Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Environmental Statement

Volume II - Figures

July 2012

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Proposed Turbine Location



1:100,000 Scale @ A3

0 2.5 5 km

N

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Reviewed: SC
Approved: JH

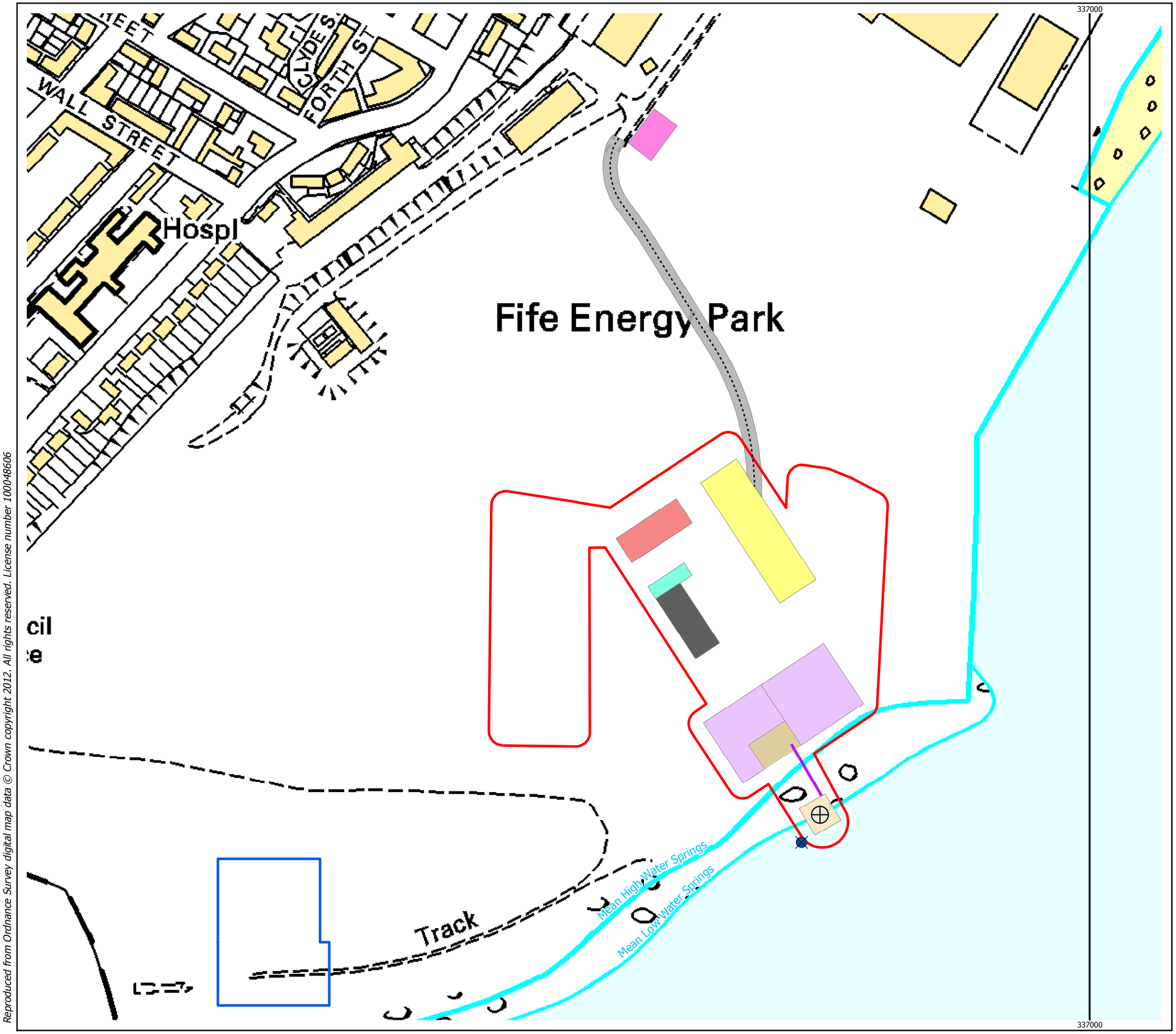
Ref: 867/PA/013 | Revision: A

Date: 23/07/2012

Site Location
Figure 1.1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

P:\Projects\867 Methil Test Site\MXDs\ES MXDs\Methil_Figure_1.1_Site_Location.mxd



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- Proposed Turbine Location
- Site Boundary
- Onshore Met Mast Application Boundary
- Temporary Offshore Meteorological Mast
- Indicative Grid Connection Route
- Indicative Substation
- Control Building
- Crane Pad
- Access Track
- Turbine Foundation
- Personnel Bridge

Laydown Area

- Blade
- Tower
- Nacelle
- Lifting Area

Turbine Location
British National Grid 336813 698362
WGS 84 Lat:56.173699485906 N
Long:3.01928143123355 W

Offshore Meteorological Mast
British National Grid 336800 698343
WGS84 Lat:56.17352 N Long:3.019486 W

1:2,527 Scale @ A3

0 50 100 m

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/014 | Revision: A

Date: 23/07/2012

Indicative Site Layout
Figure 1.2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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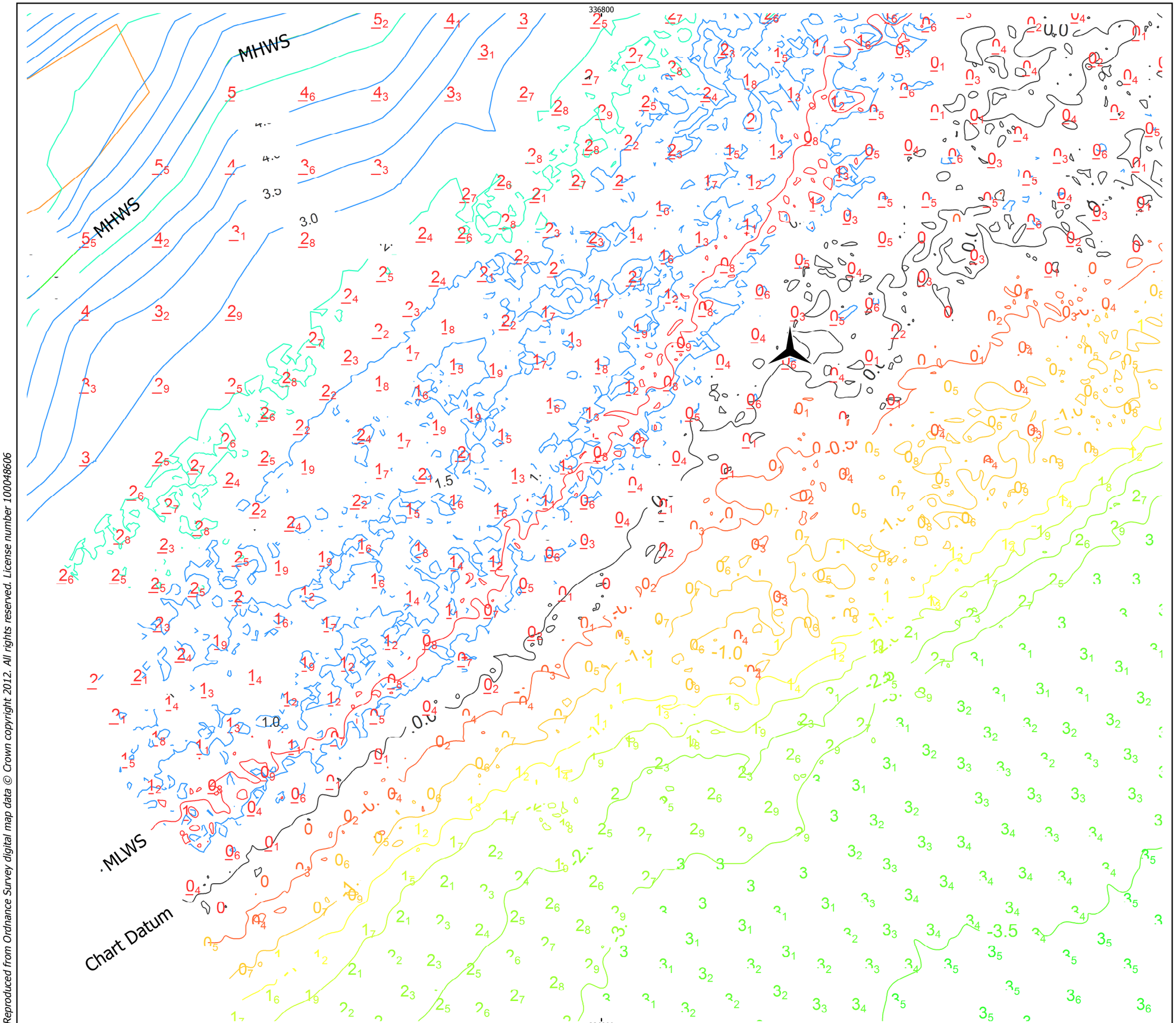

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Proposed Turbine Location

1:250 Scale @ A3

0 5.5 11 m

N

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Turbine Location on Bathymetric Map
Figure 1.3

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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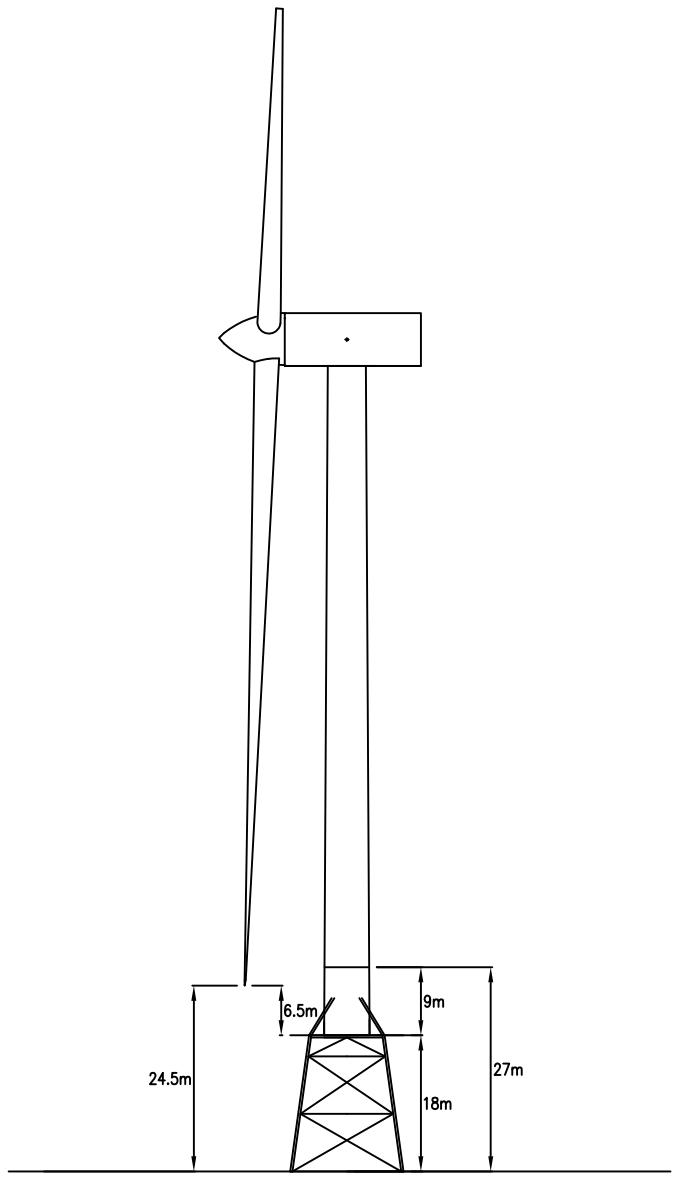
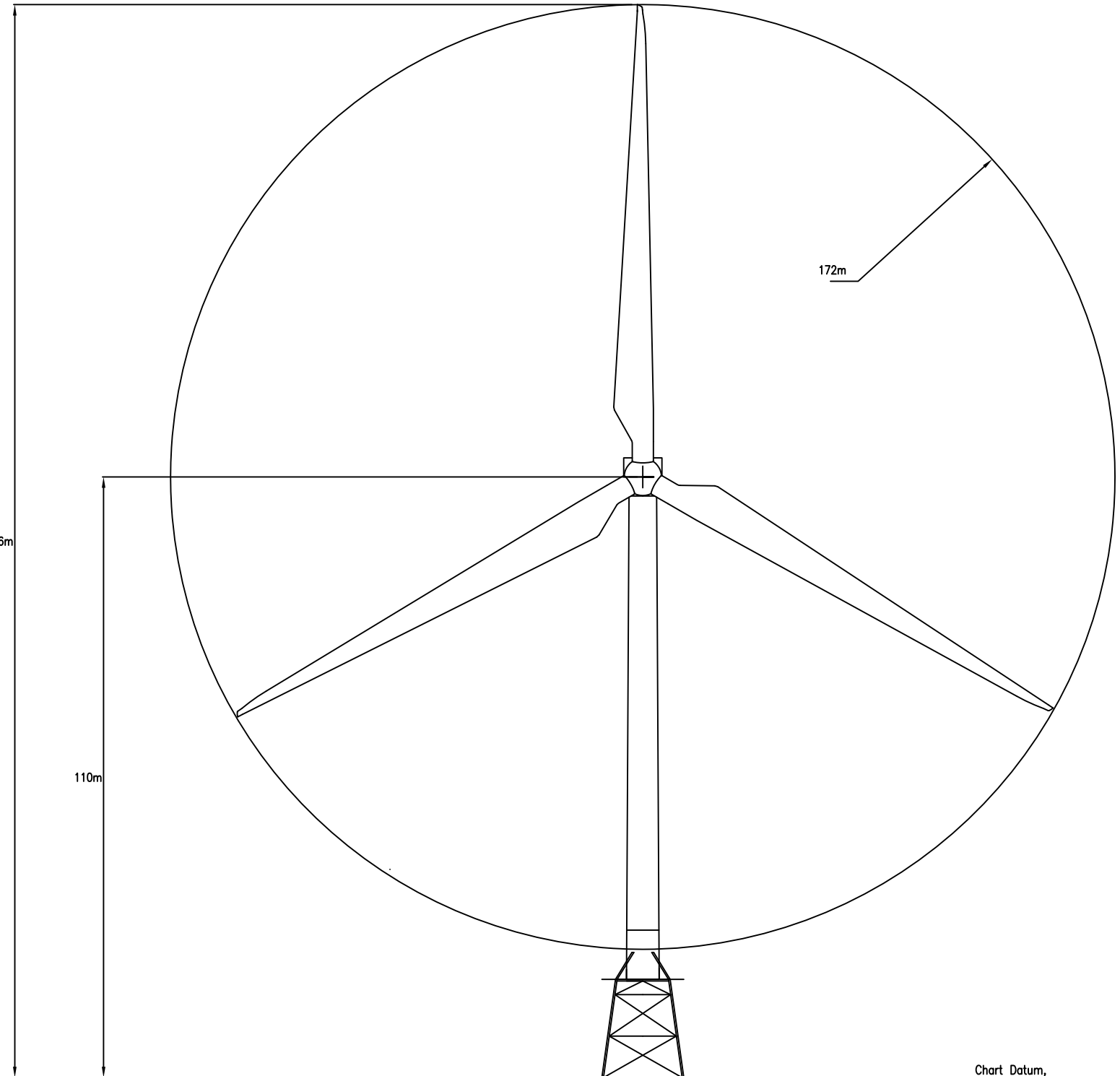


Scale 1:1000



Scale 1:1000

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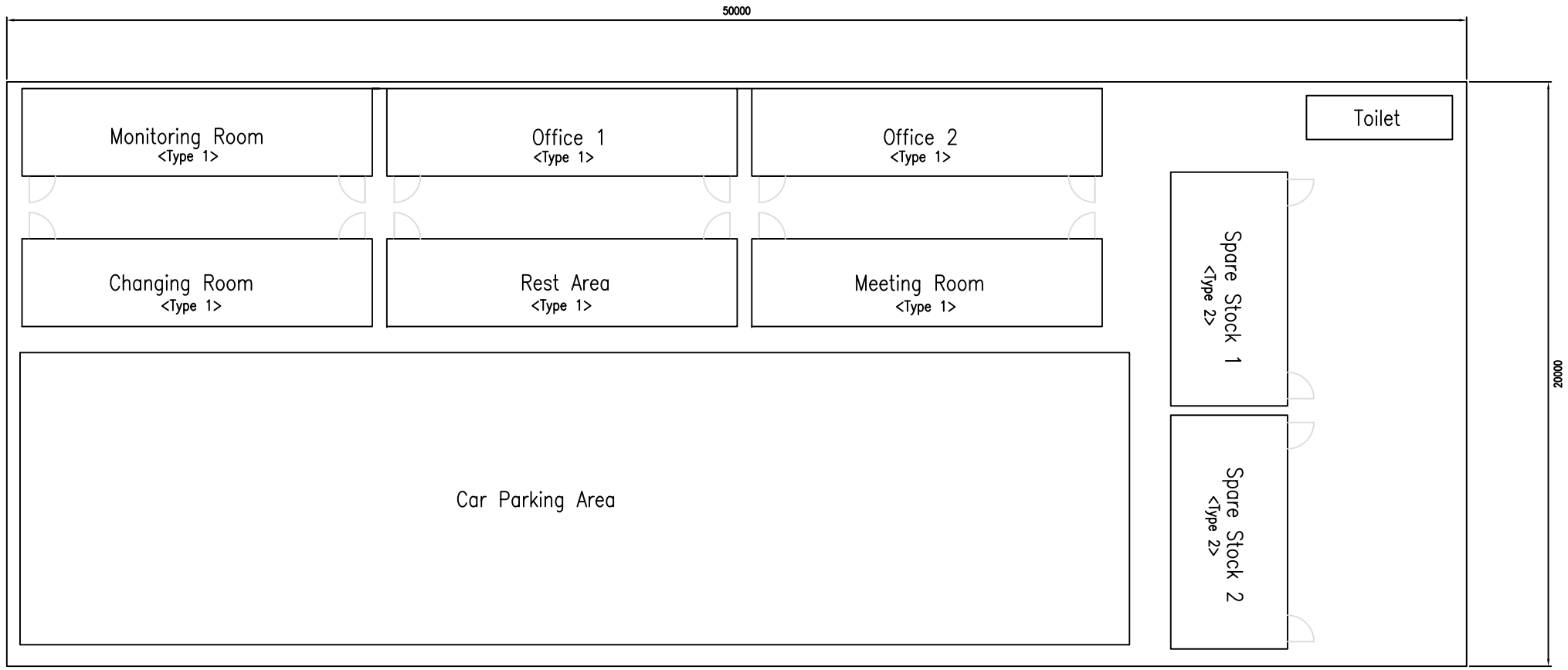
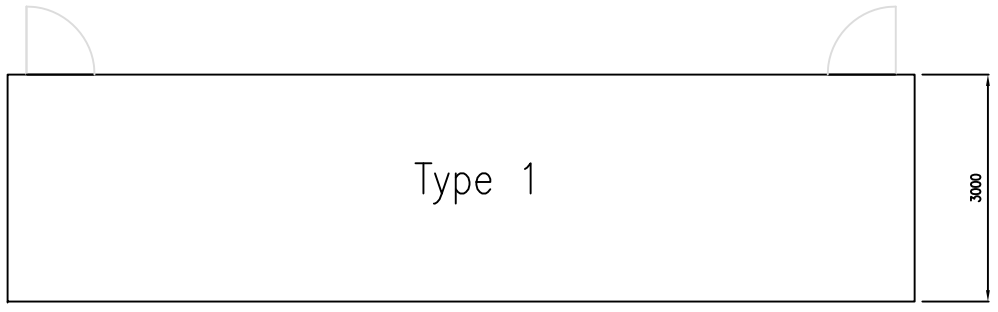
Indicative Turbine Envelope
Figure 3.1

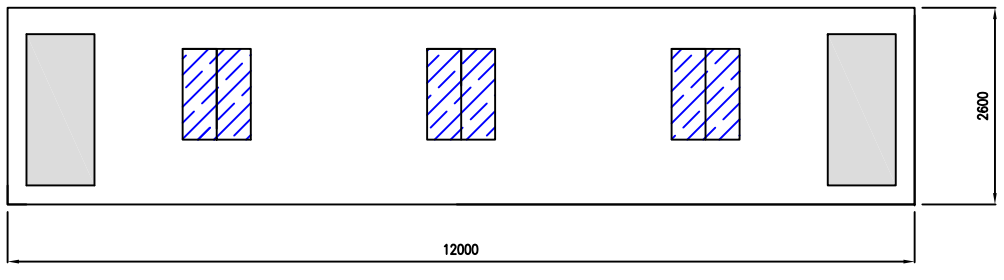
Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)



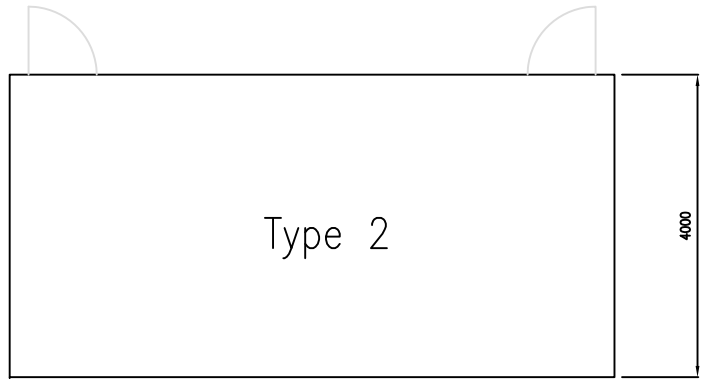
Plan View
1:200 at A3



Plan View
1:100 at A3



Front View
1:100 at A3



Plan View
1:100 at A3



Front View
1:100 at A3

Dimensions in mm unelss otherwise stated

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Indicative Control Compound
Figure 3.2

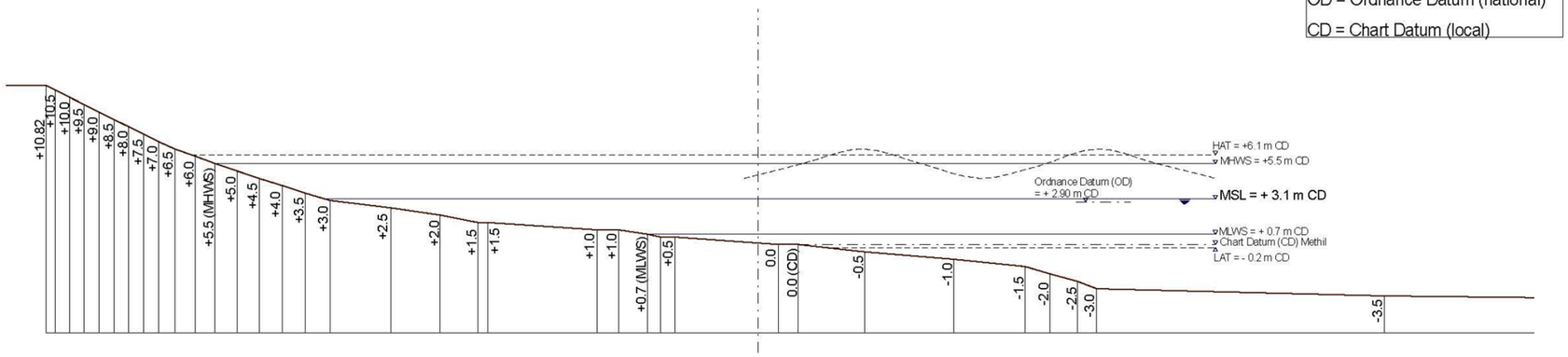
Fife Energy Park offshore Demonstration Wind Turbine (FEPODWT)

335000 336000 337000 338000

700000 699000 698000 697000

Key to Abbreviations:

HAT = Highest Astronomical Tide
MHWS = Mean High Water Springs
MSL = Mean Sea Level
MLWS = Mean Low Water Springs
LAT = Lowest Astronomical Tide
OD = Ordnance Datum (national)
CD = Chart Datum (local)

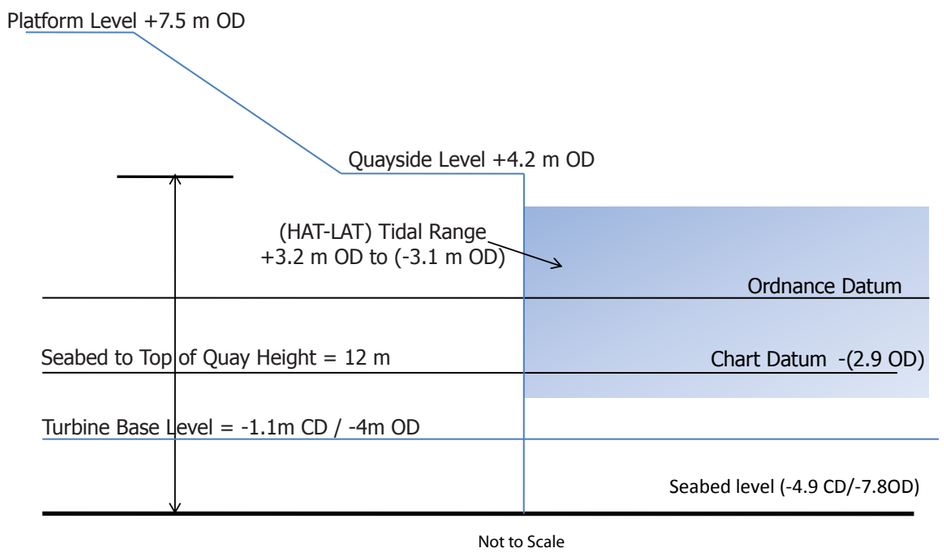


Section through existing seabed as surveyed

horizontal and vertical scales are equal

Scale: 1:350 @A3

Tidal Range



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Cross Section
Figure 3.3

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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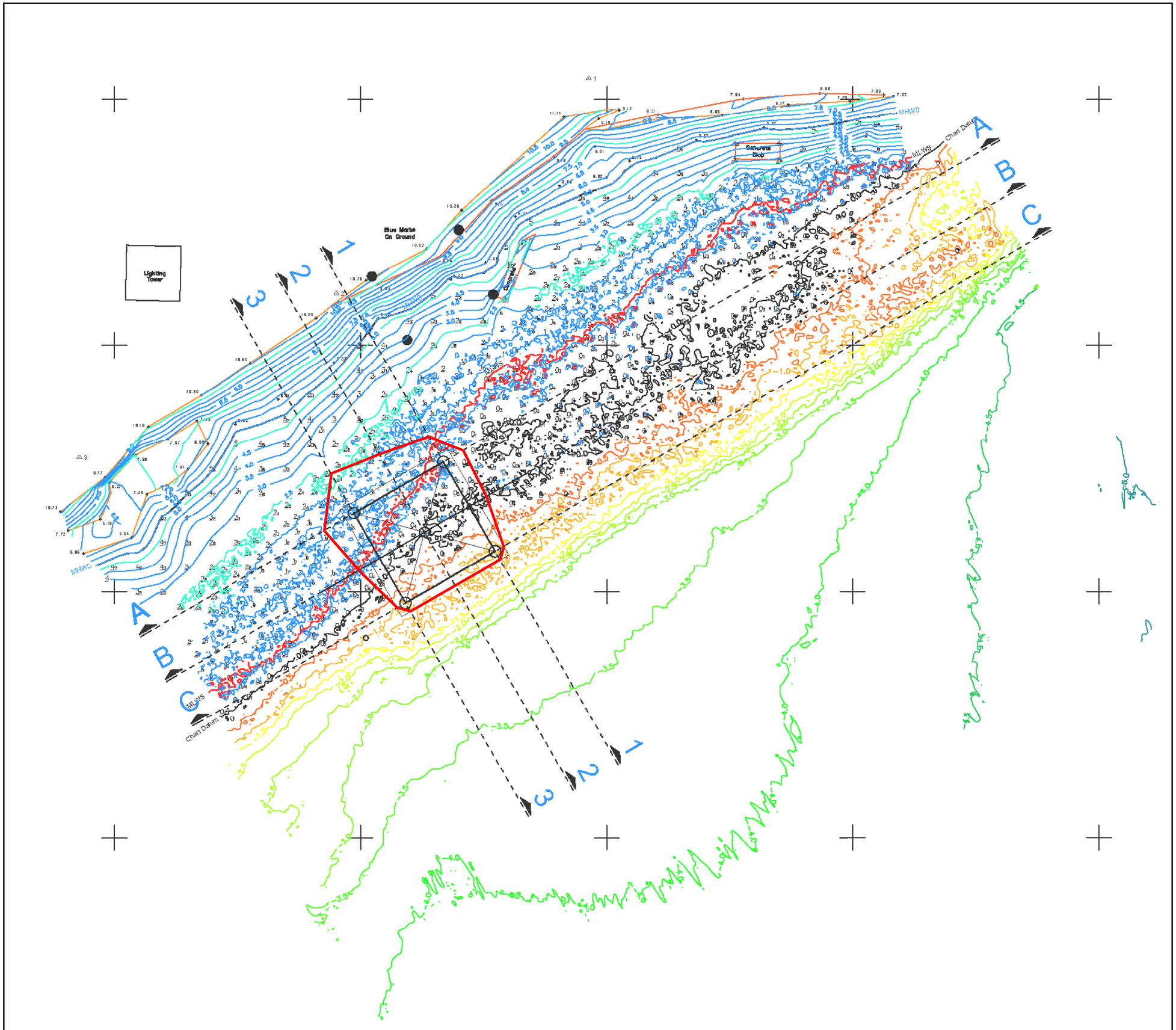

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Extent of Dredging Area

Cross Sections 1-1, 2-2, 3-3, A-A and C-C relate to figure 3.7

1:750 Scale @ A3

0 10 20 m

N

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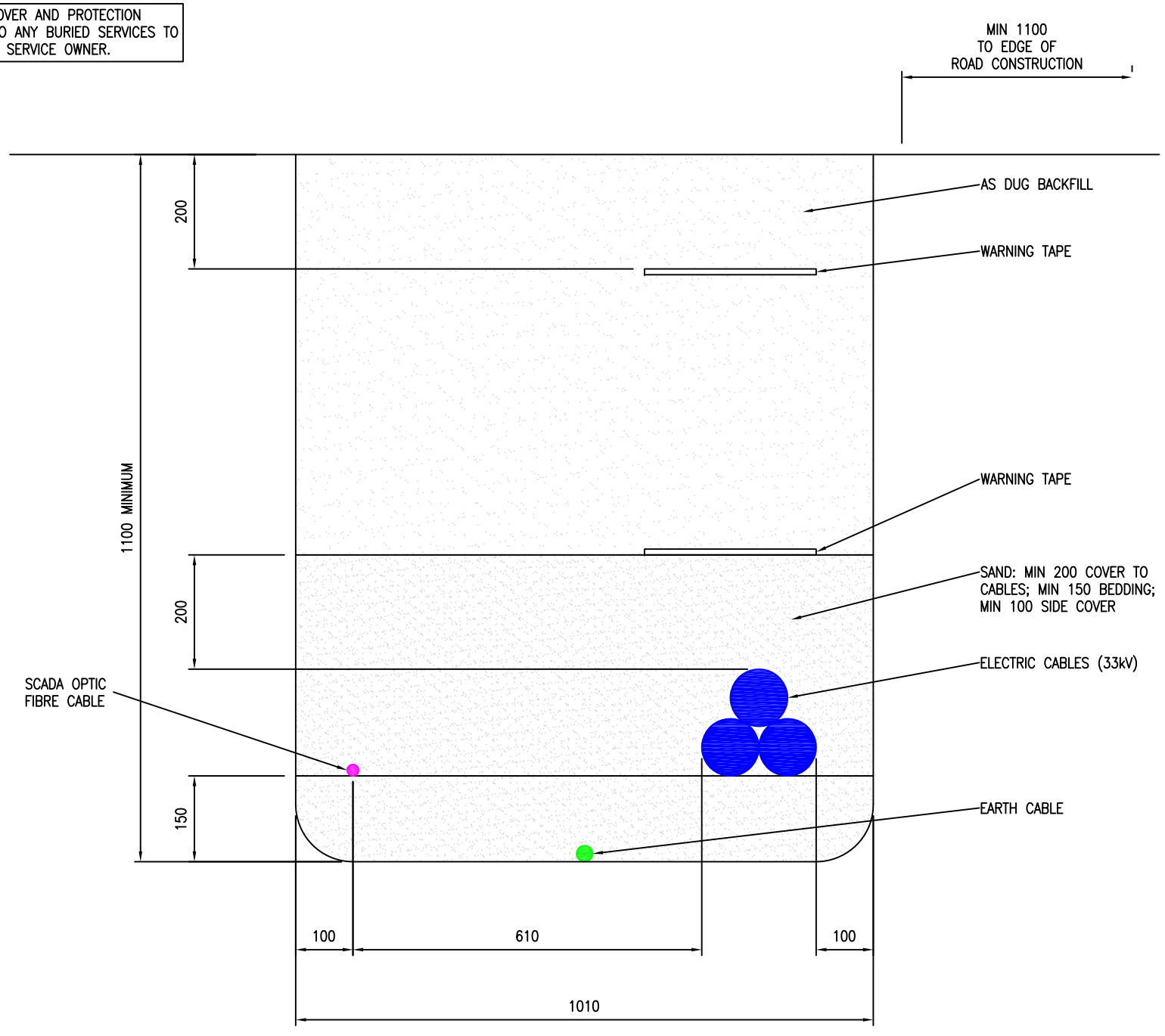
Seabed Preparation Area
Figure 3.4

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_3.4_Seabed_Prep_Area.mxd

NB– MINIMUM COVER AND PROTECTION REQUIREMENTS TO ANY BURIED SERVICES TO BE AGREED WITH SERVICE OWNER.



CABLE TRENCH DETAIL (1:10)

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All dimensions in mm unless otherwise stated.

