Location
 -  Onshore Substation Area
 -  Modified Onshore Export Cable Route Corridor
 -  Modified Onshore Export Cable Route Corridor 1km Buffer
 -  Onshore Substation Study Area
 -  Modified Offshore Export Cable Route Corridor
 -  Operational Wind Turbine
 -  Transmission Line
 -  B Road
 -  National Cycle Route
 -  Aberdeenshire Core Path
 -  Settlement (Source - OS Meridian)

Horizontal Scale: 1:100,000 A3 Chart


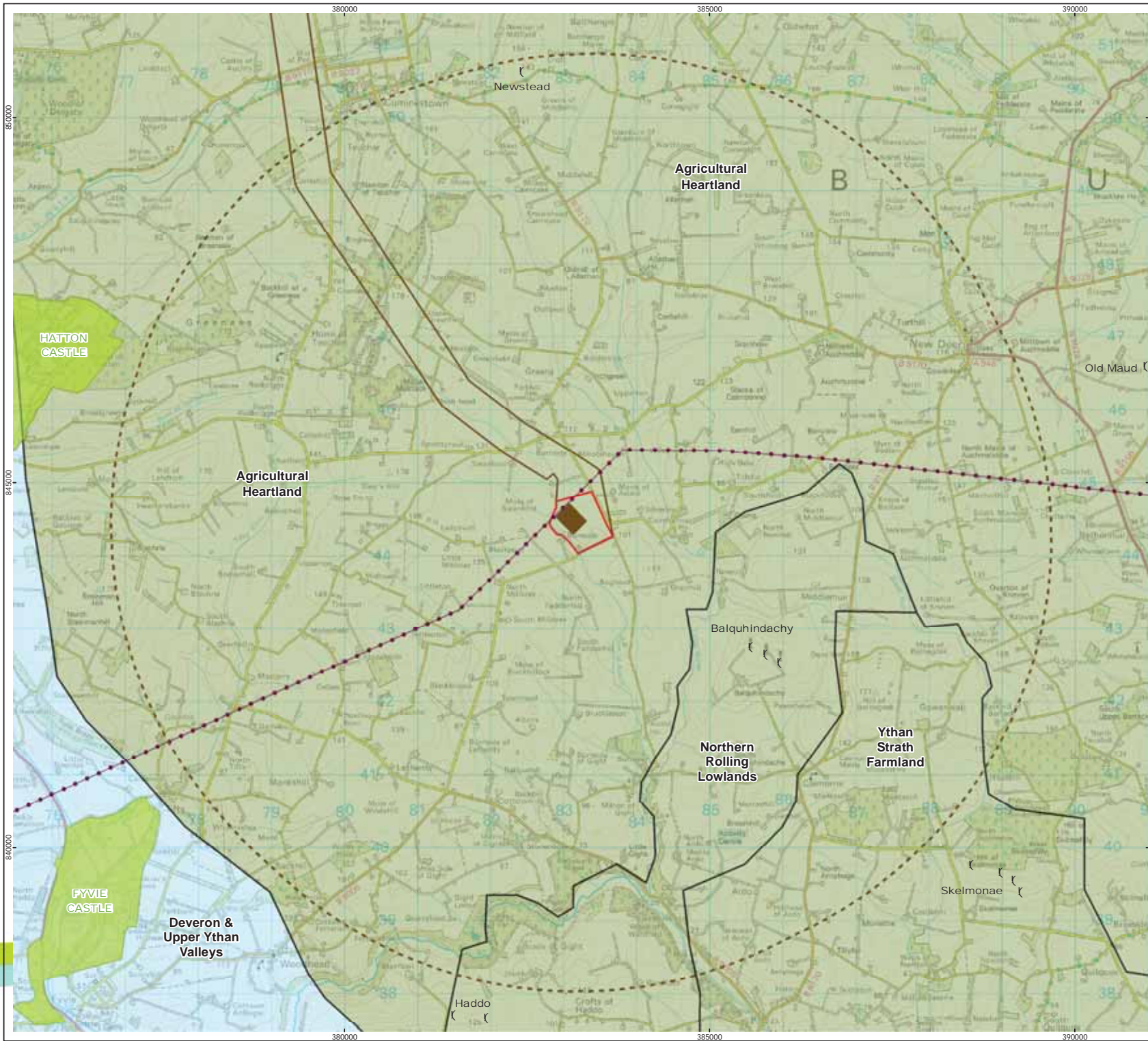
Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-012

Figure 5.3-12
Modified OnTI: Visual Receptors

Moray Offshore
 Renewables Ltd



Moray Offshore Renewables Ltd

- KEY**
- Indicative Onshore Substation Location
 - Onshore Substation Area
 - Modified Onshore Export Cable Route Corridor
 - Onshore Substation Study Area
 - Operational Wind Turbine
 - Transmission Line
 - Garden & Designed Landscape
- Aberdeenshire Landscape Character Type:
- Agricultural Heartland
 - River Valleys

Horizontal Scale: 1:50,000 A3 Chart

Geodetic Parameters: OSGB British National Grid

Produced: LA	Reviewed: SM	Approved: LT
Date: 24/06/2014	Revision: B	
REF: 8460001-PSO0021-OPE-MAP-013		






Figure 5.3-13
Onshore Substation Study Area:
Landscape Character & Designations

Moray Offshore
Renewables Ltd



Moray Offshore Renewables Ltd

KEY

-  Indicative Onshore Substation Location
-  Onshore Substation Area
-  Woodland Blocks
-  Shelterbelt Woodland
-  Burn Woodland

Horizontal Scale: 1:50,000 A3 Chart
0 1,000 2,000 Metres

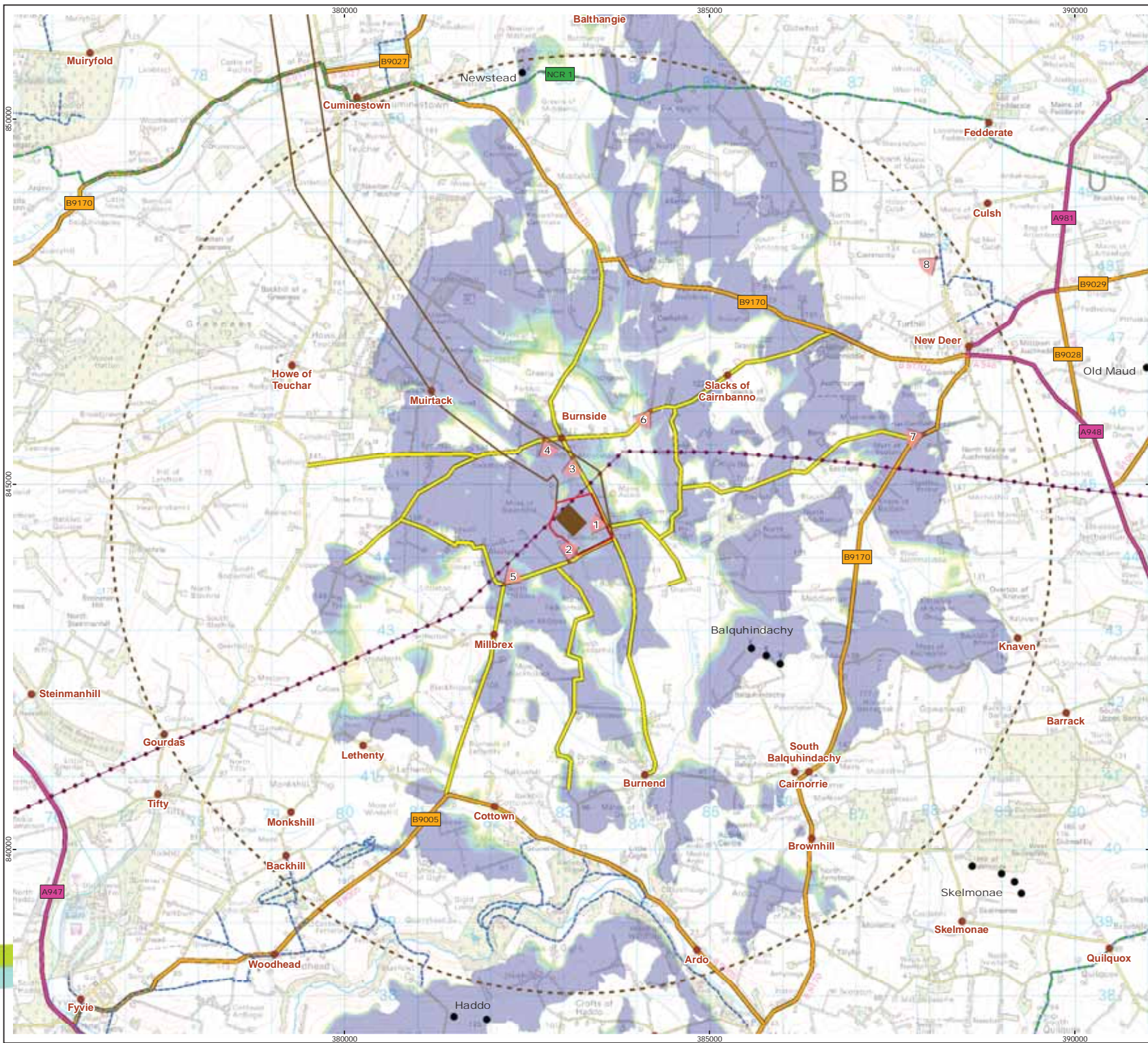
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Reviewed: SM
Approved: LT

Date: 26/06/2014 Revision: B
REF: 8460001-PSO0021-OPE-MAP-014

Figure 4.3-14
Onshore Substation Area:
Baseline Woodland Context

Moray Offshore
Renewables Ltd



Moray Offshore Renewables Ltd

KEY

- Indicative Onshore Substation Location
- Onshore Substation Area
- Modified Onshore Export Cable Route Corridor
- Onshore Substation Study Area
- Transmission Line
- A Road
- B Road
- Minor Road
- National Cycle Route
- Aberdeenshire Core Path
- Settlement (Source - OS Meridian)

Theoretical Visibility of the Indicative Onshore Substation:

- Most Visible
- Least Visible
- Viewpoint

- 1 Upper Mains of Asleid
- 2 Burnside of Millbrex
- 3 The Neuk
- 4 Upper Burnside
- 5 North Millbrex
- 6 Upperton
- 7 B5170 near New Deer
- 8 Culsh Hill

Horizontal Scale: 1:50,000 A3 Chart












Geodetic Parameters: OSGB British National Grid

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Date: 24/06/2014	Revision: B	
REF: 8460001-PSO0021-OPE-MAP-015		

Figure 5.3-15
Onshore Substation Study Area:
ZTV, Visual Receptors & Viewpoints
Moray Offshore Renewables Ltd



Moray Offshore Renewables Ltd

- KEY**
-  Indicative Onshore Substation Location
 -  Onshore Substation Area
 -  Transmission Line
 -  Surrounding Properties
 -  Main Direction of View
 -  Minor Roads
 -  Surface Water
 -  Contours (5m)
 -  Existing Woodland
 - Field Boundaries:
 -  Traditional drystone walls/ Consumption dykes
 -  Post & Wire Fencing

Horizontal Scale: 1:10,000 A3 Chart N


Geodetic Parameters: OSGB British National Grid

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 Approved: LT

Date: 26/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-016

Figure 5.3-16
Onshore Substation Area:
Site Analysis

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Renewables Ltd

Source: EDI, DigitalGlobe, GeoEye, IGN, GeoEye, USGS, AeroGRID, IGN, GE, swisstopo, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Moray Offshore Renewables Ltd

Viewpoint 25: Inverboyndie Bay
 Viewpoint Grid Reference: 383600m E 844428m N (OS BNG)
 View Direction: 282 Degrees from North
 Viewpoint Elevation: 105m AOD
 Horizontal Field of View: 144 (2 x 72) Degrees
 Image Viewing Distance: 32cm
 Date & Time of Photo: 11/06/2014, 15:27

Scale in metres: 1: 10,000		 N
Geodetic Parameters: OSGB British National Grid		
Produced: LA		
Reviewed: SM		
Approved: LT		
Date: 19/06/2014	Revision:	
Ref: 8460001-PSO0021-OPE-MAP-017		

Figure 5.3-17 (page 1 of 3)

Viewpoint 25: Inverboyndie Bay

Moray Offshore
Renewables Ltd



Onshore Export Cable Corridor

Existing view from Inverboyndie Bay showing Cable Route Corridors.

Camera: Canon EOS 5D Mark II

Focal Length: 50mm

Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 11/06/14

Time: 15:27

Important Viewing Instructions

The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-17 (page 2 of 3)

Viewpoint 25: Inverboyndie Bay

Viewpoint Photograph



Offshore Export Cable Corridor

Existing view from Inverboyndie Bay showing Cable Route Corridors.

Camera: Canon EOS 5D Mark II

Focal Length: 50mm

Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 11/06/14

Time: 15:27

Important Viewing Instructions

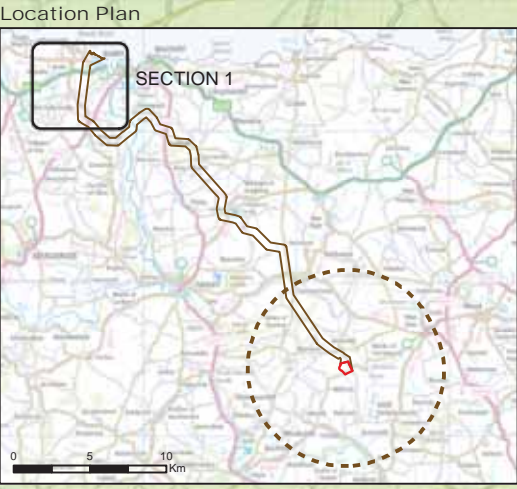
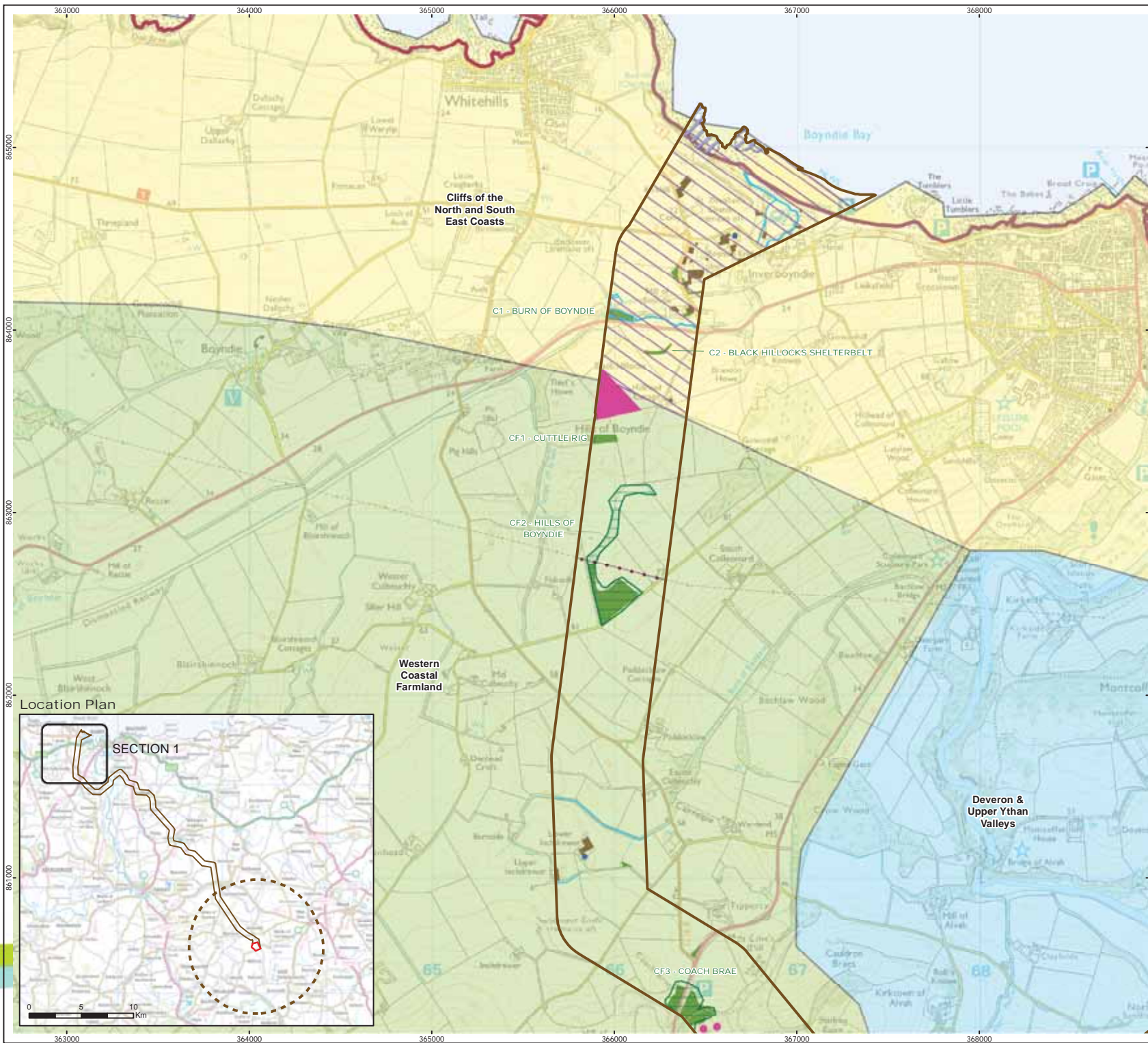
The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-17 (page 3 of 3)

