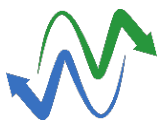



0	15.04.2015	IFU – Issued for Use	AFF	FIH	RIB
Revision	Issue Date	Reason for Issue / Change	Author	Reviewer	Approver

NORTHCONNECT
INTERCONNECTOR CONVERTER STATION AND HIGH
VOLTAGE ALTERNATING CURRENT CABLE ROUTE
ENVIRONMENTAL STATEMENT VOLUME 4
DRAWINGS PART I

Document Originator	Project Name: NorthConnect	Total Pages
NorthConnect KS		
	NCT Document Number	
Originator Logo	NCFFS-NCT-X-RA-0006	28
	 Co-financed by the European Union Connecting Europe Facility	

**NorthConnect
Interconnector Converter Station
and
High Voltage Alternating Current
Cable Route**

**Environmental Statement
Volume 4
Drawings
April 2015**

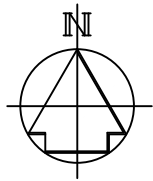
ECO



agder energi

VATTENFALL 

NO MORE WATERCOURSES
GO THROUGH THE RED LINE
BOUNDARY AFTER THIS POINT



RED LINE BOUNDARY

Braeside
Trout
Fishery

- Standing Water
- Standing Water
- Standing Water
- Standing Water
- Standing Water

Den Dam
(Ref No. 4343)