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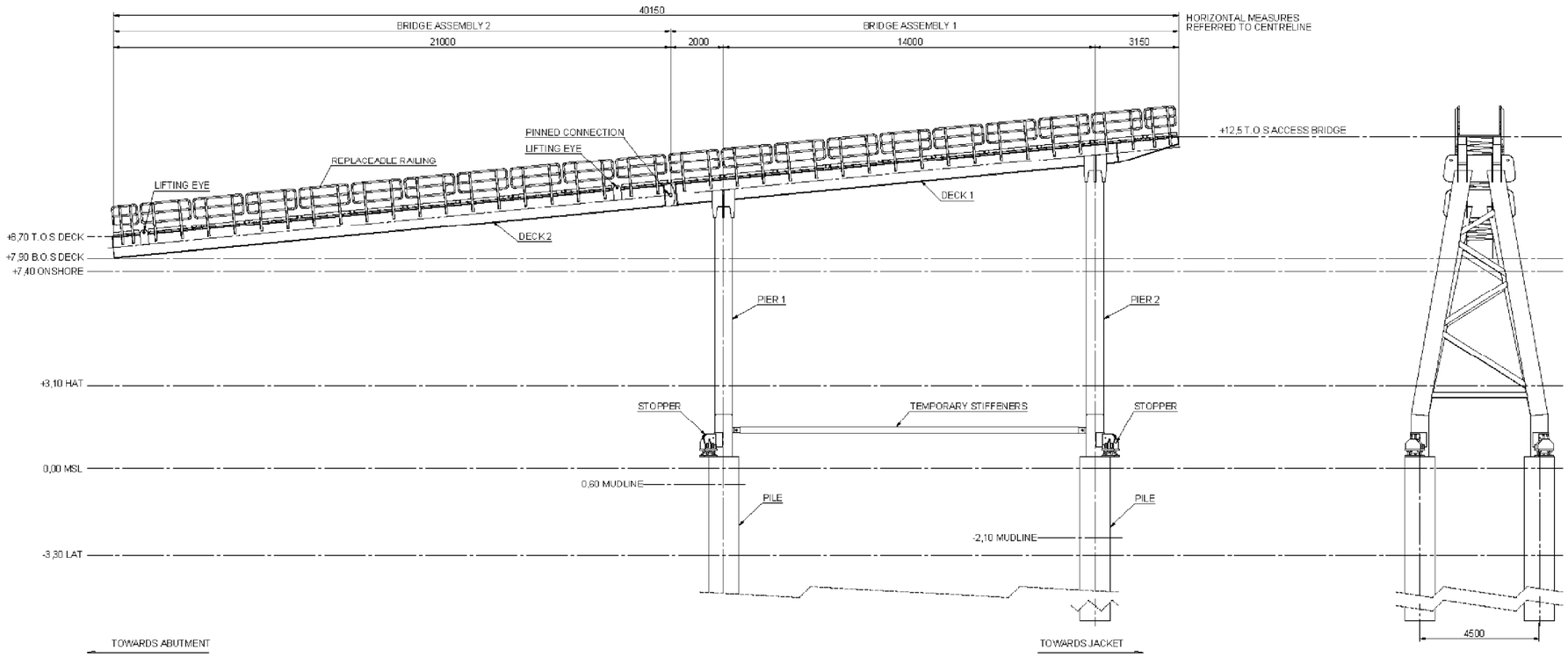
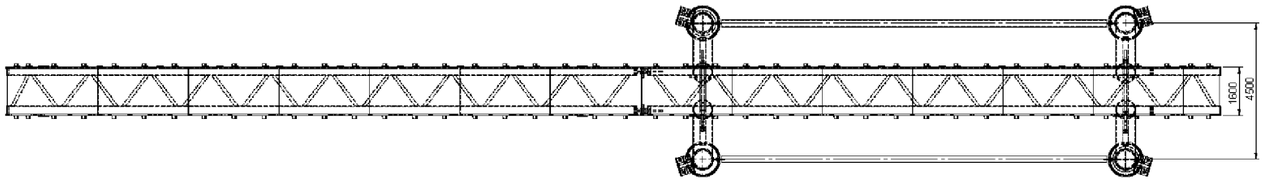
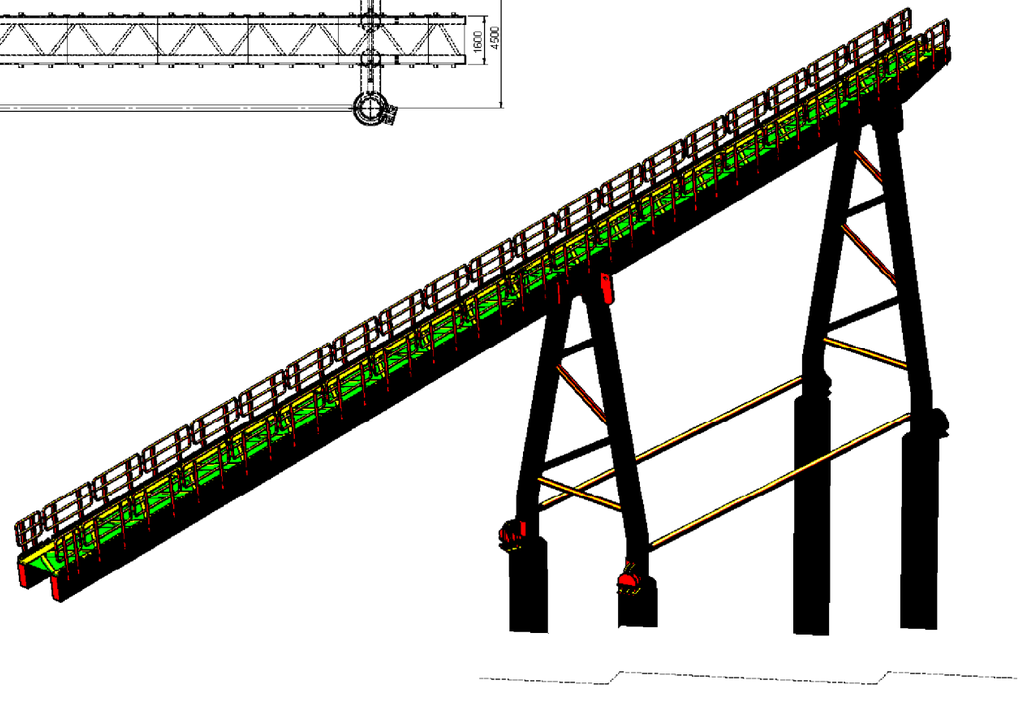
Typical Cable Trench
Figure 3.5

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)







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All elevations are referred to in MSL
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Typical Bridge Detail
Figure 3.6

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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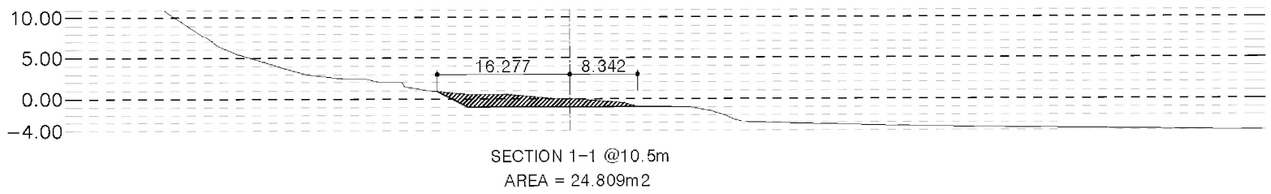
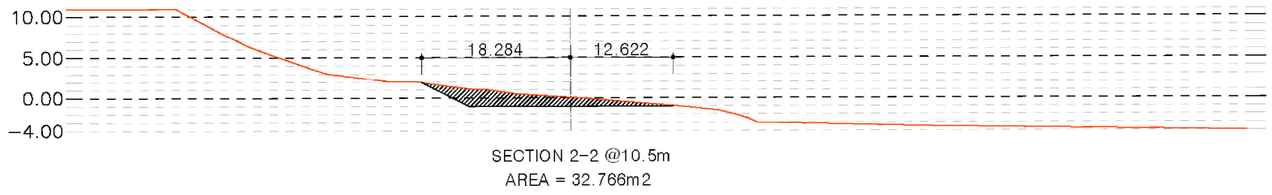
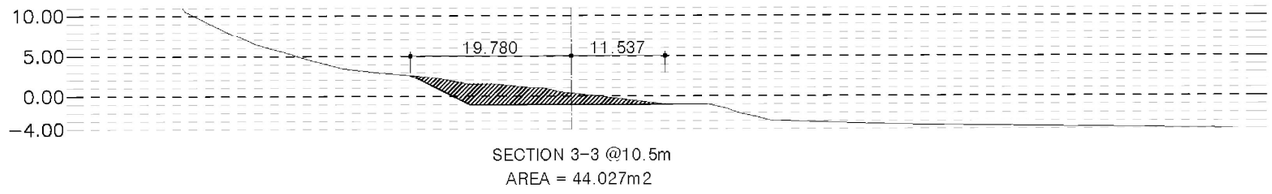


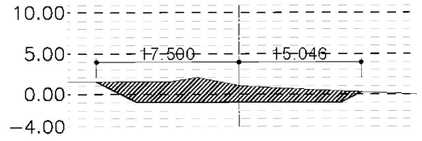
SECTION 1−1 @10.5m
AREA = 24.809m2



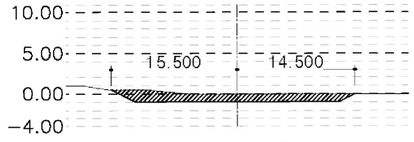
SECTION 2−2 @10.5m
AREA = 32.766m2



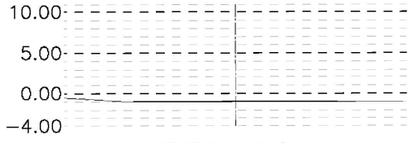
SECTION 3−3 @10.5m
AREA = 44.027m2



SECTION A−A @10.5m
AREA = 61.171m2



SECTION B−B @10.5m
AREA = 30.158m2



SECTION C−C @10.5m
AREA = 0.000m2

Volume calcuation by the prismoidal formular(Simpson's Rule)
Sections @ 10.500m centres − the end sections are taken as being of zero area, which is approximately correct in this case

Section	Area(m2)
End	0
1−1	24.809
2−2	32.766
3−3	44.027
End	0

The excavated volume is thus approximately:
V=(10.5/3)x(0+4x24.809+2x32.766+4x44.027+0)
=1193m3 approx. − conservatively take V as = 1200m3

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Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/041 | Revision: A

Date: 26/06/2012

Seabed Preparation Area
Figure 3.7

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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5km
10km
15km
20km
25km
30km
ROSYTH to Zeebrugge 18 hrs
Tay Road Bridge
Forth Road Bridge
PERTH
DUNFERMLINE
KIRKCALDY
EDINBURGH
ST ANDREWS
ANSTRUTHER
CRAIL
KINROSS
GLENROTHES
LIVINGSTON
HADDINGTON
NEWBURGH
CUPAR
LADYBANK
FALKLAND
INVERKEITHING
NORTH QUEENSFERRY
BURNTISLAND
KINGHORN
COWDENBEATH
LOCHGELLY
LEVEN
MARKINCH
METHIL
ELIE
ST MONANS
PITTENWEEM
ANSTRUTHER EASTER
ANSTRUTHER WESTER
DUNBAR
EAST LINTON
NORTH BERWICK
TAYPORT
NEWPORT-ON-TAY
Dundee Airport
Isle of May
FIRTH OF TAY
FIRTH OF FORTH
TENTSMUIR FOREST
PITMEDDEN FOREST
LOCH LEVEN
ST ANDREWS BAY
Eden Mouth
Cameron Reservoir
Clatto Reservoir
Glenfarg Reservoir
Carr Brigs
Tullybothy Craigs
NIFE NESS
Kinkell Ness
Buddo Ness
Dabbet Ness
Cambo Ness
West Ness
Ruddons Point
Isle of May
A90
A92
A91
A915
A914
A913
A912
A911
M90
M9
M8
M876
A823
A985
A977
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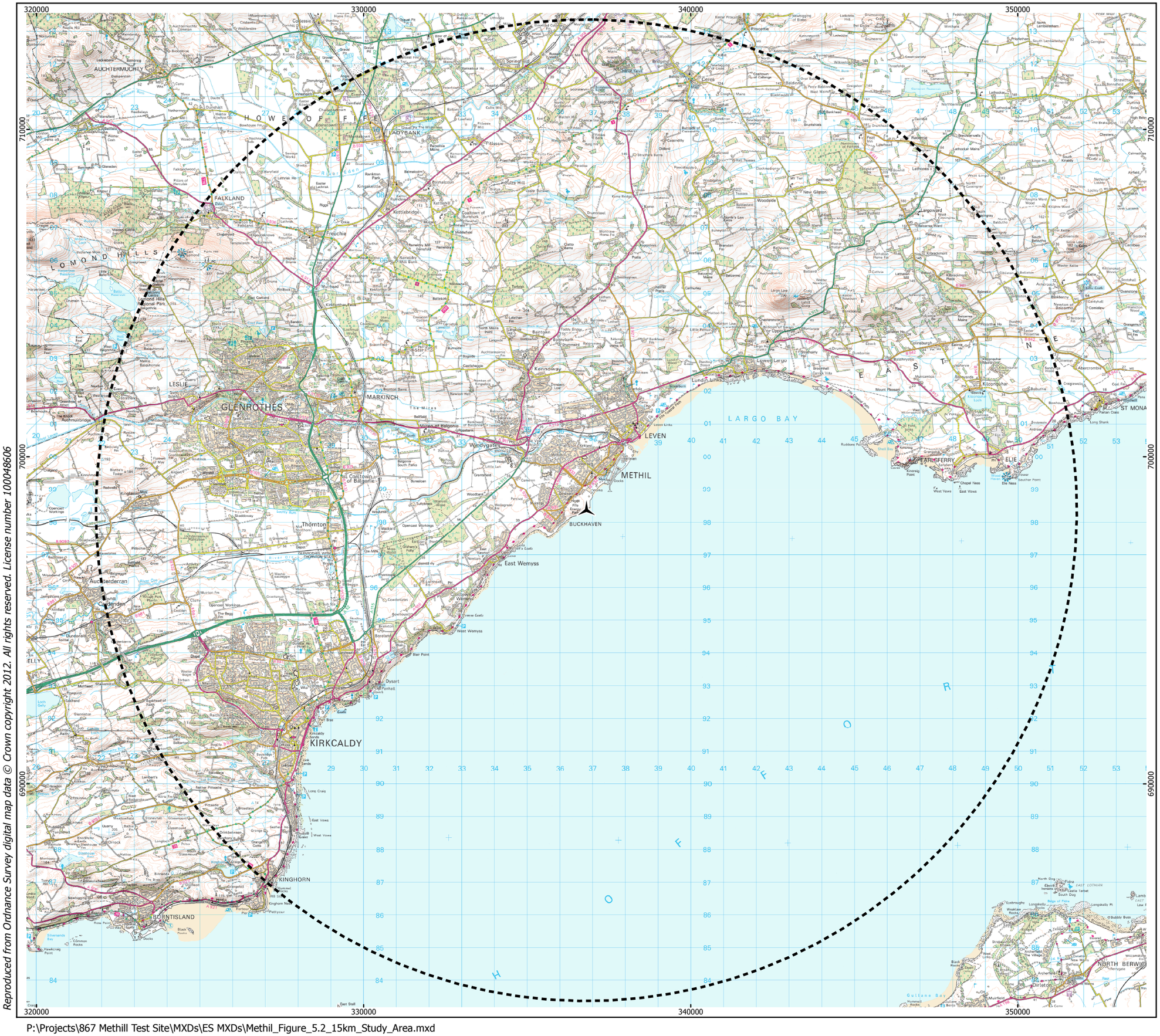

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Scottish Enterprise

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Proposed Turbine Location

15km Study Area

1:110,000 Scale @ A3

0 2.5 5 km

N

Produced: LHu
Reviewed: SC
Approved: JH

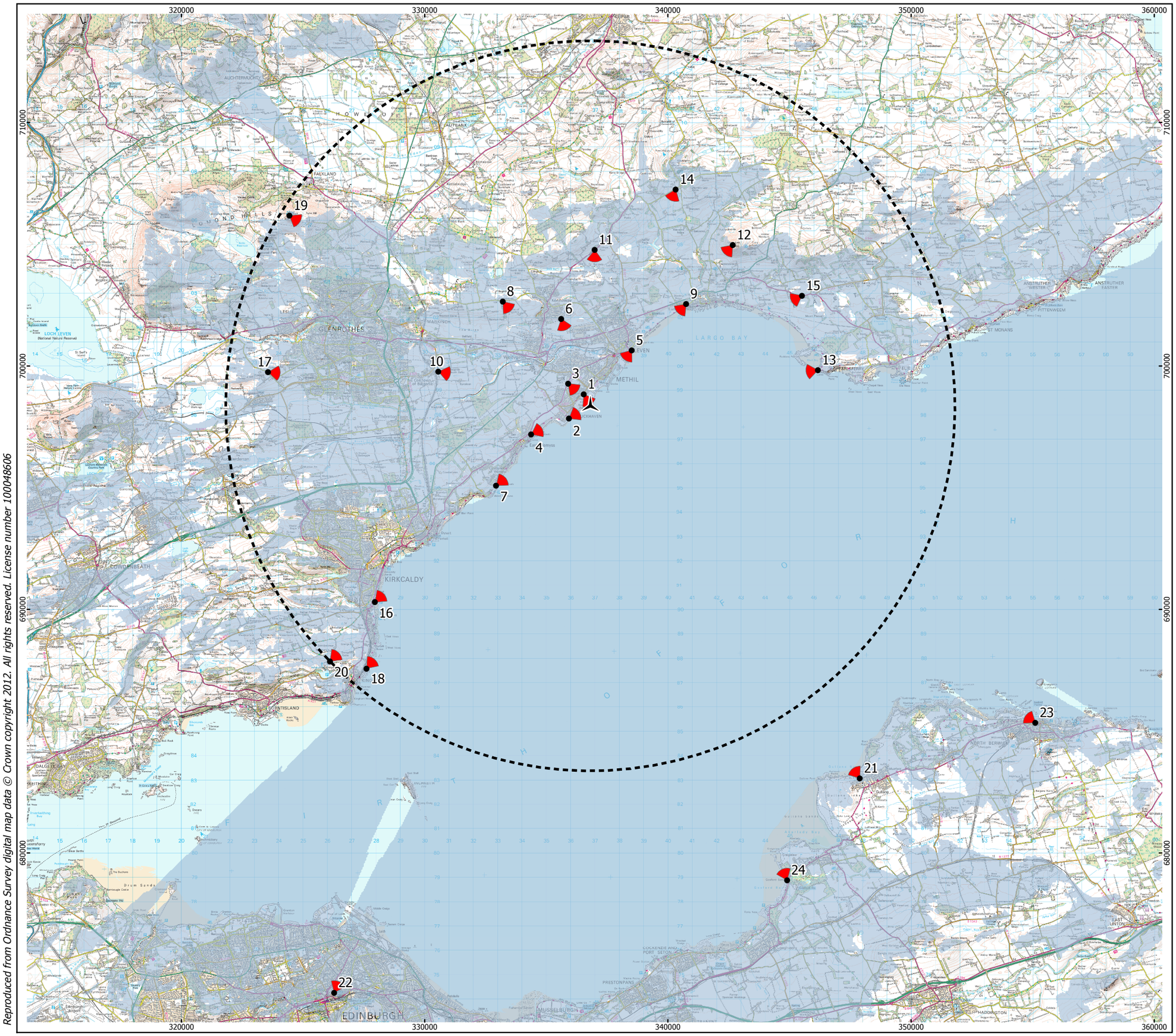
Ref: 867/ES/016 | Revision: A

Date: 23/07/2012

15km Study Area
Figure 5.2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.2_15km_Study_Area.mxd



Scottish Enterprise

arcus

- Proposed Turbine Location
- 15km Study Area
- Theoretical Visibility
- Viewpoint Location

1	336546	698829
2	335933	697836
3	335901	699281
4	334387	697192
5	338521	700655
6	335618	701941
7	332945	695079
8	333214	702644
9	340759	702543
10	330570	699768
11	336994	704771
12	342674	704970
13	346176	699827
14	340324	707256
15	345522	702896
16	327955	690297
17	323564	699742
18	327614	687573
19	324446	706174
20	326111	687867
21	347899	683064
22	326281	674253
23	355116	685343
24	344908	678873

1:150,000 Scale @ A3

0 2.5 5 km

N

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Reviewed: SC
Approved: JH

Ref: 867/ES/017 | Revision: A

Date: 23/07/2012

15km Study Area with Viewpoints
Figure 5.3

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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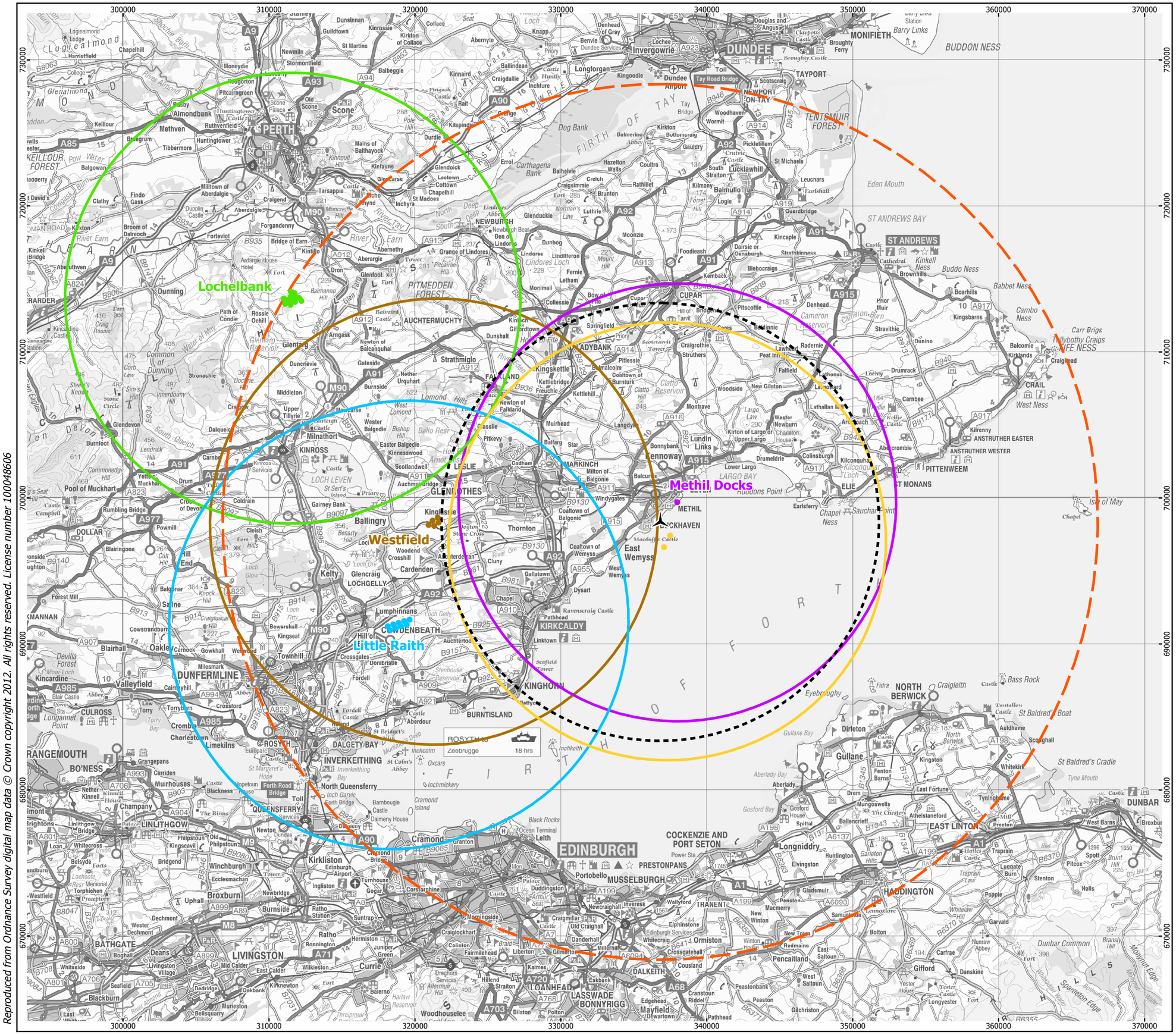
P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.3_15km_Study_Area_With_Viewpoints_v3.mxd



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Scottish Enterprise

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- Proposed Turbine Location
- 15km Study Area - Proposed Site
- 30km Study Area - Proposed Site
- 15km Study Area - Westfield
- 15km Study Area - Methil Docks
- 15km Study Area - Lochelbank
- 15km Study Area - Little Raith
- 15km Study Area - 2-B Energy Proposed Development

1:250,000 Scale @ A3

0 5 10 km

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/018 | Revision: A

Date: 23/07/2012

Cumulative Study Area
Figure 5.4

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.4_Cumulative_Study_Area.mxd

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320000 330000 340000 350000

710000 700000 690000

19 11 12 9 6 17 10 13 7 20 21

5km 10km 15km

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- Proposed Turbine Location
- Methil Docks Turbine Location
- Cumulative Viewpoint Location
- Proposed Turbine Theoretically Visible
- Methil Docks Turbine Theoretically Visible
- Proposed and Methil Docks Turbine Theoretically Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

Produced: LHu
Reviewed: SC
Approved: JH

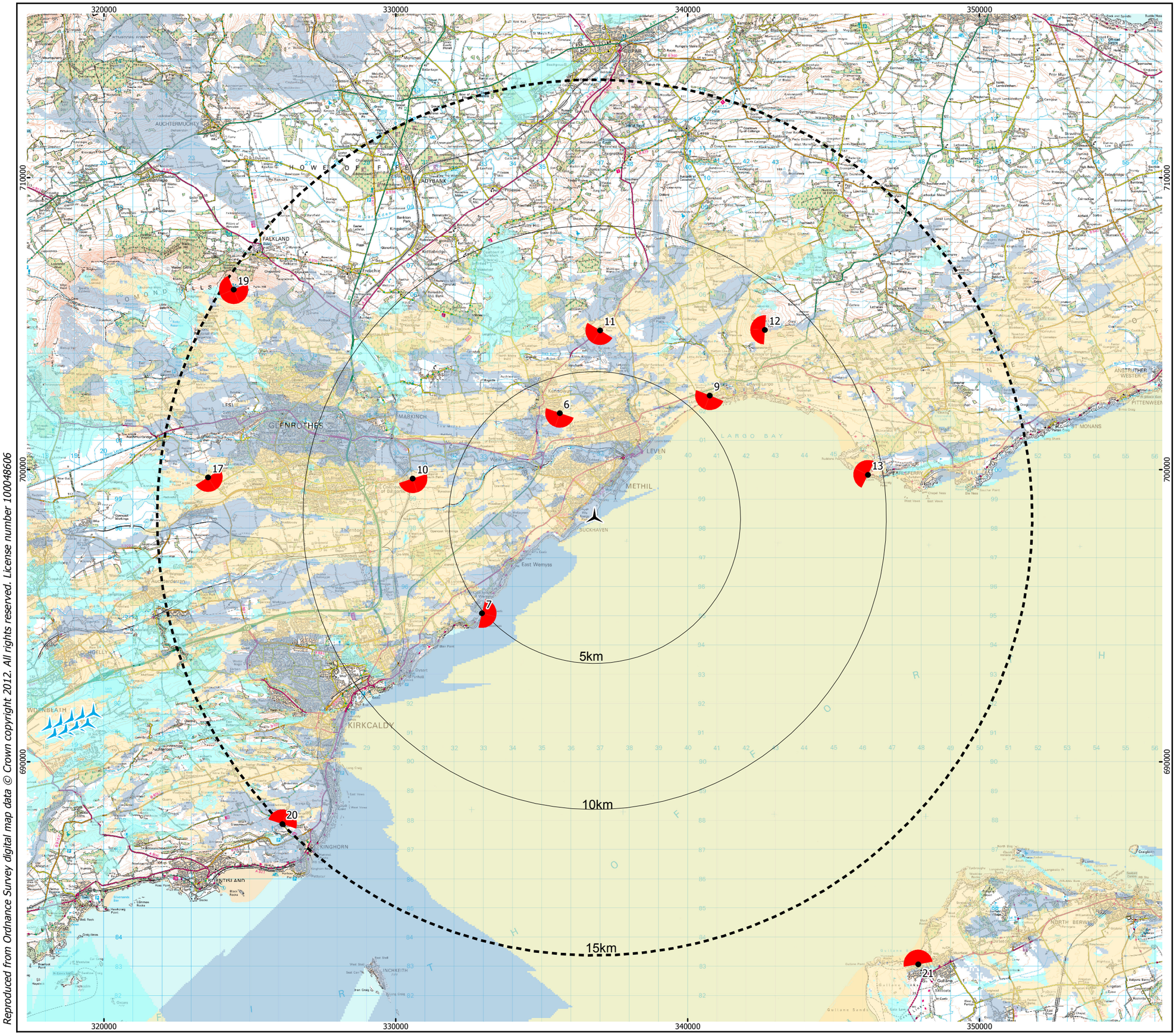
Ref: 867/ES/032 | Revision: A

Date: 27/04/2012

Cumulative ZTV to Blade tip Methil and Methil Docks
Figure 5.5a

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.5a_Cumulative_ZTV_with_Methil_Docks.mxd



Scottish Enterprise

arcus

- Proposed Turbine Location
- Little Raith
- Cumulative Viewpoint Location
- Proposed Turbine Theoretically Visible
- Little Raith Turbine Theoretically Visible
- Proposed and Little Raith Turbine Theoretically Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/033 | Revision: A

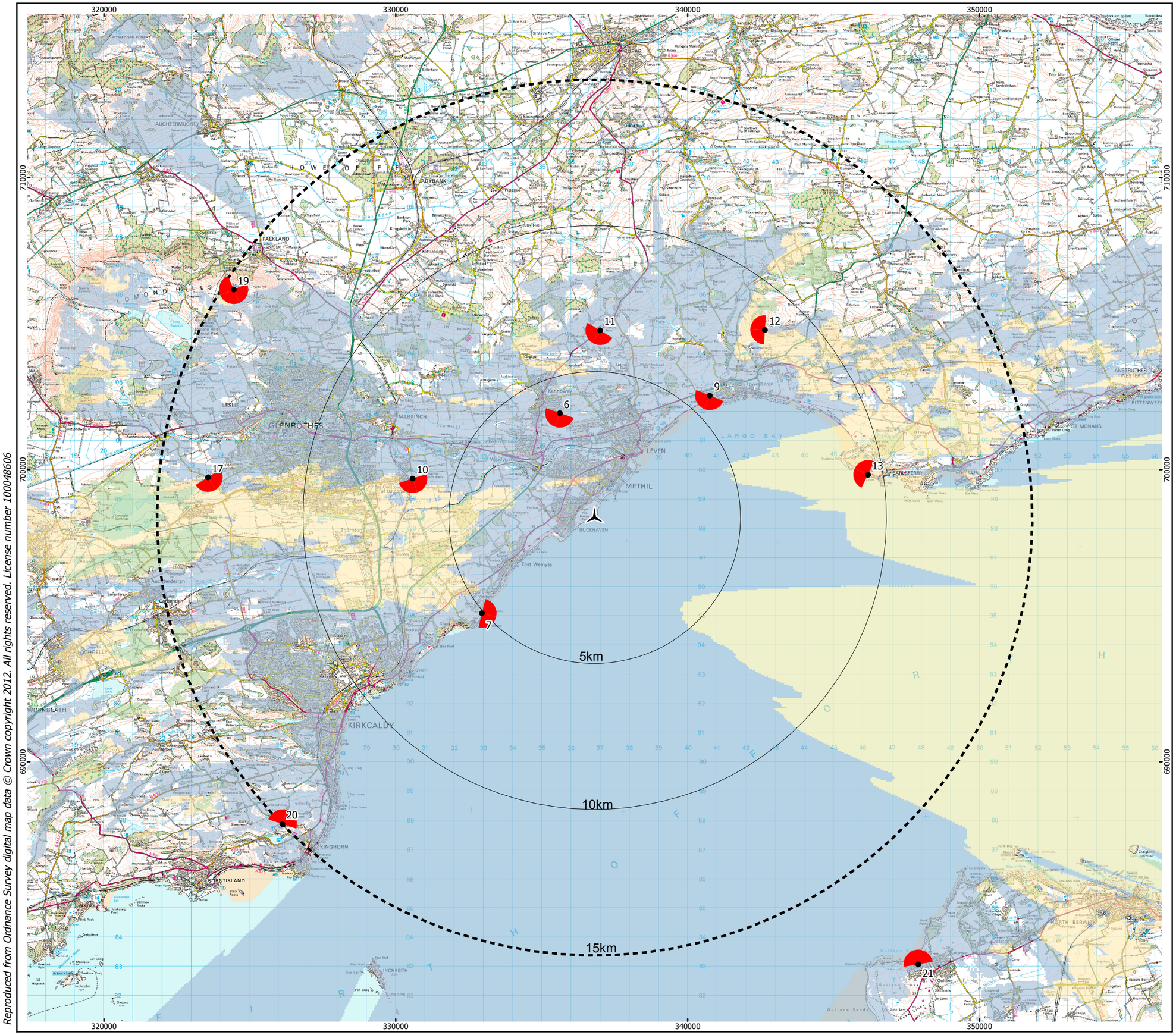
Date: 27/04/2012

Cumulative ZTV to Blade tip Methil and Little Raith

Figure 5.5b

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.5b_Cumulative_ZTV_with_LittleRaith.mxd



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- Proposed Turbine Location
- Cumulative Viewpoint Location
- Proposed Turbine Theoretically Visible
- Lochelbank Turbine Theoretically Visible
- Proposed and Lochelbank Turbines Theoretically Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/034 | Revision: A

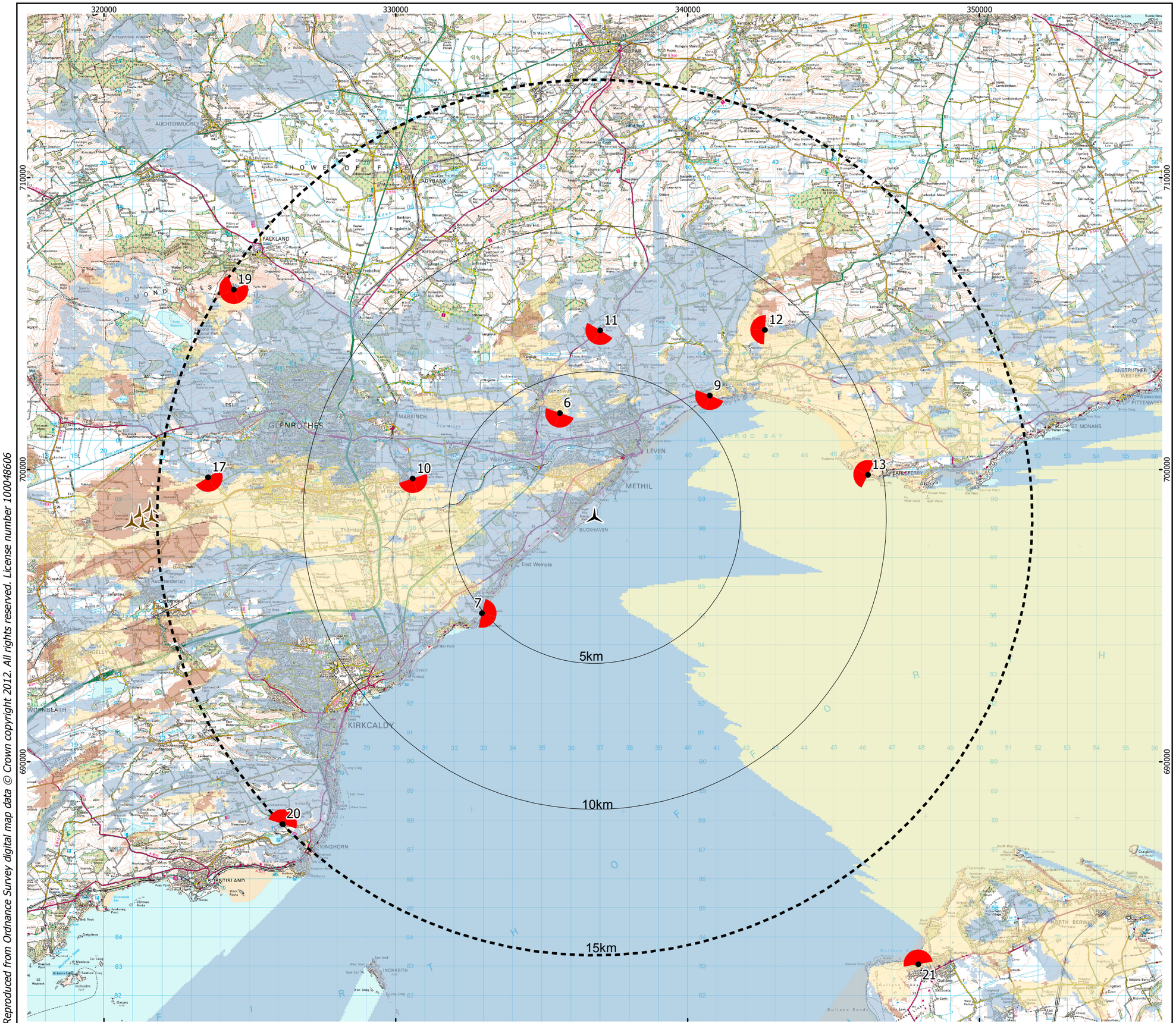
Date: 27/04/2012

Cumulative ZTV to Blade tip Methil and Lochelbank

Figure 5.5c

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.5c_Cumulative_ZTV_with_Lochelbank.mxd