Viewpoint 25: Inverboyndie Bay

Viewpoint Photograph

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Moray Offshore Renewables Ltd

KEY

- Modified Onshore Export Cable Route Corridor
- B Listed Building
- Scheduled Monument
- Site of Special Scientific Interest
- Aberdeenshire Area Of Increased Sensitivity
- Semi-Natural Ancient Woodland
- Ancient Woodland
- Buildings
- Transmission Line
- Surface Water (Line)
- Surface Water (Area)
- Woodland

Aberdeenshire Landscape Character Type:

- Coastal Farmland
- River Valleys
- The Coast

Coastal Character Area:

- Boyne Bay
- Boyndie Bay

Horizontal Scale: 1:20,000 A3 Chart
 0 500 1,000 Meters

Geodetic Parameters: OSGB British National Grid

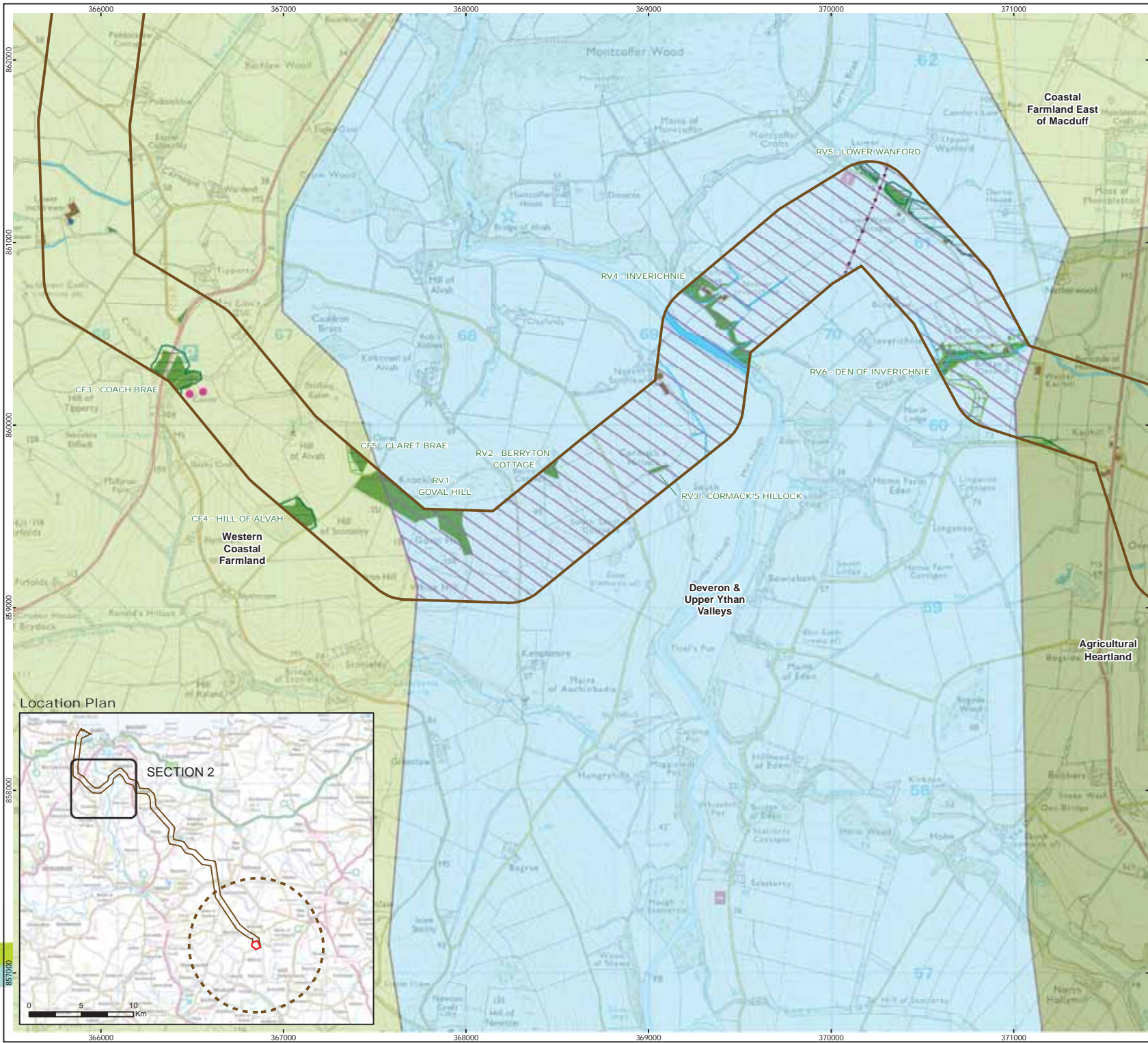
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 REF: 8460001-PSO0021-OPE-MAP-018

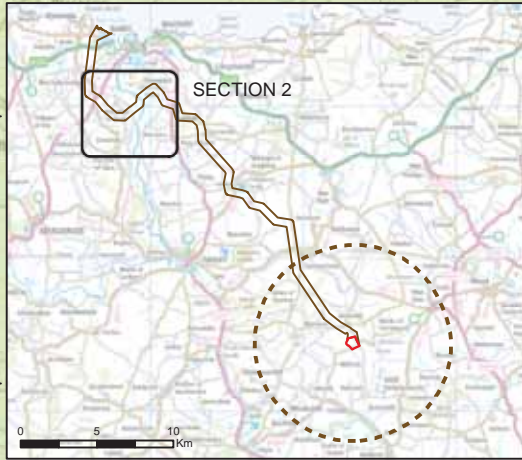
Figure 5.3-18
Modified OnTI Section 1:
Landscape Character & Elements

Moray Offshore Renewables Ltd

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Location Plan



Moray Offshore Renewables Ltd

- KEY**
- Modified Onshore Export Cable Route Corridor
 - B Listed Building
 - Scheduled Monument
 - Aberdeenshire Area Of Increased Sensitivity
 - Semi-Natural Ancient Woodland
 - Ancient Woodland
 - Buildings
 - Transmission Line
 - Surface Water (Line)
 - Surface Water (Area)
 - Woodland
- Aberdeenshire Landscape Character Type:**
- Agricultural Heartland
 - Coastal Farmland
 - River Valleys

Horizontal Scale: 1:20,000 A3 Chart
 0 500 1,000 Meters

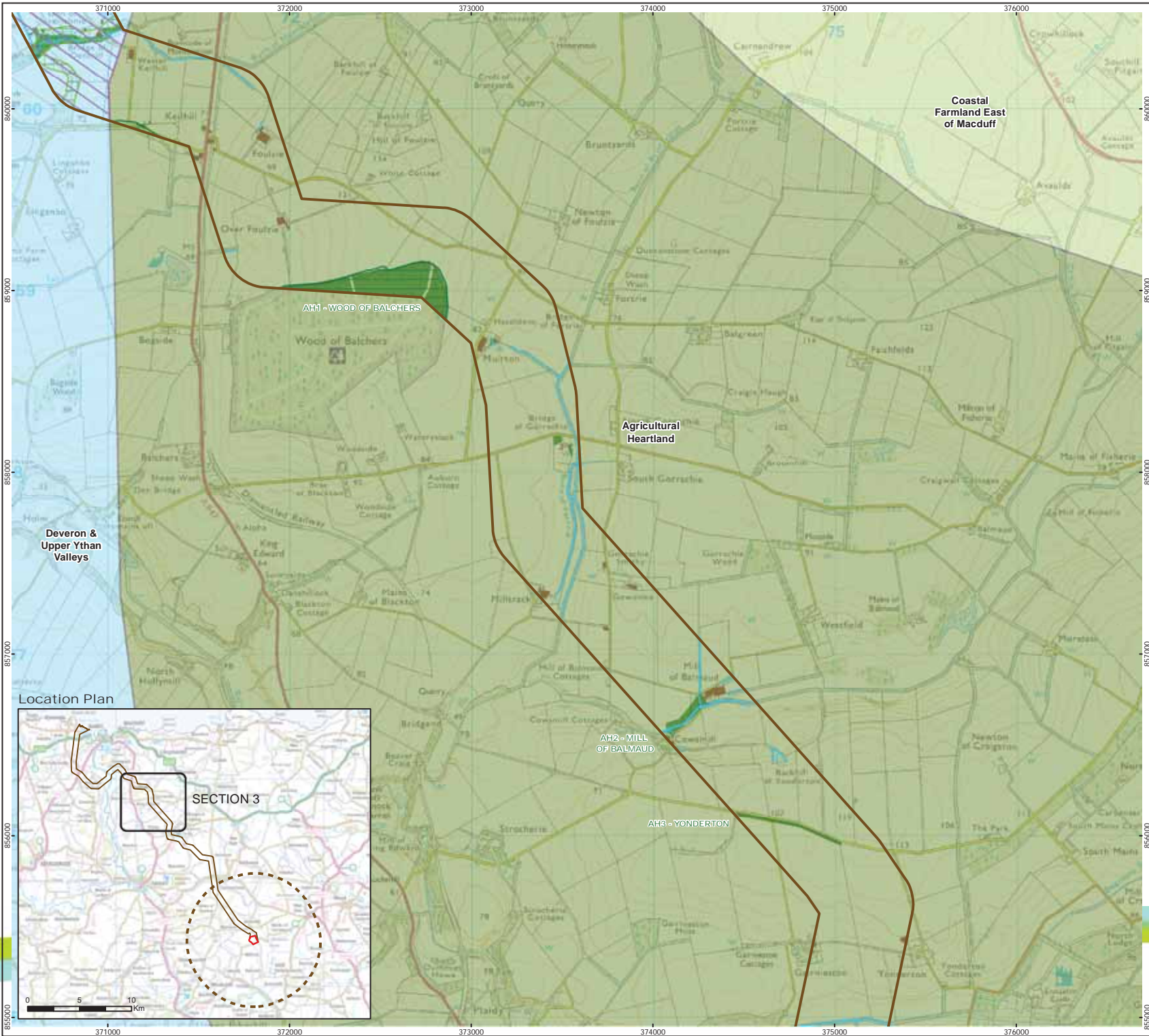
Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

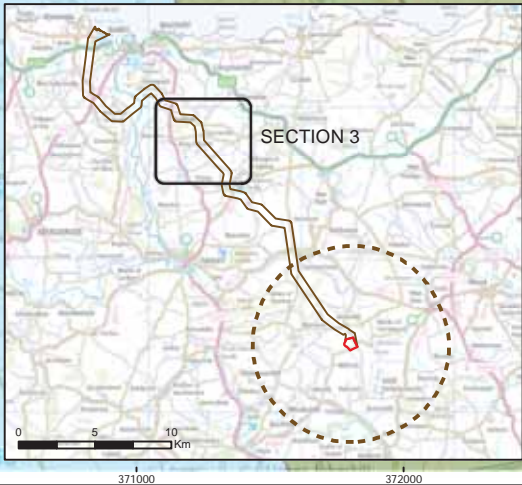
Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-019

Figure 5.3-19
Modified OnTI Section 2:
Landscape Character & Elements
 Moray Offshore Renewables Ltd

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Location Plan



Moray Offshore Renewables Ltd

KEY

- Modified Onshore Export Cable Route Corridor
- Aberdeenshire Area Of Increased Sensitivity
- Semi-Natural Ancient Woodland
- Ancient Woodland
- Buildings
- Surface Water (Line)
- Surface Water (Area)
- Woodland
- Aberdeenshire Landscape Character Type:
 - Agricultural Heartland
 - Coastal Farmland
 - River Valleys

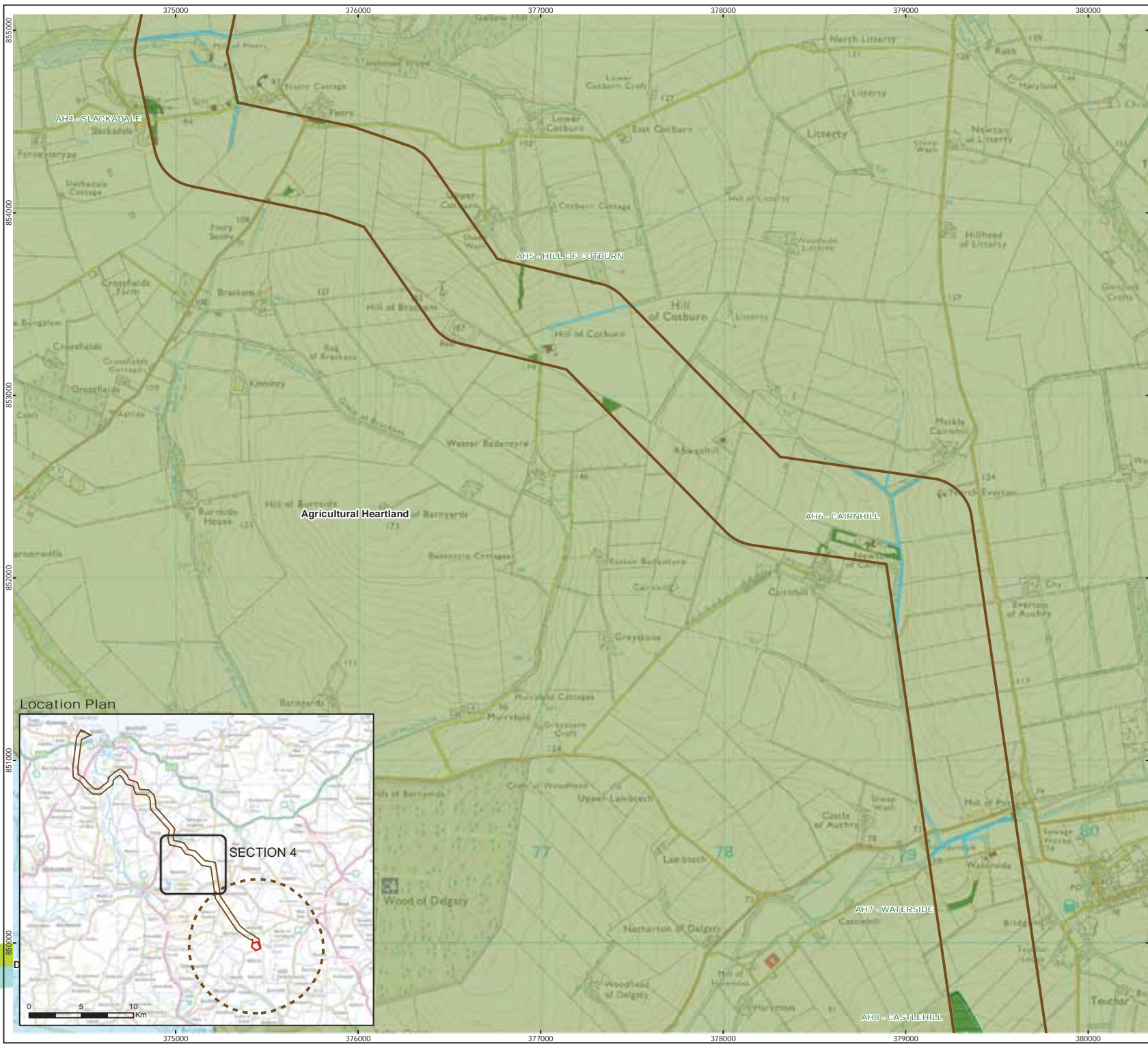
Horizontal Scale: 1:20,000 A3 Chart
 0 500 1,000 Meters

Geodetic Parameters: OSGB British National Grid

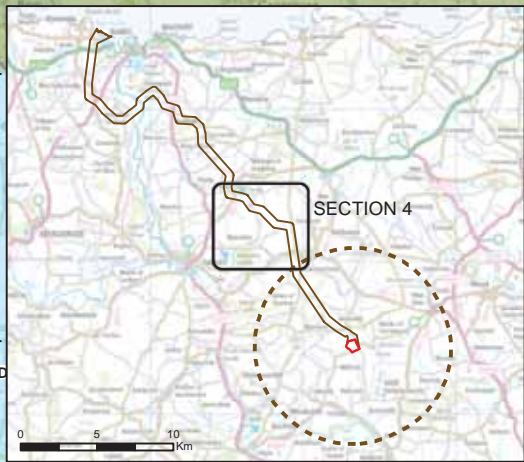
Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-020

Figure 5.3-20
Modified OnTI Section 3:
Landscape Charcter & Elements
 Moray Offshore Renewables Ltd



Location Plan



Moray Offshore Renewables Ltd

- KEY**
- Modified Onshore Export Cable Route Corridor
 - Buildings
 - Surface Water (Line)
 - Surface Water (Area)
 - Woodland
- Aberdeenshire Landscape Character Type:
- Agricultural Heartland