CONVERTER STATION SITE

RED LINE BOUNDARY

RED LINE BOUNDARY

Unnamed
Burn

BODDAM

PETERHEAD

BODDAM

SITE

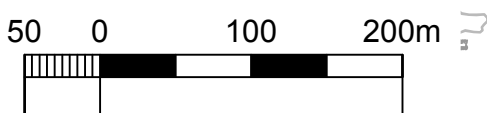
LOCATION PLAN

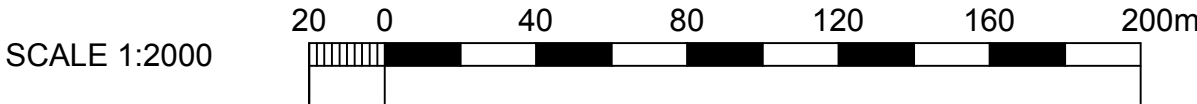
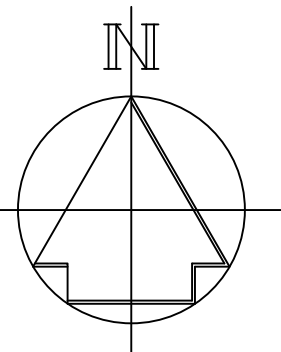
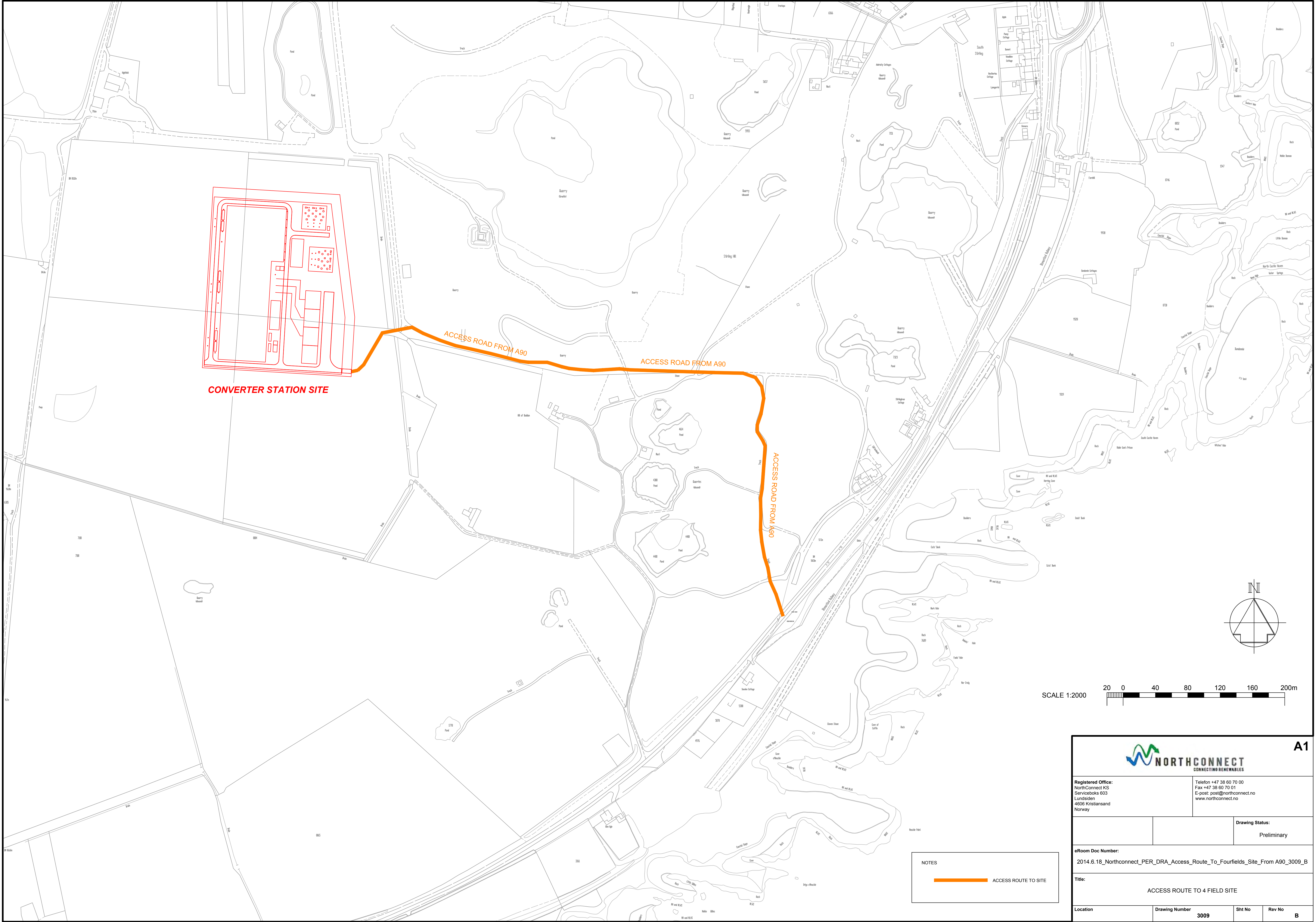


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Registered Office: NorthConnect KS Serviceboks 603 Lundsiden 4606 Kristiansand Norway		Telefon +47 38 60 70 00 Fax +47 38 60 70 01 E-post: post@northconnect.no www.northconnect.no	
		Drawing Status: Preliminary	
eRoom Doc Number: 2014.6.18_Northconnect_PER_DRA_Watercourses Within Project Area_3008_C			
Title: WATERCOURSES IN PROJECT VICINITY			
Location	Drawing Number 3008	Sht No	Rev No C


SCALE 1:5000





NOTES

ACCESS ROUTE TO SITE



A1

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Drawing Status:
Preliminary

eRoom Doc Number:
2014.6.18_Northconnect_PER_DRA_Access_Route_To_Fourfields_Site_From A90_3009_B