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arcus

- Proposed Turbine Location
- Cumulative Viewpoint Location
- Proposed Turbine Theoretically Visible
- Westfield Turbine Theoretically Visible
- Proposed and Westfield Turbine Theoretically Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

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Approved: JH

Ref: 867/ES/034 | Revision: A

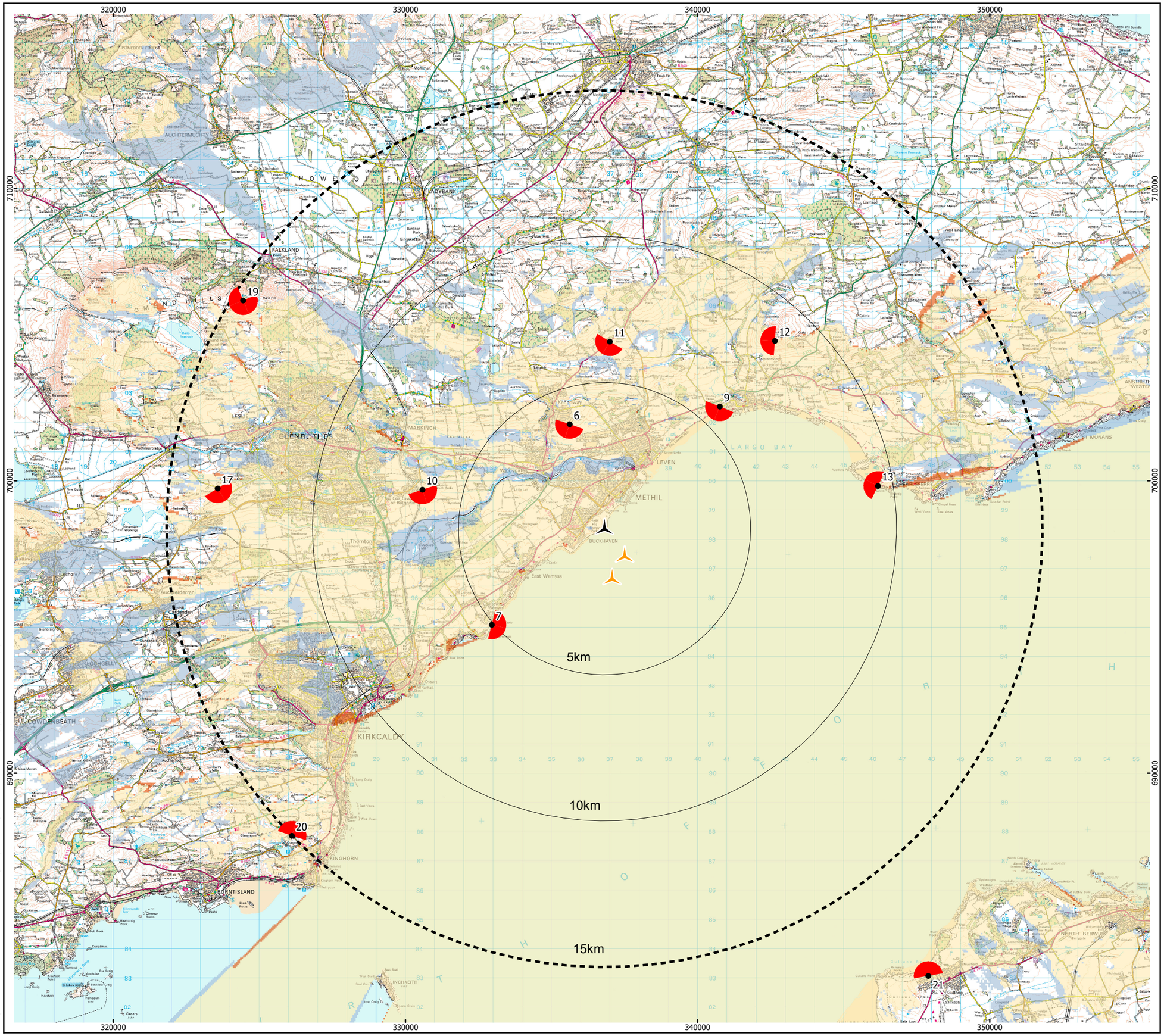
Date: 27/04/2012

Cumulative ZTV to Blade tip Methil and Westfield

Figure 5.5d

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.5d_Cumulative_ZTV_with_Westfield.mxd



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arcus

- Proposed Turbine Location
- 2-B Energy Proposed Development
- Cumulative Viewpoint Location
- Proposed Turbine Theoretically Visible
- 2-B Energy Proposed Turbines Theoretically Visible
- Methil Proposed and 2-B Energy Proposed Turbines Theoretically Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

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Approved: JH

Ref: 867/ES/040 | Revision: A

Date: 27/04/2012

Cumulative ZTV to Blade tip Methil and 2-B Energy Proposed Development Figure 5.5e

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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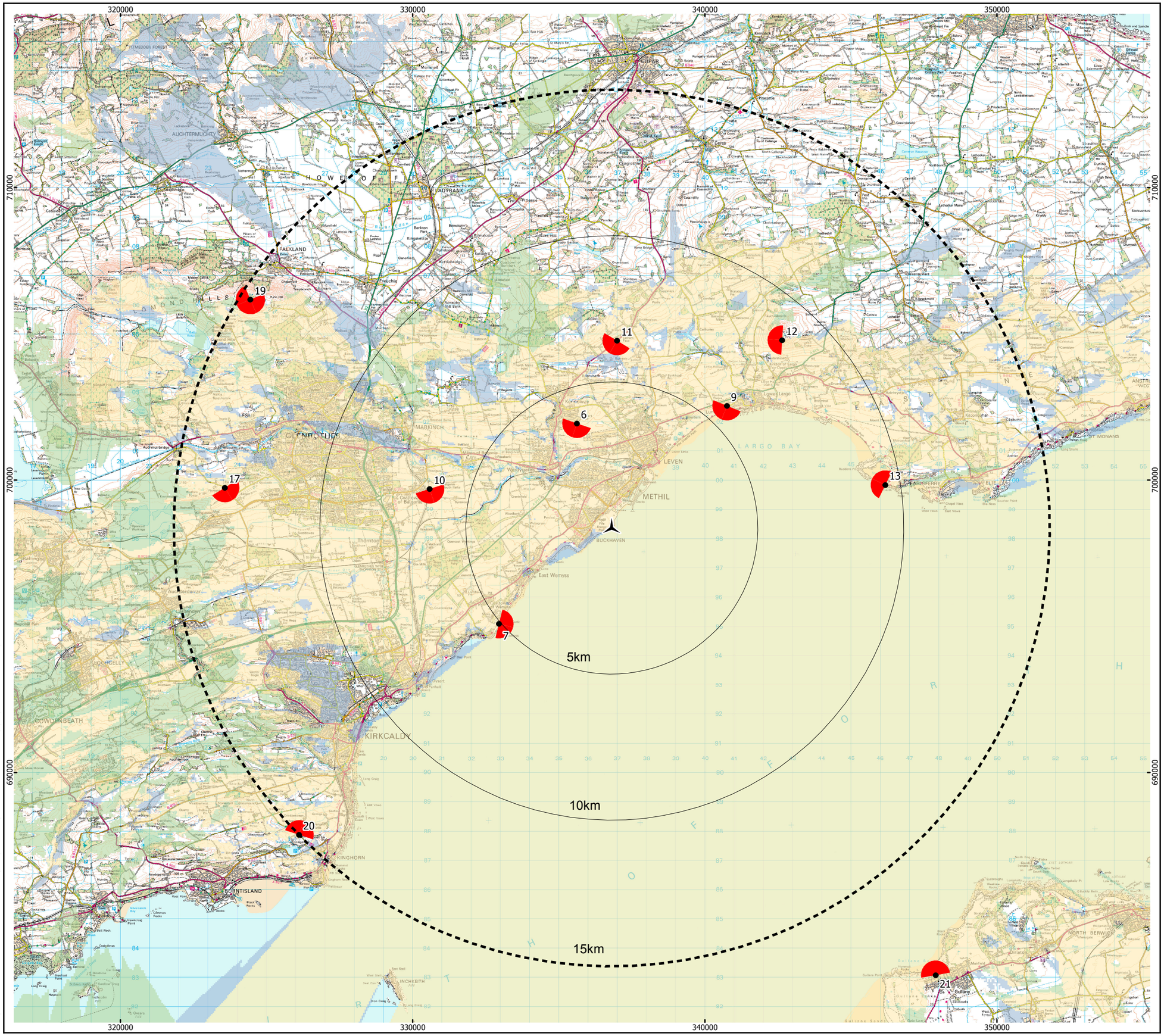

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- Proposed Turbine Location
- Cumulative Viewpoint Location
- Proposed Turbine Theoretically Visible
- Operational/ Consented Turbine Theoretically Visible
- Proposed and Operational/ Consented Turbine Theoretically Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

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Date: 27/04/2012

Cumulative ZTV to Blade tip, Methil and Operational/Consented Sites
Figure 5.5f

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.5f_Cumulative_ZTV_with_LittleRaith_Methil_Lochelbank.mxd

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710000 700000 690000

19 11 12 9 6 17 10 13 7 20 21

5km 10km 15km

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- Proposed Turbine Location
- Cumulative Viewpoint Location
- Proposed Turbine Theoretically Visible
- Operational/ Consented Turbine Theoretically Visible
- Proposed and Cumulative Turbine Theoretically Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

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Reviewed: SC
Approved: JH

Ref: 867/ES/036 | Revision: A

Date: 27/04/2012

Cumulative ZTV to Blade tip All Sites

Figure 5.5g

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.5g_Cumulative_ZTV_with_AllSites2.mxd



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- Proposed Turbine Location
- A911
- A912
- A914
- A915
- A916
- A917
- A92
- A921
- A955
- 5km Radius of Site
- 10km Radius of Site
- 15km Radius of Site
- Settlement

1:125,000 Scale @ A3

0 2.5 5 km

N

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Reviewed: SC
Approved: JH

Ref: 867/ES/001 | Revision: A

Date: 12/04/2012

Settlements and Roads
Figure 5.6

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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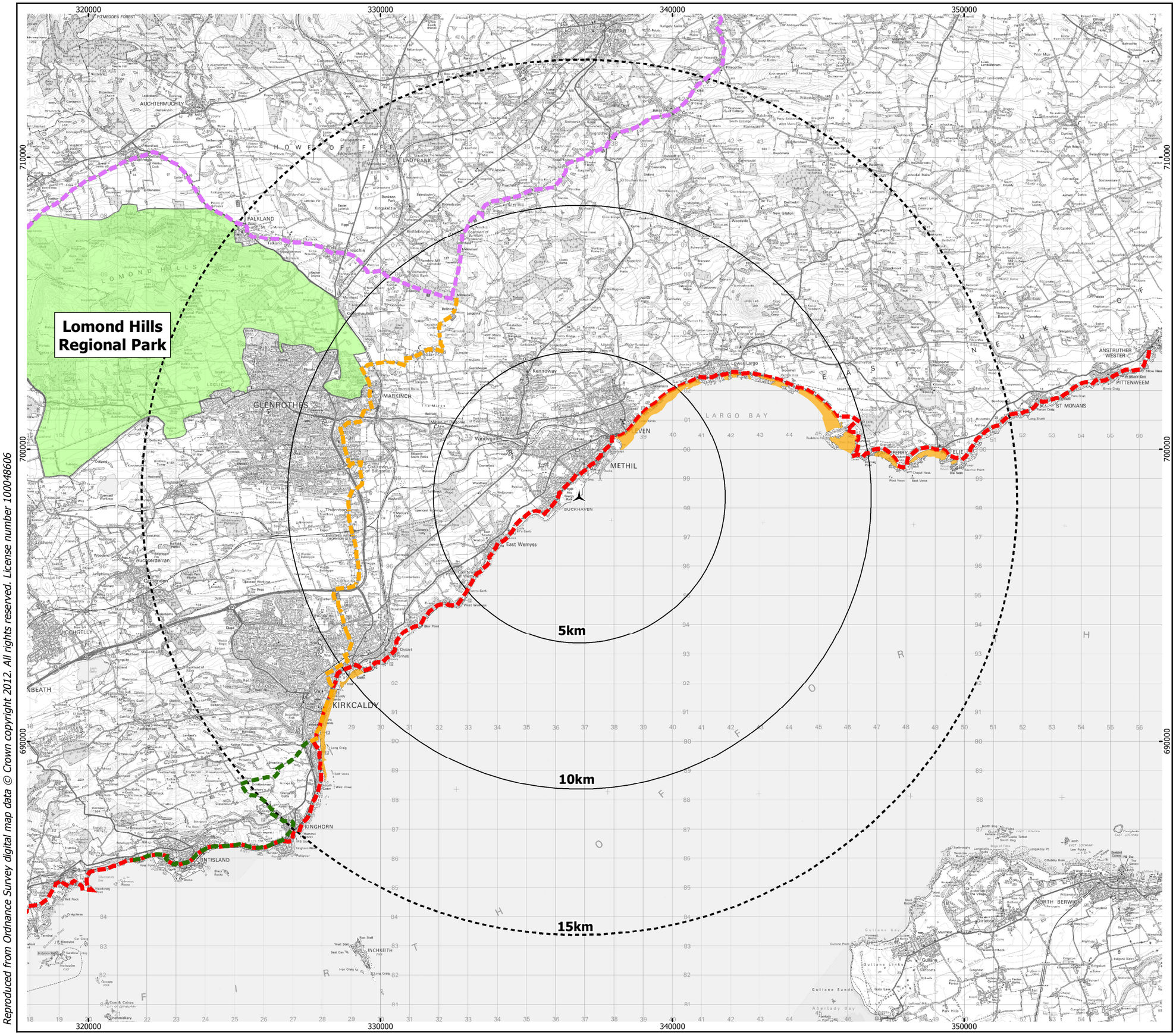

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- Proposed Turbine Location
- Fife Coastal Path
- National Cycle Route 1
- National Cycle Route 63
- Regional Cycle Route 76
- Regional Park
- Beach

1:125,000 Scale @ A3

0 2.5 5 km

N

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Approved: JH

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Date: 12/04/2012

Routes and Attractions
Figure 5.7

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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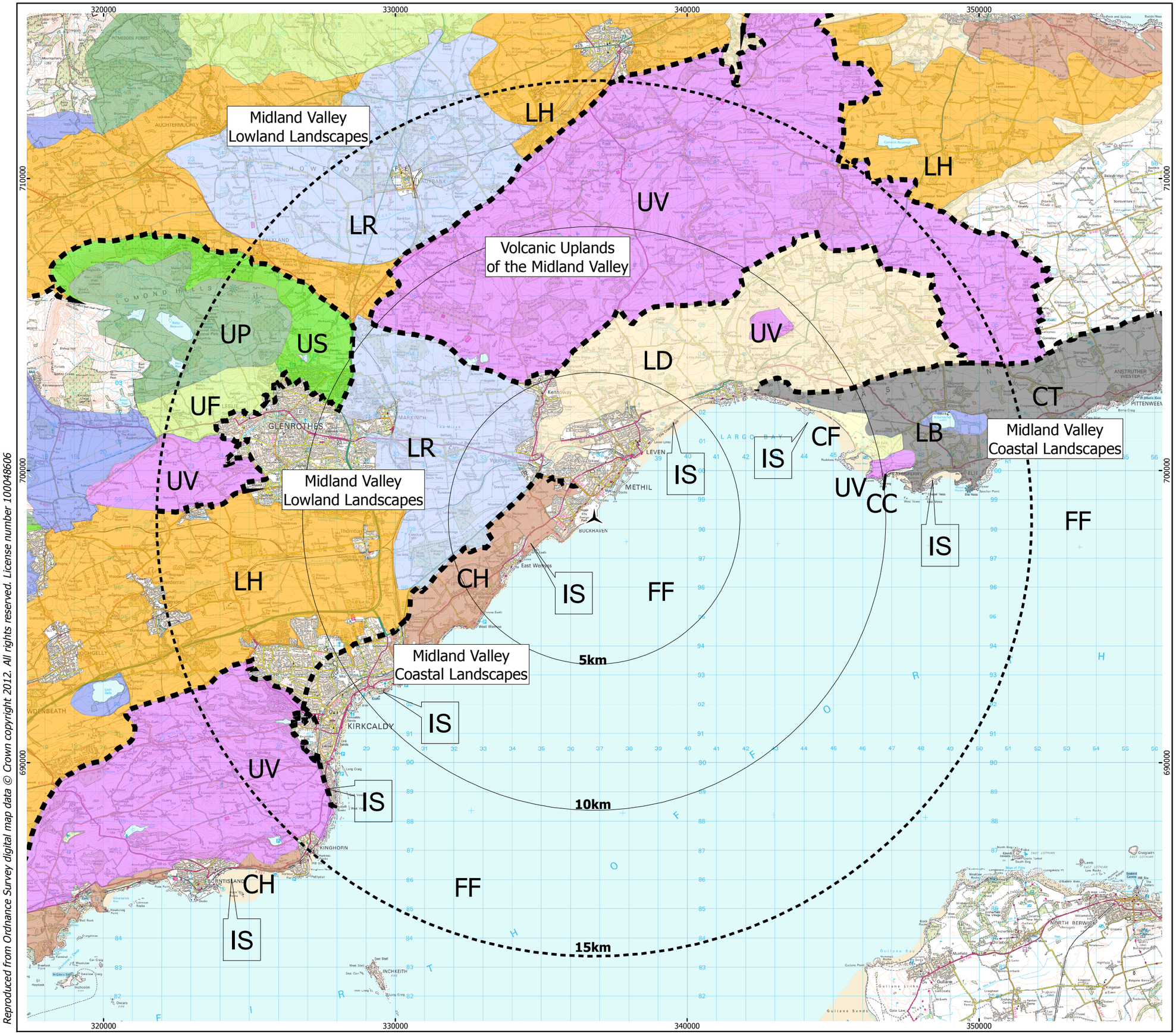

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arcus

- Proposed Turbine Location
- Regional Character Area Boundary
- UP The Uplands
- US Upland Slopes
- UF Upland Foothills
- UV Pronounced Volcanic Hills and Craigs
- LH Lowland Hills and Valleys
- LD Lowland Dens
- LR Lowland River Basin
- LB Lowland Loch Basin
- CH Coastal Hills
- CT Coastal Terraces
- CF Coastal Flats
- CC Coastal Cliffs
- IS Intertidal Shores
- FF Firth of Forth

1:125,000 Scale @ A3

0 2.5 5 km

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 886/ES/003 | Revision: A

Date: 23/07/2012

Landscape Character Types
Figure 5.8

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.8_LandscapeCharacterTypes.mxd



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- Proposed Turbine Location
- Inventory Garden and Designed Landscape
- Local Landscape Area

1:125,000 Scale @ A3

0 2.5 5 km

N

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Reviewed: SC
Approved: JH

Ref: 867/ES/004 | Revision: A

Date: 27/03/2012

Landscape Planning Designations
Figure 5.9

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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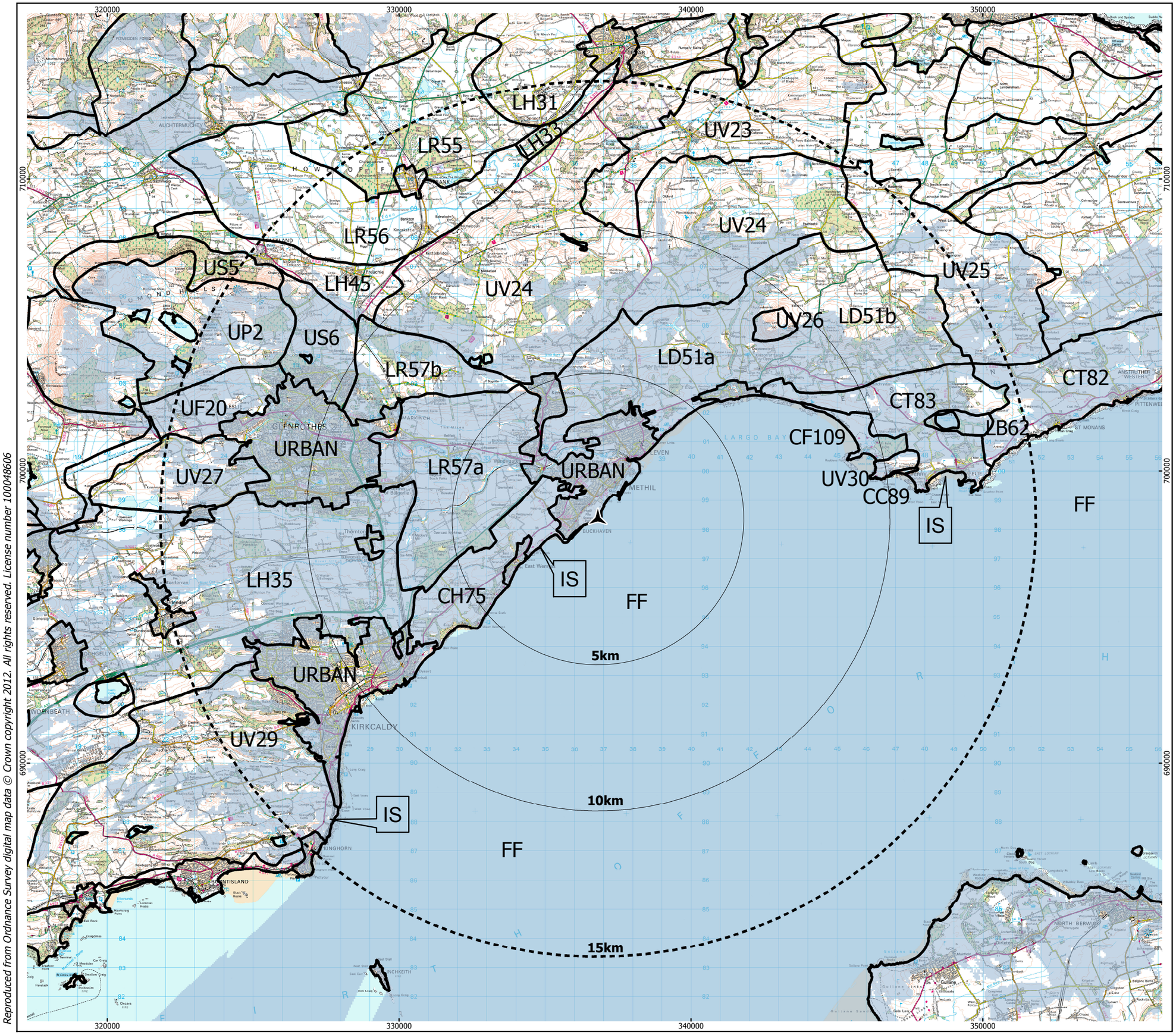

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- Proposed Turbine Location
- Landscape Character Area
- Turbine Visible
- UP The Uplands
- US Upland Slopes
- UF Upland Foothills
- UV Pronounced Volcanic Hills and Craigs
- LH Lowland Hills and Valleys
- LD Lowland Dens
- LR Lowland River Basin
- LB Lowland Loch Basin
- CH Coastal Hills
- CT Coastal Terraces
- CF Coastal Flats
- CC Coastal Cliffs
- IS Intertidal Shores
- FF Firth of Forth

1:125,000 Scale @ A3

N

0 2.5 5 km

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Date: 27/03/2012

ZTV with Landscape Character Types
Figure 5.10

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.10_ZTVwithLandscapeCharacterTypes.mxd

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Melville House
Hill of Tarvit
Tarvit and Ceres
Falkland Palace
Largo Law
Balcaskie
Balcarres
Lomond Hills
Lahill
Charleton
Balbirnie
Lentham Glen
Leslie House
East Neuk
Wemyss
Wemyss Castle
Raith House &
Beveridge Park
5km
Dysart House and
Ravenscraig Park
Cullaloe Hills
and Coast
10km
15km

320000 330000 340000 350000
710000 700000 690000

Scottish Enterprise

arcus

- Proposed Turbine Location
- Turbine Visible
- Inventory Garden and Designed Landscape
- Local Landscape Area

1:125,000 Scale @ A3

0 2.5 5 km

N

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Reviewed: SC
Approved: JH

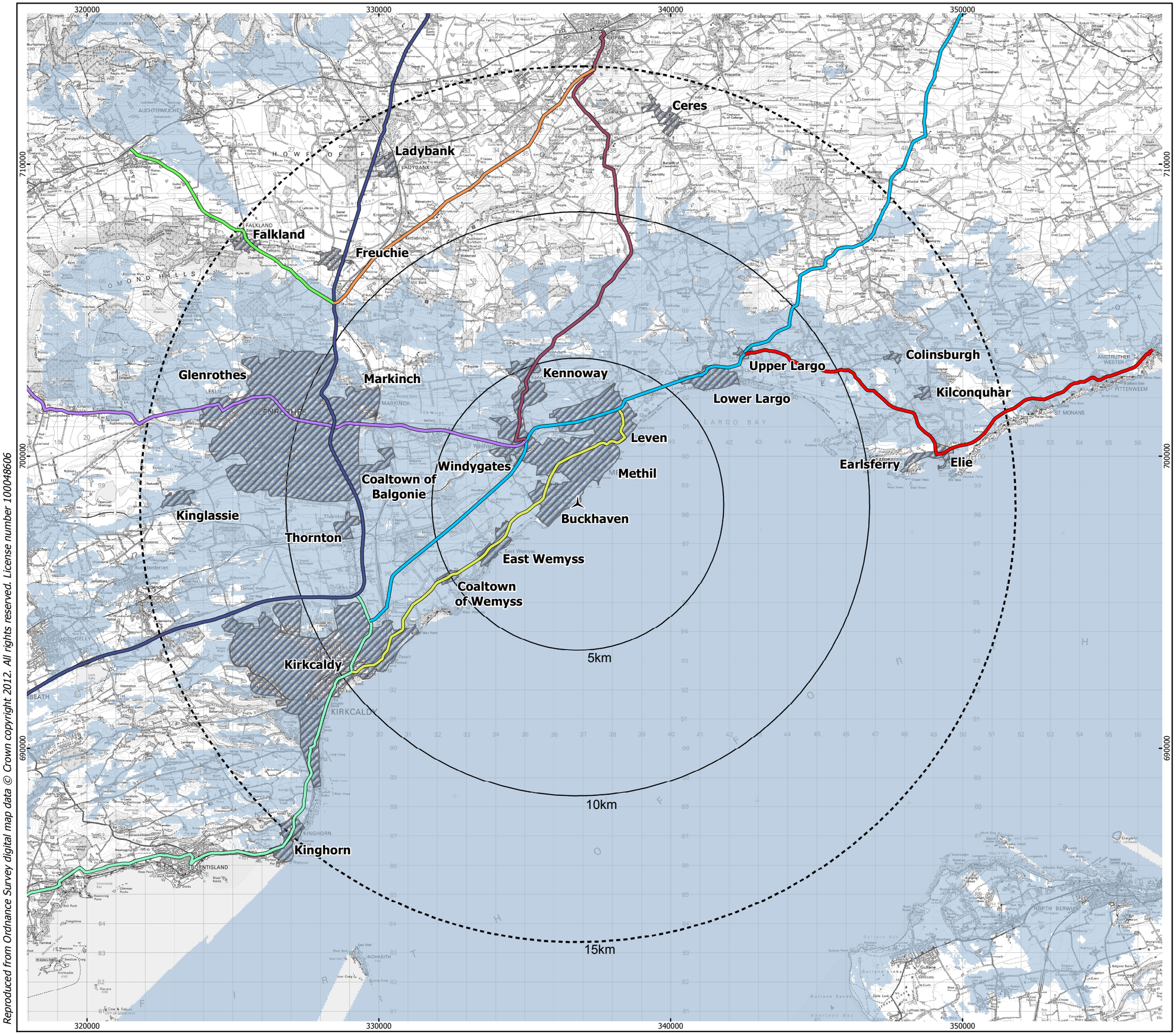
Ref: 867/ES/006 | Revision: A

Date: 28/03/2012

ZTV with Landscape Planning Designations
Figure 5.11

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.11_ZTVwithLandscapePlanningDesignations.mxd



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- Proposed Turbine Location
- A911
- A912
- A914
- A915
- A916
- A917
- A92
- A921
- A955
- 5km Radius of Site
- 10km Radius of Site
- 15km Radius of Site
- Settlement
- Turbine Visible

1:125,000 Scale @ A3

0 2.5 5 km

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/001 | Revision: A

Date: 28/03/2012

ZTV with Settlements and Roads
Figure 5.12

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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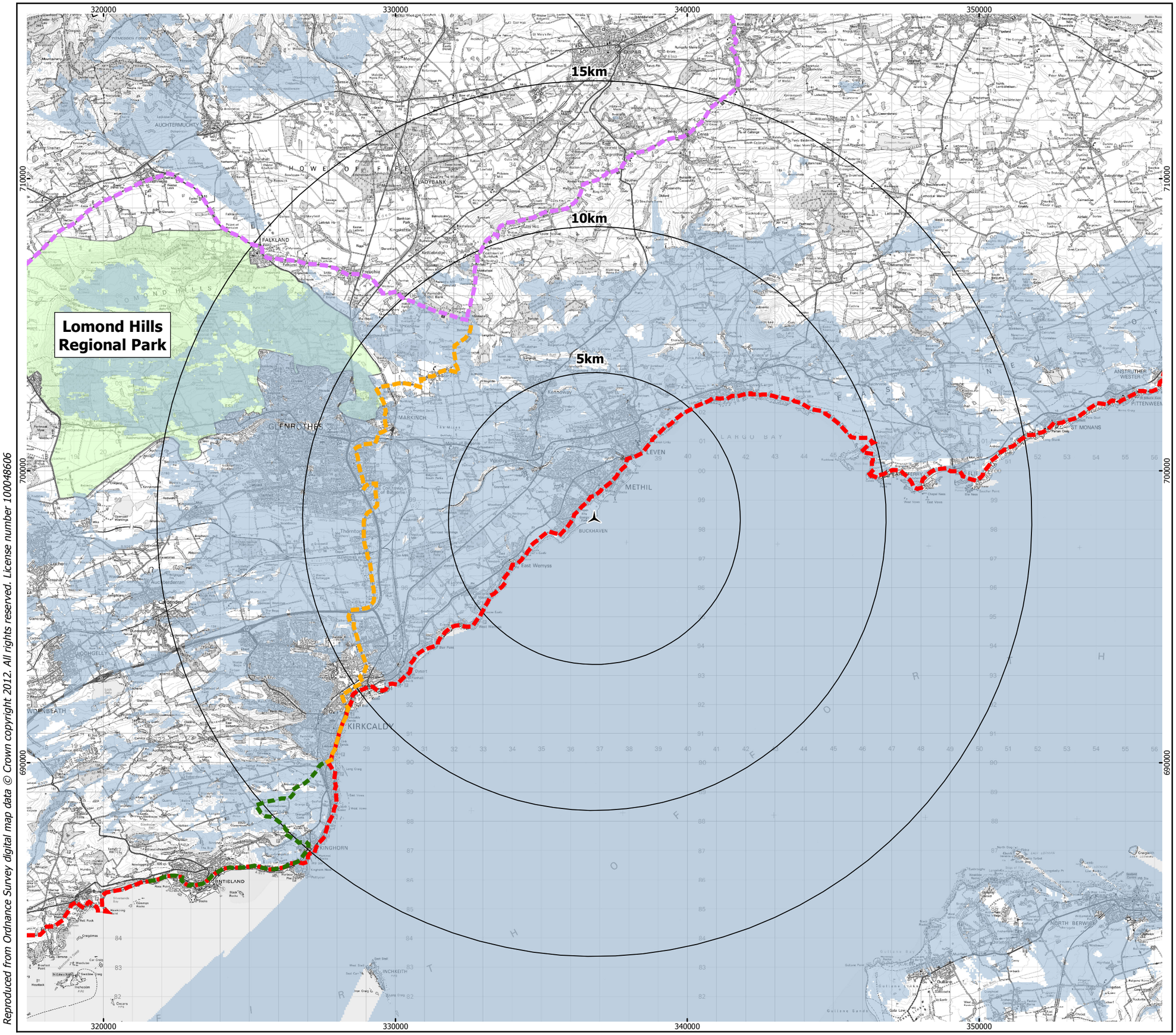

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- Proposed Turbine Location
- Fife Coastal Path
- National Cycle Route 1
- National Cycle Route 63
- Regional Cycle Route 76
- Turbine Visible
- Regional Park