Horizontal Scale: 1:20,000 A3 Chart

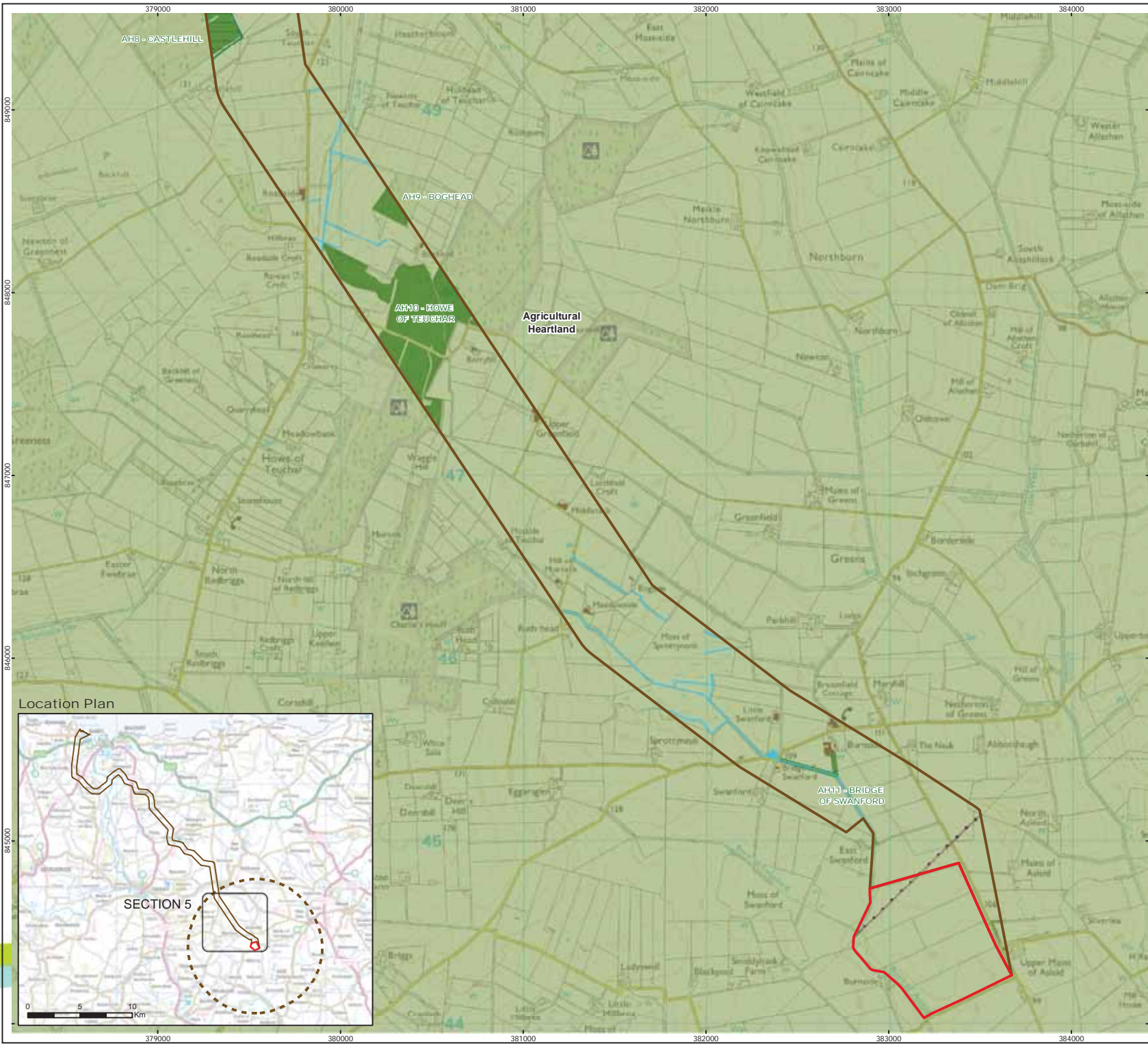
Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-021

**Figure 5.3-21
 Modified OnTI Section 4:
 Landscape Character & Elements**

Moray Offshore
 Renewables Ltd



Location Plan



Moray Offshore Renewables Ltd

- KEY**
- Modified Onshore Export Cable Route Corridor
 - Onshore Substation Area
 - Buildings
 - Transmission Line
 - Surface Water (Line)
 - Surface Water (Area)
 - Woodland
- Aberdeenshire Landscape Character Type:
- Agricultural Heartland

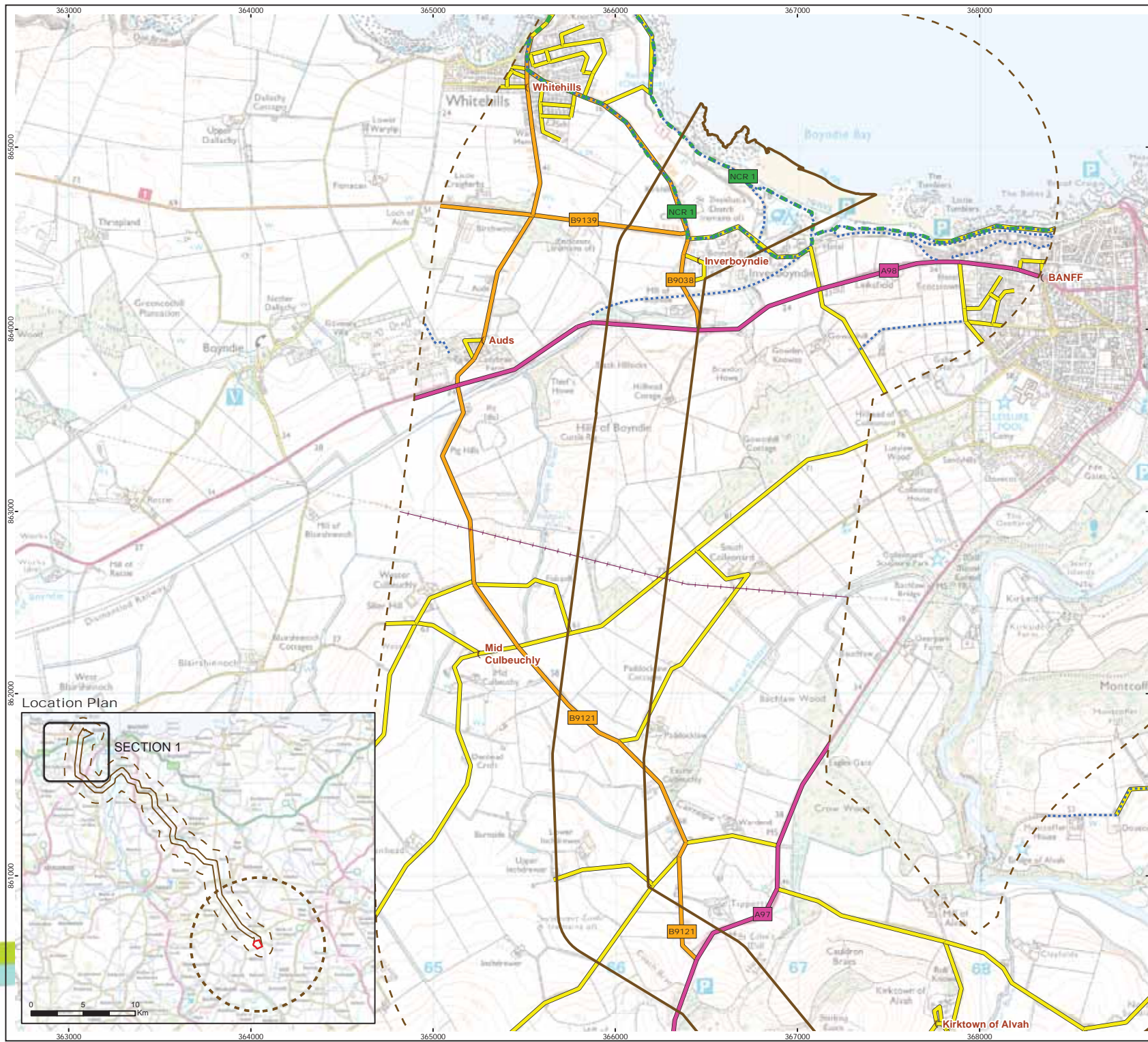
Horizontal Scale: 1:20,000 A3 Chart

Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-022

Figure 5.3-22
Modified OnTI Section 5:
Landscape Character & Elements
 Moray Offshore Renewables Ltd



Moray Offshore Renewables Ltd

KEY

- Modified Onshore Export Cable Route Corridor
- Modified Onshore Export Cable Route Corridor 1km Buffer
- Transmission Line
- A Road
- B Road
- Minor Road
- National Cycle Route
- Aberdeenshire Core Path
- Settlement (Source - OS Meridian)

Horizontal Scale: 1:20,000 A3 Chart
 0 500 1,000 Meters

Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-023

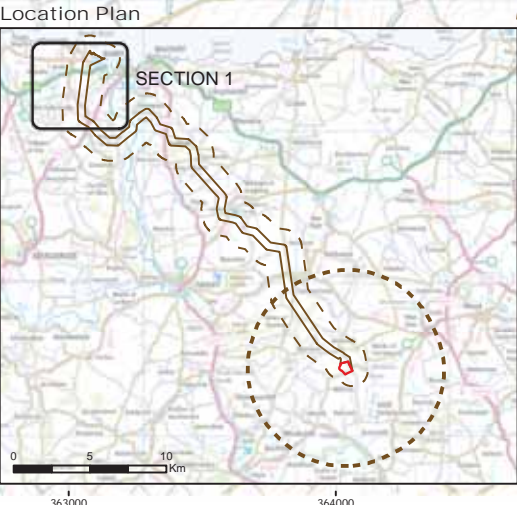
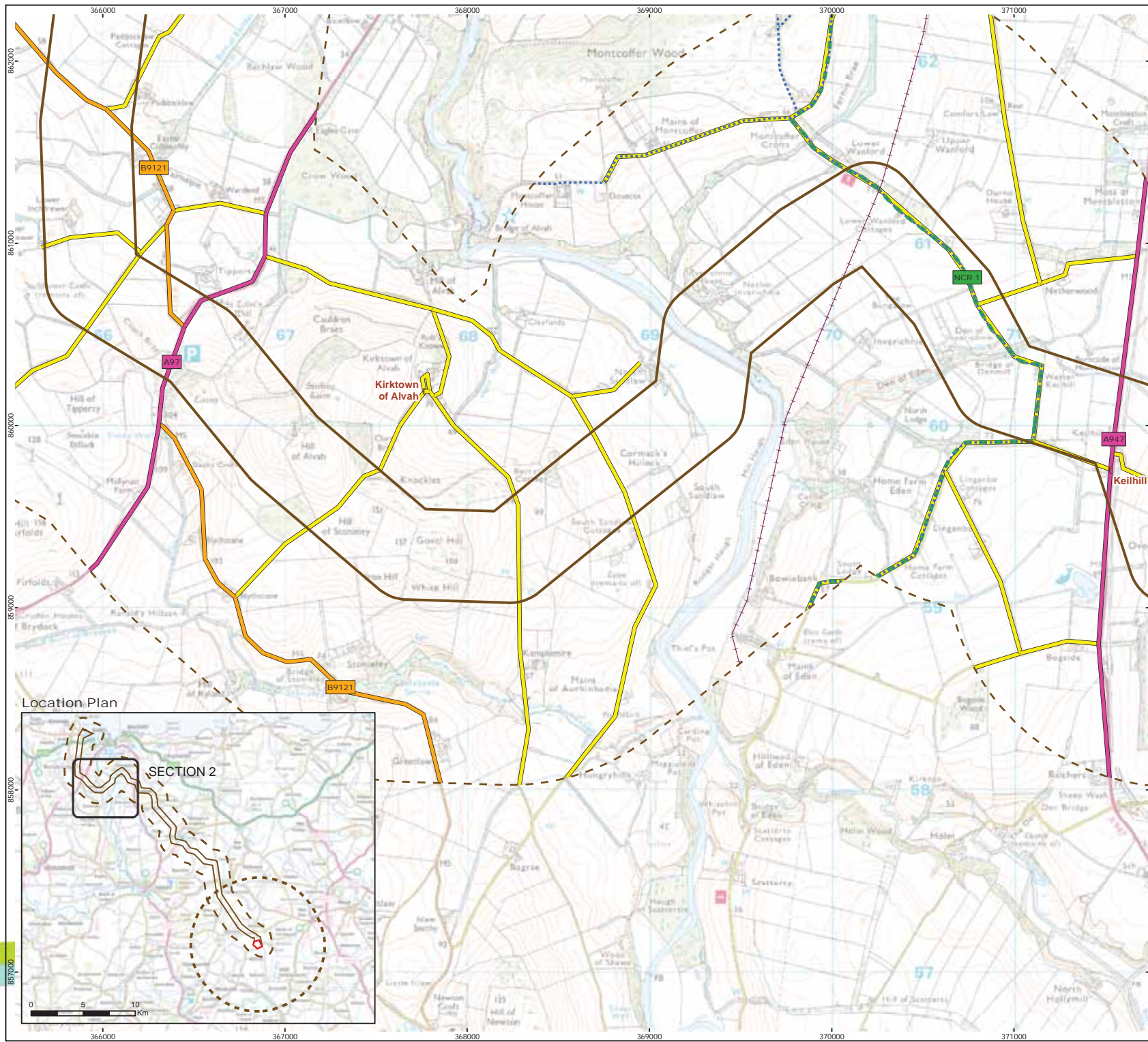
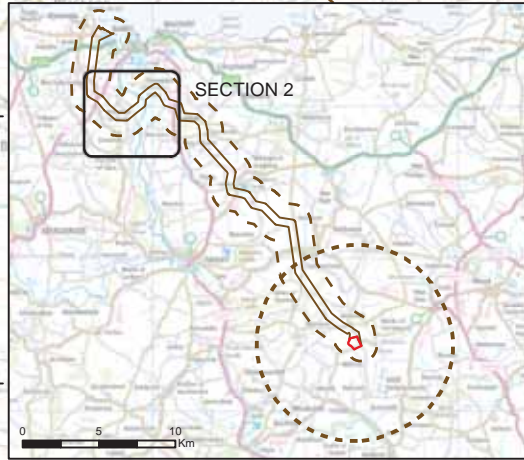


Figure 5.3-23
Modified OnTI Section 1:
Visual Receptors

Moray Offshore
 Renewables Ltd



Location Plan



Moray Offshore Renewables Ltd

KEY

- Modified Onshore Export Cable Route Corridor
- Modified Onshore Export Cable Route Corridor 1km Buffer
- Transmission Line
- A Road
- B Road
- Minor Road
- National Cycle Route
- Aberdeenshire Core Path
- Settlement (Source - OS Meridian)

Horizontal Scale: 1:20,000 A3 Chart

Geodetic Parameters: OSGB British National Grid

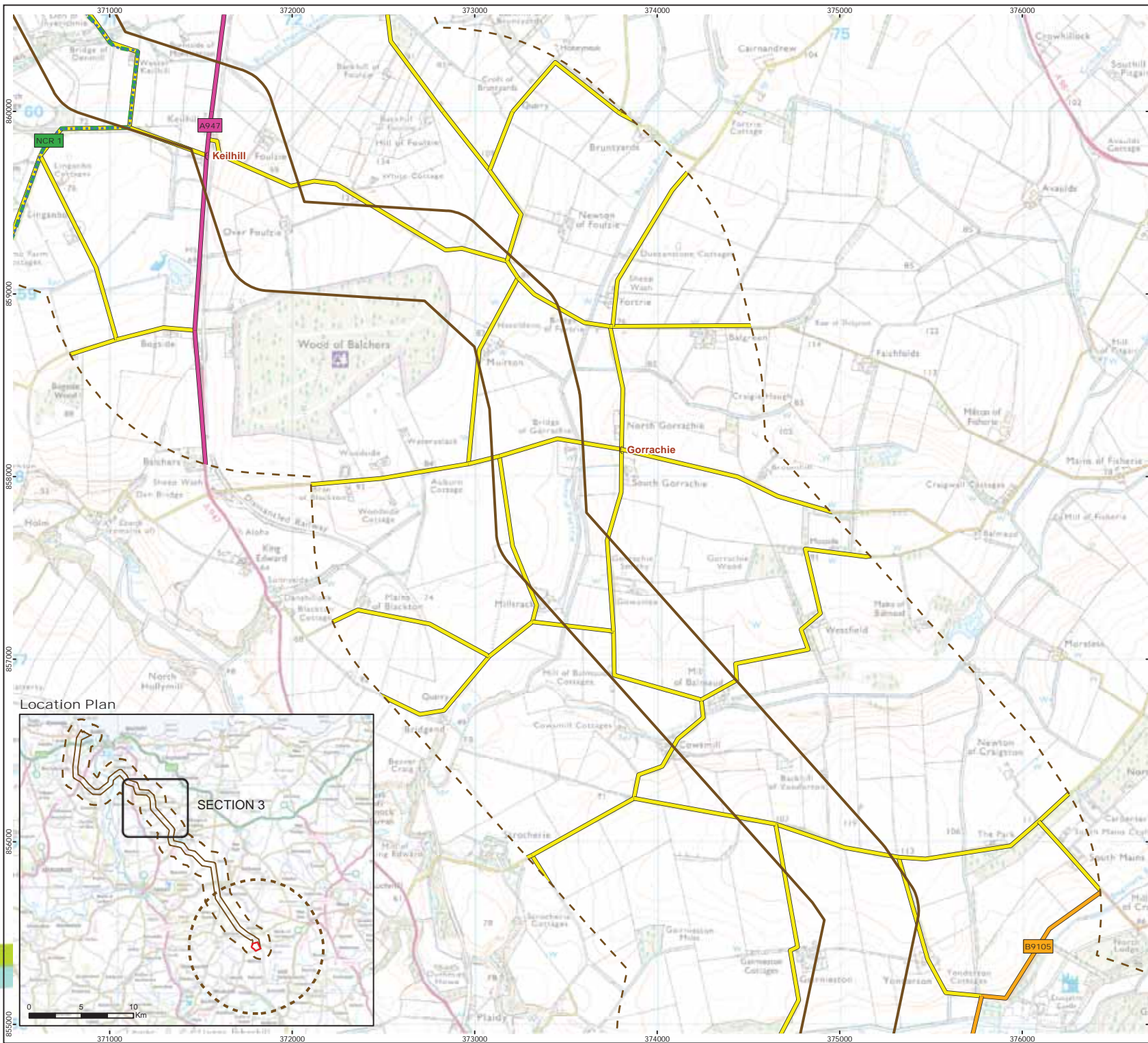
Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-024