Title:
ACCESS ROUTE TO 4 FIELD SITE

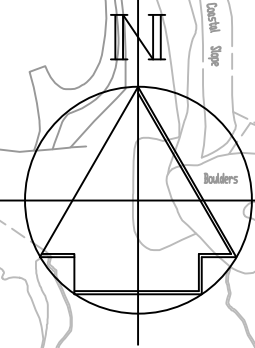
Location

Drawing Number
3009

Sht No


Rev No
B

© Miles Gordon & co 2014

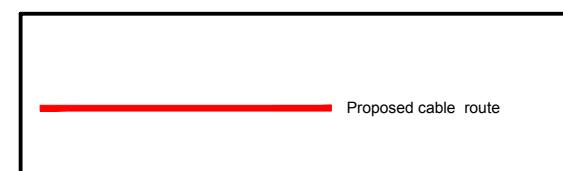
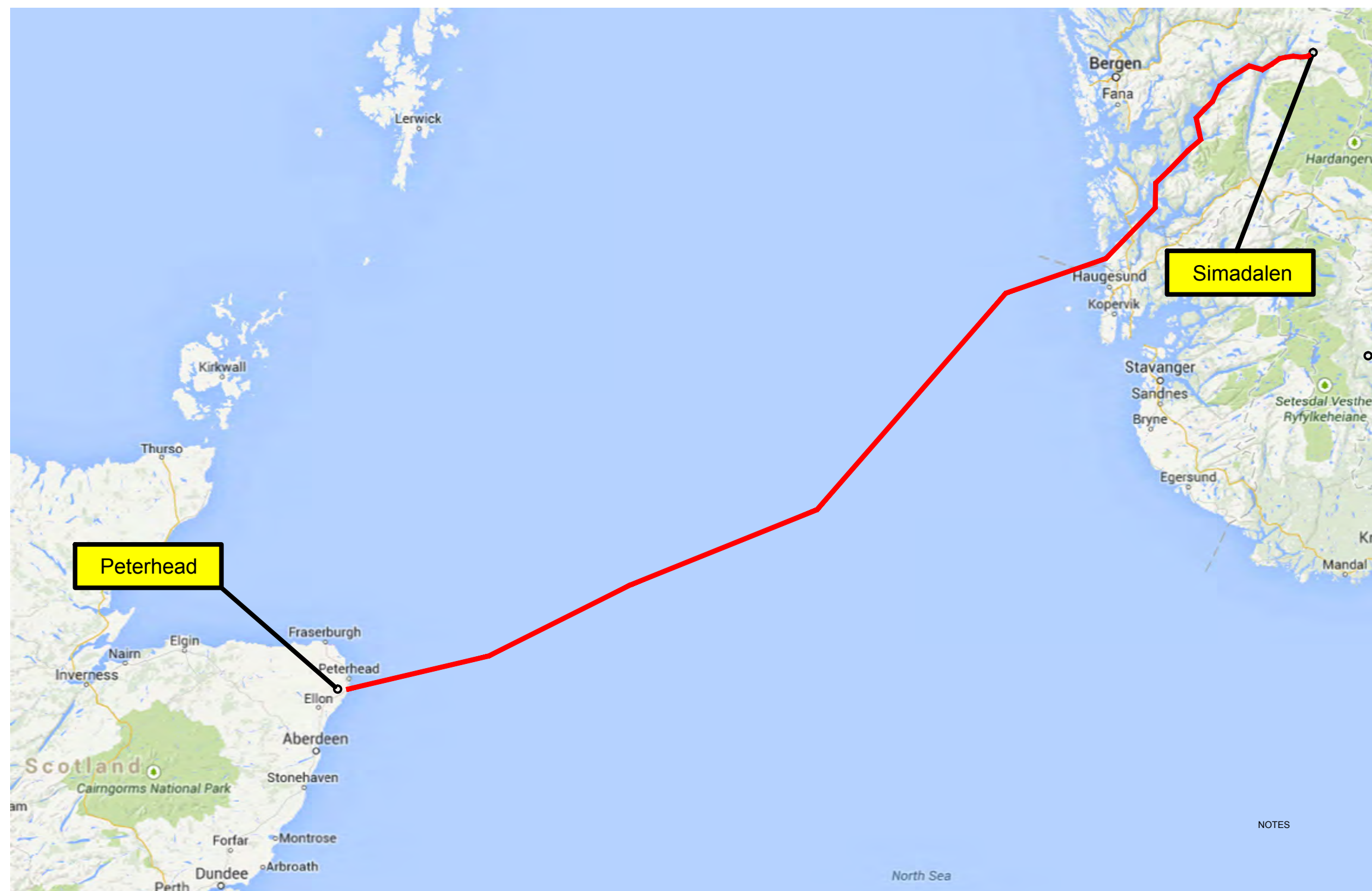