1:125,000 Scale @ A3

0 2.5 5 km

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/007 | Revision: A

Date: 12/04/2012

ZTV with Routes and Attractions
Figure 5.13

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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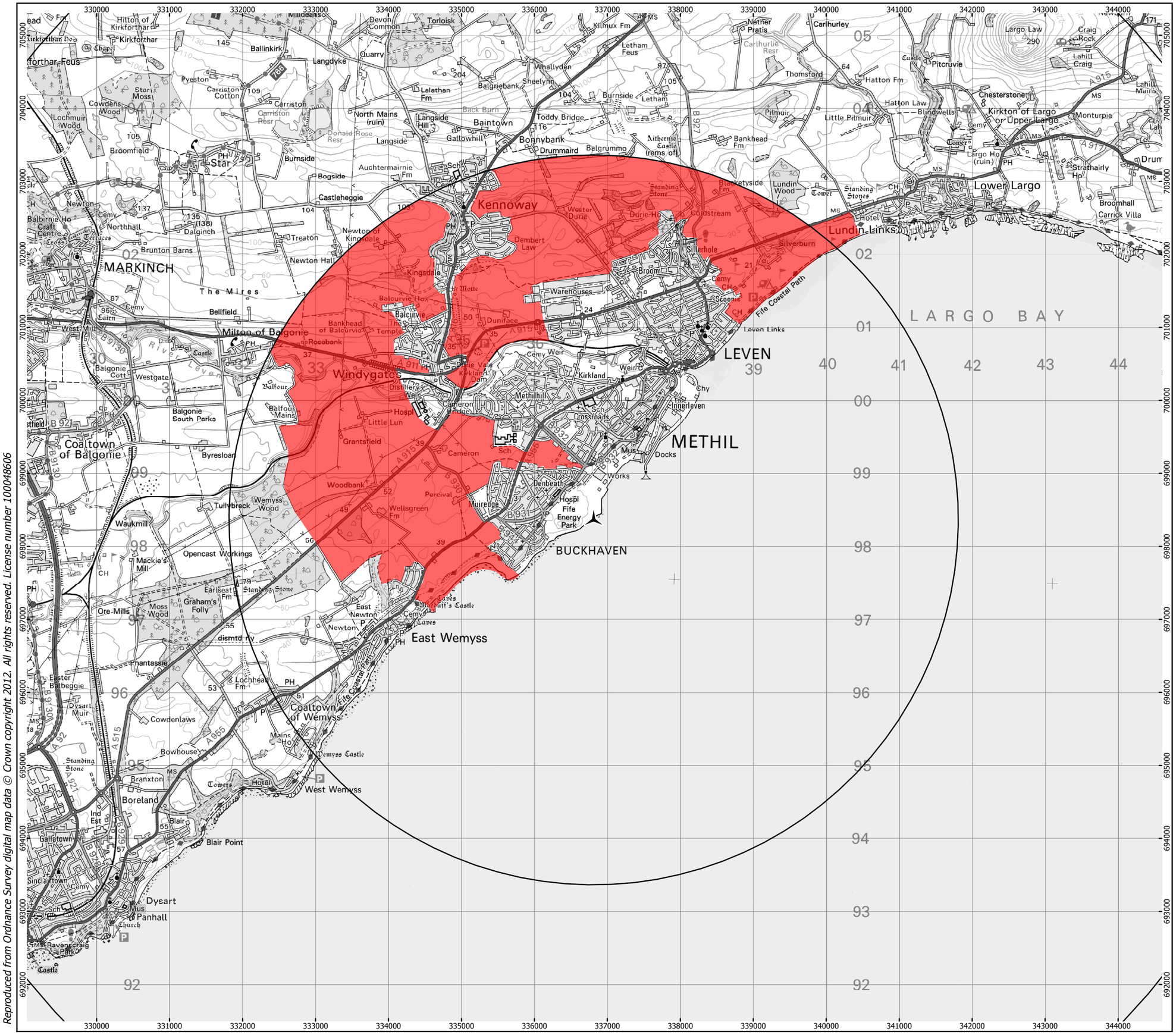
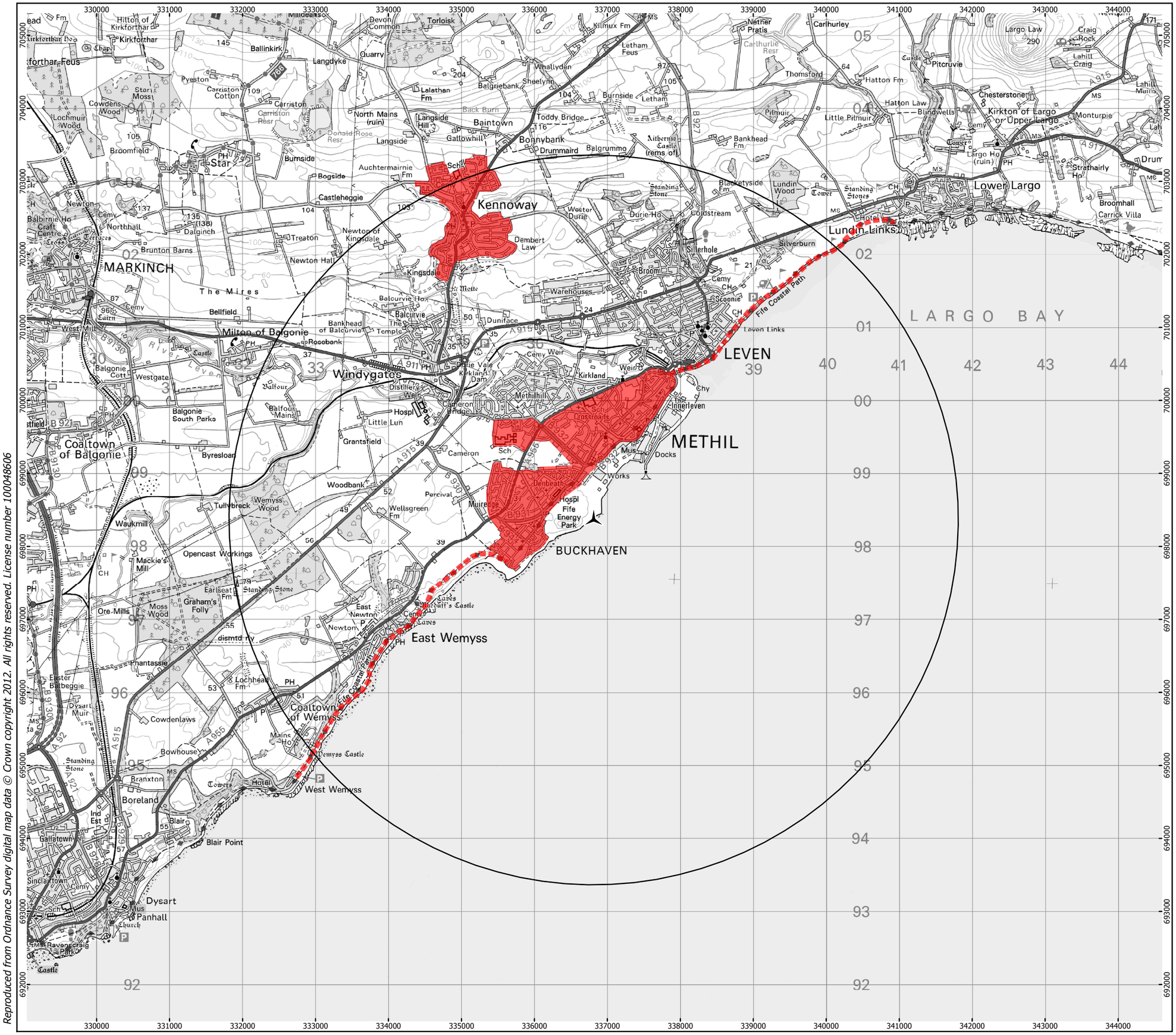

Kennoway
Lundin Links
Lower Largo
LEVEN
METHIL
LARGO BAY
Windygates
MARKINCH
Coaltown of Balgonie
Milton of Balgonie
BUCKHAVEN
East Wemyss
Coaltown of Wemyss
West Wemyss
Dysart
Fife Coastal Path
Fife Energy Park
Kirkton of Largo or Upper Largo
Largo Law
Largo Ho (ruin)
Lundin Wood
Pitcruvie
Hatton Fm
Bankhead Fm
Pitmuir
Little Pitmuir
Bonnybank
Drummaird
Balgrummo
Aithernie Castle (rems of)
Durie Ho
Coldstream
Blacketyside Fm
Standing Stone
Standing Stones
Silverburn
Sillerhole
Broom
Scoonie
Leven Links
Warehouses
Methilhill
Innerleven
Crosshaills
Docks
Works
Denbeath
Muiredge
Percival
Cameron Bridge
Distillery
Balfour
Balfour Mains
Balgonie South Parks
Balgonie Cott
Westgate
Byresloan
Grantsfield
Little Lun
Woodbank
Wellsgreen Fm
Tullybreck
Wemyss Wood
Waukmill
Opencast Workings
Mackie's Mill
Earlseat Fm
Graham's Folly
Moss Wood
Ore-Mills
Phantassie
Easter Balbeggie
Dysart Muir
Cowdenlaws
Bowhouse
Branxton
Boreland
Ind Est
Gallatown
Sinclairtown
Panhall
Ravenscraig Park
Blair Point
Lochhead Fm
Mains Ho
Towers
Hotel
Cowdens Wood
Lochmuir Wood
Broomfield
Star
Auchtermairnie Fm
Castleheggie
Newton
Balbirnie Ho Craft Centre
Northhall
Brunton Barns
Treaton
Newton Hall
Dalginch
Bellfield
West Mill
The Mires
Balcurvie
Bankhead of Balcurvie
Roodbank
Dembert Law
Newton of Kingsdale
Kingsdale
Durie Vale
Kirkland
Weir
Cameron
Methilhill
Ballinkirk
Langdyke
Quarry
Devon Common
Torloisk
Hilton of Kirkforthar
Kirkforthar
Forthar Feus
Pyeston
Carriston Cotton
Carriston
Carriston Resr
Donald Rose Resr
Lalathan Fm
Langside
Langside Hill
Gallowhill
Baintown
Back Burn
Toddy Bridge
North Mains (ruin)
Balgriebank
Sheelynn
Whalyden
Letham Feus
Letham
Burnside
Kilmux Fm
Nether Pratis
Carhurlie
Carhurlie Resr
Thomsford
Hatton Law
Blindwells
Chesterstone
Craig Rock
Lahill Craig
Lahill Mains
Monturpie
Strathairly Ho
Broomhall
Carrick Villa
Lundin Tower
Lundin Links Hotel
Silverburn
Scoonie
Leven Links
Inverleven
Mus
Hospl
Fife Energy Park
Caves
Cave
Cemy
Sch
Chy
Weir
Mill
Castle
Tower
Ruin
Ho
Fm
Resr
Hotel
Towers
Mains Ho
Lochhead Fm
Wemyss Castle
Cave
Duniface
Dembert Law
Durie Ho
Coldstream
Standing Stone
Standing Stones
Blacketyside Fm
Lundin Wood
Largo Law
Craig Rock
Lahill Craig
Lahill Mains
Monturpie
Strathairly Ho
Broomhall
Carrick Villa
Largo Ho (ruin)
Kirkton of Largo or Upper Largo
Chesterstone
Hatton Law
Blindwells
Thomsford
Pitcruvie
Carhurlie
Carhurlie Resr
Nether Pratis
Kilmux Fm
Whalyden
Letham Feus
Letham
Burnside
Balgriebank
Sheelynn
Toddy Bridge
Baintown
Back Burn
Langside Hill
Gallowhill
Langside
Donald Rose Resr
Carriston Resr
Carriston
Carriston Cotton
Pyeston
Stor Moss
Cowdens Wood
Lochmuir Wood
Broomfield
Star
Auchtermairnie Fm
Castleheggie
Newton
Balbirnie Ho Craft Centre
Northhall
Brunton Barns
Treaton
Newton Hall
Dalginch
Bellfield
West Mill
The Mires
Balcurvie
Bankhead of Balcurvie
Roodbank
Dembert Law
Newton of Kingsdale
Kingsdale
Durie Vale
Kirkland
Weir
Cameron Bridge



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Proposed Turbine Location

Significant Effects on Visual Receptor

5km Radius of Site

It should be noted that the area shown as having significant effect is approximate and that a significant effect will only occur where a clear open and unobstructed view of the Development is available.

1:50,000 Scale @ A3

0 1 2 km

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/009 | Revision: A

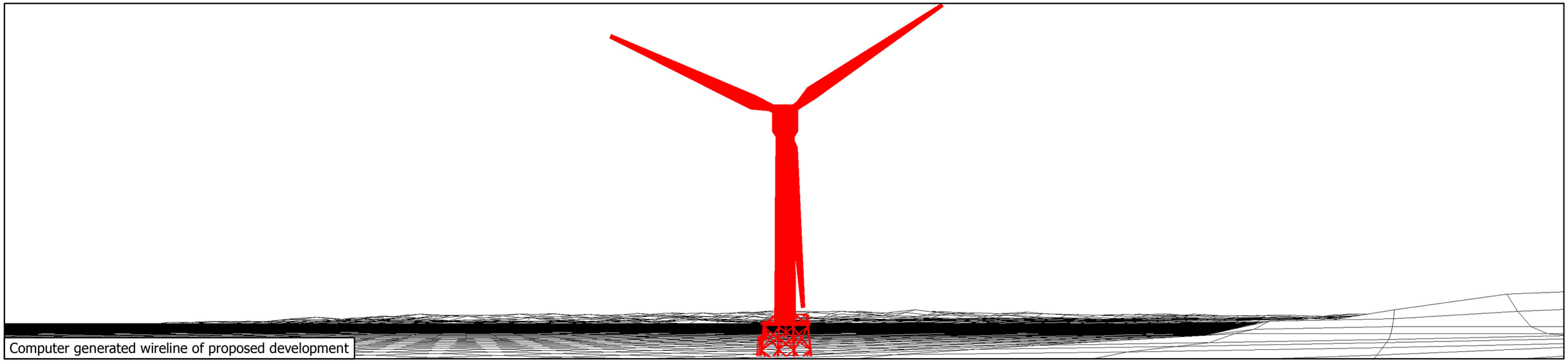
Date: 27/03/2012

Extent of Significant Effects on Landscape Character
Figure 5.14b

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_5.14b_SignificantEffectsonVisualReceptors.mxd



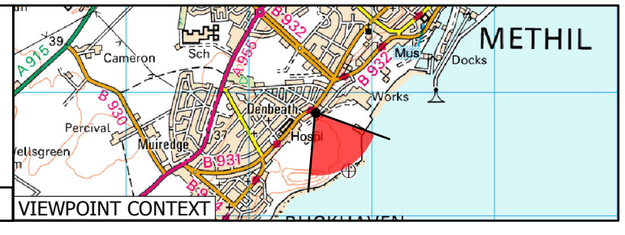


VP1 - B931 Fife Coastal Path, Buckhaven
Figure 5.15a1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	336546mE 698829mN
View Direction:	150.24 degrees
Camera Elevation:	28m AOD
Distance to Turbine:	538m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/100 Drawn: TC Reviewed: GC Approved: JH



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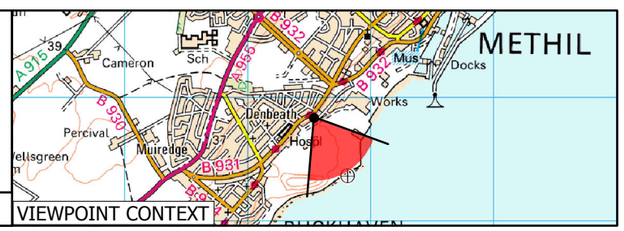
Photomontage showing proposed development from viewpoint

Viewpoint Location:	336546mE 698829mN
View Direction:	150.24 degrees
Camera Elevation:	28m AOD
Distance to Turbine:	538m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/101 Drawn: TC Reviewed: GC Approved: JH



VP1 - B931 Fife Coastal Path, Buckhaven
Figure 5.15a2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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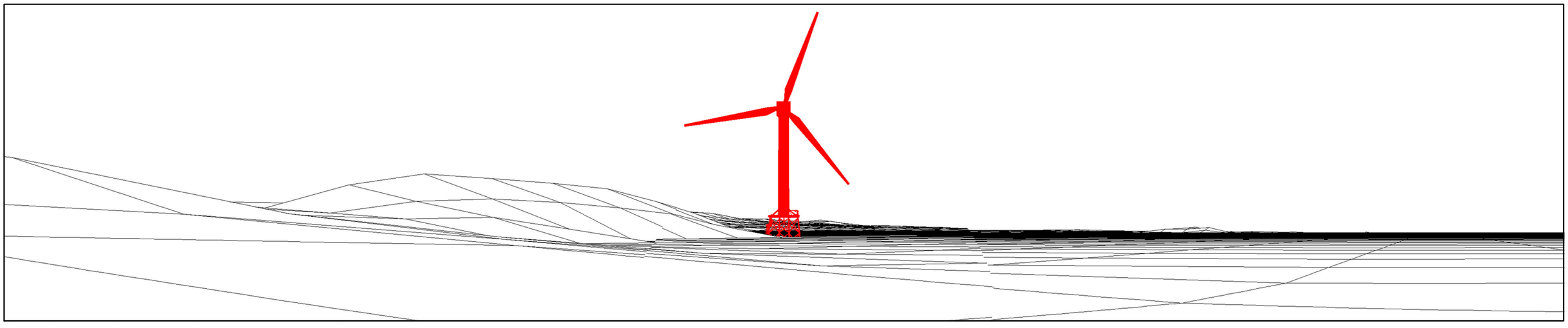
Existing view from viewpoint



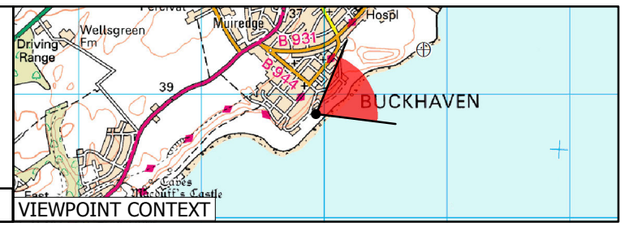
Computer generated wireline of proposed development

VP2 - Shore Street
Buckhaven
Figure 5.15b1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	335933mE 697836mN
View Direction:	59.13 degrees
Camera Elevation:	7m AOD
Distance to Turbine:	1025m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/102 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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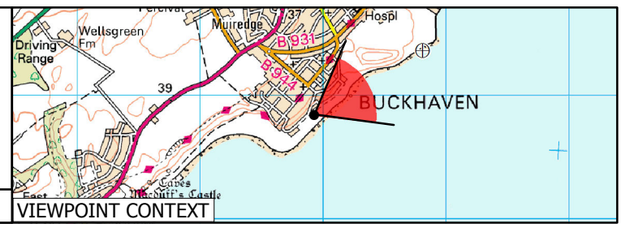
Viewpoint Location:	335933mE 697836mN		
View Direction:	59.13 degrees		
Camera Elevation:	7m AOD		
Distance to Turbine:	1025m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/103	Drawn: TC	Reviewed: GC	Approved: JH



VIEWPOINT CONTEXT

VP2 - Shore Street
Buckhaven
Figure 5.15b2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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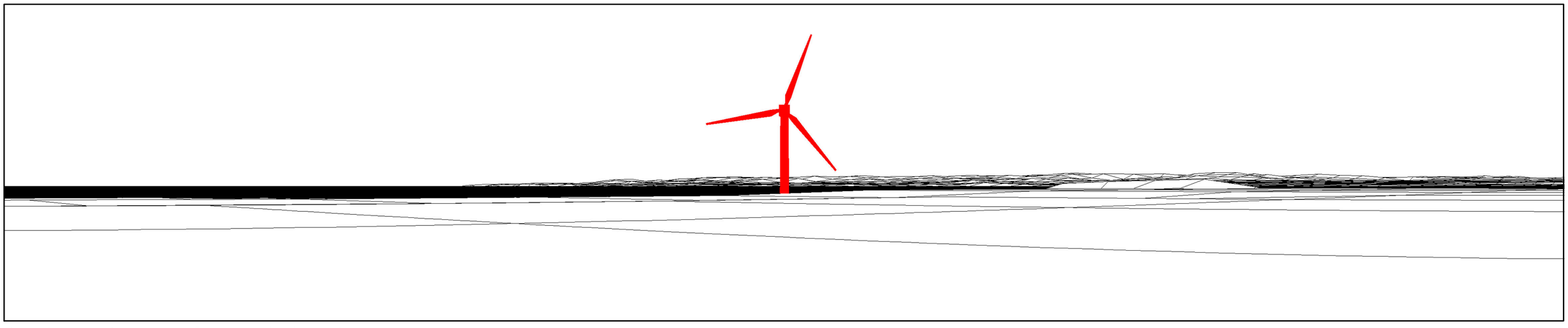
Existing view from viewpoint



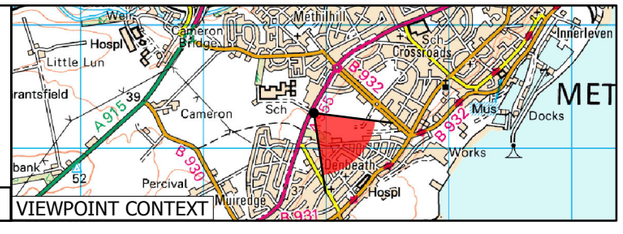
Computer generated wireline of proposed development

VP3 - A955, Buckhaven Methilhaven Road
Figure 5.15c1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	335901mE 699281mN
View Direction:	135.22 degrees
Camera Elevation:	35m AOD
Distance to Turbine:	1295m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/104 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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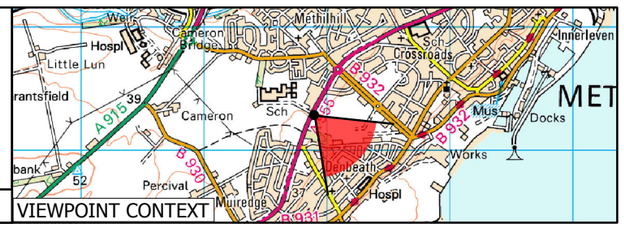
Viewpoint Location:	335901mE 699281mN		
View Direction:	135.22 degrees		
Camera Elevation:	35m AOD		
Distance to Turbine:	1295m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/105	Drawn: TC	Reviewed: GC	Approved: JH



VP3 - A955, Buckhaven Methilhaven Road
Figure 5.15c2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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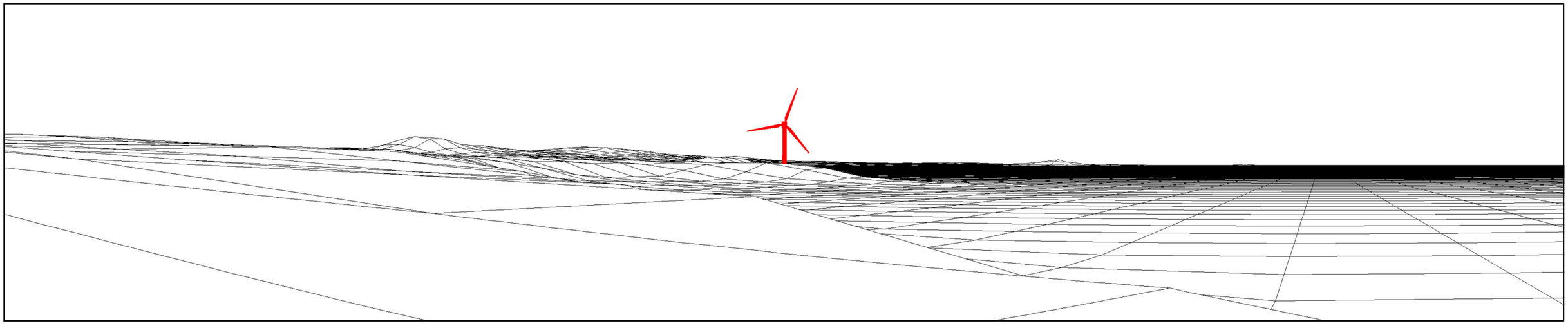
Existing view from viewpoint



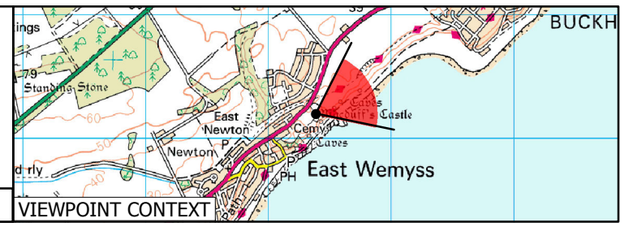
Computer generated wireline of proposed development

VP4 - Fife Coastal Path
East Wemyss
Figure 5.15d1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	334387mE 697192mN
View Direction:	64.25 degrees
Camera Elevation:	30m AOD
Distance to Turbine:	2693m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/106 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

Scottish Enterprise

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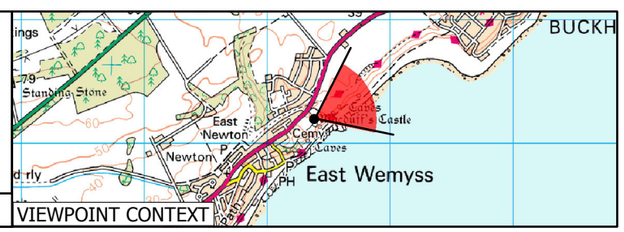
Viewpoint Location:	334387mE 697192mN		
View Direction:	64.25 degrees		
Camera Elevation:	30m AOD		
Distance to Turbine:	2693m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/107	Drawn: TC	Reviewed: GC	Approved: JH



VIEWPOINT CONTEXT

VP4 - Fife Coastal Path
East Wemyss
Figure 5.15d2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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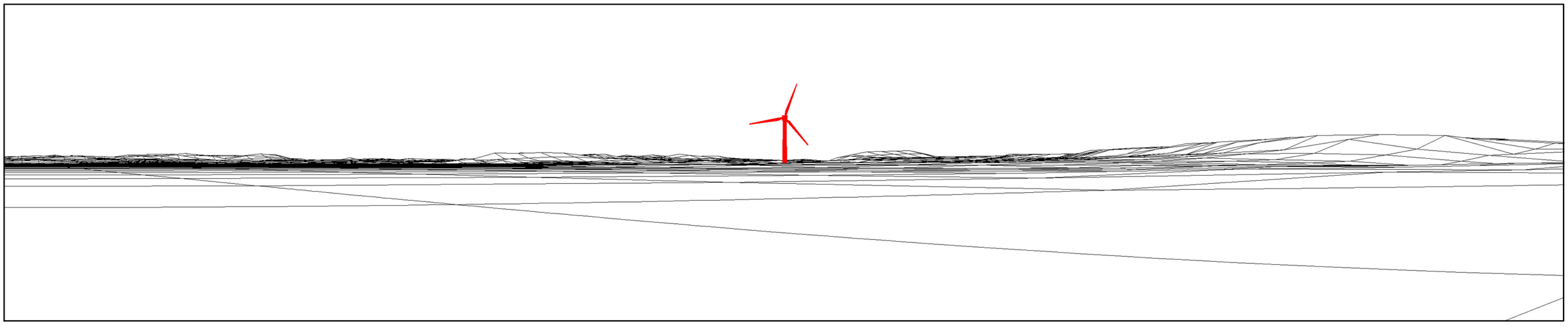
Existing view from viewpoint



Computer generated wireline of proposed development

VP5 - Fife Coastal Path
Leven
Figure 5.15e1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	338521mE 700655mN
View Direction:	216.68 degrees
Camera Elevation:	7m AOD
Distance to Turbine:	2859m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/108 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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Viewpoint Location:	338521mE 700655mN		
View Direction:	216.68 degrees		
Camera Elevation:	7m AOD		
Distance to Turbine:	2859m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/109	Drawn: TC	Reviewed: GC	Approved: JH



VP5 - Fife Coastal Path
Leven
Figure 5.15e2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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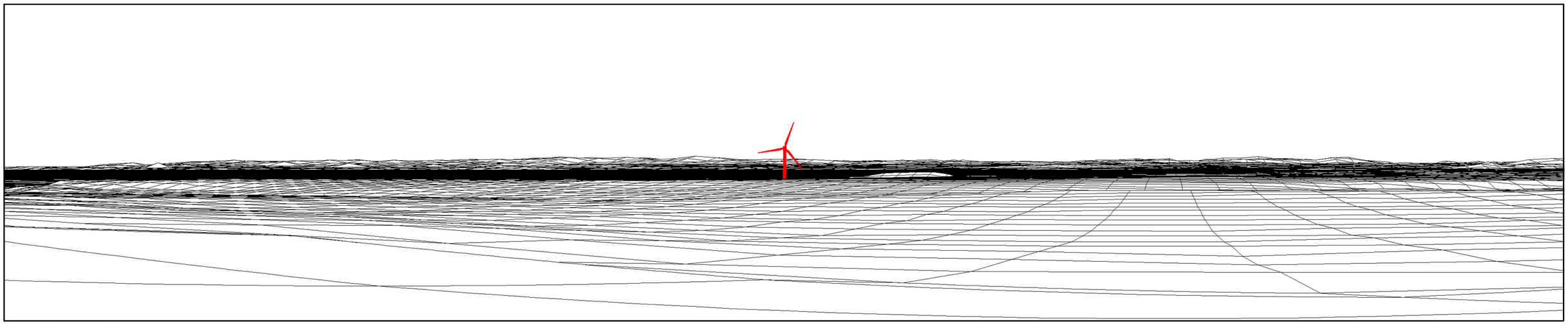
Existing view from viewpoint



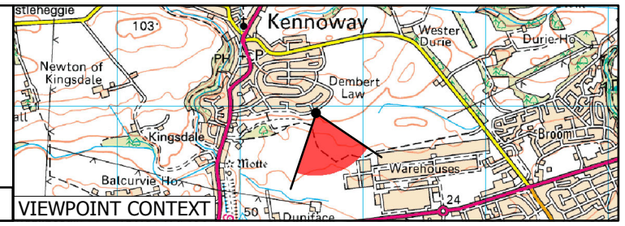
Computer generated wireline of proposed development

VP6 - Kennoway
Figure 5.15f1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	335618mE 701941mN
View Direction:	161.54 degrees
Camera Elevation:	57m AOD
Distance to Turbine:	3773m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/110 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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Photomontage showing proposed development from viewpoint

Scottish Enterprise

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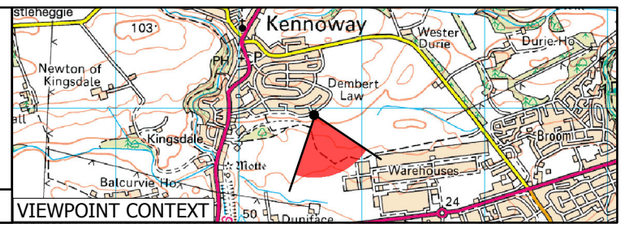
Viewpoint Location:	335618mE 701941mN		
View Direction:	161.54 degrees		
Camera Elevation:	57m AOD		
Distance to Turbine:	3773m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/111	Drawn: TC	Reviewed: GC	Approved: JH



VIEWPOINT CONTEXT

VP6 - Kennoway
Figure 5.15f2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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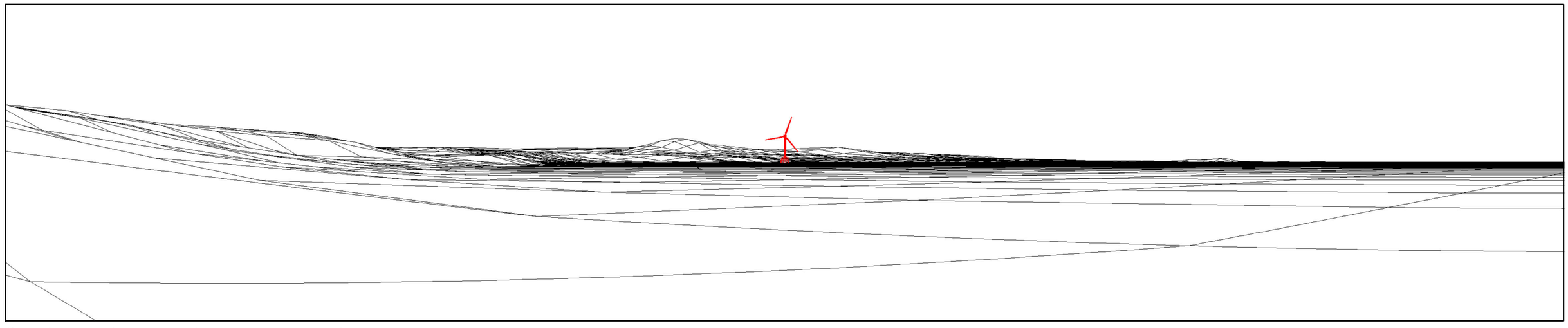
Existing view from viewpoint



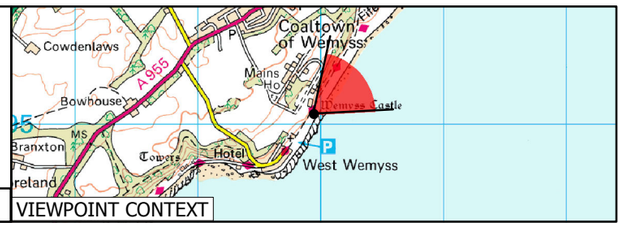
Computer generated wireline of proposed development

VP7 - Fife Coastal Path
Weymss Castle
Figure 5.15g1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	332945mE 695079mN
View Direction:	49.68 degrees
Camera Elevation:	3m AOD
Distance to Turbine:	5073m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/112 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

Scottish Enterprise

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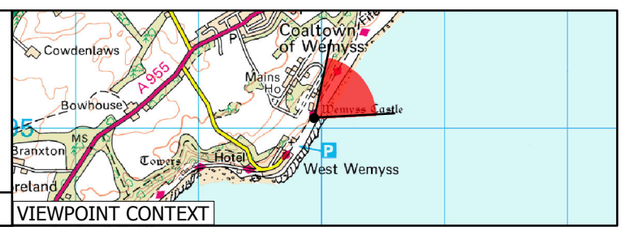
Photomontage showing proposed development from viewpoint

Scottish Enterprise

arcus

Viewpoint Location:	332945mE 695079mN		
View Direction:	49.68 degrees		
Camera Elevation:	3m AOD		
Distance to Turbine:	5073m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/113	Drawn: TC	Reviewed: GC	Approved: JH



VIEWPOINT CONTEXT

VP7 - Fife Coastal Path
Weymss Castle
Figure 5.15g2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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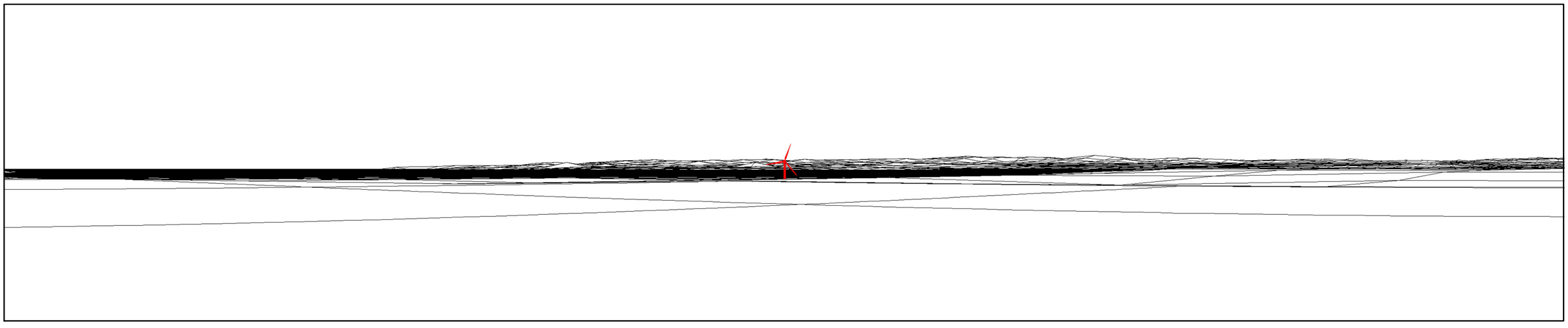
Existing view from viewpoint



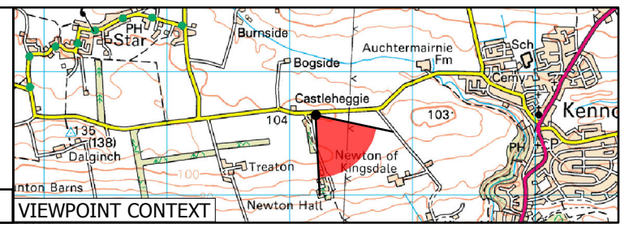
Computer generated wireline of proposed development

VP8 - Local Road West of Kennoway
Figure 5.15h1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	333214mE 702644mN
View Direction:	139.95 degrees
Camera Elevation:	104m AOD
Distance to Turbine:	5594m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/114 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

Scottish Enterprise

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Photomontage showing proposed development from viewpoint

Scottish Enterprise

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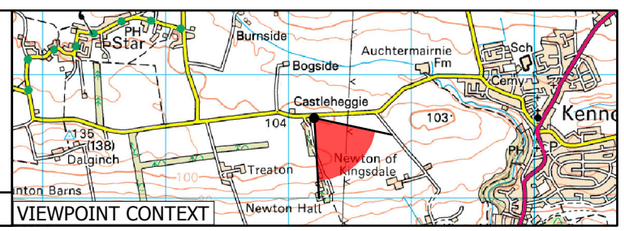
Viewpoint Location:	333214mE 702644mN
View Direction:	139.95 degrees
Camera Elevation:	104m AOD
Distance to Turbine:	5594m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/115 Drawn: TC Reviewed: GC Approved: JH



VP8 - Local Road West of Kennoway
Figure 5.15h2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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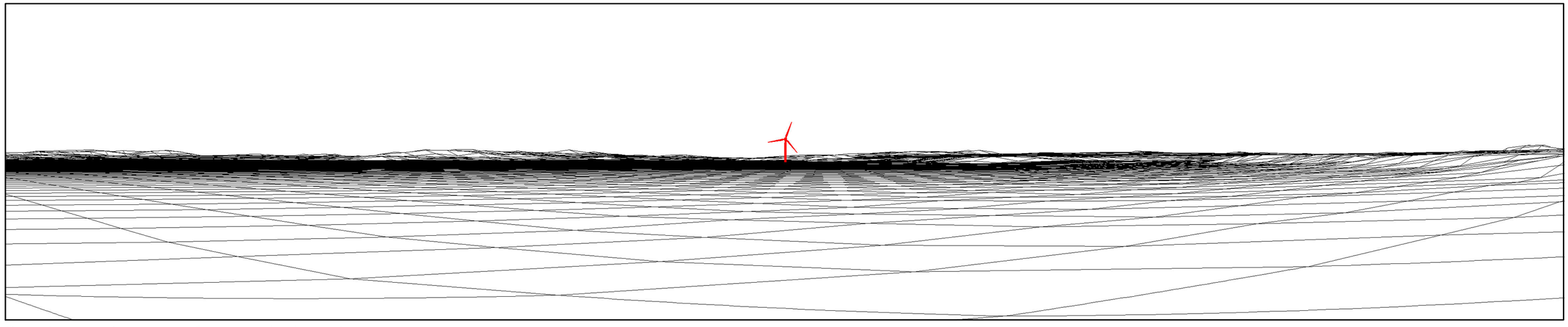
Existing view from viewpoint