Figure 5.3-24
 Modified OnTI Section 2:
 Visual Receptors

Moray Offshore
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Moray Offshore Renewables Ltd

KEY

- Modified Onshore Export Cable Route Corridor
- Modified Onshore Export Cable Route Corridor 1km Buffer
- A Road
- B Road
- Minor Road
- National Cycle Route
- Aberdeenshire Core Path
- Settlement (Source - OS Meridian)

Horizontal Scale: 1:20,000 A3 Chart

Geodetic Parameters: OSGB British National Grid

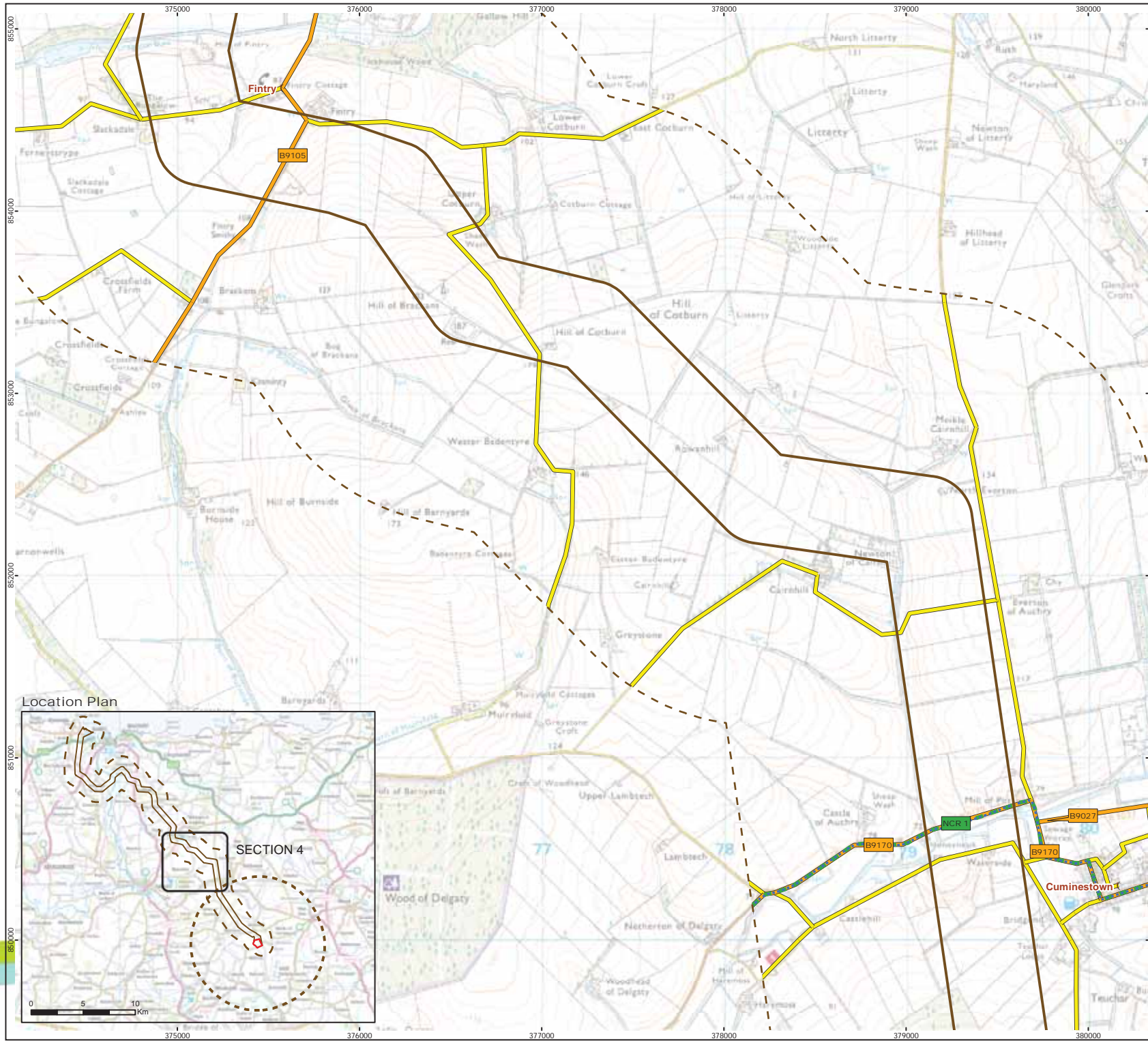
Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-025

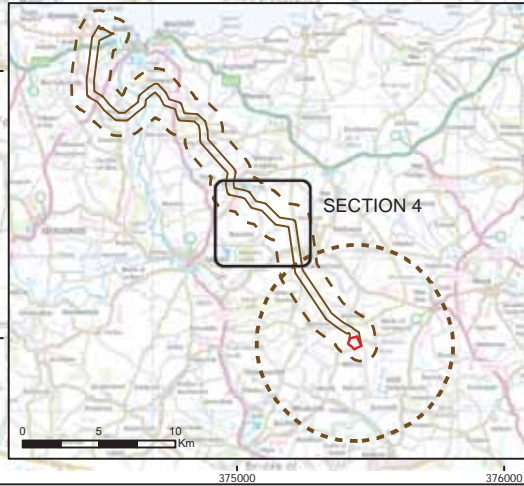
Figure 5.3-25
Modified OnTI Section 3:
Visual Receptors

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Location Plan



Moray Offshore Renewables Ltd

- KEY**
- Modified Onshore Export Cable Route Corridor
 - Modified Onshore Export Cable Route Corridor 1km Buffer
 - B Road
 - Minor Road
 - National Cycle Route
 - Aberdeenshire Core Path
 - Settlement (Source - OS Meridian)

Horizontal Scale: 1:20,000 A3 Chart

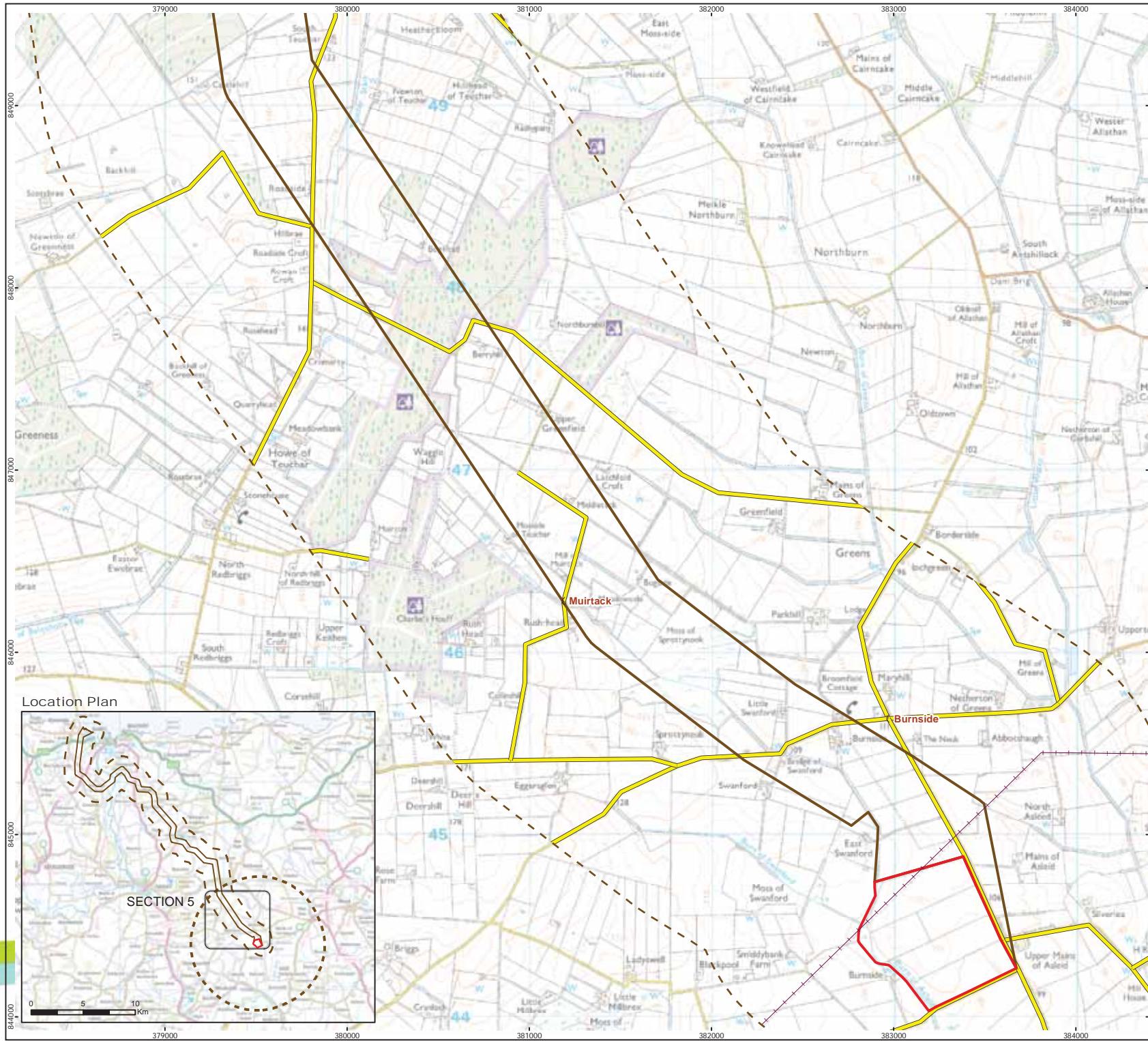
Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT







Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-026

Figure 5.3-26
Modified OnTI Section 4:
Visual Receptors

Moray Offshore
 Renewables Ltd



Moray Offshore Renewables Ltd

- KEY**
-  Modified Onshore Export Cable Route Corridor
 -  Modified Onshore Export Cable Route Corridor 1km Buffer
 -  Onshore Substation Area
 -  Transmission Line
 -  Minor Road
 -  Settlement (Source - OS Meridian)

Horizontal Scale: 1:20,000 A3 Chart
 0 500 1,000 Meters

Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

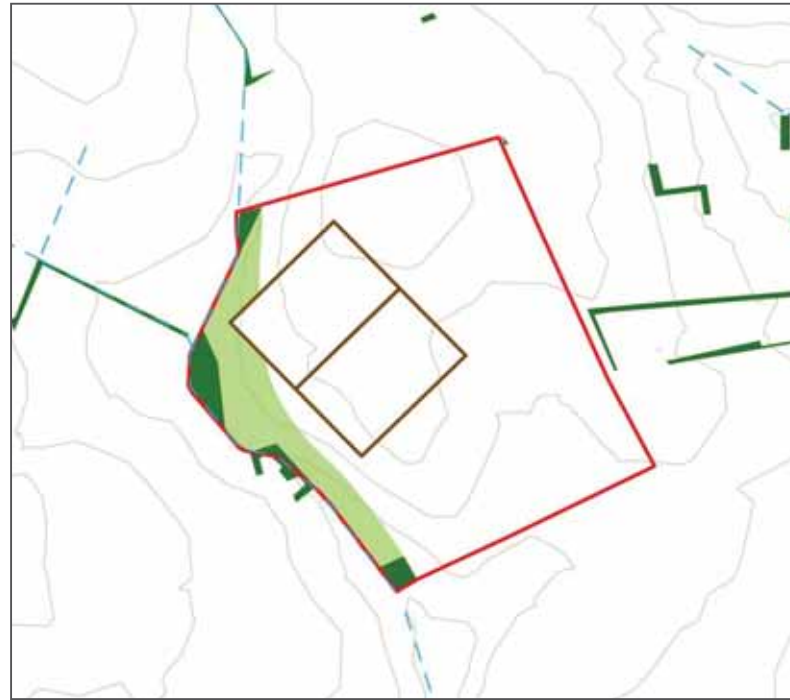
Date: 24/06/2014 Revision: B
 REF: 8460001-PSO0021-OPE-MAP-027

Figure 5.3-27
Modified OnTI Section 5:
Visual Receptors

Moray Offshore
 Renewables Ltd



Concept 1: Shelterbelt Woodland



Concept 2: Riparian Woodland



Concept 3: Woodland Blocks



Concept 4: Woodland Envelope

KEY

- Indicative Onshore Substation Location
- Onshore Substation Area
- Surface Water
- Contours 5m
- Existing Woodland
- Potential Woodland

Horizontal Scale: 1:10,000 A3 Chart

Geodetic Parameters: OSGB British National Grid

Produced: FC
 Reviewed: SM
 Approved: LT






Date: 26/06/2014	Revision: B
REF: 8460001-PSO0021-OPE-MAP-028	


Figure 5.3-28
Onshore Substation Area:
Woodland Mitigation Concepts


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Moray Offshore Renewables Ltd

- KEY**
-  Indicative Onshore Substation Location
 -  Onshore Substation Area
 -  Transmission Line
 -  Existing Woodland
 -  Proposed Native Woodland
 -  Proposed Unimproved Grassland
 -  Agricultural Fields
 -  Marshy Grassland
 -  Surface Water
 -  Proposed SUDs
 -  Proposed Riparian Planting
 -  Contours (5m)
 -  Hedgerow Planting
1. Woodland block providing screening to views from north and west.
 2. Wooded slopes above Burn of Asleid screen views from west and south.
 3. New SUDs/wildlife pond in lowest lying area near Burn of Asleid.
 4. Shelterbelt woodlands characteristic in the local landscape and screen views from the north, south and east.
 5. New shelterbelts link riparian planting to areas of existing woodland.
 6. Marshy grassland with riparian planting on low-lying land adjacent to Burn of Asleid.
 7. Hedgerow planting around field boundaries to screen views from local roads to east and south.

Horizontal Scale: 1:4,000 A3 Chart 

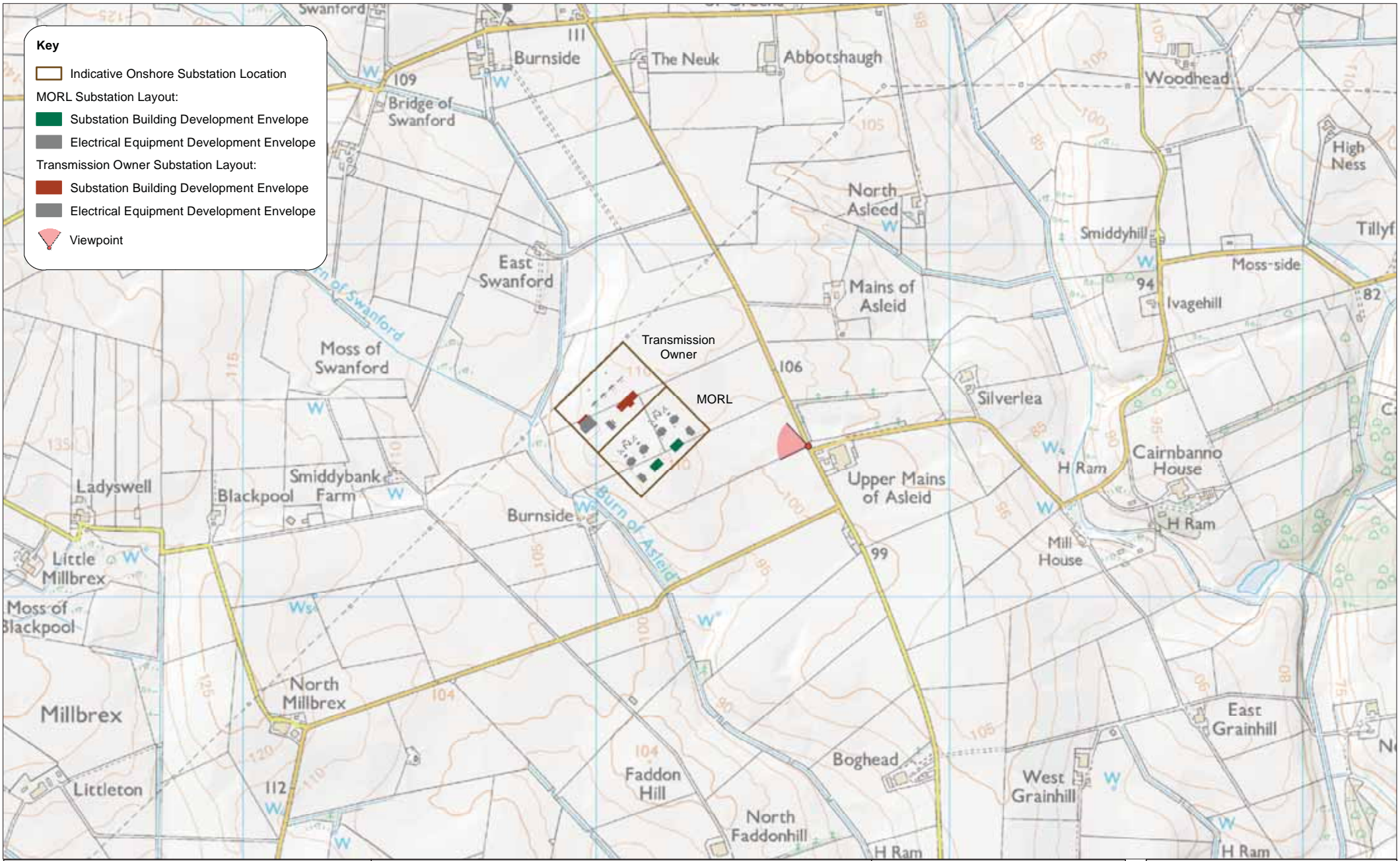


Geodetic Parameters: OSGB British National Grid	
Produced: FC	Reviewed: SM
Approved: LT	
Date: 26/06/2014	Revision: B
REF: 8460001-PSO0021-OPE-MAP-029	

Figure 5.3-29
Onshore Substation Area:
Landscape Mitigation Proposals
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Key

- Indicative Onshore Substation Location
- MORL Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- Transmission Owner Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- Viewpoint

Viewpoint 1: Upper Mains of Asleid

Viewpoint Grid Reference: 383600m E 844428m N (OS BNG)
 View Direction: 282 Degrees from North
 Viewpoint Elevation: 103m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 282m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 04/02/2014, 15:08

Scale in metres: 1: 10,000



Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 19/06/2014 Revision:
 Ref: 8460001-PSO0021-OPE-MAP-030

Figure 5.3-30 (page 1 of 3)

Viewpoint 1: Upper Mains of Asleid



Moray Offshore Renewables Ltd

**Moray Offshore
 Renewables Ltd**



Existing view from Upper Mains of Asleid
 Distance to Nearest Onshore Substation: 282m
 Camera: Canon EOS 5D Mark II
 Focal Length: 50mm
 Horizontal Field of View: 72 degrees
 Camera Height: 2m
 Date: 04/02/14
 Time: 15:08



Representation of existing pylons

Computer generated model showing the development envelopes for the proposed onshore substations.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions
 The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-30 (page 2 of 3)
 Viewpoint 1: Upper Mains of Asleid
 Photograph and Visual Representation



Photomontage view showing the development envelopes for the proposed onshore substations.

Camera: Canon EOS 5D Mark II

Focal Length: 50mm

Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 04/02/14

Time: 15:08



Computer generated model showing the development envelopes for the proposed onshore substations and woodland planting.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions

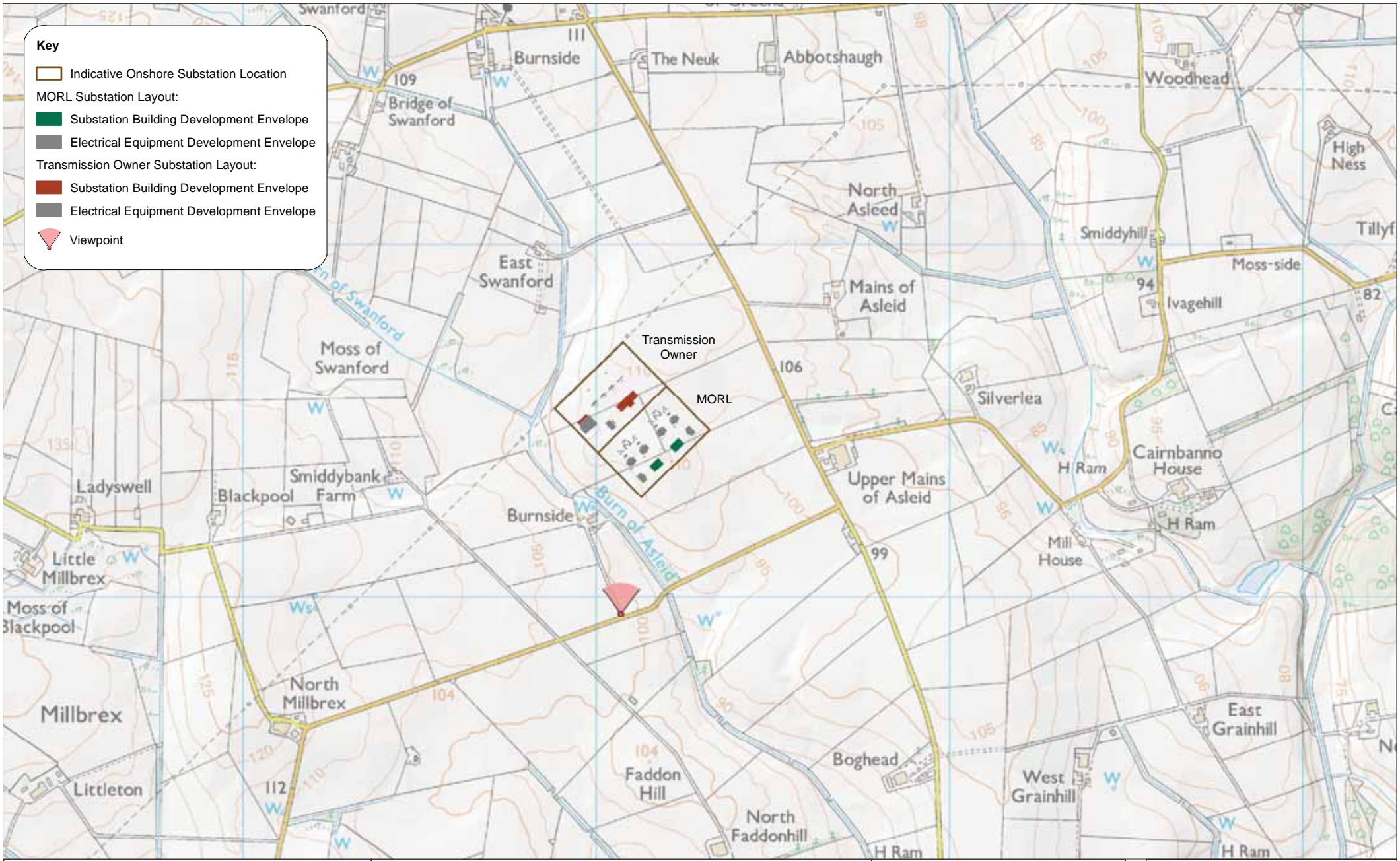
The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-30 (page 3 of 3)

Viewpoint 1: Upper Mains of Asleid

Photomontage and Visual Representation

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Key

- Indicative Onshore Substation Location
- MORL Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- Transmission Owner Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- ▼ Viewpoint

Viewpoint 2: Burnside of Millbres
 Viewpoint Grid Reference: 383071m E 843952m N (OS BNG)
 View Direction: 0 Degrees from North
 Viewpoint Elevation: 100m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 337m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 04/02/2014, 14:53

Scale in metres: 1: 10,000	
Geodetic Parameters: OSGB British National Grid	
Produced: LA	
Reviewed: SM	
Approved: LT	
Date: 19/06/2014	Revision:
Ref: 8460001-PSO0021-OPE-MAP-031	

Figure 5.3-31 (page 1 of 3)

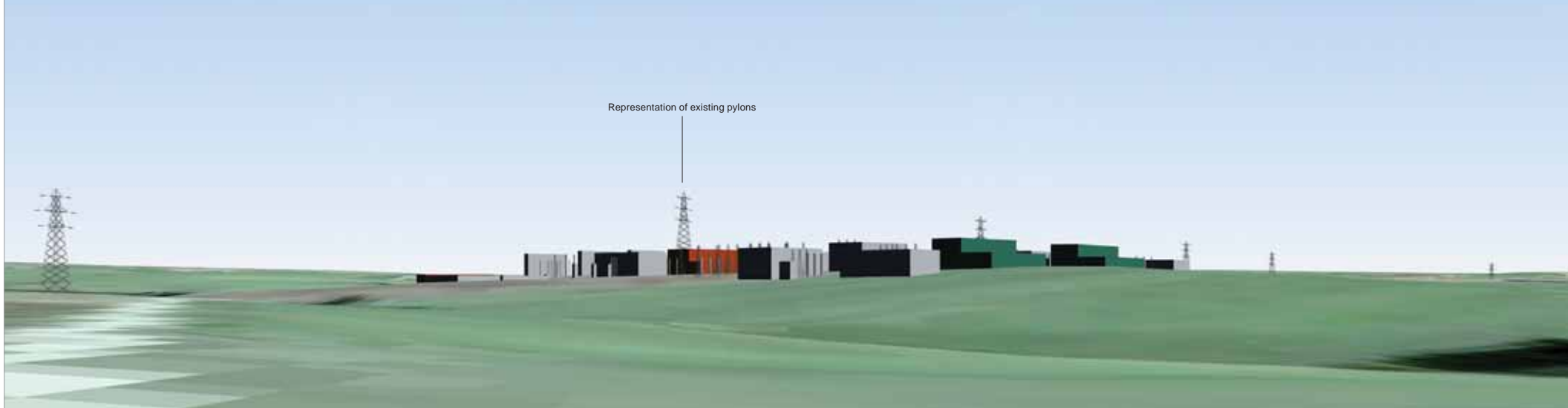
Viewpoint 2: Burnside of Millbres

Moray Offshore Renewables Ltd





Existing view from Burnside of Millbrex Distance to Nearest Onshore Substation: 337m Camera: Canon EOS 5D Mark II Focal Length: 50mm Horizontal Field of View: 72 degrees Camera Height: 2m Date: 04/02/14 Time: 14:53



<p>Computer generated model showing the development envelopes for the proposed onshore substations.</p>	<p>The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.</p>	<p>Important Viewing Instructions</p> <p>The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.</p>
<p>Figure 5.3-31 (page 2 of 3) Viewpoint 2: Burnside of Millbrex</p>		<p>Photograph and Visual Representation</p>



Photomontage view showing the development envelopes for the proposed onshore substations.

Camera: Canon EOS 5D Mark II

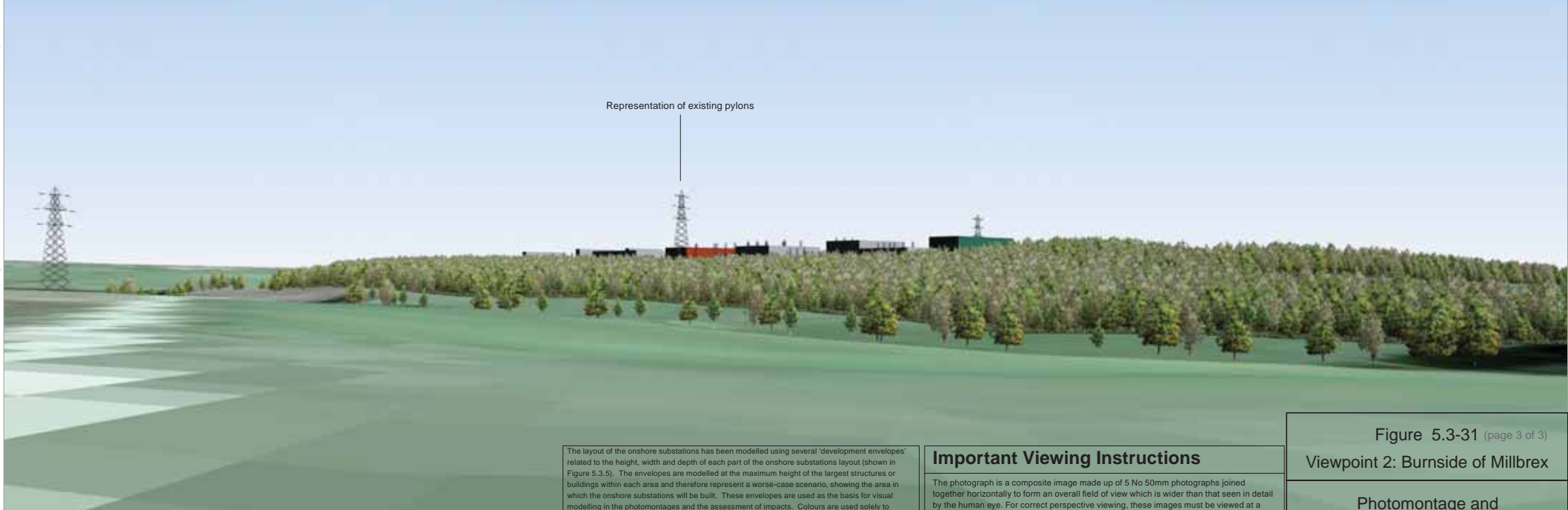
Focal Length: 50mm

Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 04/02/14

Time: 14:53



Representation of existing pylons

Computer generated model showing the development envelopes for the proposed onshore substations and woodland planting.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions

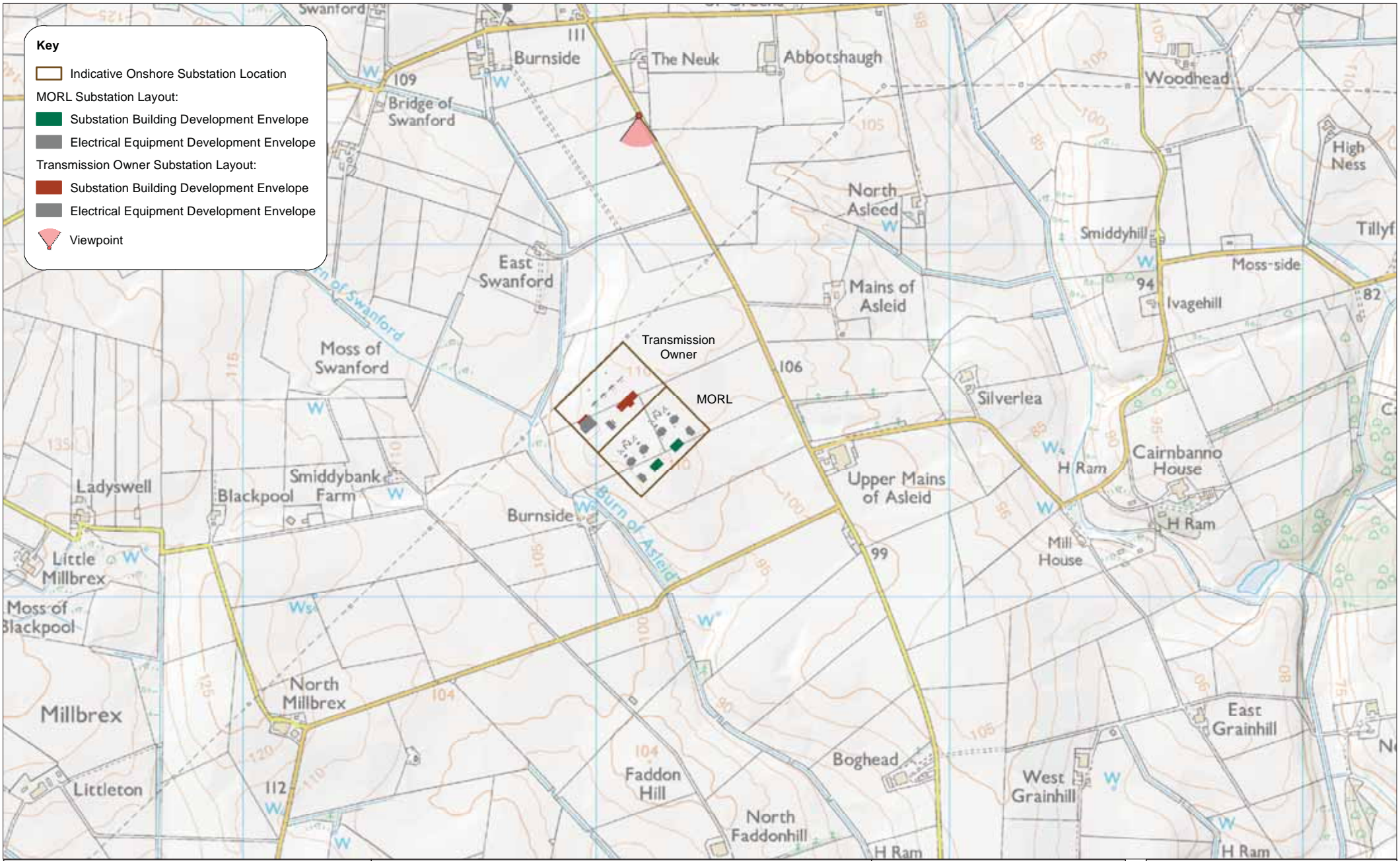
The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-31 (page 3 of 3)

Viewpoint 2: Burnside of Millbrex

Photomontage and
Visual Representation

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Key

- Indicative Onshore Substation Location
- MORL Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- Transmission Owner Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- ▼ Viewpoint

Viewpoint 3: The Neuk

Viewpoint Grid Reference: 383121m E 845364m N (OS BNG)
 View Direction: 180 Degrees from North
 Viewpoint Elevation: 107m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 644m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 04/02/2014, 14:53:41

Scale in metres: 1: 10,000



Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 19/06/2014 Revision:
 Ref: 8460001-PSO0021-OPE-MAP-032

Figure 5.3-32 (page 1 of 3)

Viewpoint 3: The Neuk



Moray Offshore Renewables Ltd

**Moray Offshore
 Renewables Ltd**



Existing view from The Neuk Distance to Nearest Onshore Substation: 644m Camera: Canon EOS 5D Mark II Focal Length: 50mm Horizontal Field of View: 72 degrees Camera Height: 2m Date: 04/02/14 Time: 15:08



Representation of existing pylons

Computer generated model showing the development envelopes for the proposed onshore substations.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions
 The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-32 (page 2 of 3)
 Viewpoint 3: The Neuk
 Photograph and Visual Representation



Photomontage view showing the development envelopes for the proposed onshore substations.