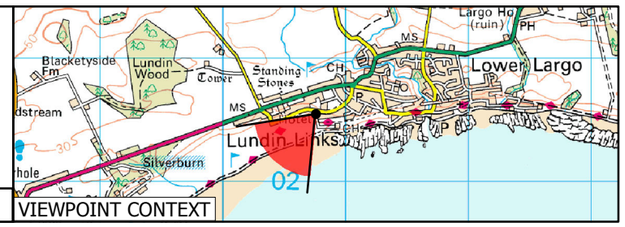
Computer generated wireline of proposed development

VP9 - Fife Coastal Path
Lower Largo
Figure 5.15i1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	340759mE 702543mN
View Direction:	223.34 degrees
Camera Elevation:	18m AOD
Distance to Turbine:	5749m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/116 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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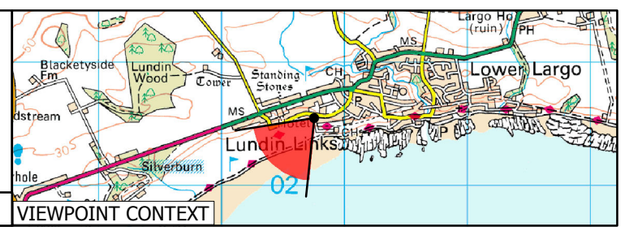
Viewpoint Location:	340759mE 702543mN
View Direction:	223.34 degrees
Camera Elevation:	18m AOD
Distance to Turbine:	5749m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/117 Drawn: TC Reviewed: GC Approved: JH



VP9 - Fife Coastal Path
Lower Largo
Figure 5.15i2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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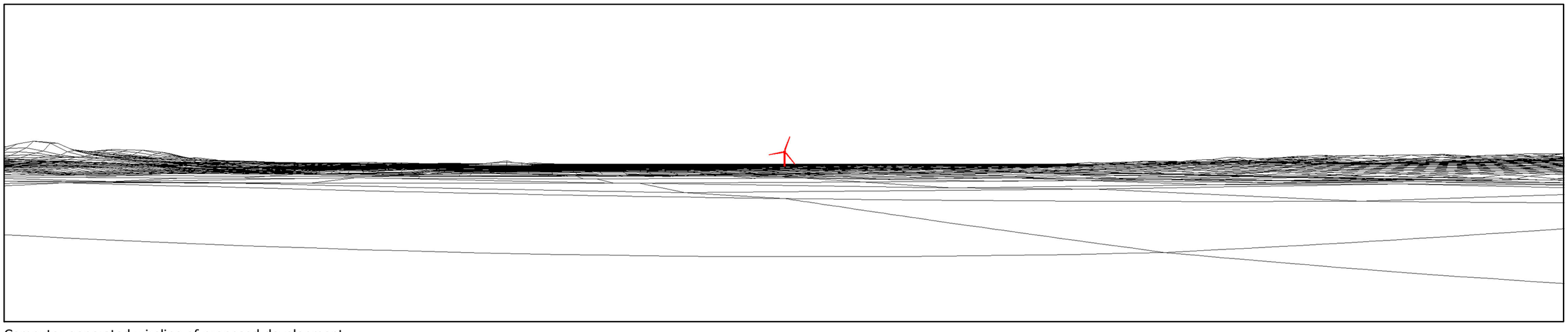
Existing view from viewpoint



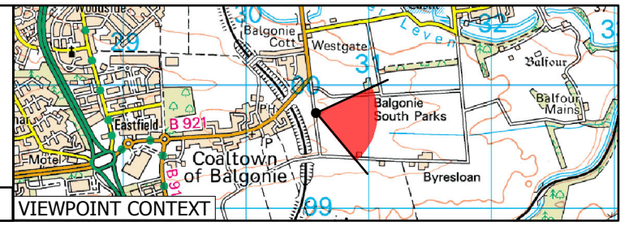
Computer generated wireline of proposed development

VP10 - Coaltown of Balgonie
Figure 5.15j1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	330570mE 699768mN
View Direction:	102.69 degrees
Camera Elevation:	75m AOD
Distance to Turbine:	6399m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/118 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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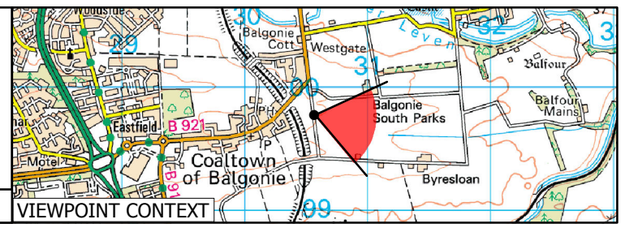
Viewpoint Location:	330570mE 699768mN
View Direction:	102.69 degrees
Camera Elevation:	75m AOD
Distance to Turbine:	6399m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/119 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

VP10 - Coaltown of Balgonie
Figure 5.15j2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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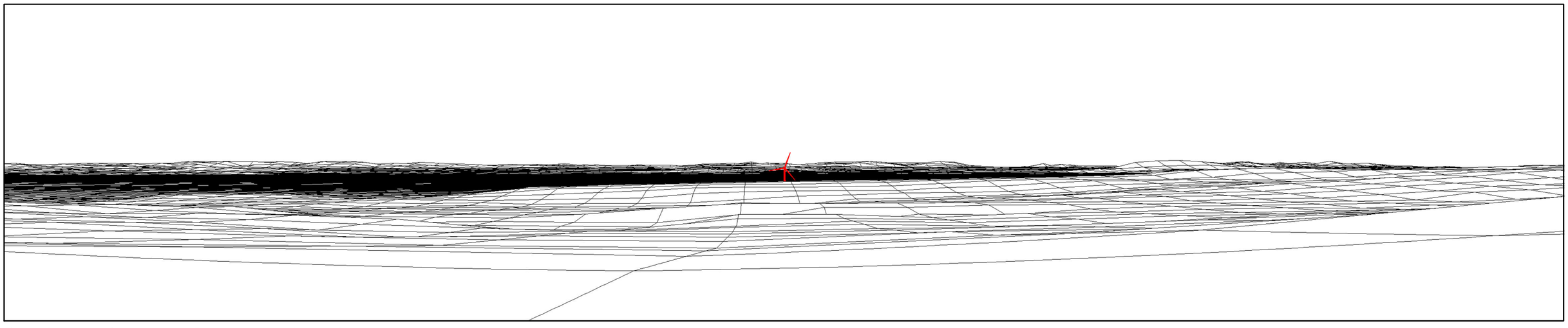
Existing view from viewpoint



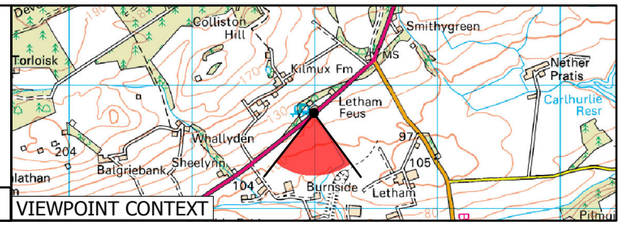
Computer generated wireline of proposed development

VP11 - A916
Northeast of Kennoway
Figure 5.15k1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	336994mE 704771mN
View Direction:	181.62 degrees
Camera Elevation:	122m AOD
Distance to Turbine:	6412m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/120 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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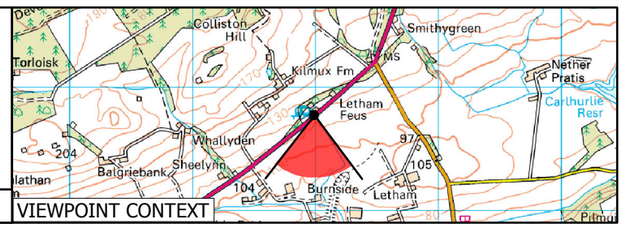
Viewpoint Location:	336994mE 704771mN
View Direction:	181.62 degrees
Camera Elevation:	122m AOD
Distance to Turbine:	6412m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/121 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

VP11 - A916
Northeast of Kennoway
Figure 5.15k2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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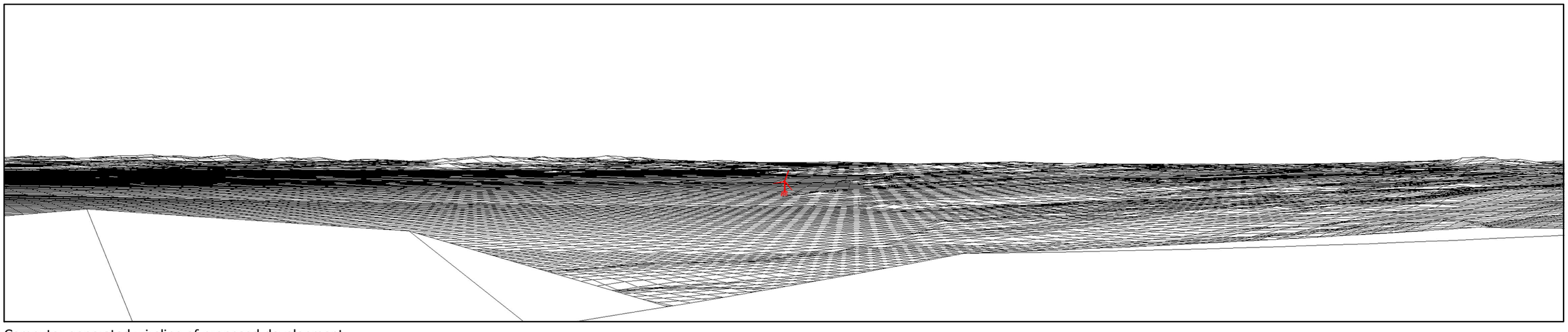
Existing view from viewpoint



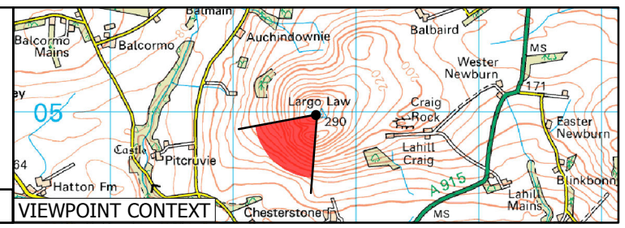
Computer generated wireline of proposed development

VP12 - Largo Law Summit
Figure 5.15l1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	342674mE 704970mN
View Direction:	221.57 degrees
Camera Elevation:	293m AOD
Distance to Turbine:	8833m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/122 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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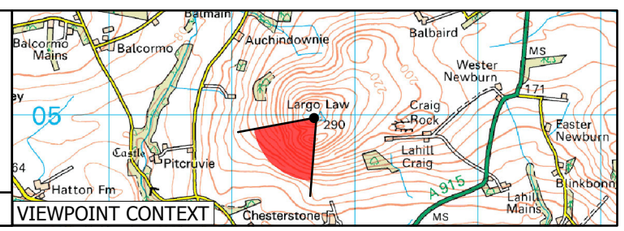
Photomontage showing proposed development from viewpoint

Viewpoint Location:	342674mE 704970mN
View Direction:	221.57 degrees
Camera Elevation:	293m AOD
Distance to Turbine:	8833m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/123 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

VP12 - Largo Law Summit
Figure 5.15l2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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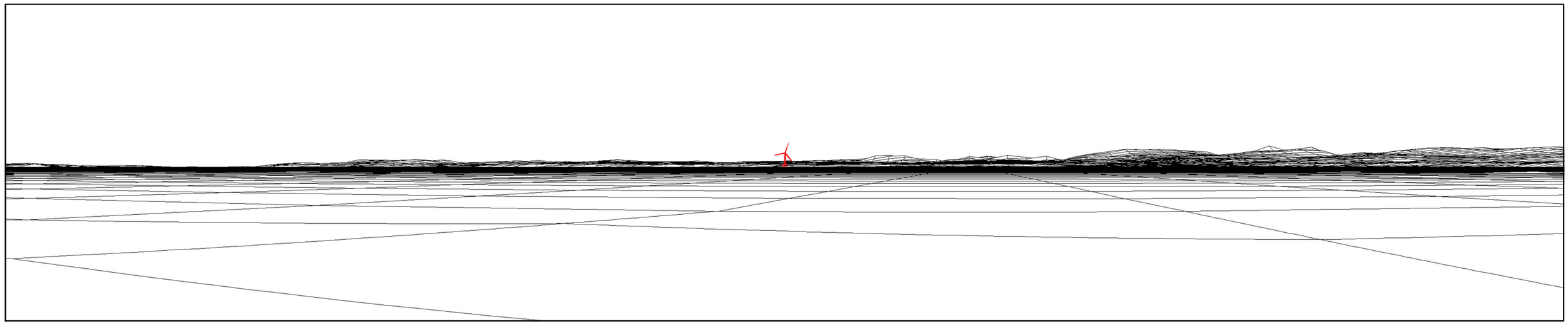
Existing view from viewpoint



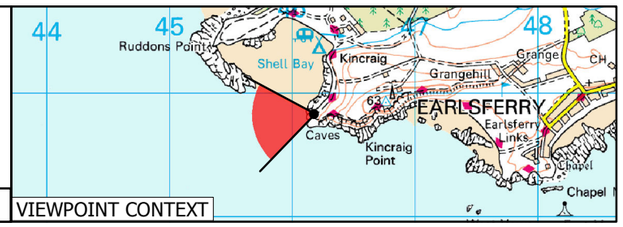
Computer generated wireline of proposed development

VP13 - Fife Coastal Path
King Craig Point
Figure 5.15m1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	346176mE 699827mN
View Direction:	261.11 degrees
Camera Elevation:	3m AOD
Distance to Turbine:	9477m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/124 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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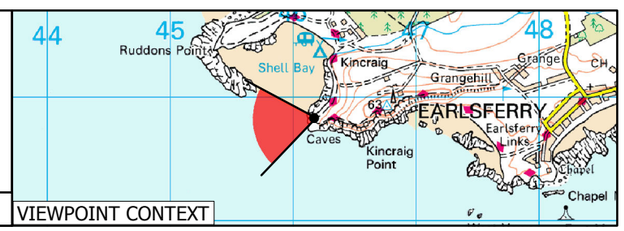
Viewpoint Location:	346176mE 699827mN		
View Direction:	261.11 degrees		
Camera Elevation:	3m AOD		
Distance to Turbine:	9477m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/125	Drawn: TC	Reviewed: GC	Approved: JH



VIEWPOINT CONTEXT

VP13 - Fife Coastal Path
King Craig Point
Figure 5.15m2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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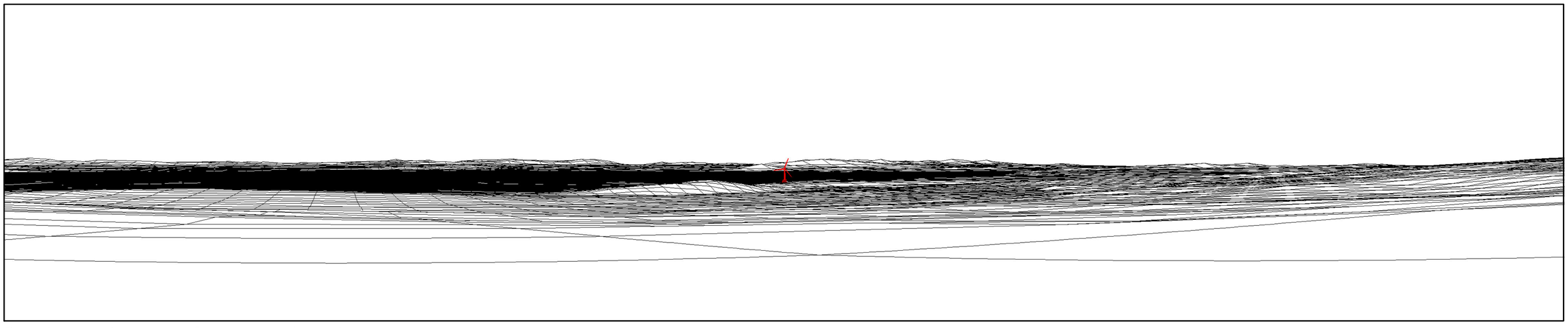
Existing view from viewpoint



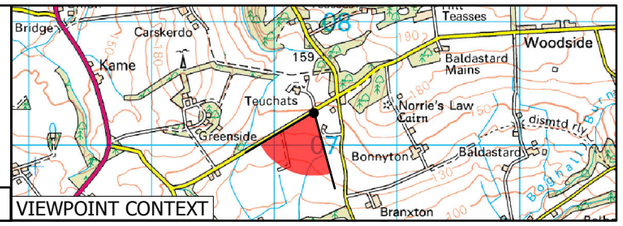
Computer generated wireline of proposed development

VP14 - Local road east of Montrave opposite entrance to Teuchats property
Figure 5.15n1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	340324mE 707256mN
View Direction:	201.54 degrees
Camera Elevation:	151m AOD
Distance to Turbine:	9562m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/126 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

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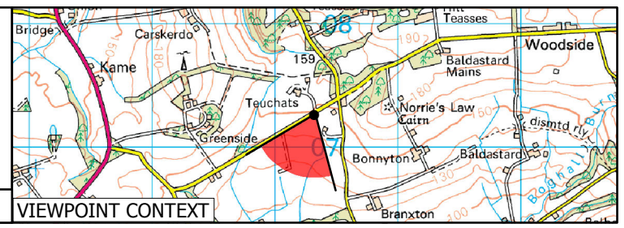
Viewpoint Location:	340324mE 707256mN
View Direction:	201.54 degrees
Camera Elevation:	151m AOD
Distance to Turbine:	9562m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/127 Drawn: TC Reviewed: GC Approved: JH



VP14 - Local road east of Montrave opposite entrance to Teuchats property
Figure 5.15n2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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Existing view from viewpoint



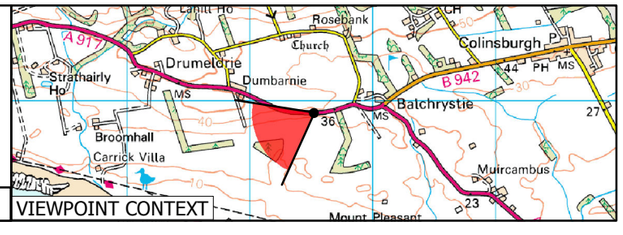
Computer generated wireline of proposed development

VP15 - A917
Figure 5.15o1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	345522mE 702896mN
View Direction:	242.50 degrees
Camera Elevation:	40m AOD
Distance to Turbine:	9819m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/128 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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Photomontage showing proposed development from viewpoint

Scottish Enterprise

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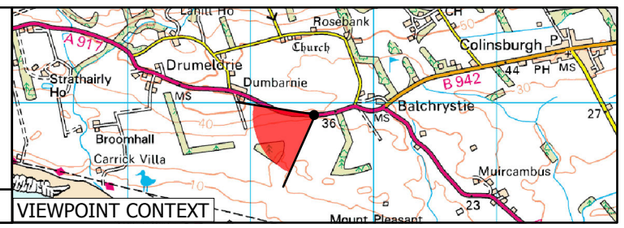
Viewpoint Location:	345522mE 702896mN		
View Direction:	242.50 degrees		
Camera Elevation:	40m AOD		
Distance to Turbine:	9819m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/129	Drawn: TC	Reviewed: GC	Approved: JH



VIEWPOINT CONTEXT

VP15 - A917
Figure 5.15o2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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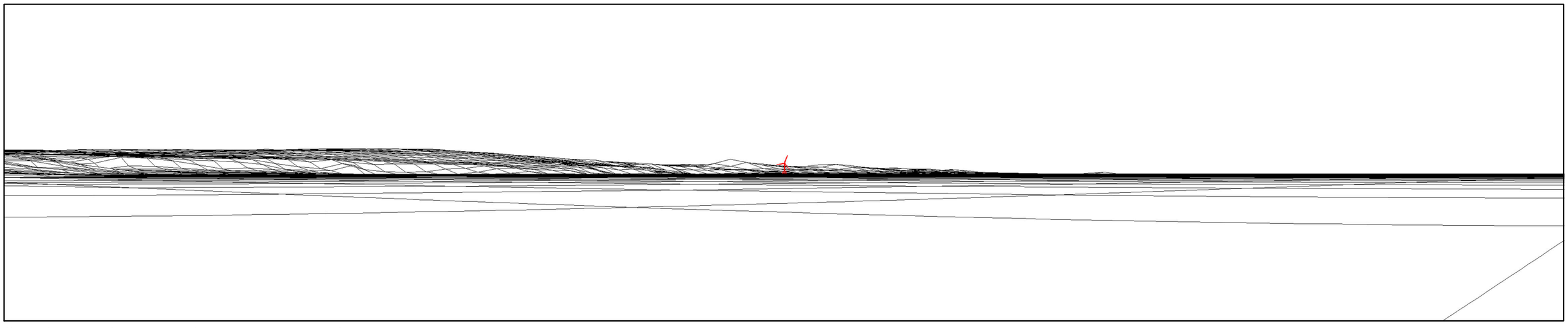
Existing view from viewpoint



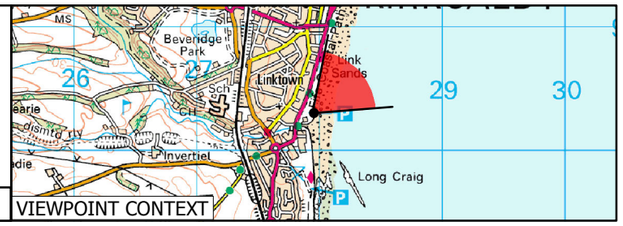
Computer generated wireline of proposed development

VP16 - A921/Fife Coastal Path
Kirkcaldy
Figure 5.15p1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	327955mE 690297mN
View Direction:	47.68 degrees
Camera Elevation:	3m AOD
Distance to Turbine:	11979m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/130 Drawn: TC Reviewed: GC Approved: JH



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Photomontage showing proposed development from viewpoint

Scottish Enterprise

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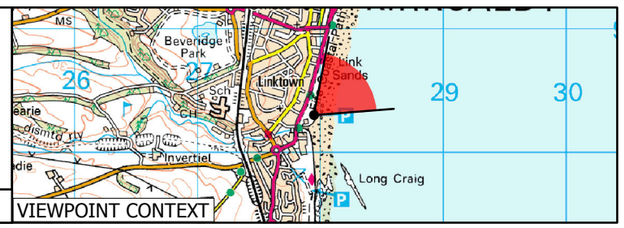
Viewpoint Location:	327955mE 690297mN		
View Direction:	47.68 degrees		
Camera Elevation:	3m AOD		
Distance to Turbine:	11979m		
Horizontal Field of View:	75 degrees		
Viewing Distance:	302 mm		
Ref: 867/ES/131	Drawn: TC	Reviewed: GC	Approved: JH



VP16 - A921/Fife Coastal Path Kirkcaldy
Figure 5.15p2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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Existing view from viewpoint



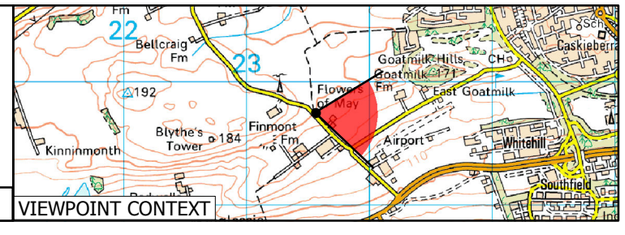
Computer generated wireline of proposed development

VP17 - Local road north of Kinglassie
Figure 5.15q

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	323564mE 699742mN
View Direction:	95.95 degrees
Camera Elevation:	152m AOD
Distance to Turbine:	13321m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/132 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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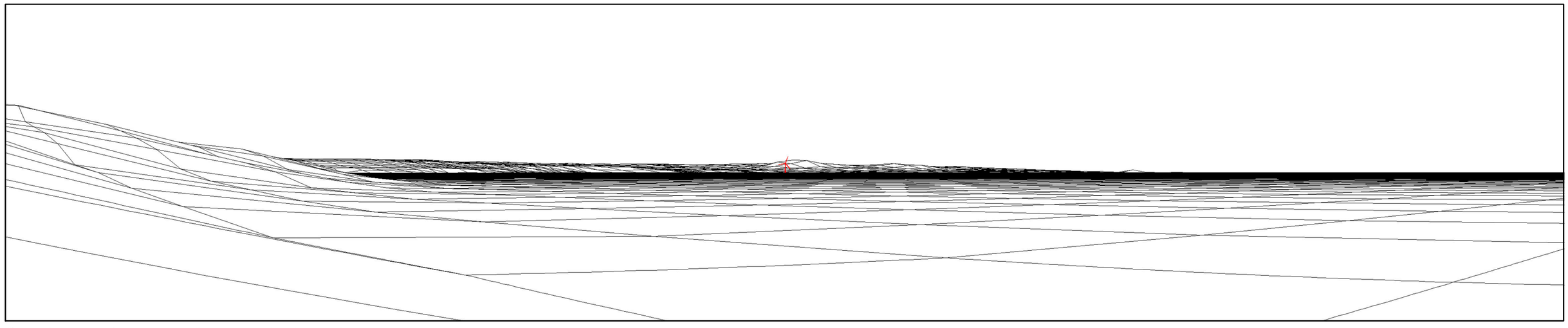
Existing view from viewpoint



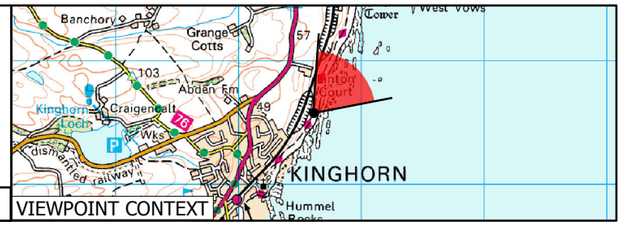
Computer generated wireline of proposed development

VP18 - Fife Coastal Path
Kinghorn
Figure 5.15r

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	327614mE 687573mN
View Direction:	40.45 degrees
Camera Elevation:	13m AOD
Distance to Turbine:	14178m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/133 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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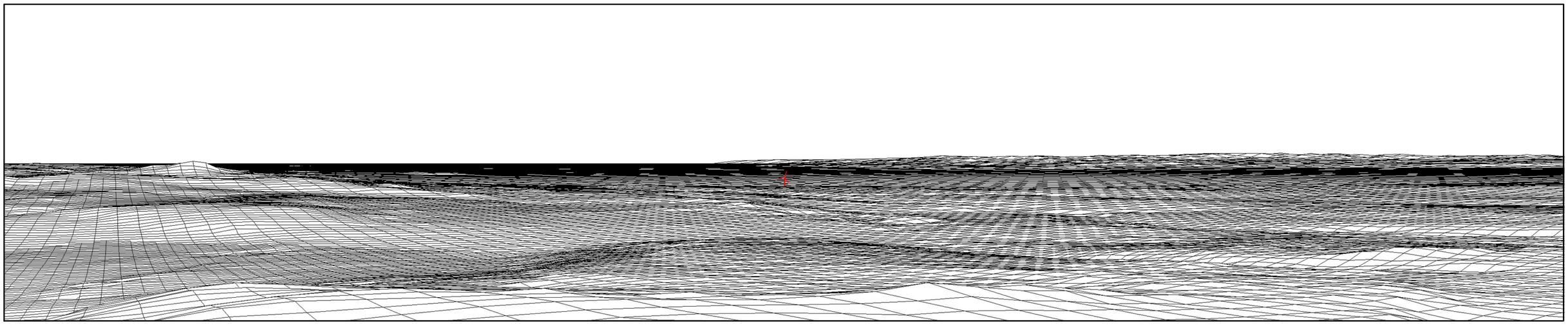
Existing view from viewpoint



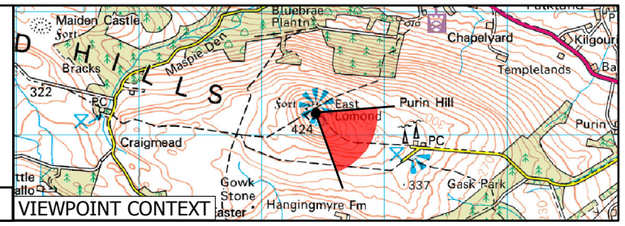
Computer generated wireline of proposed development

VP19 - Lomond Hills
Figure 5.15s

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	324446mE 706174mN
View Direction:	122.28 degrees
Camera Elevation:	456m AOD
Distance to Turbine:	14628m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/133 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

Scottish Enterprise

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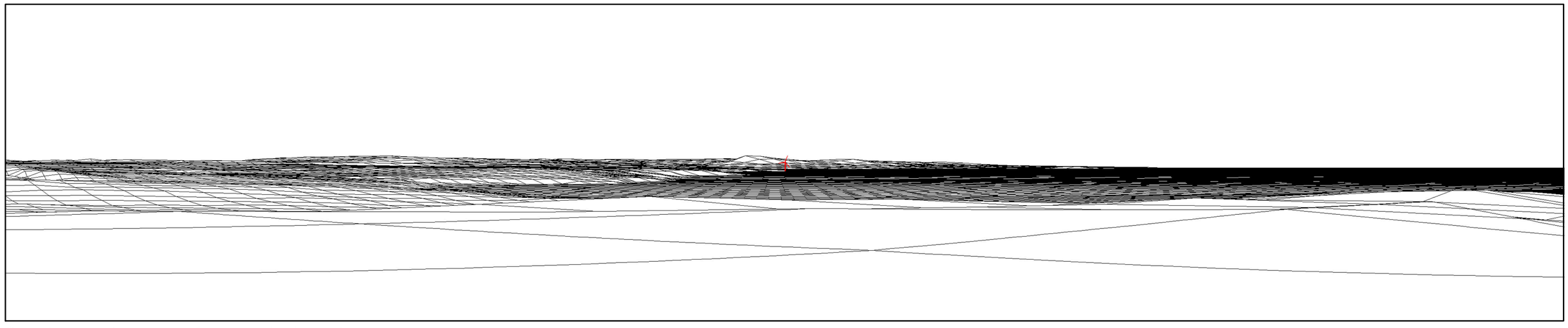
Existing view from viewpoint



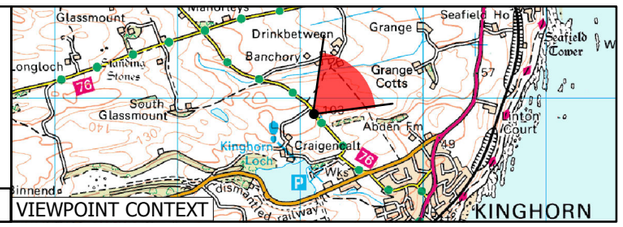
Computer generated wireline of proposed development

VP20 - Local road northwest of Kinghorn
Figure 5.15t

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	326111mE 687867mN
View Direction:	45.56 degrees
Camera Elevation:	110m AOD
Distance to Turbine:	14989m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/134 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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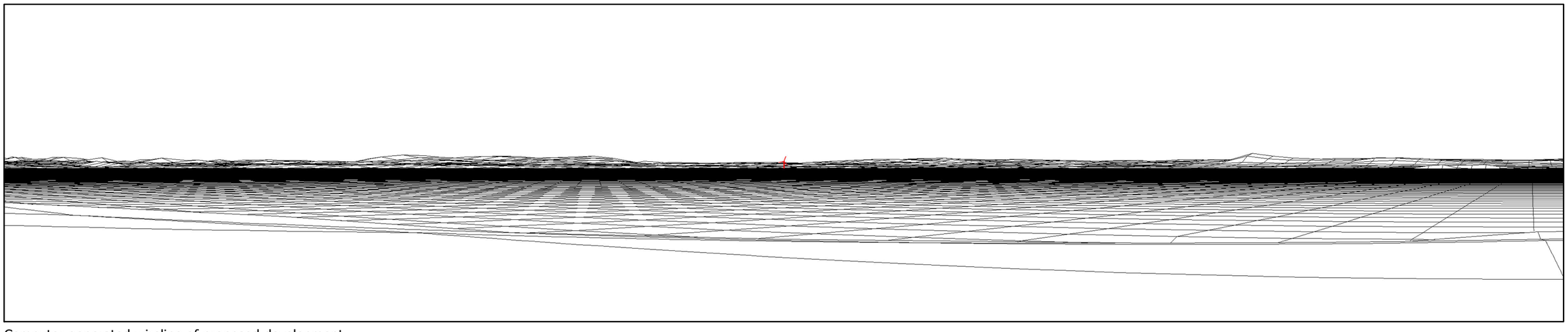
Existing view from viewpoint



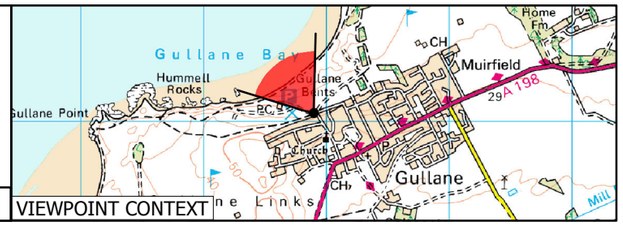
Computer generated wireline of proposed development

VP21 - Gullane
Figure 5.15u

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	347899mE 683064mN
View Direction:	324.07 degrees
Camera Elevation:	25m AOD
Distance to Turbine:	18893m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/136 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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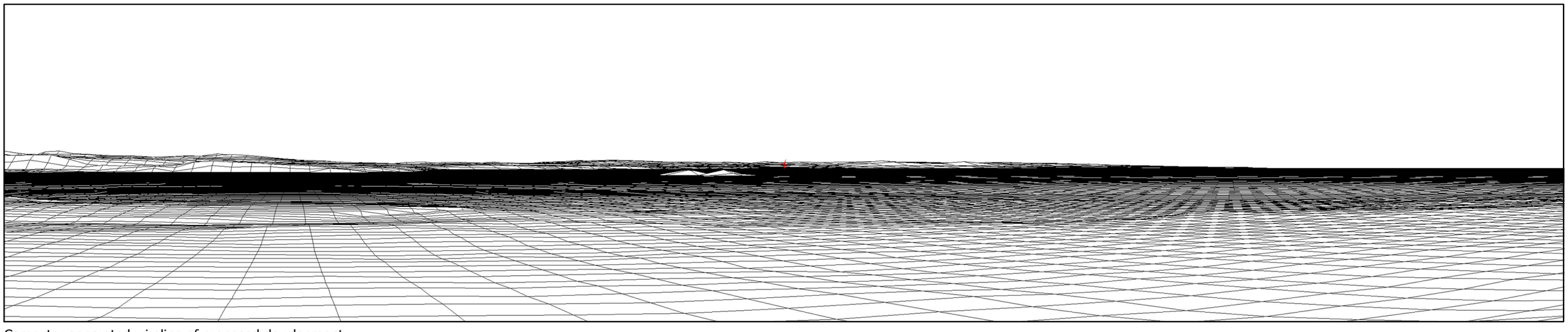
Existing view from viewpoint



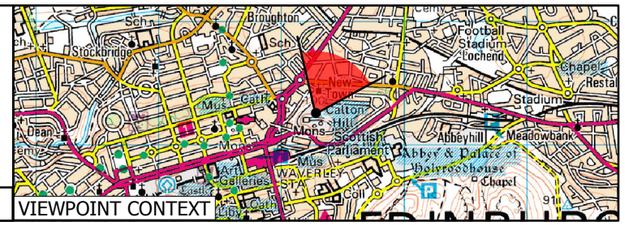
Computer generated wireline of proposed development

VP22 - Calton Hill, Edinburgh
Figure 5.15v

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	326281mE 674253mN
View Direction:	23.60 degrees
Camera Elevation:	104m AOD
Distance to Turbine:	26309m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/157 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

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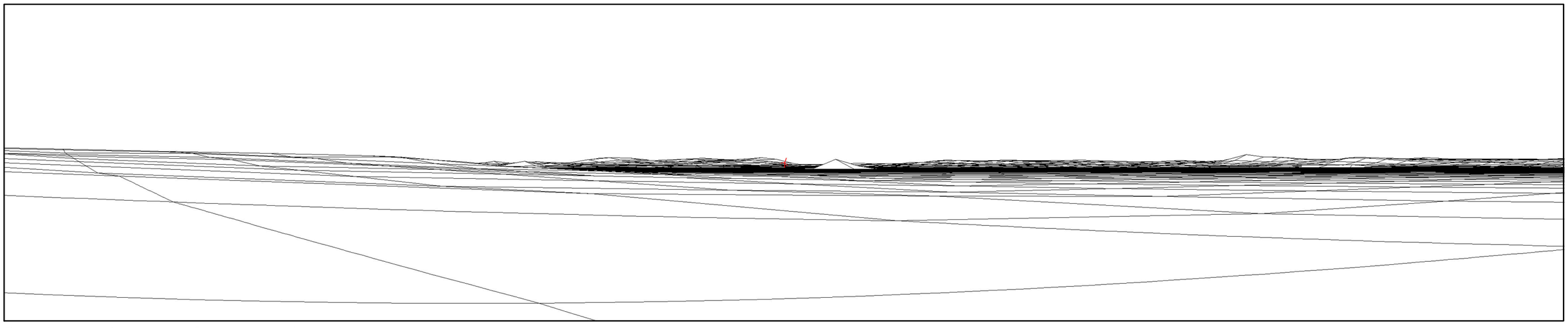
Existing view from viewpoint



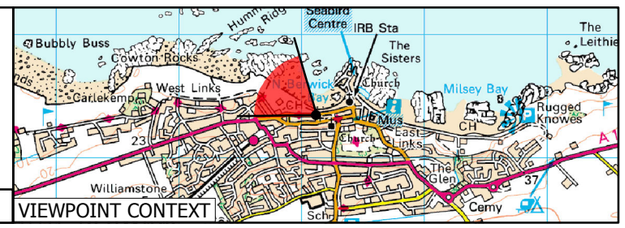
Computer generated wireline of proposed development

VP23 - North Berwick. Corner of Church Road and Forth Street
Figure 5.15w

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Viewpoint Location:	355116mE 685343mN
View Direction:	305.42 degrees
Camera Elevation:	3m AOD
Distance to Turbine:	22461m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/158 Drawn: TC Reviewed: GC Approved: JH



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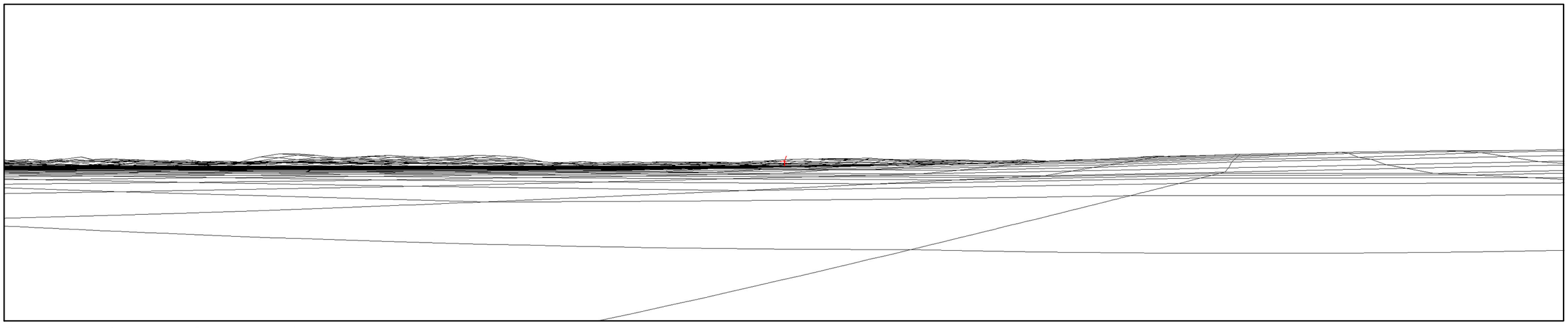
Existing view from viewpoint



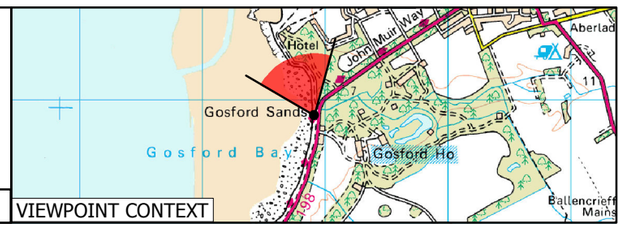
Computer generated wireline of proposed development

VP24 - A198
at Entrance to Gosford House
Figure 5.15x

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Viewpoint Location:	344908mE 678873mN
View Direction:	337.44 degrees
Camera Elevation:	3m AOD
Distance to Turbine:	21103m
Horizontal Field of View:	75 degrees
Viewing Distance:	302 mm

Ref: 867/ES/159 Drawn: TC Reviewed: GC Approved: JH



VIEWPOINT CONTEXT

Scottish Enterprise

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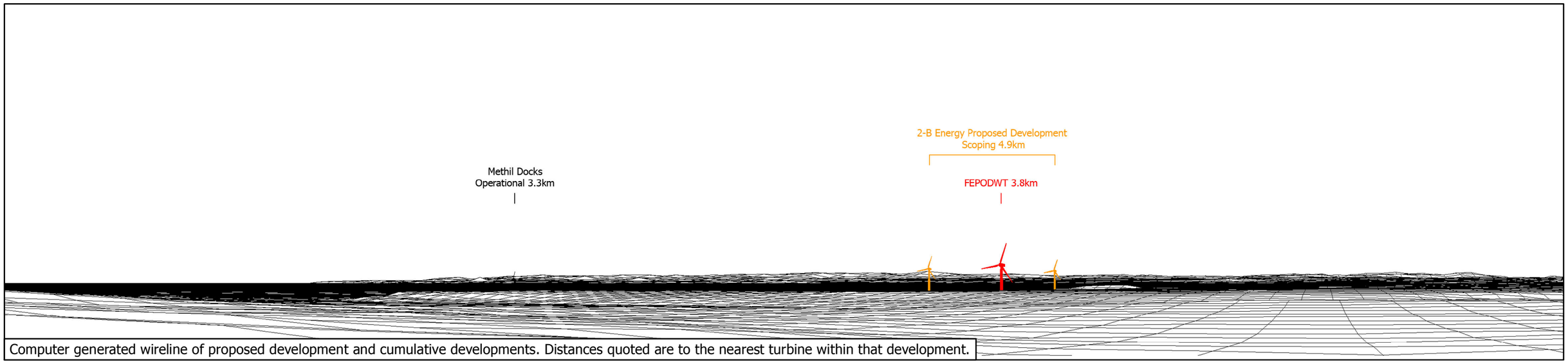
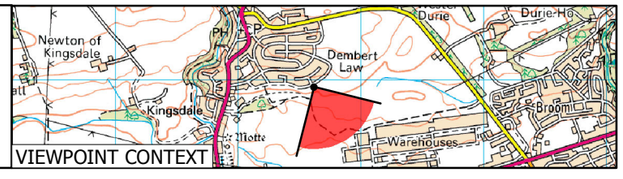


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	335618mE 701941mN
View Direction:	149 degrees
Camera Elevation:	57m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP6 - Kennoway
Figure 5.16a1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/137 Drawn: TC Reviewed: GC Approved: JH

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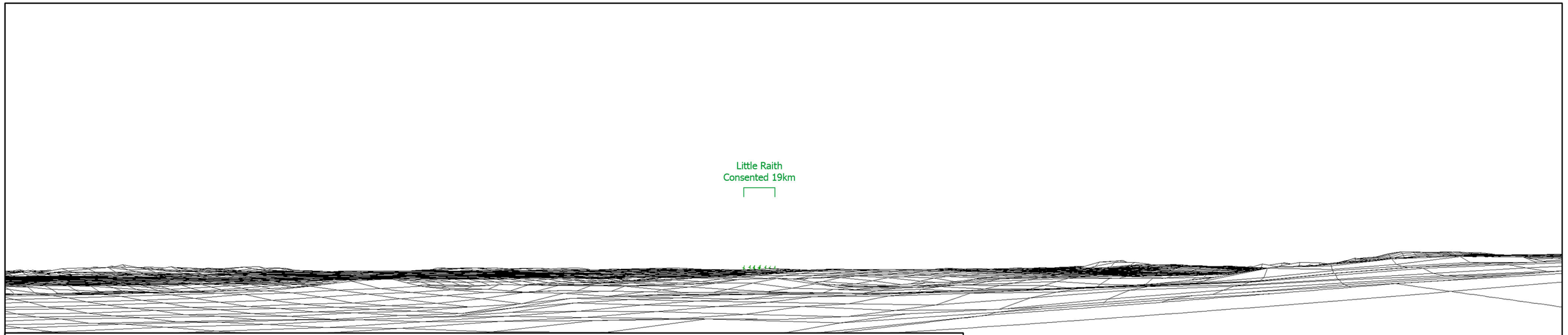
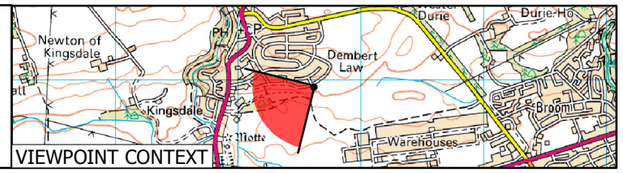


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	335618mE 701941mN
View Direction:	239 degrees
Camera Elevation:	57m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

arcus

Ref: 867/ES/138 Drawn: TC Reviewed: GC Approved: JH

VP6 - Kennoway
Figure 5.16a2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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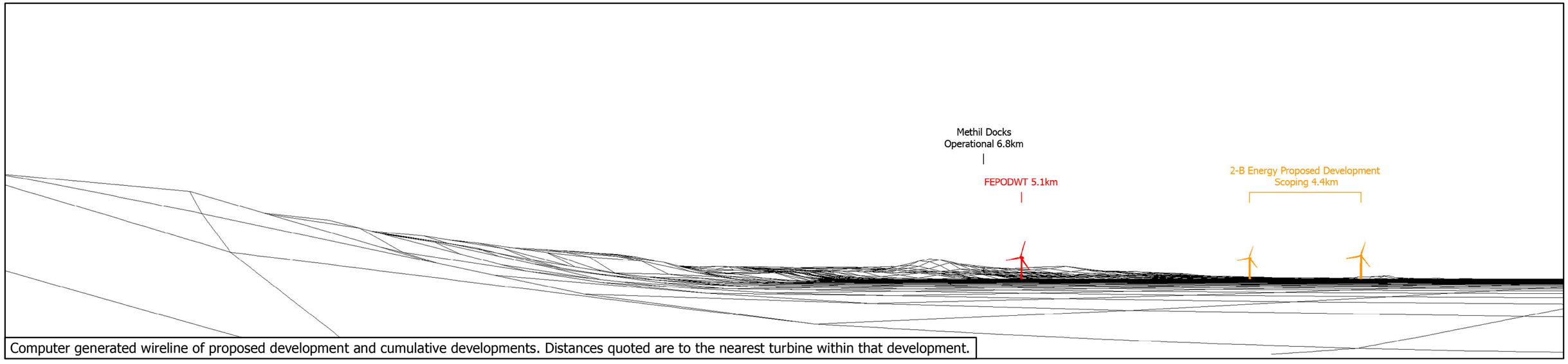
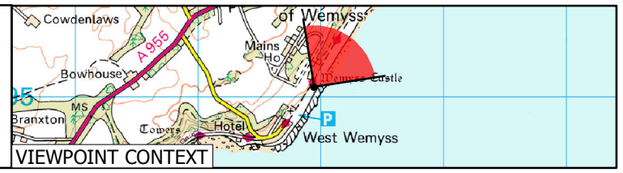


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	332945mE 695079mN
View Direction:	36 degrees
Camera Elevation:	3m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP7 - Fife Coastal Path
Weymss Castle
Figure 5.16b1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/139 Drawn: TC Reviewed: GC Approved: JH

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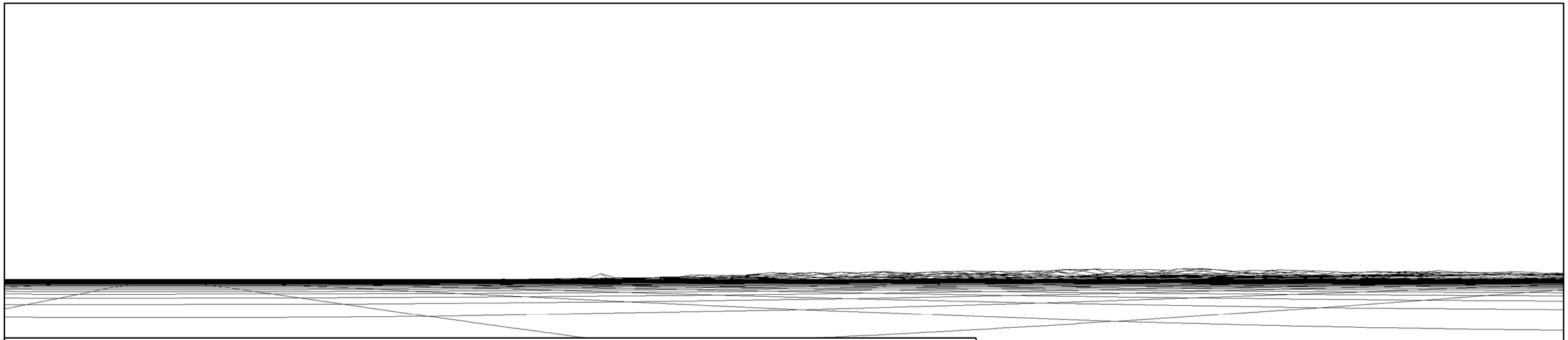
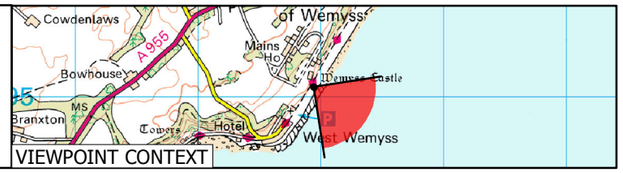


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	332945mE 695079mN
View Direction:	126 degrees
Camera Elevation:	3m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/140 Drawn: TC Reviewed: GC Approved: JH

VP7 - Fife Coastal Path
Weymss Castle
Figure 5.16b2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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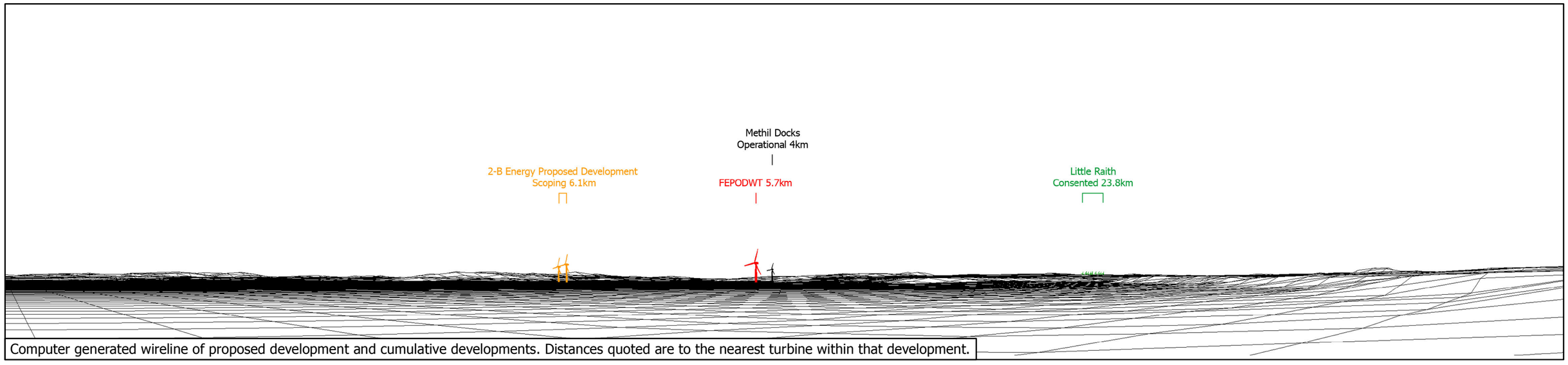
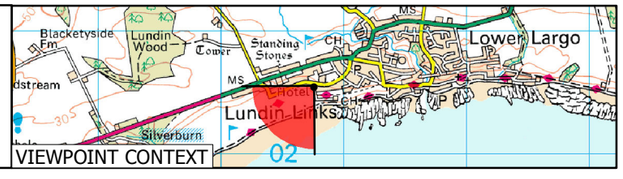


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	340759mE 702543mN
View Direction:	225 degrees
Camera Elevation:	18m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP9 - Fife Coastal Path
Lower Largo
Figure 5.16c1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/141 Drawn: TC Reviewed: GC Approved: JH

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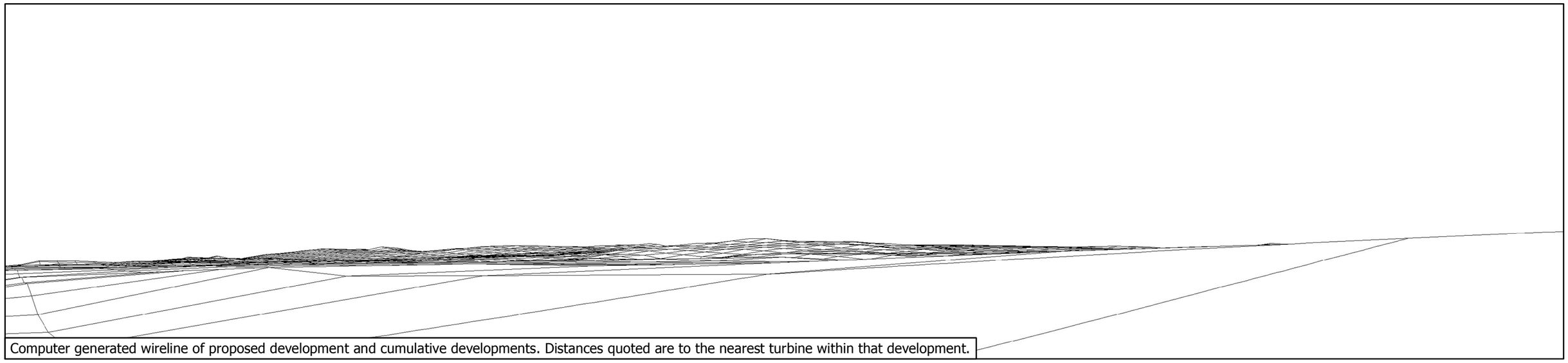
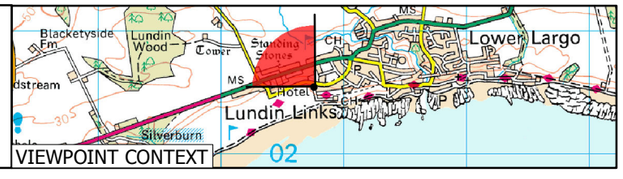


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	340759mE 702543mN
View Direction:	315 degrees
Camera Elevation:	18m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/142 Drawn: TC Reviewed: GC Approved: JH

VP9 - Fife Coastal Path
Lower Largo
Figure 5.16c2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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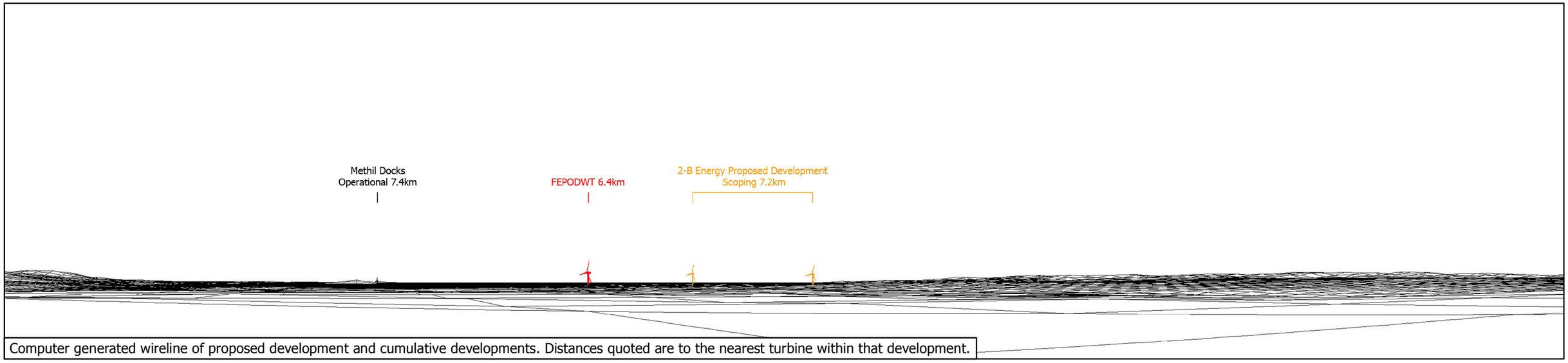
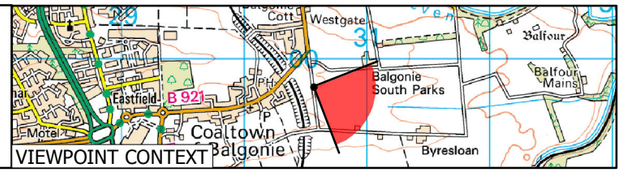


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	330570mE 699768mN
View Direction:	114 degrees
Camera Elevation:	75m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP10 - Coaltown of Balgonie
Figure 5.16d1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/143 Drawn: TC Reviewed: GC Approved: JH

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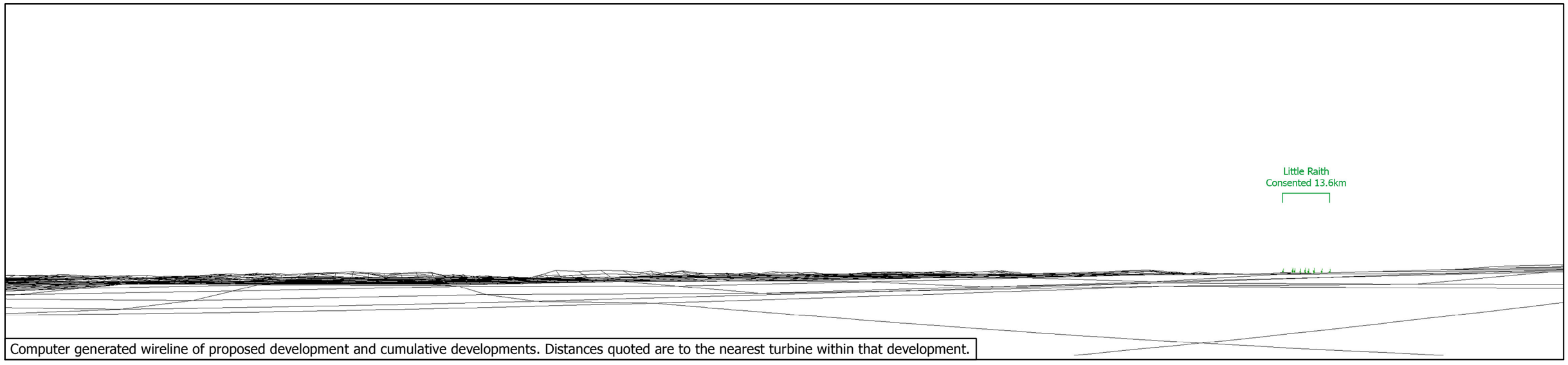
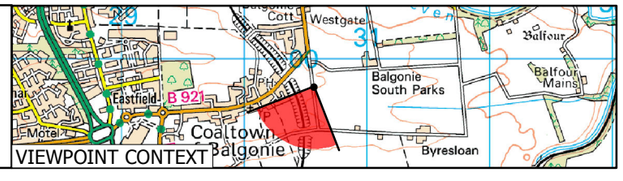


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	330570mE 699768mN
View Direction:	204 degrees
Camera Elevation:	75m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/144 Drawn: TC Reviewed: GC Approved: JH

VP10 - Coaltown of Balgonie
Figure 5.16d2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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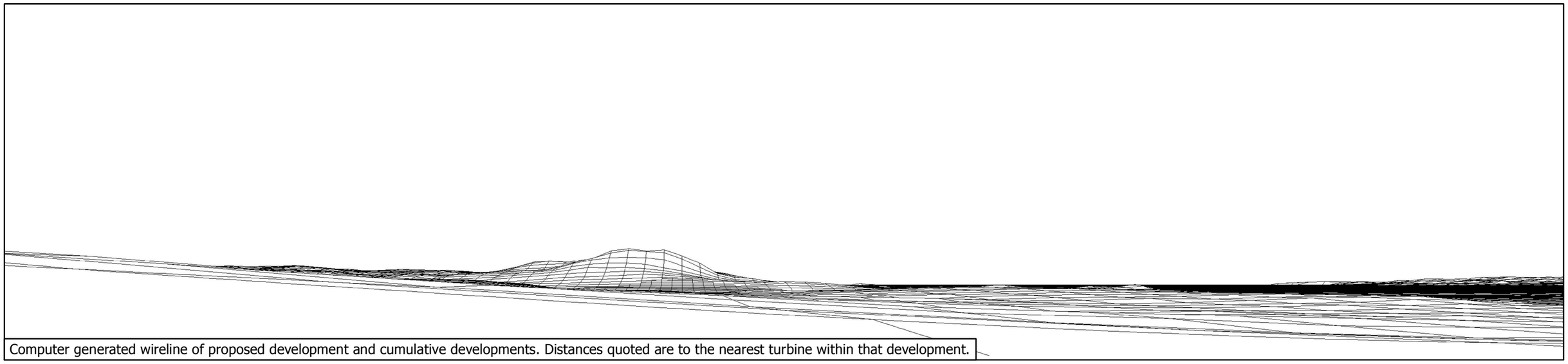
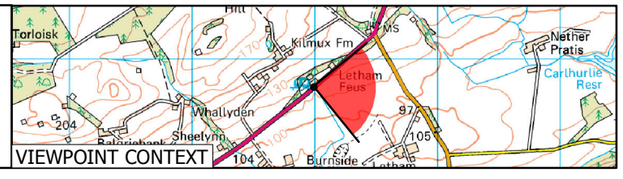


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	336994mE 704771mN
View Direction:	96 degrees
Camera Elevation:	122m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP11 - A916
Northeast of Kennoway
Figure 5.16e1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/145 Drawn: TC Reviewed: GC Approved: JH

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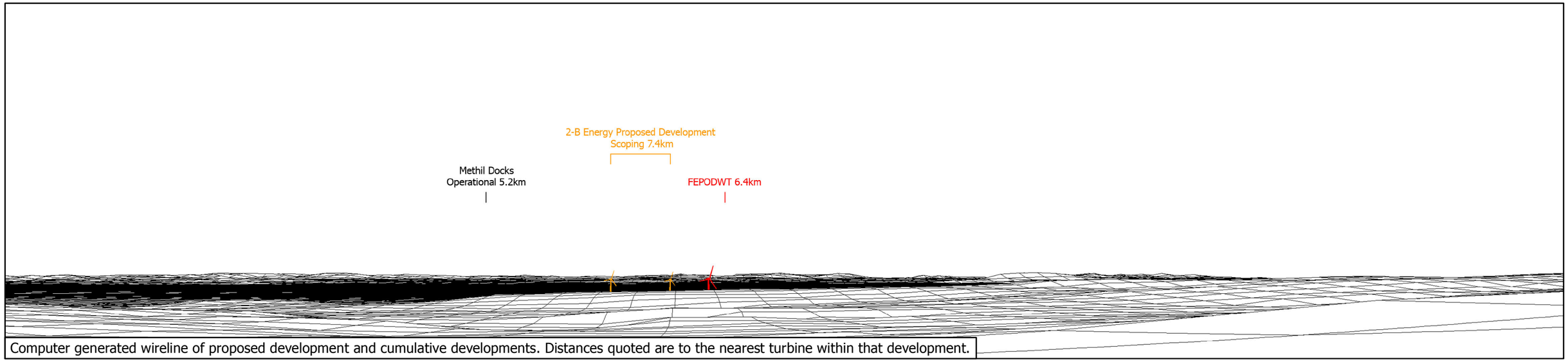
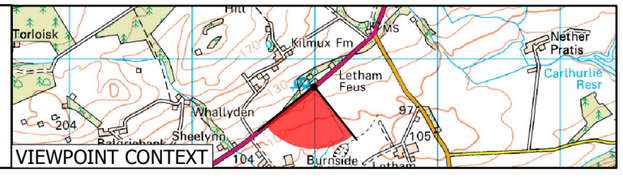


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	336994mE 704771mN
View Direction:	186 degrees
Camera Elevation:	122m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/146 Drawn: TC Reviewed: GC Approved: JH

VP11 - A916
Northeast of Kennoway
Figure 5.16e2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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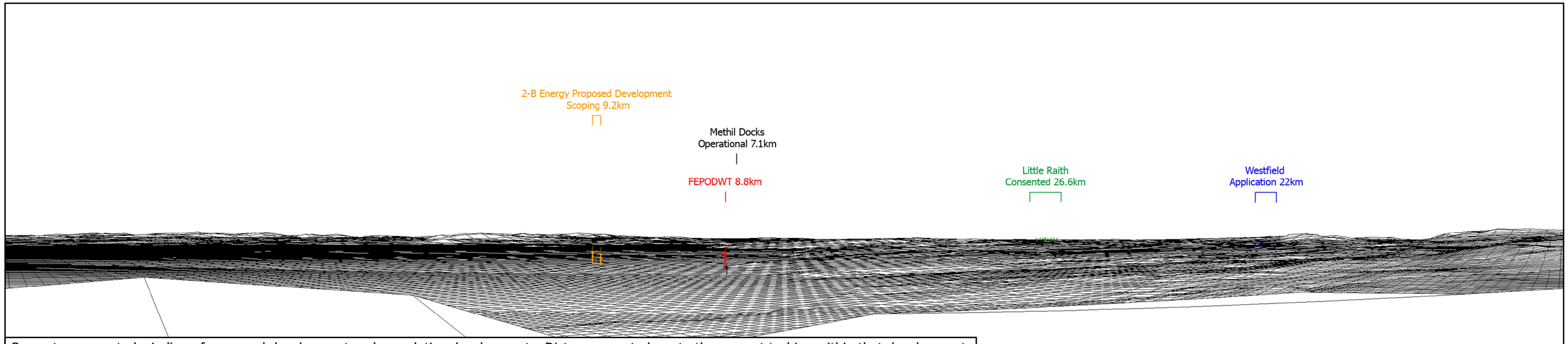
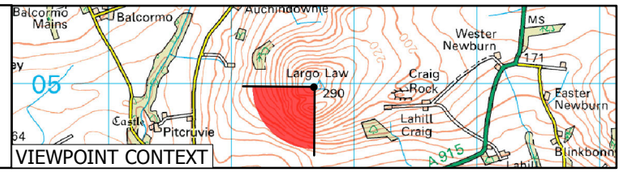


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	342674mE 704970mN
View Direction:	225 degrees
Camera Elevation:	293m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP12 - Largo Law Summit
Figure 5.16f1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/147 Drawn: TC Reviewed: GC Approved: JH

Scottish Enterprise

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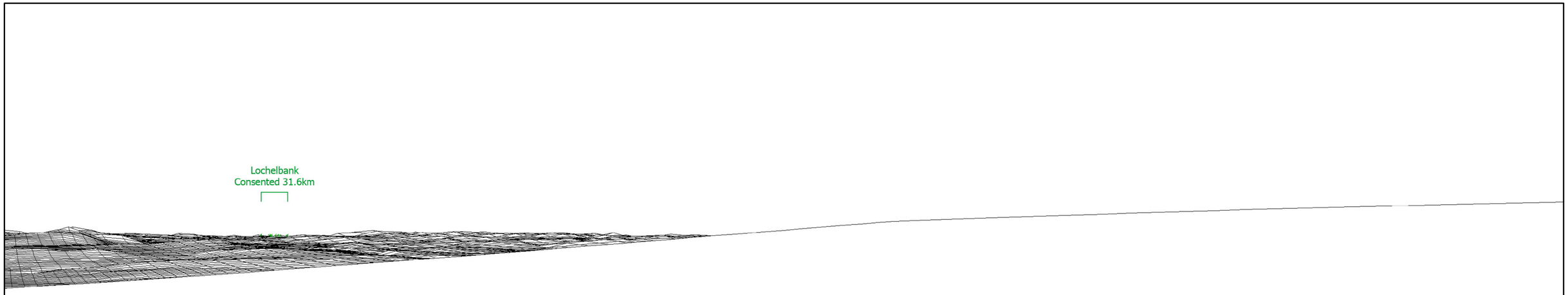
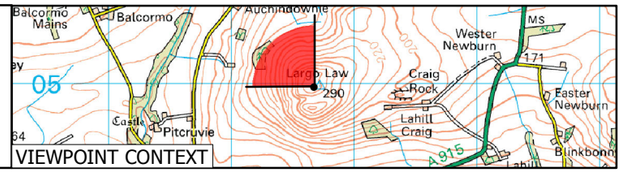


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	342674mE 704970mN
View Direction:	315 degrees
Camera Elevation:	293m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

arcus

Ref: 867/ES/148 Drawn: TC Reviewed: GC Approved: JH

VP12 - Largo Law Summit
Figure 5.16f2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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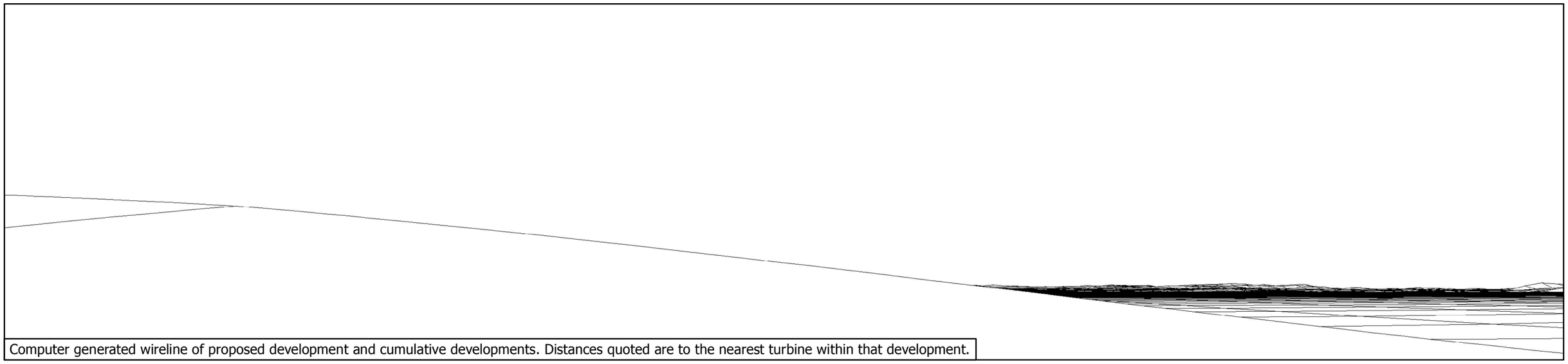
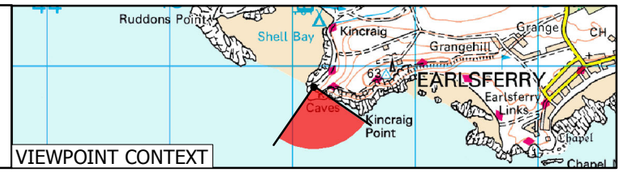