Camera: Canon EOS 5D Mark II

Focal Length: 50mm

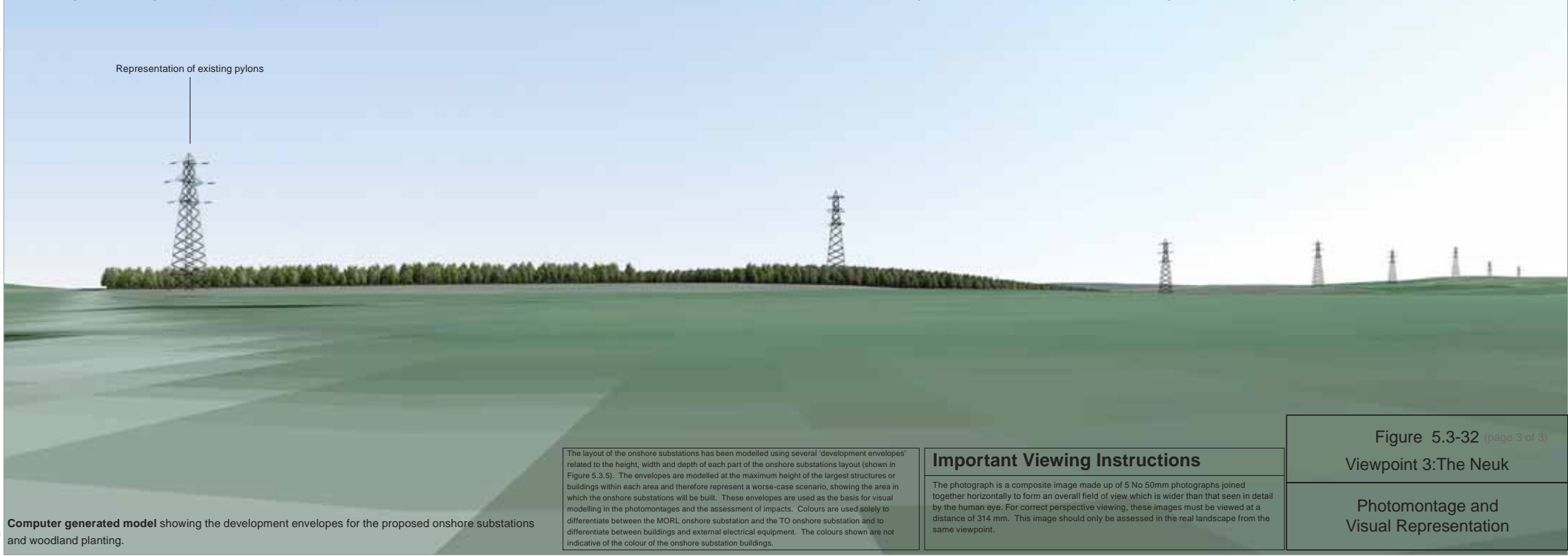
Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 04/02/14

Time: 15:08

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Representation of existing pylons

Computer generated model showing the development envelopes for the proposed onshore substations and woodland planting.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions

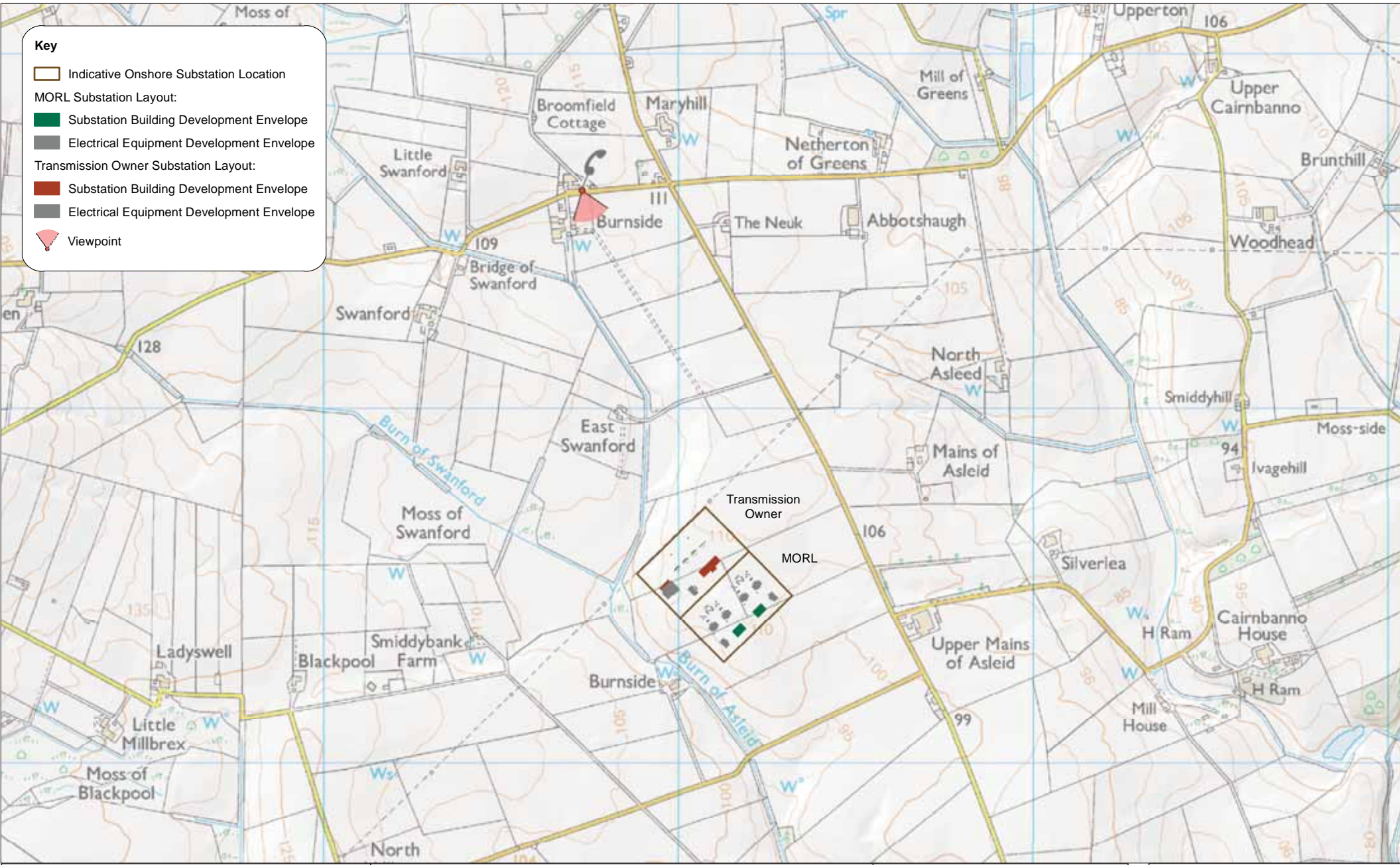
The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-32 (page 3 of 3)
Viewpoint 3: The Neuk

Photomontage and
Visual Representation

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Key

- Indicative Onshore Substation Location
- MORL Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- Transmission Owner Substation Layout:
 - Substation Building Development Envelope
 - Electrical Equipment Development Envelope
- ▲ Viewpoint

Viewpoint 4: Upper Burnside
 Viewpoint Grid Reference: 382729m E 845614m N (OS BNG)
 View Direction: 162 Degrees from North
 Viewpoint Elevation: 112m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 958m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 04/02/2014, 14:47

Scale in metres: 1: 10,000		N ▲
Geodetic Parameters: OSGB British National Grid		
Produced: LA		
Reviewed: SM		
Approved: LT		
Date: 19/06/2014	Revision:	
Ref: 8460001-PSO0021-OPE-MAP-033		

Figure 5.3-33 (page 1 of 3)
Viewpoint 4: Upper Burnside

Moray Offshore Renewables Ltd



Existing view from Upper Burnside Distance to Nearest Onshore Substation: 958m Camera: Canon EOS 5D Mark II Focal Length: 50mm Horizontal Field of View: 72 degrees Camera Height: 2m Date: 04/02/14 Time: 14:47



<p>Computer generated model showing the development envelopes for the proposed onshore substations.</p>	<p>The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.</p>	<p>Important Viewing Instructions</p> <p>The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.</p>
<p>Figure 5.3-33 (page 2 of 3) Viewpoint 4: Upper Burnside</p>		<p>Photograph and Visual Representation</p>



Existing view from Upper Burnside Distance to Nearest Onshore Substation: 958m Camera: Canon EOS 5D Mark II Focal Length: 50mm Horizontal Field of View: 72 degrees Camera Height: 2m Date: 04/02/14 Time: 14:47



Representation of existing pylons

Computer generated model showing the development envelopes for the proposed onshore substations and woodland planting.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

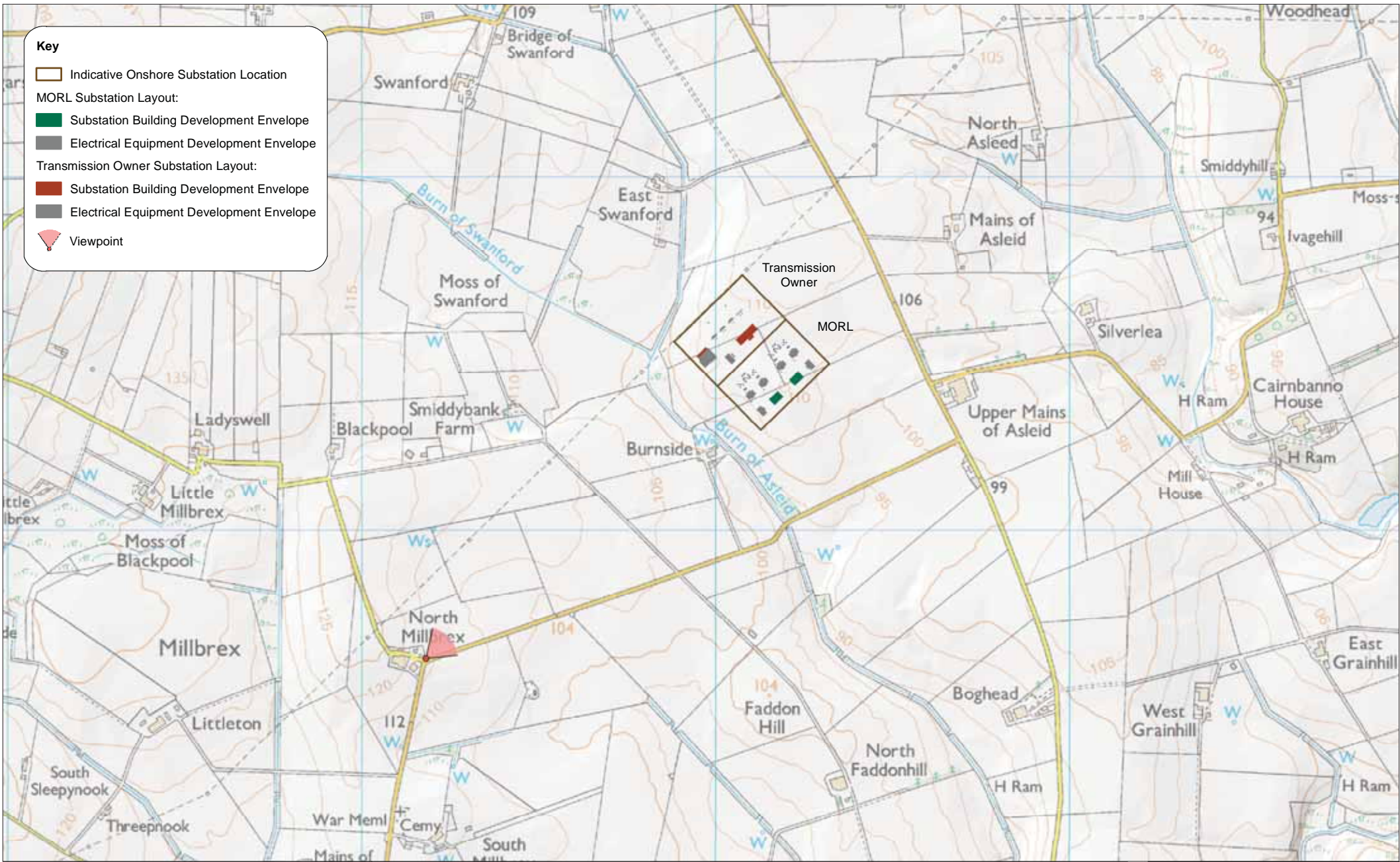
Important Viewing Instructions

The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-33 (page 3 of 3)
Viewpoint 4: Upper Burnside
Photomontage and Visual Representation

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Viewpoint 5: North Millbex

Viewpoint Grid Reference: 382183m E 843638m N (OS BNG)
 View Direction: 47 Degrees from North
 Viewpoint Elevation: 116m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 1127m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 11/06/2014, 14:01

Scale in metres: 1: 10,000



Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 19/06/2014 Revision:
 Ref: 8460001-PSO0021-OPE-MAP-034

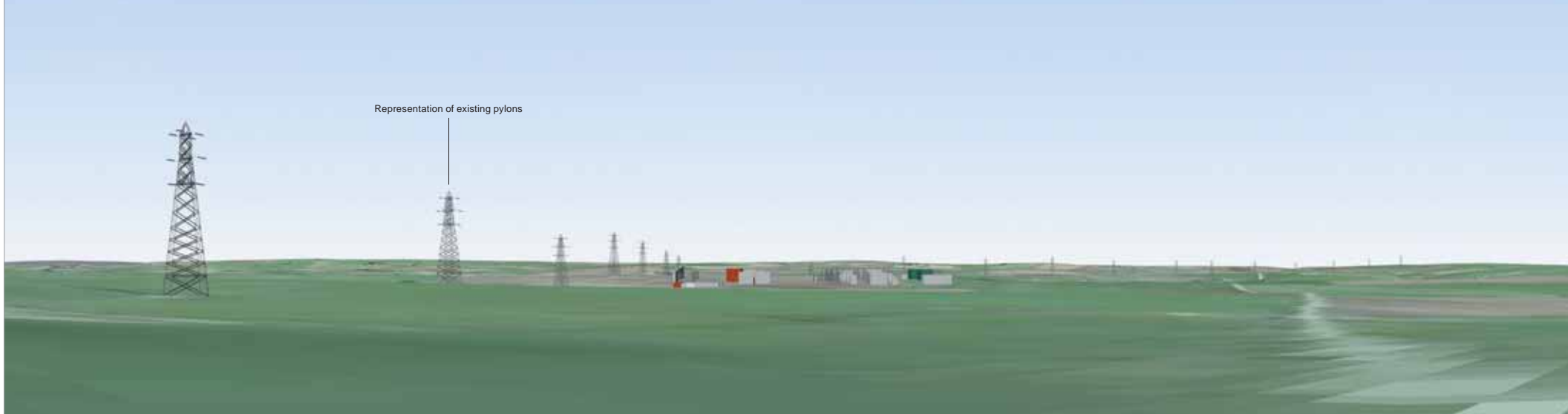
Figure 5.3-34 (page 1 of 3)

Viewpoint 5: North Millbex

**Moray Offshore
 Renewables Ltd**



Existing view from North Millbrex Distance to Nearest Onshore Substation: 1127m Camera: Canon EOS 5D Mark II Focal Length: 50mm Horizontal Field of View: 72 degrees Camera Height: 2m Date: 11/06/14 Time: 14:01



<p>Computer generated model showing the development envelopes for the proposed onshore substations.</p>	<p>The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.</p>	<p>Important Viewing Instructions</p> <p>The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.</p>	<p>Figure 5.3-34 (page 2 of 3) Viewpoint 5: North Millbrex Photograph and Visual Representation</p>
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Photomontage view showing the development envelopes for the proposed onshore substations.