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	346176mE 699827mN
View Direction:	170 degrees
Camera Elevation:	3m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP13 - Fife Coastal Path
King Craig Point
Figure 5.16g1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/149 Drawn: TC Reviewed: GC Approved: JH

Scottish Enterprise

arcus

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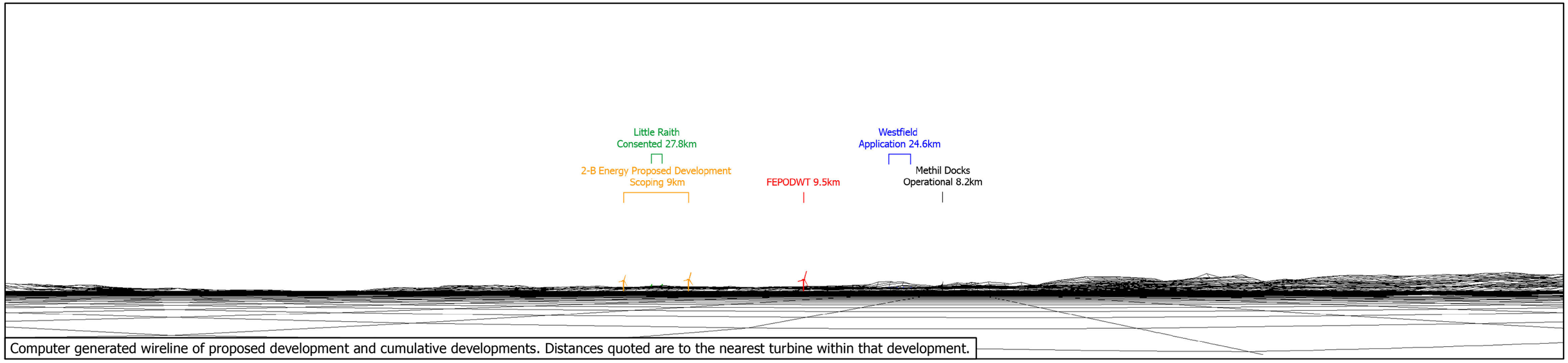
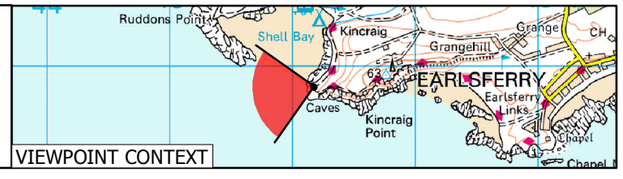


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	346176mE 699827mN
View Direction:	260 degrees
Camera Elevation:	3m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/150 Drawn: TC Reviewed: GC Approved: JH

VP13 - Fife Coastal Path
King Craig Point
Figure 5.16g2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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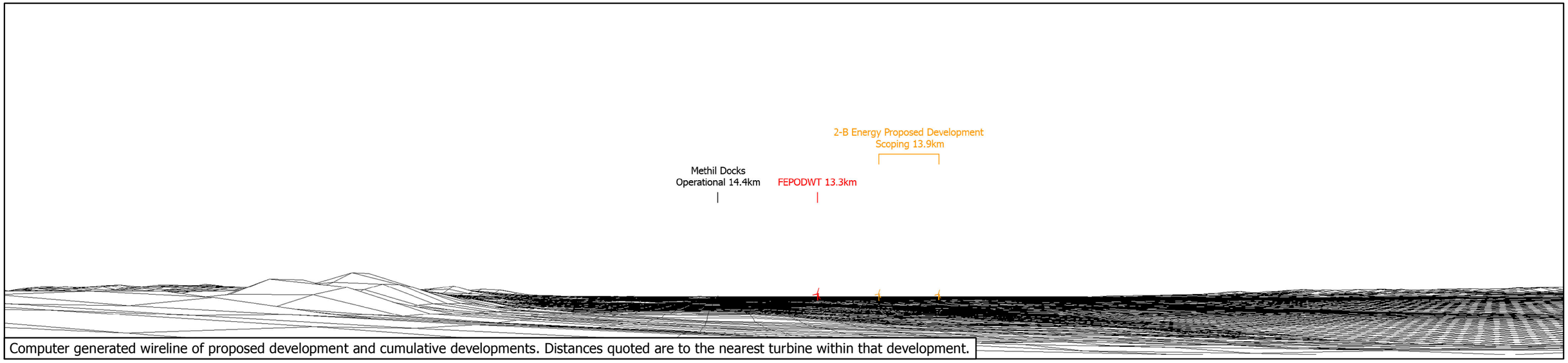
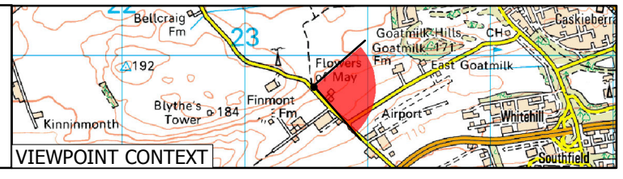


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	323564mE 699742mN
View Direction:	94 degrees
Camera Elevation:	152m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP17 - Local road north of Kinglassie
Figure 5.16h1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Ref: 867/ES/151 Drawn: TC Reviewed: GC Approved: JH

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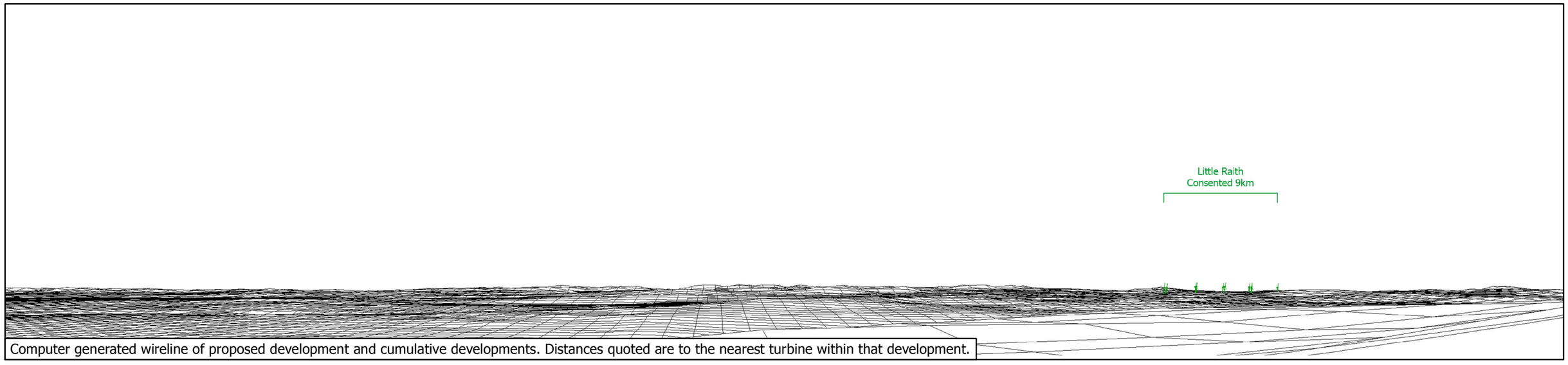
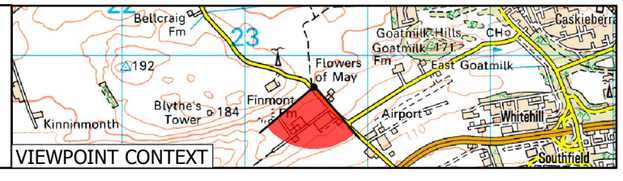


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	323564mE 699742mN
View Direction:	184 degrees
Camera Elevation:	152m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

arcus

Ref: 867/ES/152 Drawn: TC Reviewed: GC Approved: JH

VP17 - Local road north of Kinglassie
Figure 5.16h2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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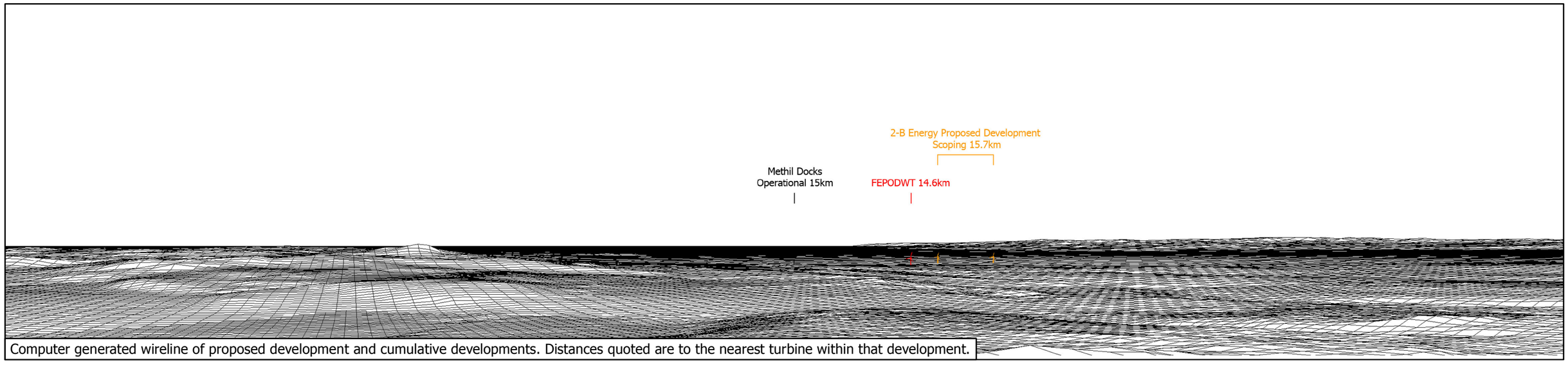
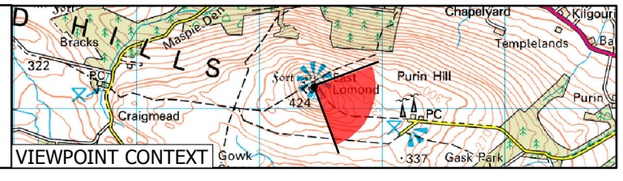


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	324446mE 706174mN
View Direction:	115 degrees
Camera Elevation:	456m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP19 - Lomond Hills
Figure 5.16i1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

Ref: 867/ES/153 Drawn: TC Reviewed: GC Approved: JH

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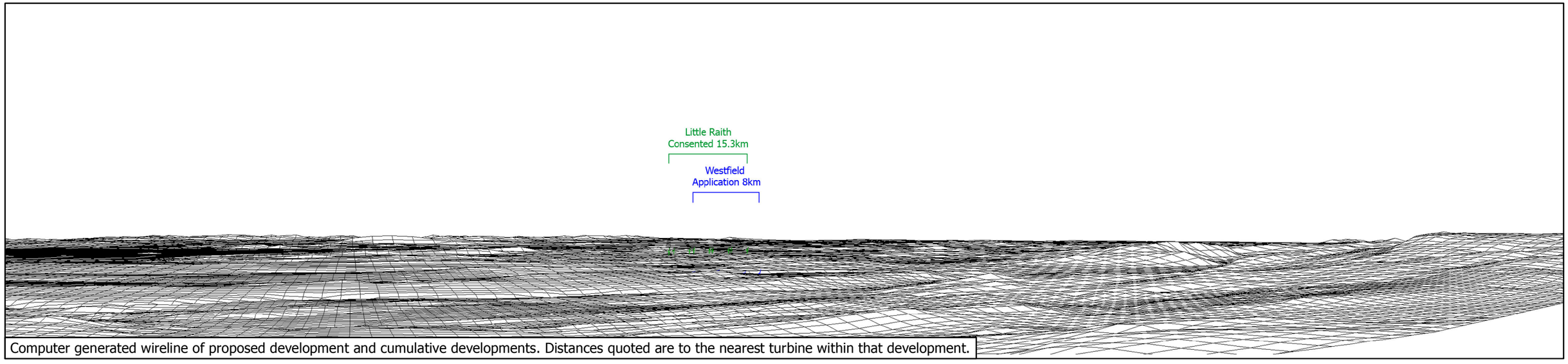
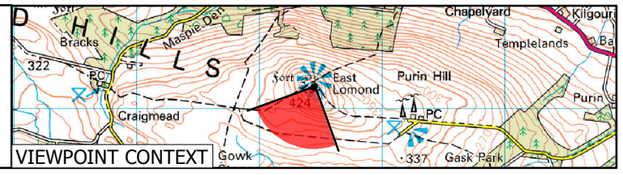


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	324446mE 706174mN
View Direction:	205 degrees
Camera Elevation:	456m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/154 Drawn: TC Reviewed: GC Approved: JH

VP19 - Lomond Hills
Figure 5.16i2

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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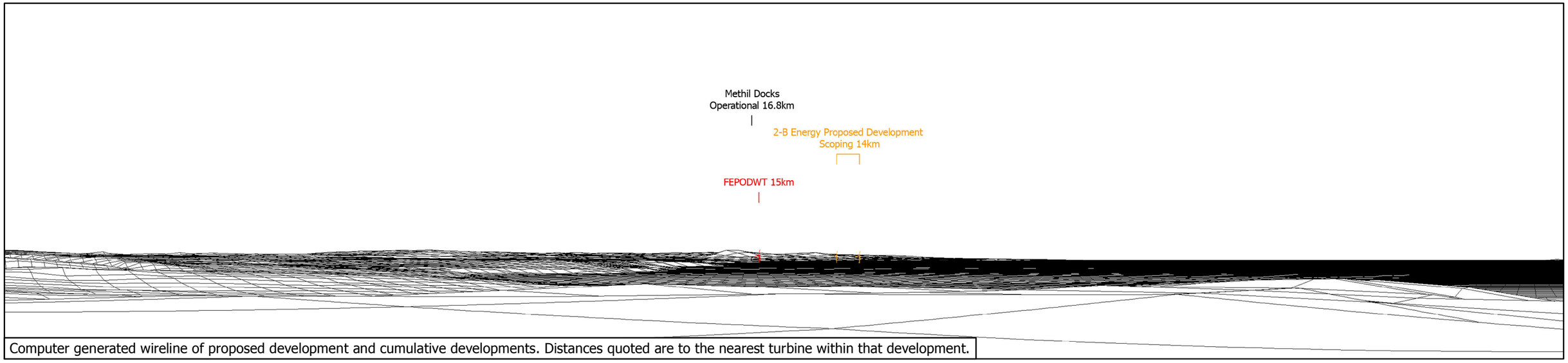
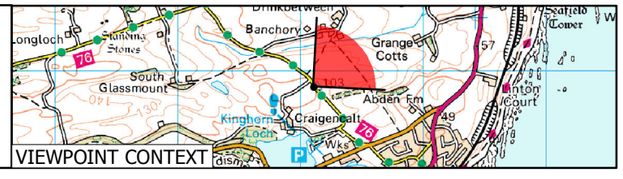


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	326111mE 687867mN
View Direction:	47 degrees
Camera Elevation:	110m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP20 - Local road northwest of Kinghorn
Figure 5.16j1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Ref: 867/ES/155 Drawn: TC Reviewed: GC Approved: JH

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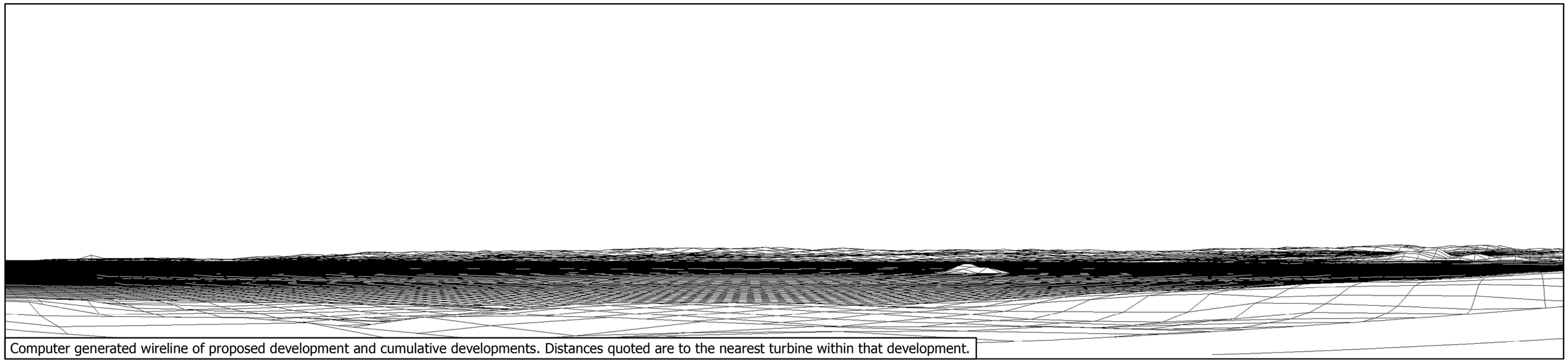
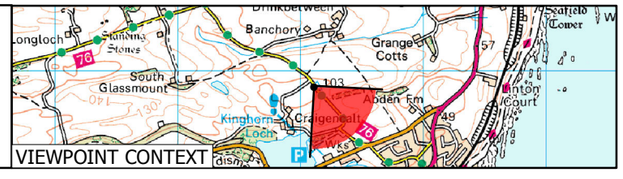


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	326111mE 687867mN
View Direction:	137 degrees
Camera Elevation:	110m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/156 Drawn: TC Reviewed: GC Approved: JH

VP20 - Local road northwest of Kinghorn
Figure 5.16j2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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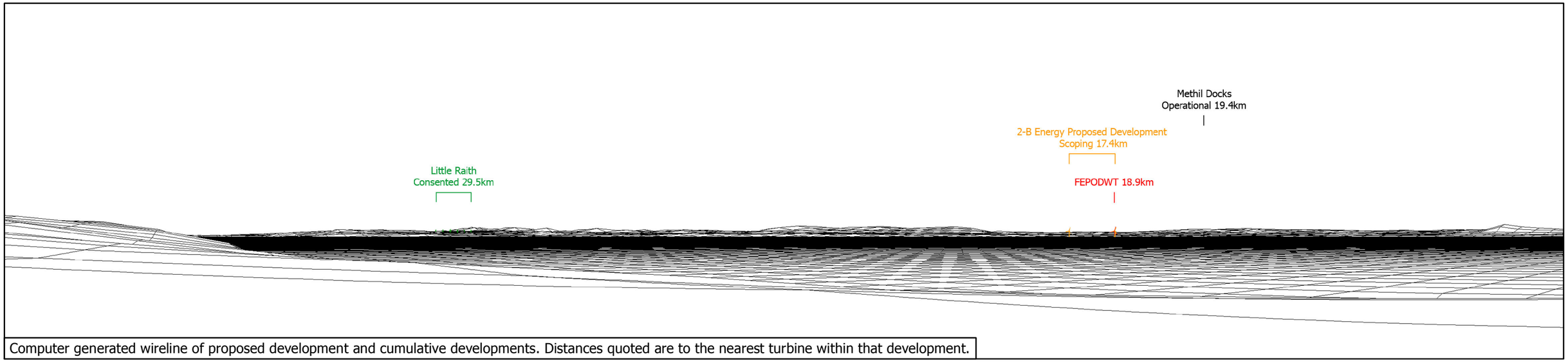
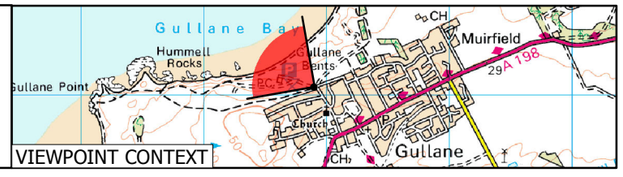


Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	347899mE 683064mN
View Direction:	305 degrees
Camera Elevation:	25m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

VP21 - Gullane. Corner of Marine Terrace and Sandy Loan
Figure 5.16k1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

Ref: 867/ES/157 Drawn: TC Reviewed: GC Approved: JH

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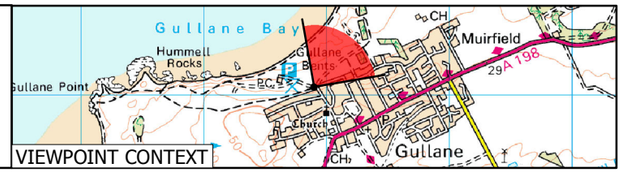
Computer generated wireline of proposed development and cumulative developments. Distances quoted are to the nearest turbine within that development.

Viewpoint Location:	347899mE 683064mN
View Direction:	35 degrees
Camera Elevation:	25m AOD
Horizontal Field of View:	90 degrees



VIEWPOINT CONTEXT

Scottish Enterprise

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Ref: 867/ES/158 Drawn: TC Reviewed: GC Approved: JH

VP21 - Gullane. Corner of Marine Terrace and Sandy Loan
Figure 5.16k2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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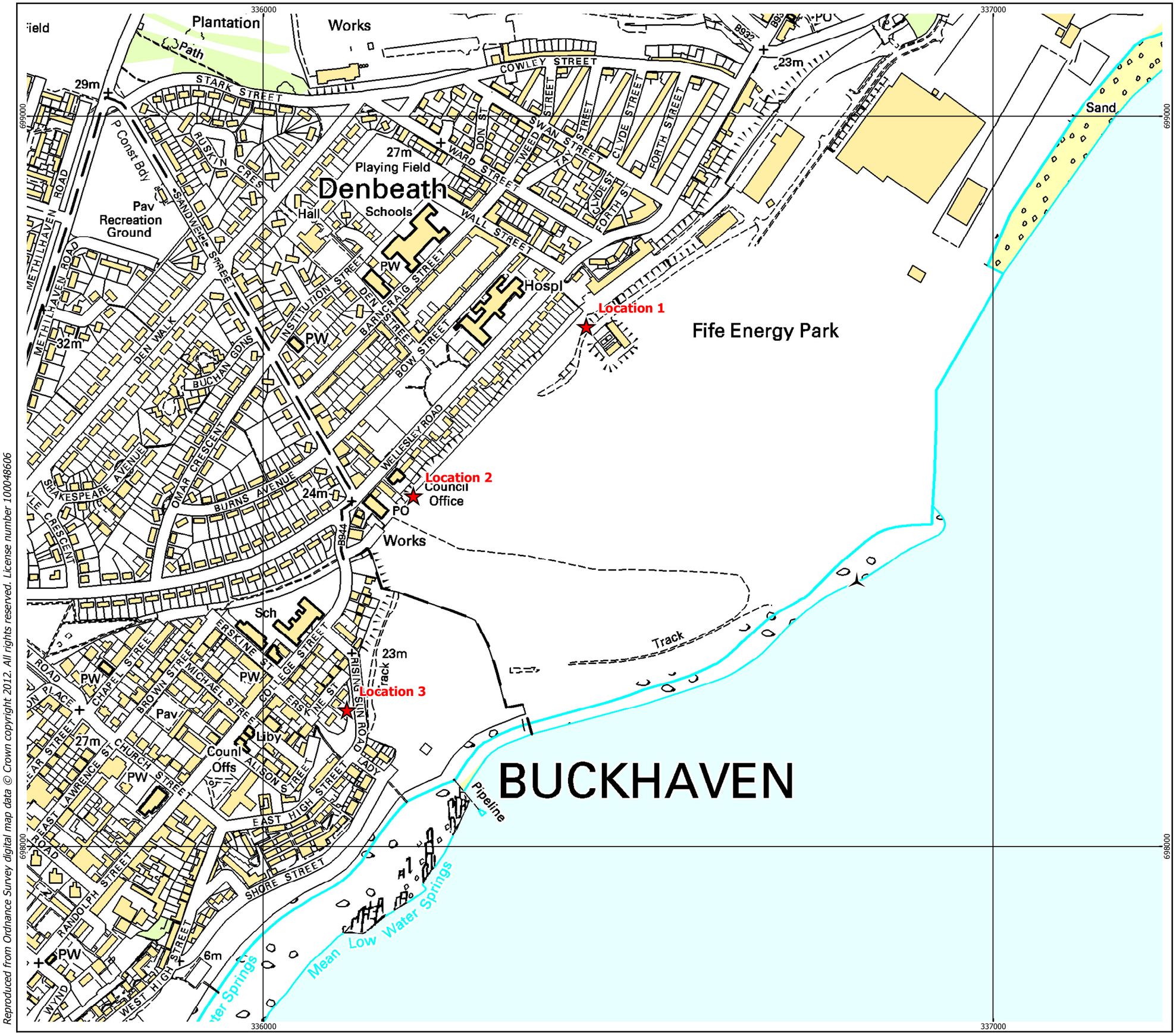

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- Proposed Turbine Location
- Noise Monitoring Location

1:5,000 Scale @ A3

0 100 200 m

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/039 | Revision: A

Date: 12/04/2012

Noise Monitoring Locations
Figrue 6.1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_6.1_Noise_Figure.mxd



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Produced: LHu
Reviewed: SC
Approved: JH

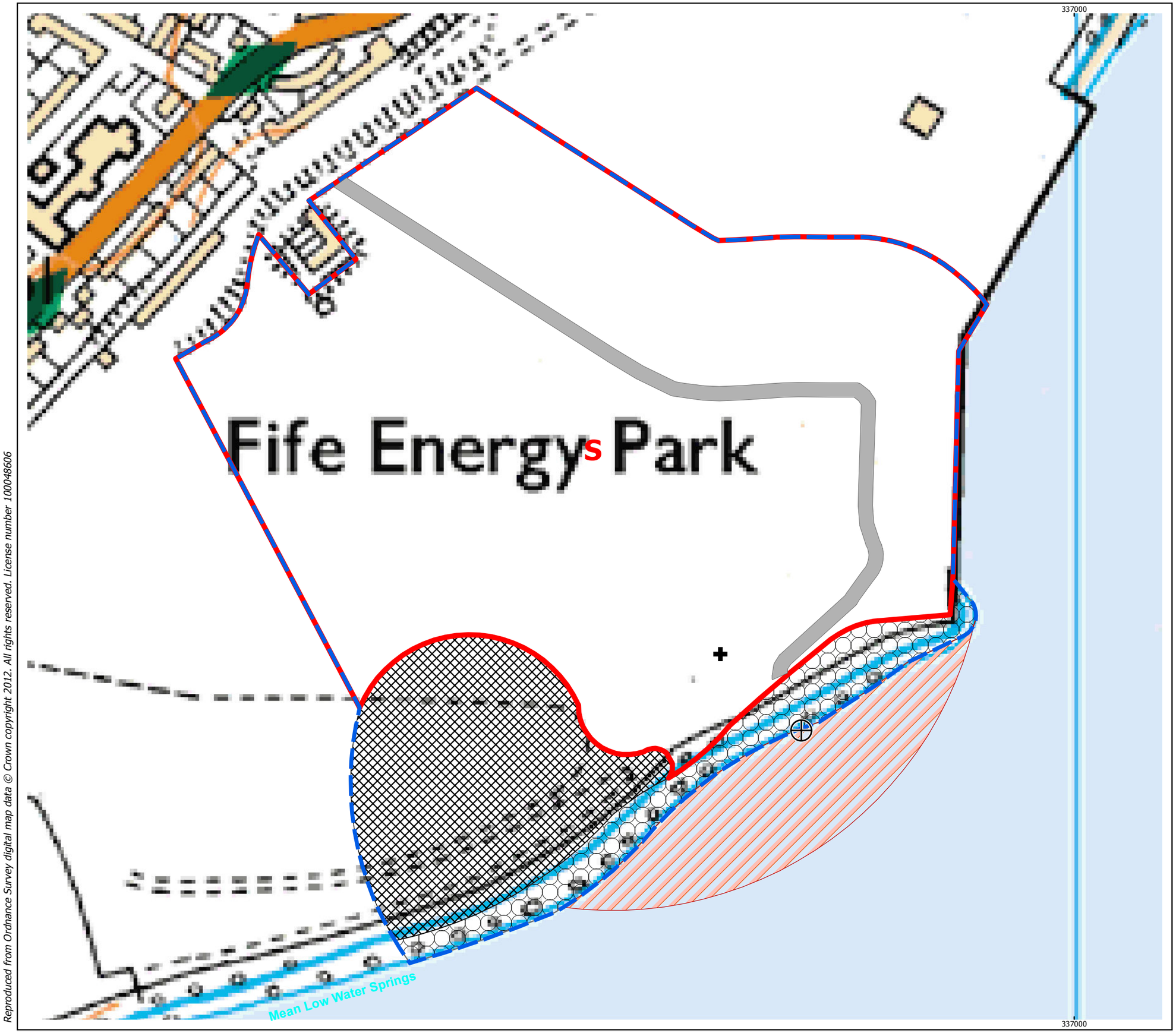
Ref: 867/ES/010 | Revision: A

Date: 13/04/2012

Designated Ecological Sites
Figure 7.1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_7.1_StatandNonStatDesignations.mxd



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- Proposed Turbine Location
- Artificial Access Track
- Lighting Tower
- Survey Area
- Artificial Boulders
- Artificial Ephemeral/Short Perennial
- Artificial Spoil
- Indicative Sand Over Soft Clay 'Natural' Habitat

1:2,500 Scale @ A3

0 50 100 m

N

Produced: LHu
Reviewed: SC
Approved: JH

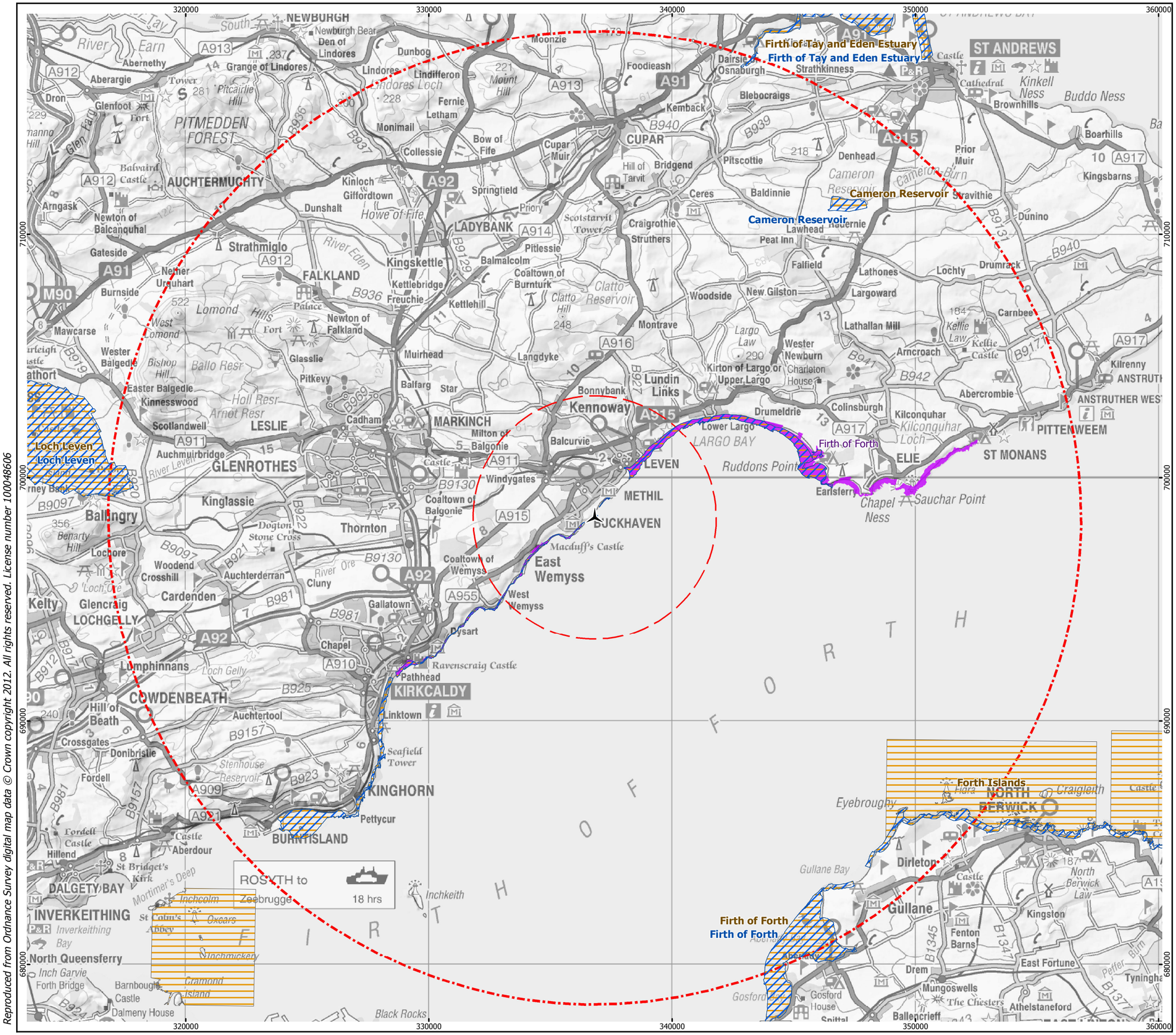
Ref: 867/ES/027 | Revision: A

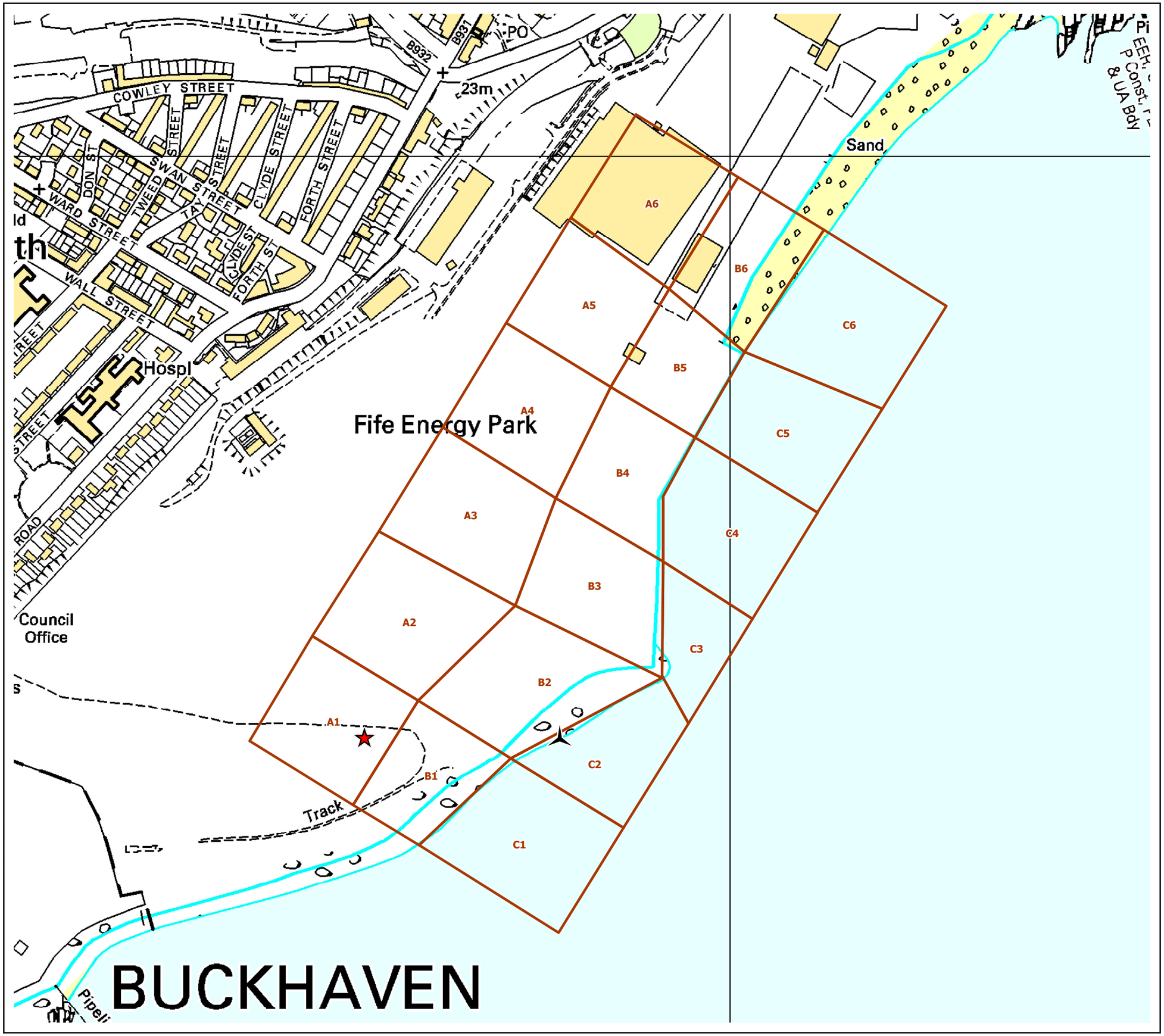
Date: 14/06/2012

Phase 1 Survey Results
Figure 7.2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