Camera: Canon EOS 5D Mark II

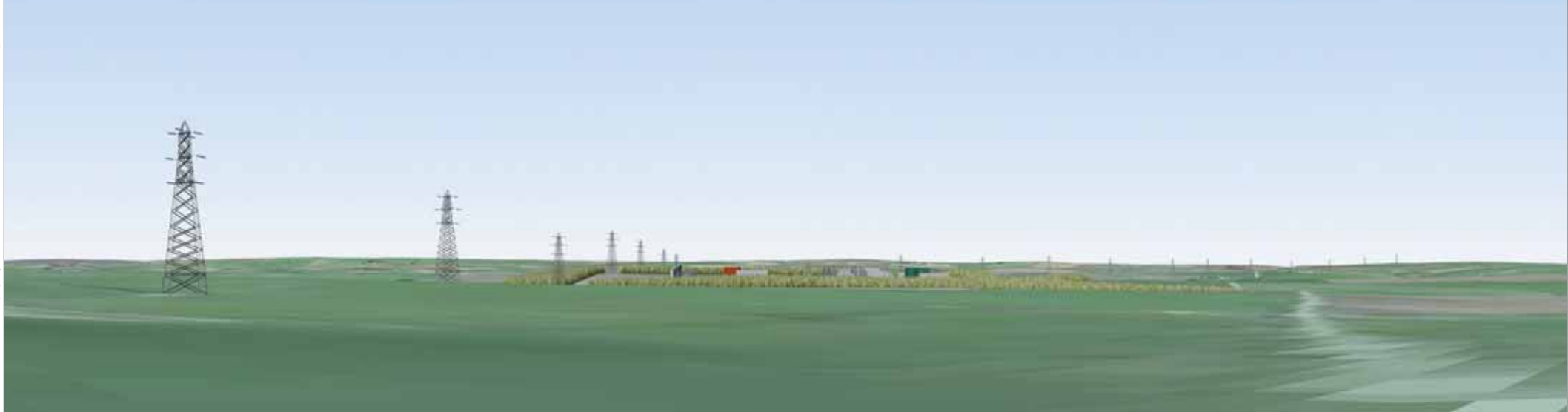
Focal Length: 50mm

Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 11/06/14

Time: 14:01



Computer generated model showing the development envelopes for the proposed onshore substations and woodland planting.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions

The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.







Figure 5.3-34 (page 3 of 3)
Viewpoint 5: North Millbrex

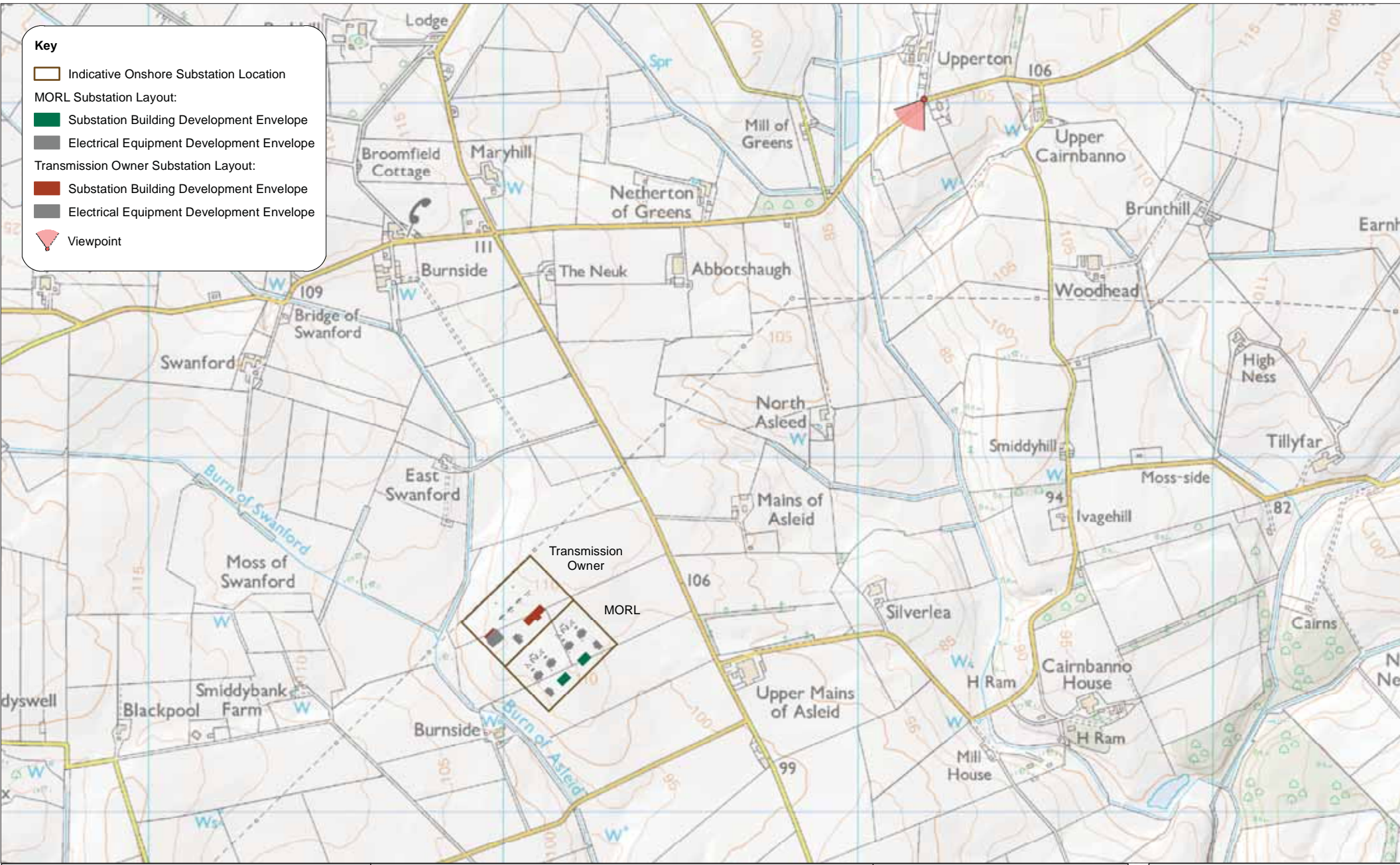
Photomontage and
Visual Representation

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Key

-  Indicative Onshore Substation Location
- MORL Substation Layout:
 -  Substation Building Development Envelope
 -  Electrical Equipment Development Envelope
- Transmission Owner Substation Layout:
 -  Substation Building Development Envelope
 -  Electrical Equipment Development Envelope
-  Viewpoint



Viewpoint 6: Upperton

Viewpoint Grid Reference: 384186m E 846009m N (OS BNG)
 View Direction: 216 Degrees from North
 Viewpoint Elevation: 103m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 1699m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 04/02/2014, 14:37

Scale in metres: 1: 10,000



Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 19/06/2014 Revision:
 Ref: 8460001-PSO0021-OPE-MAP-035

Figure 5.3-35 (page 1 of 3)

Viewpoint 6: Upperton

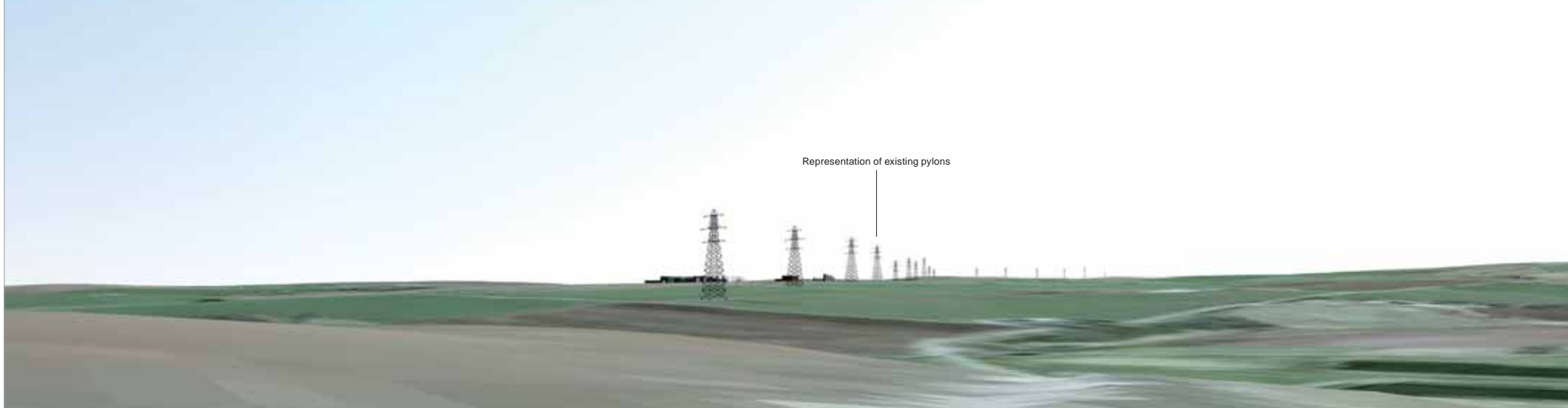


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Existing view from Upperton Distance to Nearest Onshore Substation: 1699m Camera: Canon EOS 5D Mark II Focal Length: 50mm Horizontal Field of View: 72 degrees Camera Height: 2m Date: 04/02/14 Time: 14:37



<p>The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.</p>	<p>Important Viewing Instructions</p> <p>The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.</p>	<p>Figure 5.3-35 (page 2 of 3)</p> <p>Viewpoint 6: Upperton</p> <p>Photograph and Visual Representation</p>
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Computer generated model showing the development envelopes for the proposed onshore substations and woodland planting.



Existing view from Upperton

Distance to Nearest Onshore Substation: 1699m

Camera: Canon EOS 5D Mark II

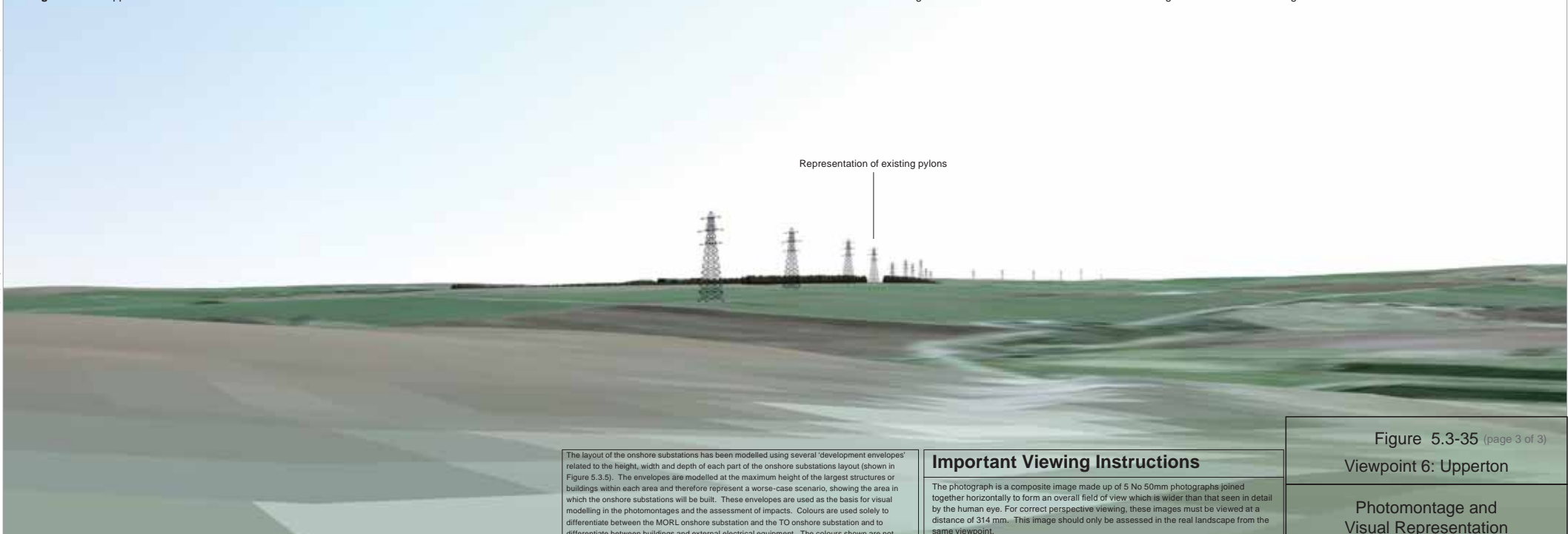
Focal Length: 50mm

Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 04/02/14

Time: 14:37



Representation of existing pylons

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Computer generated model showing the development envelopes for the proposed onshore substations.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions

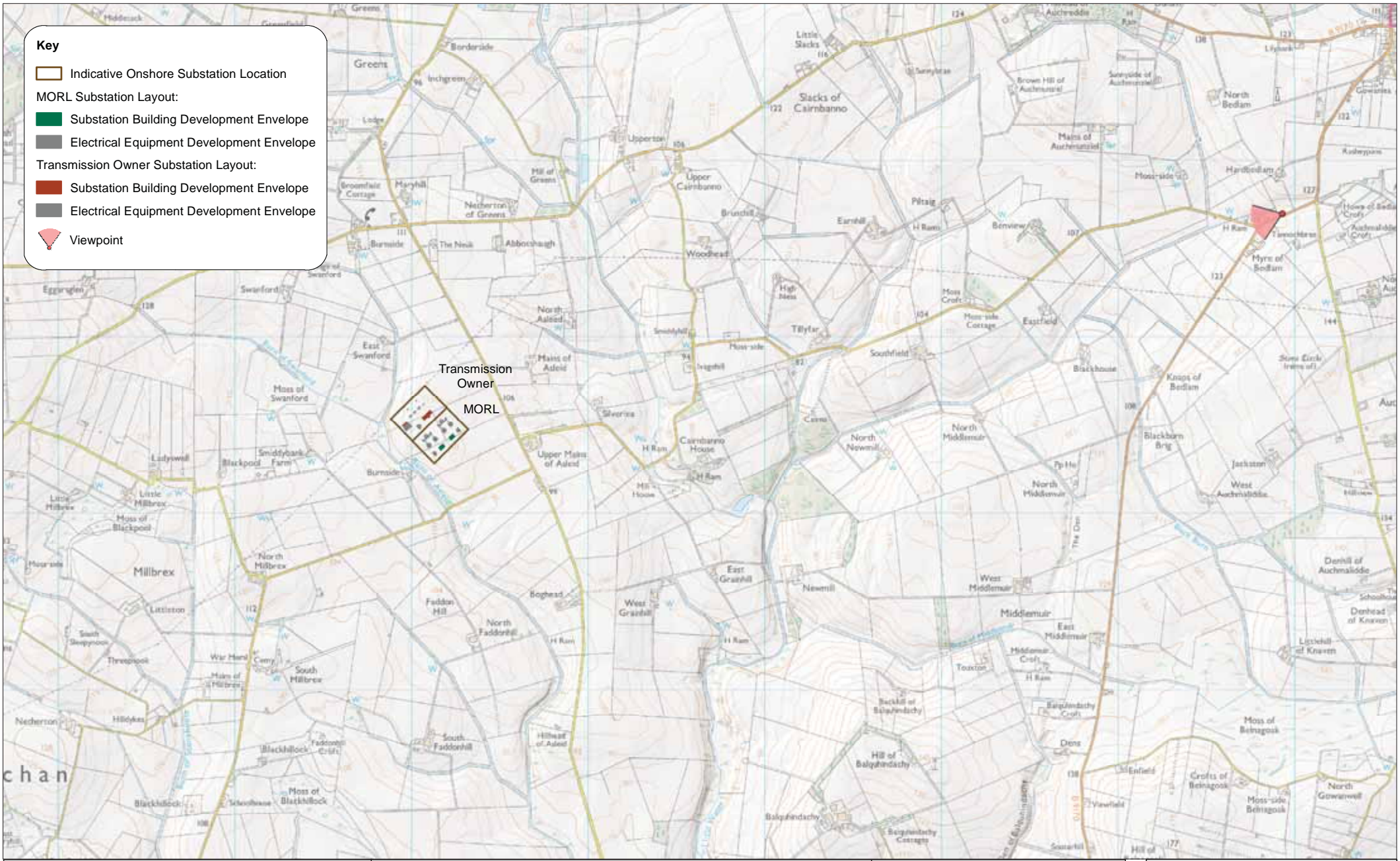
The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-35 (page 3 of 3)
Viewpoint 6: Upperton
Photomontage and Visual Representation

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Key

- Indicative Onshore Substation Location
- MORL Substation Layout:**
- Substation Building Development Envelope
- Electrical Equipment Development Envelope
- Transmission Owner Substation Layout:**
- Substation Building Development Envelope
- Electrical Equipment Development Envelope
- Viewpoint



Viewpoint 7: B9170 near New Deer
 Viewpoint Grid Reference: 387929m E 845697m N (OS BNG)
 View Direction: 250 Degrees from North
 Viewpoint Elevation: 121m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 4767m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 11/06/2014, 13:05

Scale in metres: 1: 20,000	
N ▲	
Geodetic Parameters: OSGB British National Grid	
Produced: LA	
Reviewed: SM	
Approved: LT	
Date: 19/06/2014	Revision:
Ref: 8460001-PSO0021-OPE-MAP-036	

Figure 5.3-36 (page 1 of 3)

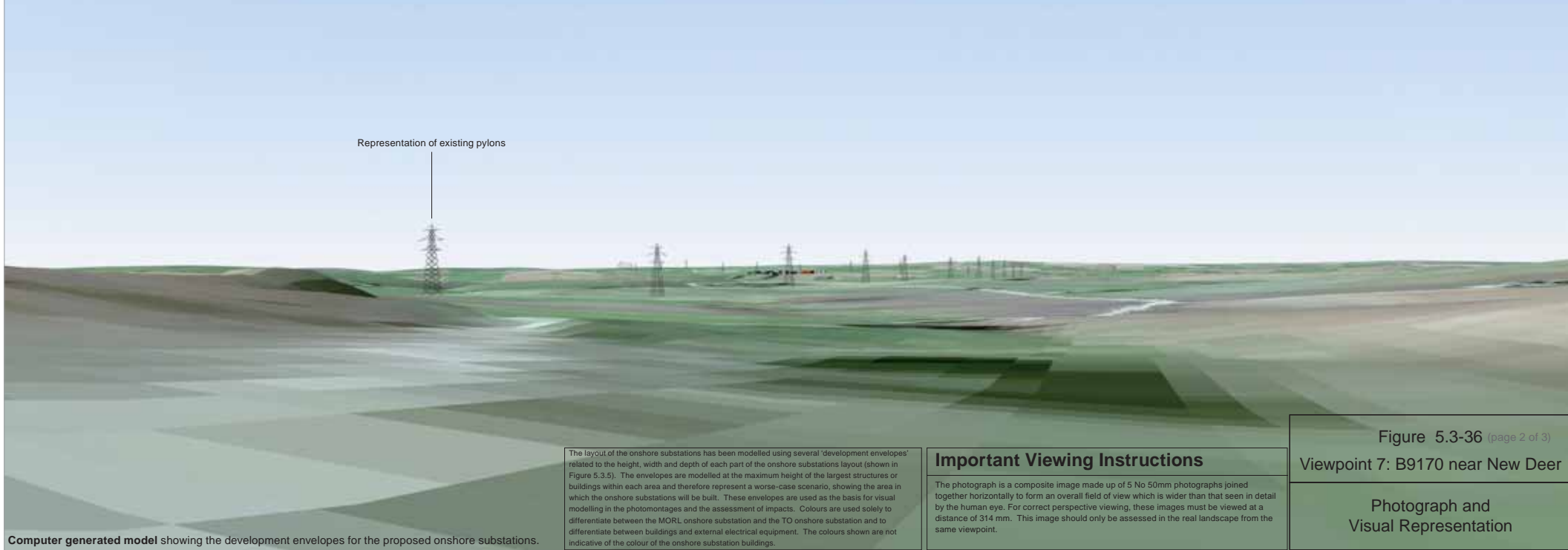
Viewpoint 7: B9170 near New Deer

Moray Offshore
Renewables Ltd





Existing view from B9170 near New Deer Distance to Nearest Onshore Substation: 4767m Camera: Canon EOS 5D Mark II Focal Length: 50mm Horizontal Field of View: 72 degrees Camera Height: 2m Date: 11/06/14 Time: 13:05



Representation of existing pylons

Computer generated model showing the development envelopes for the proposed onshore substations.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions
The photograph is a composite image made up of 5 No 50mm photographs joined together horizontally to form an overall field of view which is wider than that seen in detail by the human eye. For correct perspective viewing, these images must be viewed at a distance of 314 mm. This image should only be assessed in the real landscape from the same viewpoint.

Figure 5.3-36 (page 2 of 3)
Viewpoint 7: B9170 near New Deer
Photograph and Visual Representation



Existing view from B9170 near New Deer

Distance to Nearest Onshore Substation: 4767m

Camera: Canon EOS 5D Mark II

Focal Length: 50mm

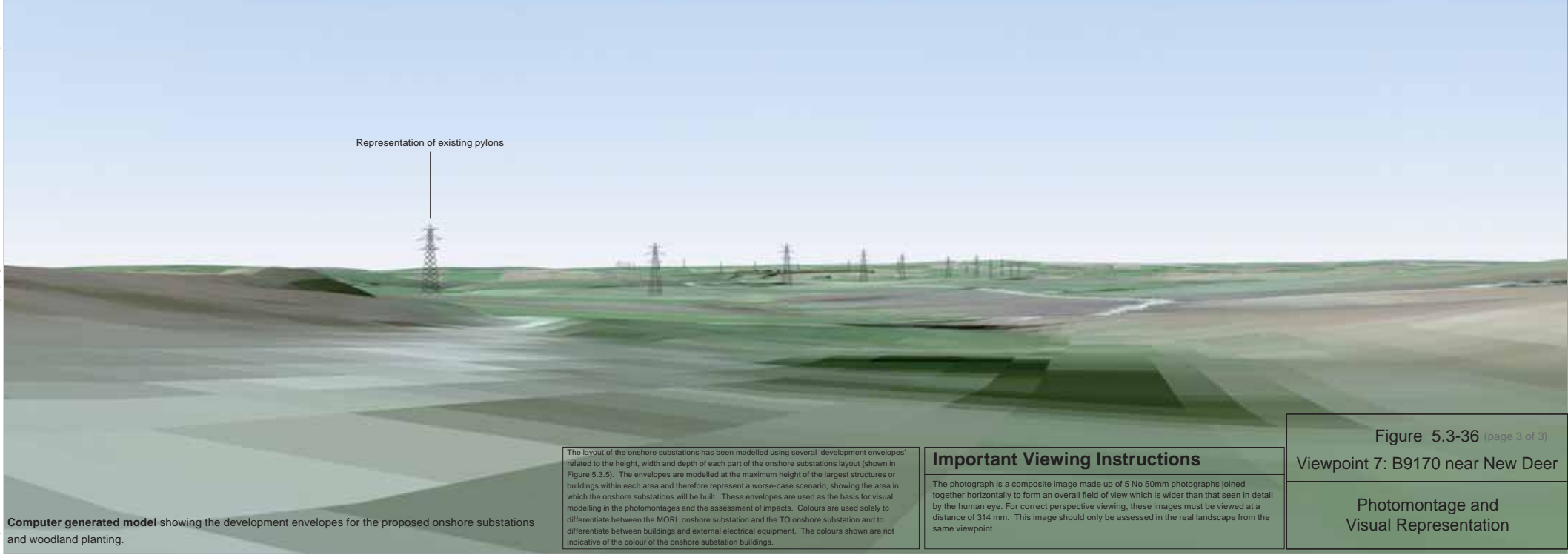
Horizontal Field of View: 72 degrees

Camera Height: 2m

Date: 11/06/14

Time: 13:05

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Representation of existing pylons

Computer generated model showing the development envelopes for the proposed onshore substations and woodland planting.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

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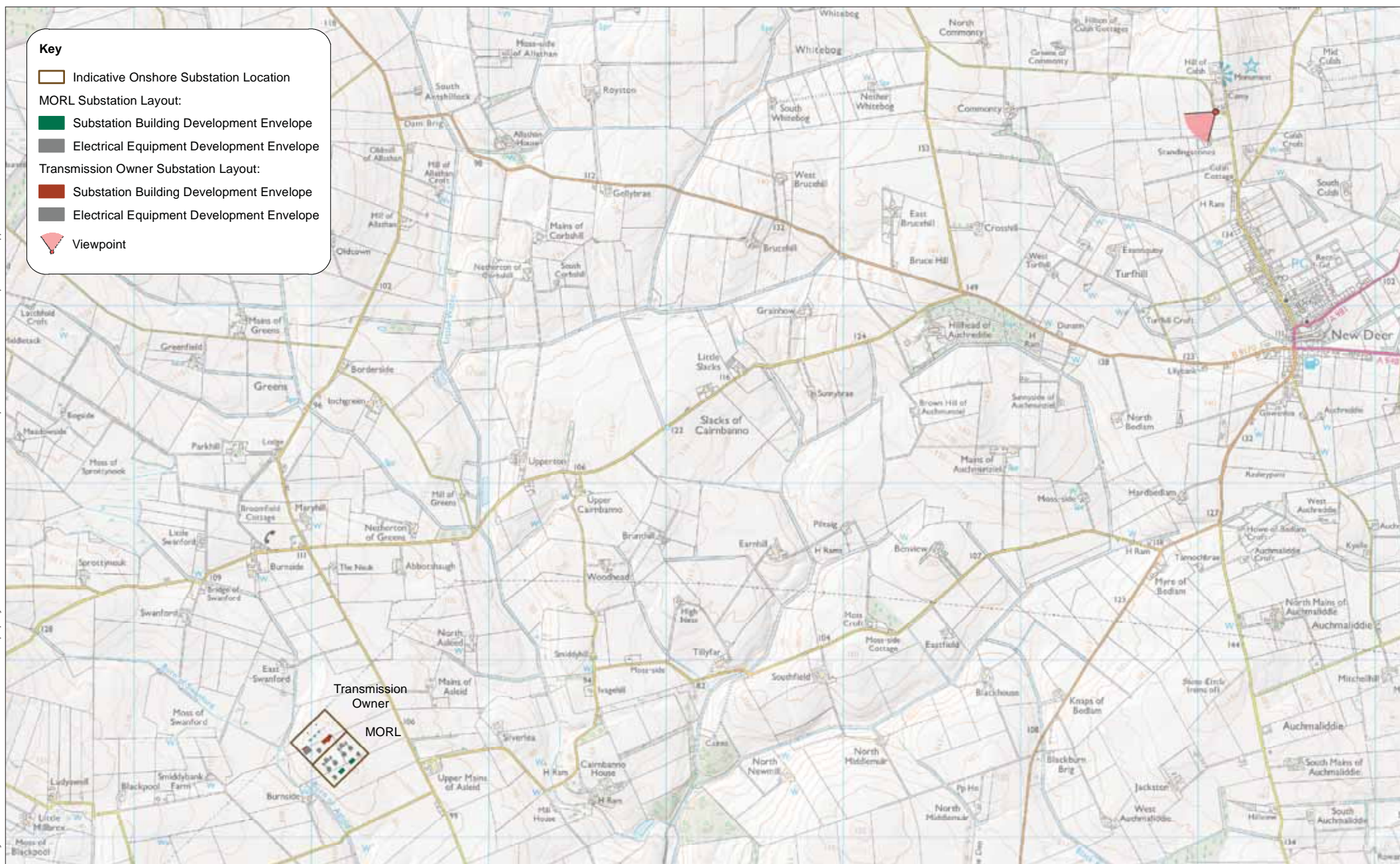
Figure 5.3-36 (page 3 of 3)
 Viewpoint 7: B9170 near New Deer
 Photomontage and Visual Representation

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Key

- Indicative Onshore Substation Location
- MORL Substation Layout:**
- Substation Building Development Envelope
- Electrical Equipment Development Envelope
- Transmission Owner Substation Layout:**
- Substation Building Development Envelope
- Electrical Equipment Development Envelope
- Viewpoint



Transmission Owner
MORL

Viewpoint 8: Culsh Hill (near Culsh Monument)

Viewpoint Grid Reference: 388099m E 848099m N (OS BNG)
 View Direction: 232 Degrees from North
 Viewpoint Elevation: 142m AOD
 Horizontal Field of View: 72 Degrees
 Distance to Nearest Onshore Substation: 5998m
 Image Viewing Distance: 32cm
 Date & Time of Photo: 11/06/2014, 12:20

Scale in metres: 1: 20,000



Geodetic Parameters: OSGB British National Grid	
Produced: LA	
Reviewed: SM	
Approved: LT	
Date: 19/06/2014	Revision:
Ref: 8460001-PSO0021-OPE-MAP-037	

Figure 5.3-37 (page 1 of 2)

Viewpoint 8: Culsh Hill



Moray Offshore Renewables Ltd

Moray Offshore Renewables Ltd



Existing view from Culsh Hill (near Culsh Monument)
 Distance to Nearest Onshore Substation: 5998m
 Camera: Canon EOS 5D Mark II
 Focal Length: 50mm
 Horizontal Field of View: 72 degrees
 Camera Height: 2m
 Date: 11/06/14
 Time: 12:20



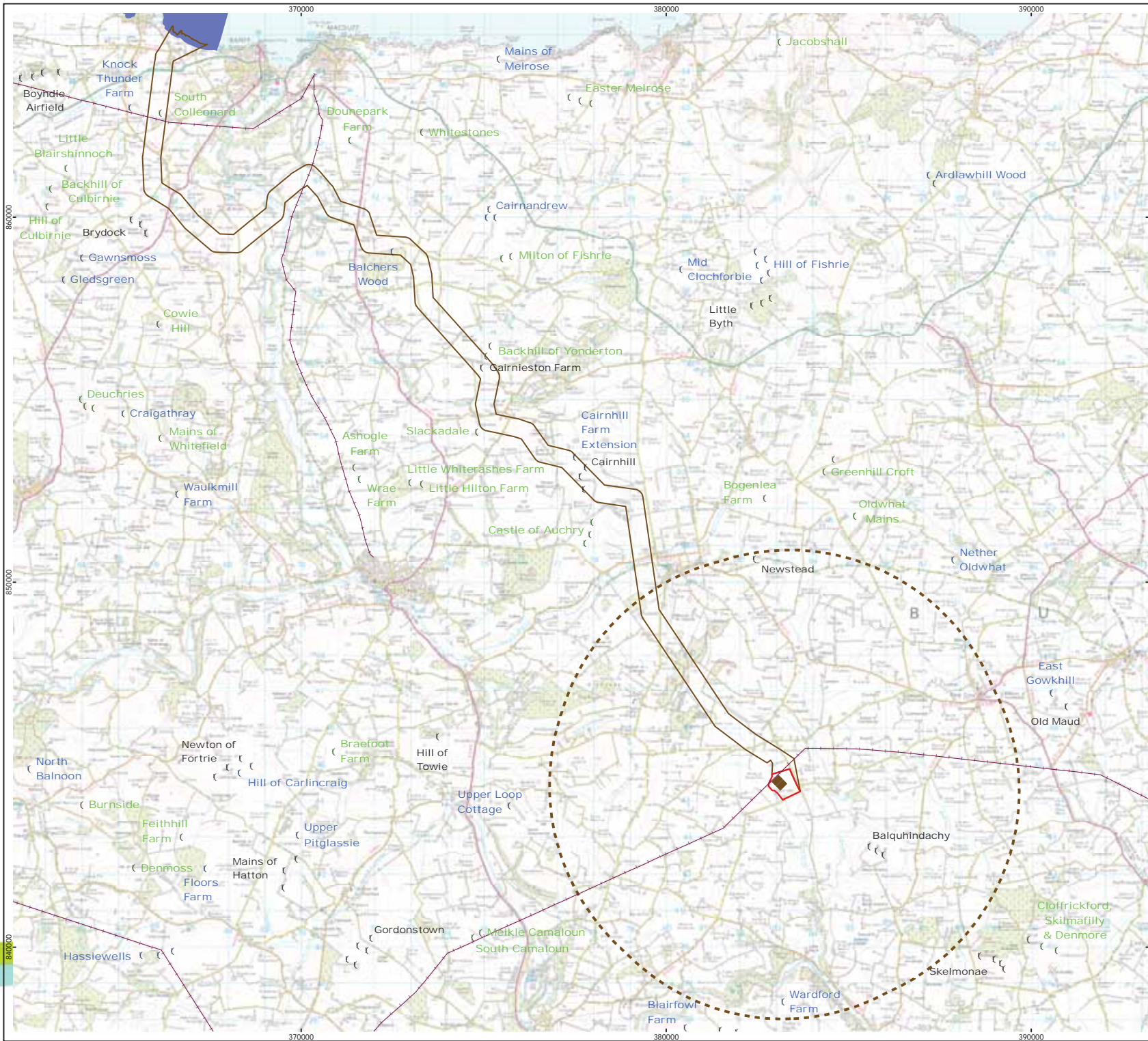
Computer generated model showing the development envelopes for the proposed onshore substations.

The layout of the onshore substations has been modelled using several 'development envelopes' related to the height, width and depth of each part of the onshore substations layout (shown in Figure 5.3.5). The envelopes are modelled at the maximum height of the largest structures or buildings within each area and therefore represent a worse-case scenario, showing the area in which the onshore substations will be built. These envelopes are used as the basis for visual modelling in the photomontages and the assessment of impacts. Colours are used solely to differentiate between the MORL onshore substation and the TO onshore substation and to differentiate between buildings and external electrical equipment. The colours shown are not indicative of the colour of the onshore substation buildings.

Important Viewing Instructions
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Figure 5.3-37 (page 2 of 2)
 Viewpoint 8: Culsh Hill
 Photograph and Visual Representation

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Moray Offshore Renewables Ltd

- KEY**
- Indicative Onshore Substation Location
 - Onshore Substation Area
 - Onshore Substation Study Area
 - Modified Offshore Export Cable Route Corridor
 - Transmission Line
 - Operational Wind Turbine
 - Consented Wind Turbine
 - Application Wind Turbine

Horizontal Scale: 1:100,000 A3 Chart
 0 2,000 4,000 Meters

Geodetic Parameters: OSGB British National Grid

Produced: LA
 Reviewed: SM
 Approved: LT

Date: 24/5/2014	Revision: B
REF: 8460001-PSO0021-OPE-MAP-038	

Figure 5.3-38
Modified OnTI:
Cumulative Development Context

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