C:\Files for remote working\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_7.2_Phase1.mxd


Firth of Tay and Eden Estuary
Firth of Tay and Eden Estuary
Cameron Reservoir
Cameron Reservoir
Firth of Forth
Firth of Forth
Loch Leven
Loch Leven
Forth Islands
ROSYTH to Zeebrugge 18 hrs
F I R T H O F F O R T H
NEWBURGH
ST ANDREWS
CUPAR
AUCHTERMUCHTY
LADYBANK
FALKLAND
KINGHORN
BURNTISLAND
KIRKCALDY
COWDENBEATH
DALGETY BAY
INVERKEITHING
NORTH QUEENSFERRY
GLENROTHES
LESLIE
MARKINCH
LEVEN
METHIL
BUCKHAVEN
EAST WEMYSS
WEST WEMYSS
ELIE
ST MONANS
PITTENWEEM
ANSTRUTHER WEST
NORTH BERWICK
DIRLETON
GULLANE
EARLSFERRY
LARGO BAY
Ruddons Point
Chapel Ness
Sauchar Point
Inchkeith
Inchcolm
Oxcars
Inchmickery
Cramond Island
Black Rocks
Eyebroughy
Gullane Bay
Craigleith
Fidra
Lundin Links
Kennoway
Largo Law
Kellie Law
North Berwick Law
Tarvit
Hill of Tarvit
Bridgend
Pitscottie
Denhead
Prior Muir
Kingsbarns
Boarhills
Buddo Ness
Kinkell Ness
Brownhills
Strathkinness
Dairsie
Osnaburgh
Blebocraigs
Kemback
Foodieash
Moonzie
Dunbog
Lindores
Grange of Lindores
Newburgh Bear
Den of Lindores
Abernethy
Aberargie
Dron
Glenfoot
PITMEDDEN FOREST
Monimail
Collessie
Bow of Fife
Cupar Muir
Springfield
Kinloch
Giffordtown
Dunshalt
Howe of Fife
Arngask
Balvaird Castle
Newton of Balcanquhal
Gateside
Strathmiglo
Nether Urquhart
Burnside
Mawcarse
Wester Balgedie
Easter Balgedie
Kinnesswood
Scotlandwell
Auchmuirbridge
Glasslie
Pitkevy
Muirhead
Balfarg
Star
Cadham
Milton of Balgonie
Windygates
Coaltown of Balgonie
Kinglassie
Ballingry
Lochore
Woodend
Crosshill
Auchterderran
Cardenden
Glencraig
Kelty
LOCHGELLY
Lumphinnans
Loch Gelly
Hill of Beath
Crossgates
Donibristle
Fordell
Auchtertool
Stenhouse Reservoir
Seafield Tower
Pettycur
Hillend
Aberdour
St Bridget's Kirk
St Colm's Abbey
Inverkeithing Bay
Forth Bridge
Barnbougle Castle
Dalmeny House
Dogton
Stone Cross
Thornton
Cluny
Gallatown
Dysart
Ravenscraig Castle
Pathhead
Linktown
Seafield Tower
Macduff's Castle
Coaltown of Wemyss
Auchterderran
Chapel
Loch Ore
Loch Gelly
Lochore
Benarty Hill
Bishop Hill
Ballo Resr
Holl Resr
Arnot Resr
Stenhouse Reservoir
Clatto Reservoir
Clatto Hill
Scotstarvit Tower
Craigrothie
Struthers
Ceres
Baldinnie
Lawhead
Peat Inn
Falfield
Woodside
New Gilston
Largoward
Lathones
Lochty
Drumrack
Carnbee
Lathallan Mill
Arncroach
Kilconquhar
Kilconquhar Loch
Colinsburgh
Drumeldrie
Lower Largo
Upper Largo
Kirton of Largo or Charleton House
Wester Newburn
Montrave
Woodside
Falfield
Peat Inn
Lawhead
Cameron Reservoir
Stravithie
Dunino
Kilrenny
Abercrombie
Fenton Barns
Drem
East Fortune
Tyninghame
Mungoswells
The Chesters
Athelstaneford
Ballencrieff
Gosford House
Spittal
Fast Castle Head
Castle
Kellie Castle
Tower
Cathedral
Castle
Priory
Scotstarvit Tower
Seafield Tower
Ravenscraig Castle
Macduff's Castle
Castle
Castle



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- Proposed Turbine Location
- Vantage Point
- Summary Survey Area

1:4,000 Scale @ A3

0 100 200 m

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/029 | Revision: A

Date: 18/04/2012

Activity Summary Area
Figure 8.2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_8.2_Activity_Summary_Area.mxd

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335000 336000 337000 338000

700000 699000 698000 697000

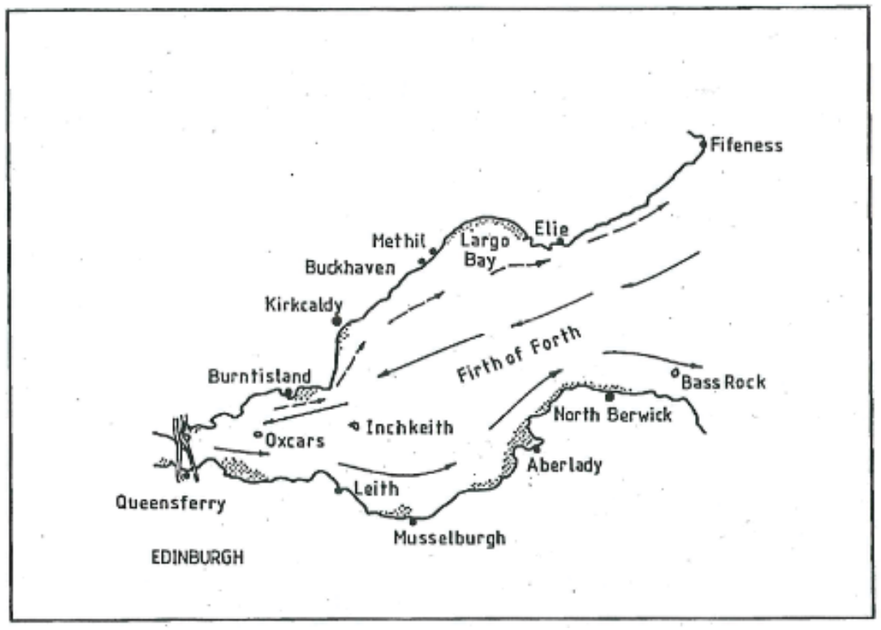

Figure 9.1a: Overall Water Circulation in the Firth of Forth: Dotted arrows indicate that flow coulr be present when the water near the north coast is stratified (Dyke, 1987)

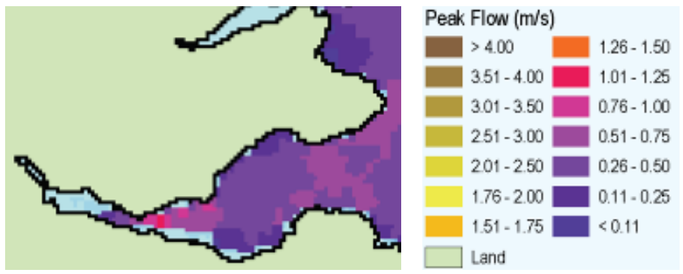

Figure 9.1b: Peak Flow during a Mean Spring Tide (BERR, 2008)

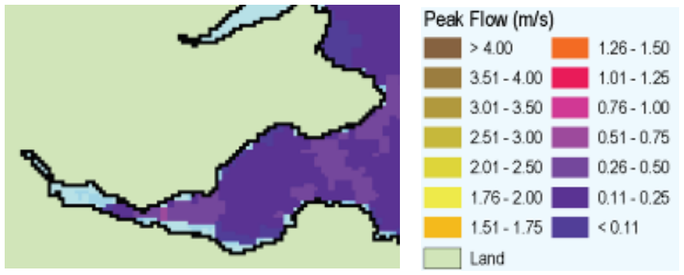

Figure 9.1b: Peak Flow during a Mean Neap Tide (BERR, 2008)

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N

Not to Scale

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/026 | Revision: A

Date: 21/03/2012

Tidal Flows
Figure 9.1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\TidalFlowsTemplate.mxd

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- Proposed Turbine Location
- 2km Buffer of Turbine
- 5km Buffer of Turbine
- Site of Specific Scientific Interest

1:40,000 Scale @ A3

0 1 2 km

N

Produced: LHu
Reviewed: SC
Approved: JH

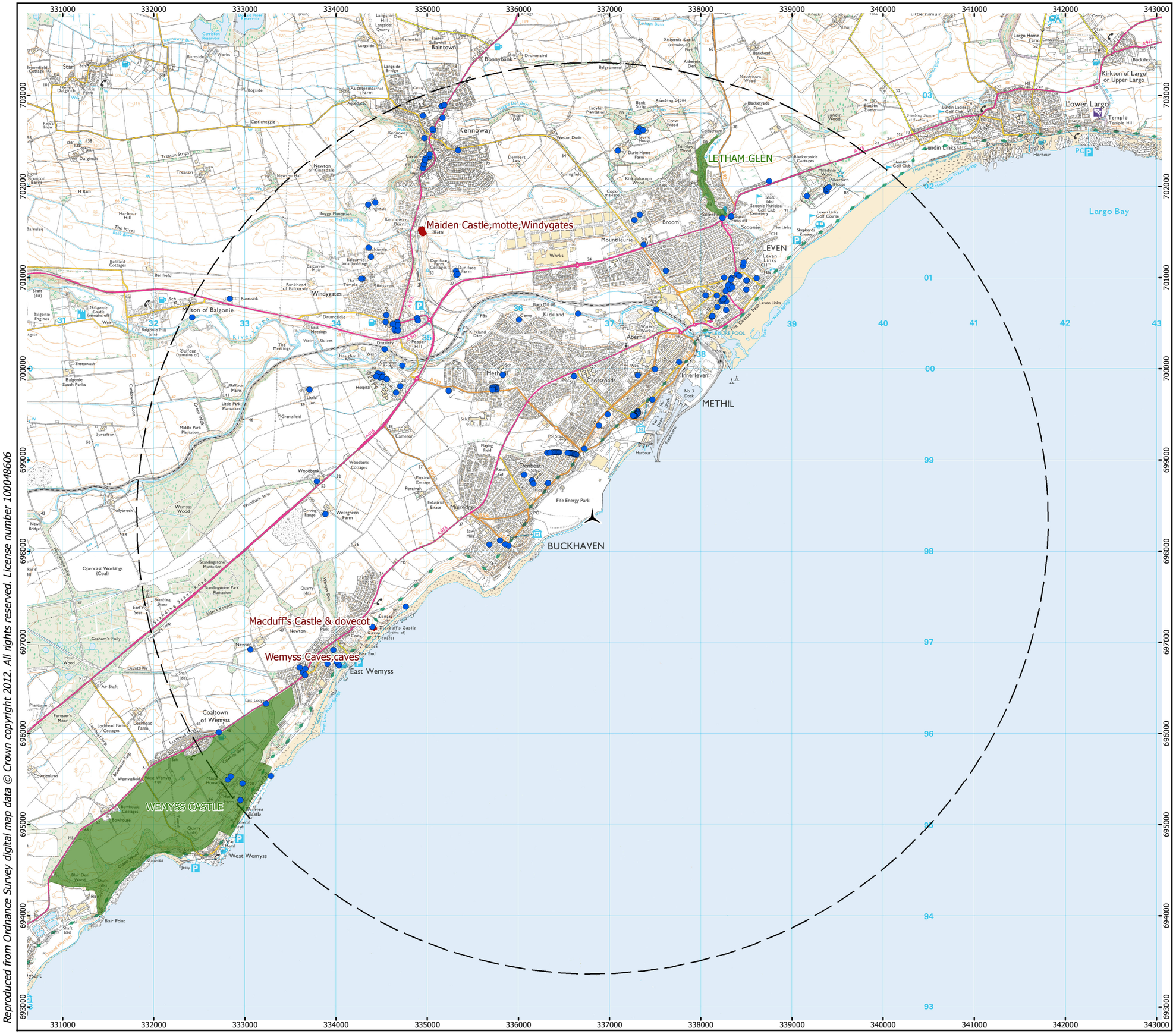
Ref: 867/ES/010 | Revision: A

Date: 14/06/2012

Designated Hydrological Sites
Figure 9.2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_9.2_Designated_Hydrological_Sites_20120614.mxd



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Scottish Enterprise

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- Proposed Turbine Location
- Listed Building
- 5km Buffer of Turbine Location
- Scheduled Monument
- Garden Designed Landscape

1:40,000 Scale @ A3

0 1 2 km

N

Produced: LHu
Reviewed: SC
Approved: JH

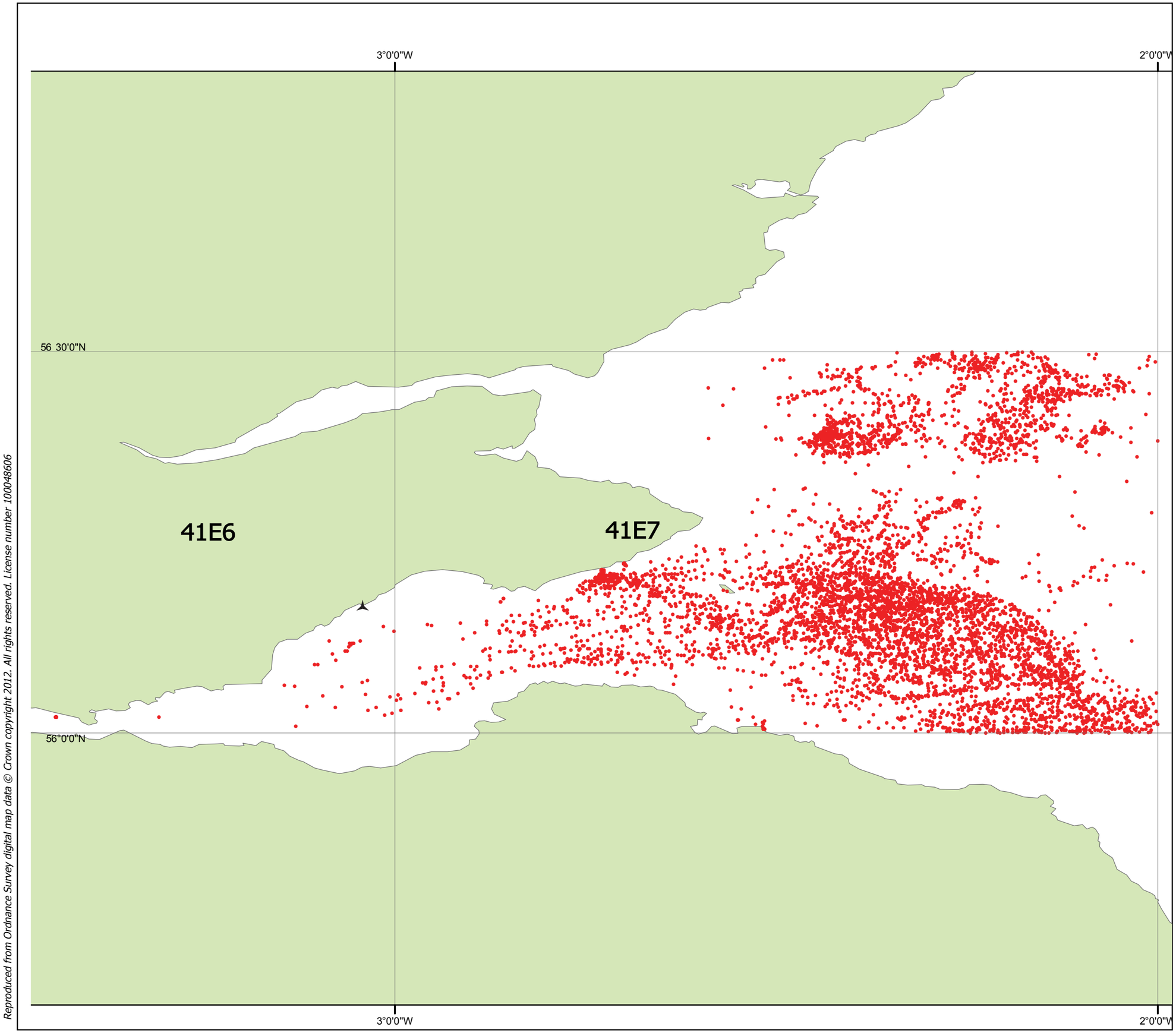
Ref: 867/ES/028 | Revision: A

Date: 13/04/2012

Cultural Heritage Features within 5km
Figure 10.1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_10.1_CulturalHeritageFeatureswithin5km.mxd



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Proposed Turbine Location

Note: Vessel Monitoring System (VM0S) fishing pings by UK vessels in ICES Rectangle 41E6 and adjoining ICES Rectangle 41E7. Data based on fishing vessel pings from the VMS on board fishing vessels of 15 metres or more in length. Data obtained from the Sea Fisheries Division of the Scottish Government.

N

Not to Scale

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ENV/025 | Revision: A

Date: 21/03/2012

Fishing Activity
Figure 12.1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

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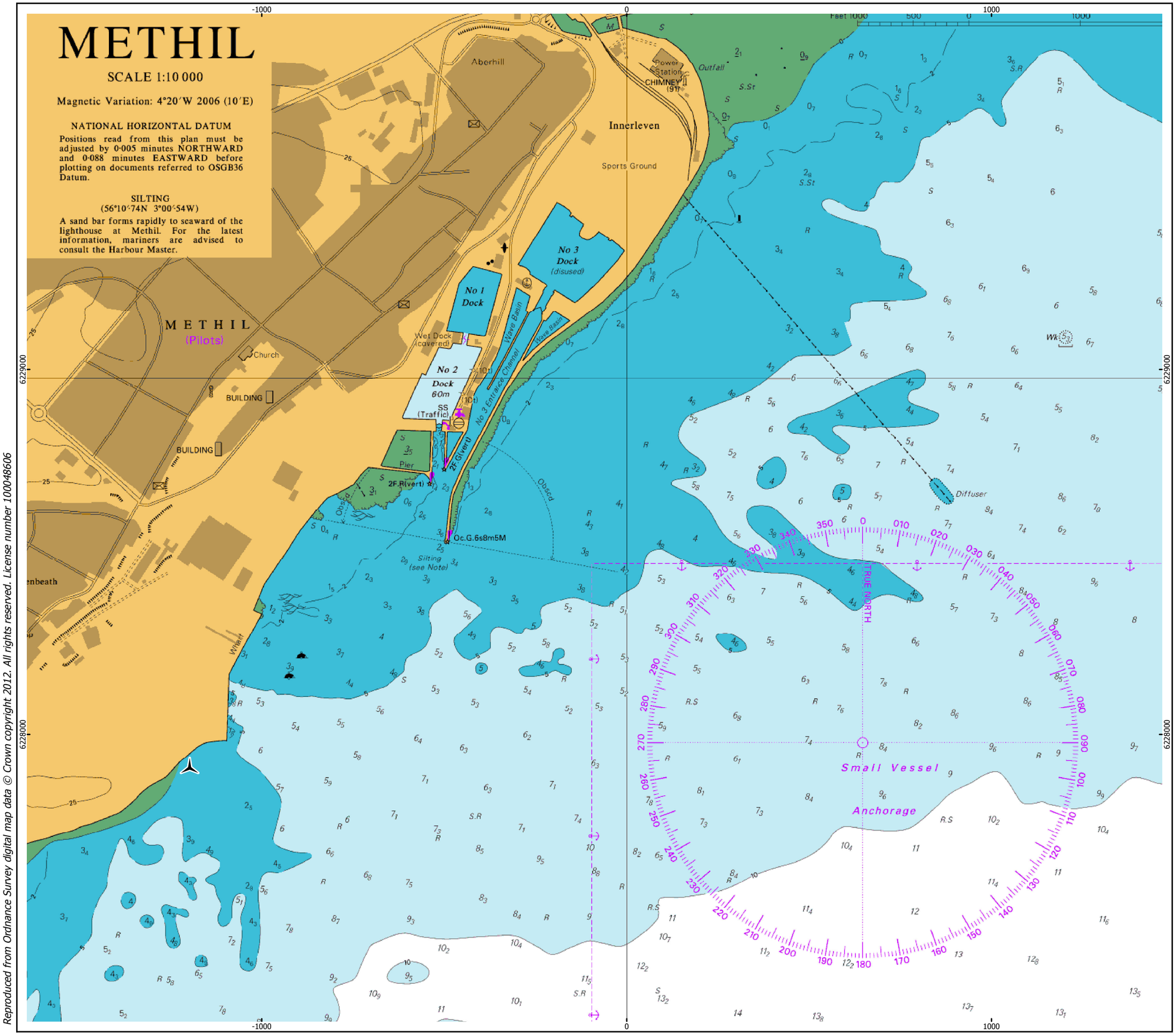

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Proposed Turbine Location

1:10,000 Scale @ A3

0 250 500 m

N

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867/ES/024 | Revision: A

Date: 13/04/2012

Admiralty Chart
Figure 12.2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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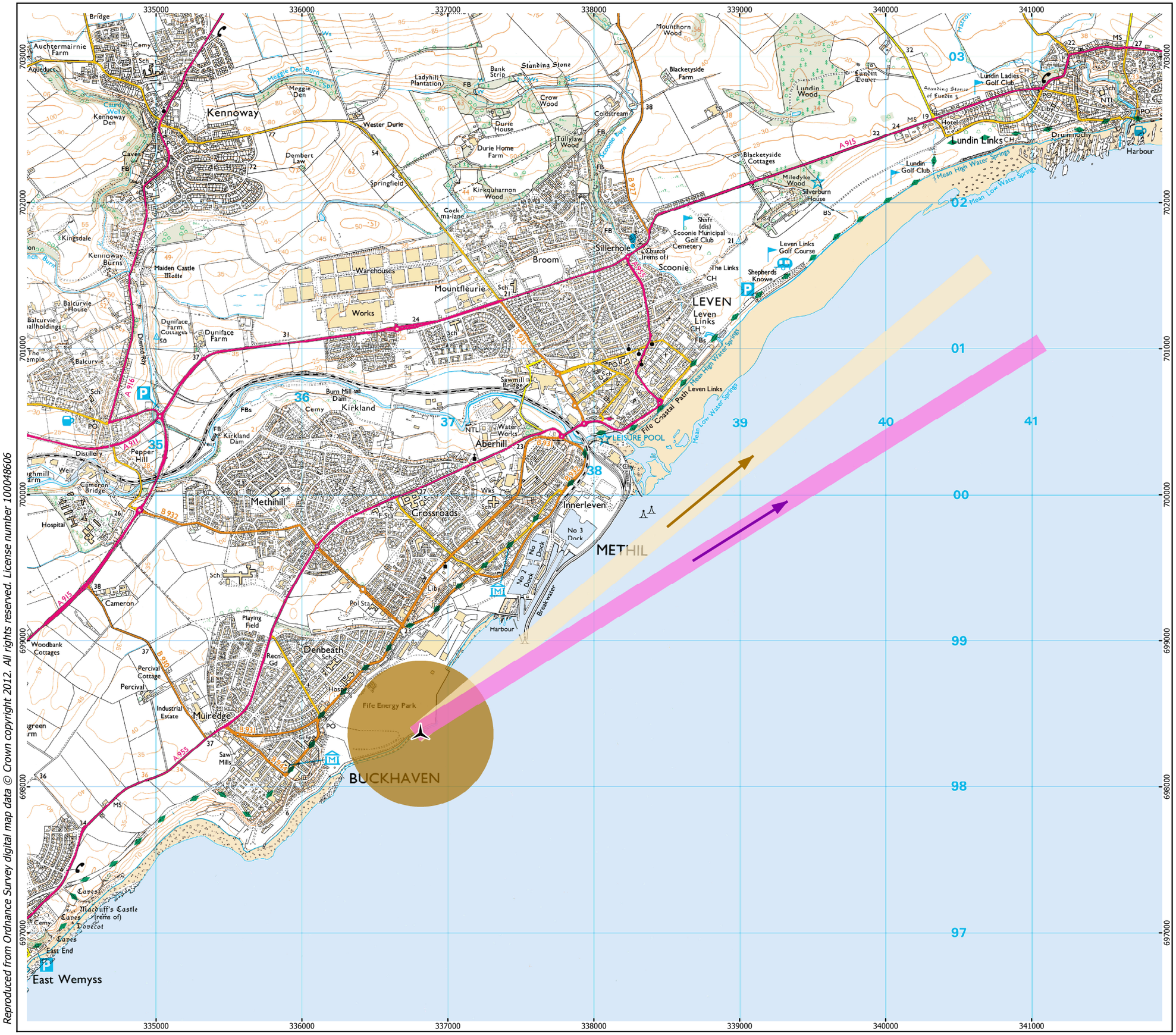

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- Proposed Turbine Location
- 500m Radius of Turbine
- Zone of Potential Interference on Transmissions from Blackhill
- Zone of Potential Interference on Transmissions from Craigkelly
- Direction of Transmissions from Blackhill
- Direction of Transmissions from Craigkelly

1:25,000 Scale @ A3

0 0.5 1 km

N

Produced: LHu
Reviewed: SC
Approved: JH

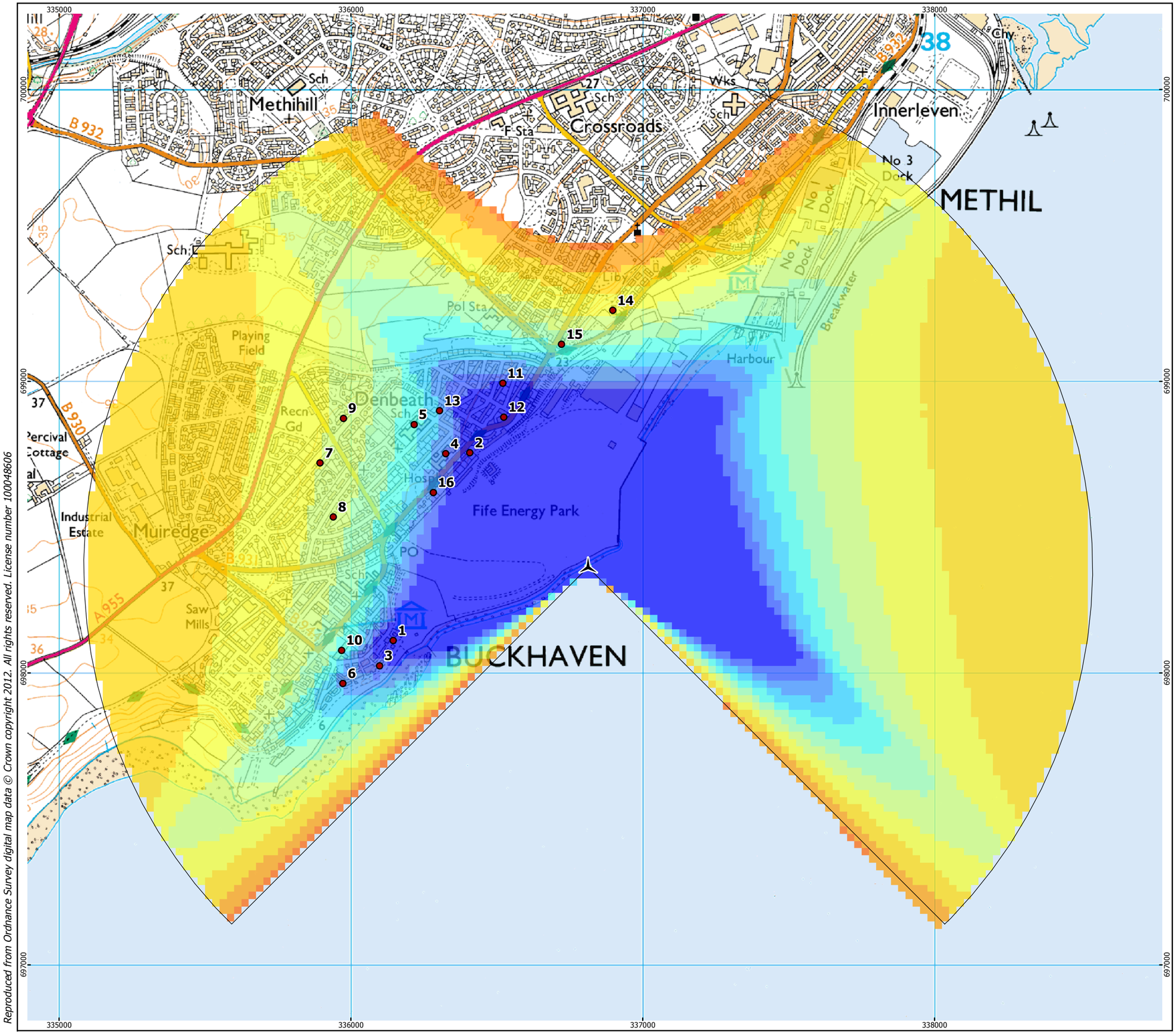
Ref: 867/ES/031 | Revision: A

Date: 28/03/2012

Potential TV Interference
Figure 13.1

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_13.1_Zone_of_Potential_Shadow_Flicker.mxd



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Proposed Turbine Location

Shadow Flicker Study
Area 1720m (10x Rotor Diameter)

Shadow Flicker Hours Per Annum

- 0
- 0 - 1
- 1 - 10
- 10 - 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 60 - 70
- 70 - 80
- 80 - 90
- 90 - 100

Assessment Locations

1 Lady Wynd	8 Omar Crescent
2 Wellesley Road	9 Den Walk
3 Bethune Way	10 Braehead Gardens
4 Randolph Wemyss Memorial Hospital	11 Clyde Street
5 Denbeath Primary School	12 Wellesley Road
6 Anderson Lane	13 Ward Street
7 Den Walk	14 Swan Court
	15 Swan View
	16 Wellesley Road

1:12,500 Scale @ A3

0 250 500 m

N

Produced: LHu
Reviewed: SC
Approved: JH

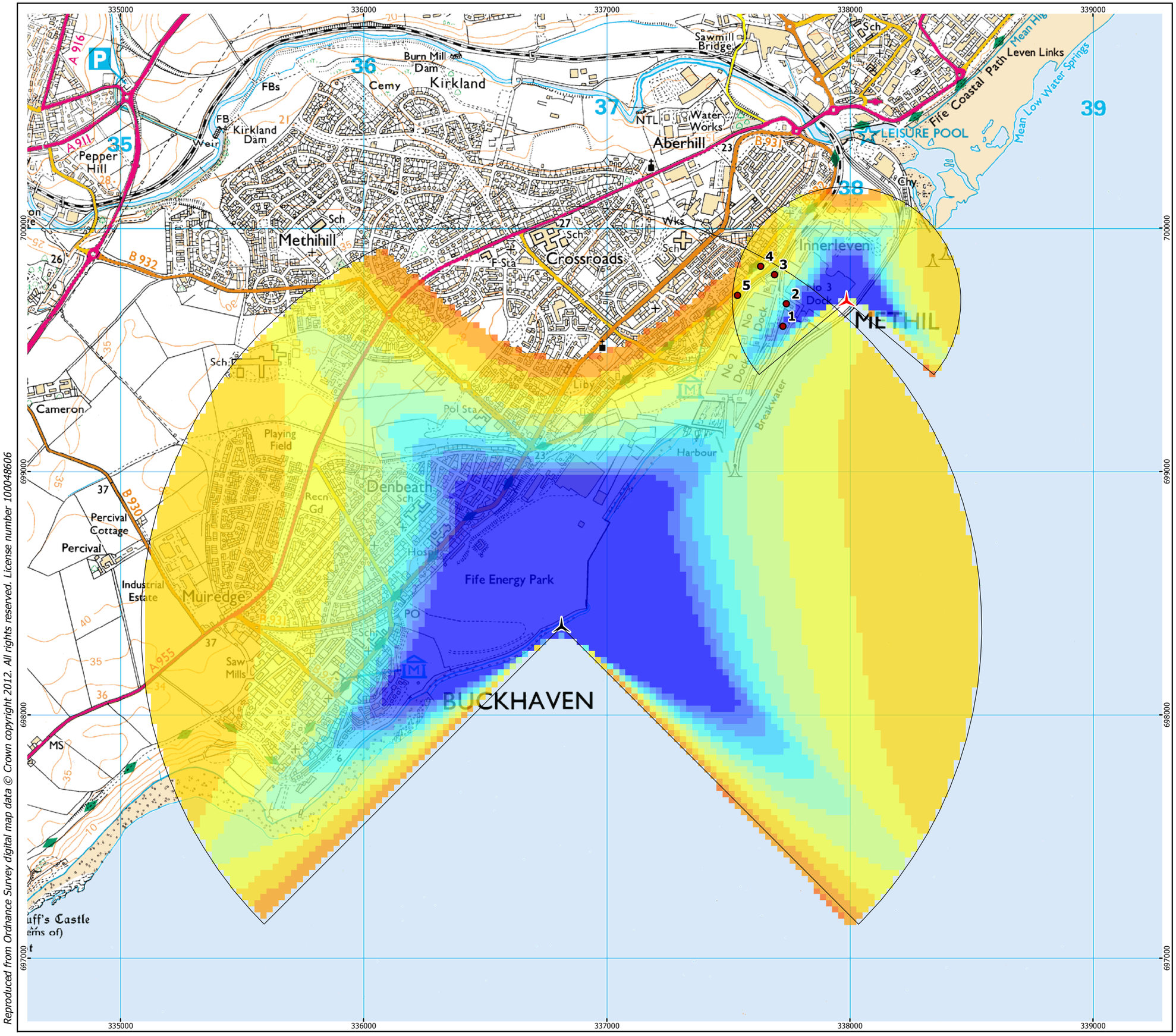
Ref: 867/ES/012 | Revision: A

Date: 02/07/2012

Potential Shadow Flicker Effects
Figure 14.1

Fife Energy Park
Offshore Demonstration
Wind Turbine (FEPODWT)

P:\Projects\867 Methill Test Site\MXDs\ES MXDs\Methil_Figure_14.1_Shadow_Flicker_20120316.mxd



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- Proposed Turbine Location
- Methil Docks Turbine
- Shadow Flicker Study Area
  - Methil 1720m (10x Rotor Diameter)
  - Methil Docks (10x Rotor Diameter)

Shadow Flicker Hours Per Annum

- 0
- 0 - 1
- 1 - 10
- 10 - 20
- 20 - 30
- 30 - 40
- 40 - 50
- 50 - 60
- 60 - 70
- 70 - 80
- 80 - 90
- 90 - 100

Assessment Locations
1 Wemyss Place
2 Pinpoint Ltd
3 Harbour View
4 High Street
5 South Street

1:15,000 Scale @ A3

0 290 580 m

N

Produced: LHu
Reviewed: SC
Approved: JH

Ref: 867/ES/030 | Revision: A

Date: 11/07/2012

Potential Cumulative Shadow Flicker Effects

Figure 14.2

Fife Energy Park Offshore Demonstration Wind Turbine (FEPODWT)

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