POTENTIAL FOR LAYDOWN

NOTES


 SITE LAYDOWN AREAS

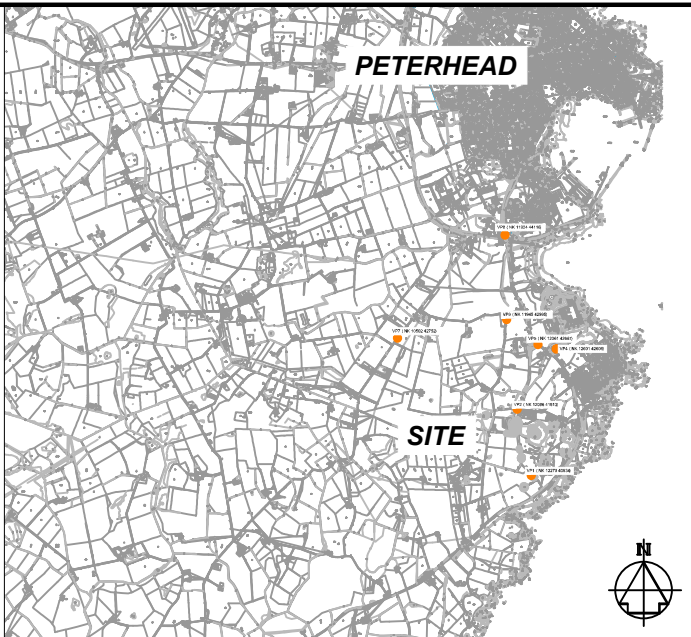
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Title: PROPOSED SITE LAYDOWN AREAS					
Location	Drawing Number 3012	Sht No	Rev No		



 NORTHCONNECT CONNECTING RENEWABLES				A3	
Registered Office: NorthConnect KS Serviceboks 603 Lundsiden 4606 Kristiansand Norway			Telefon +47 38 60 70 00 Fax +47 38 60 70 01 E-post: post@northconnect.no www.northconnect.no		
			Drawing Status:		
eRoom Doc Number: 2014.6.18_Northconnect_PER_DRA_Overview Map_3013_A					
Title: OVERVIEW MAP					
Location		Drawing Number		Sht No	Rev No
		3013			A



		A3	
Registered Office: NorthConnect KS Serviceboks 603 Lundsiden 4606 Kristiansand Norway		Telefon +47 38 60 70 00 Fax +47 38 60 70 01 E-post: post@northconnect.no www.northconnect.no	
		Drawing Status:	
eRoom Doc Number: 2014.6.18_Northconnect_PER_DRA_Fourfields Location_3014_A			
Title: FOURFIELDS LOCATION PLAN			
Location	Drawing Number 3014	Sht No	Rev No A



LOCATION PLAN

KEY

● View point



A3

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Norway

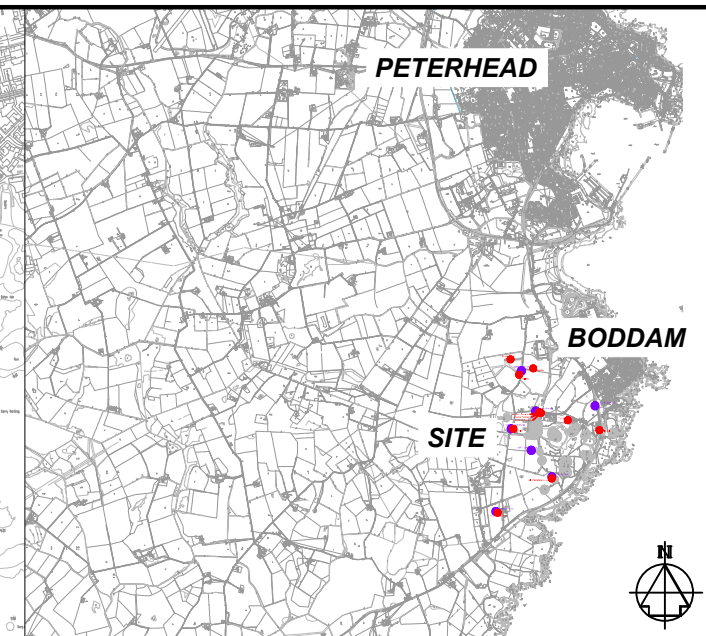
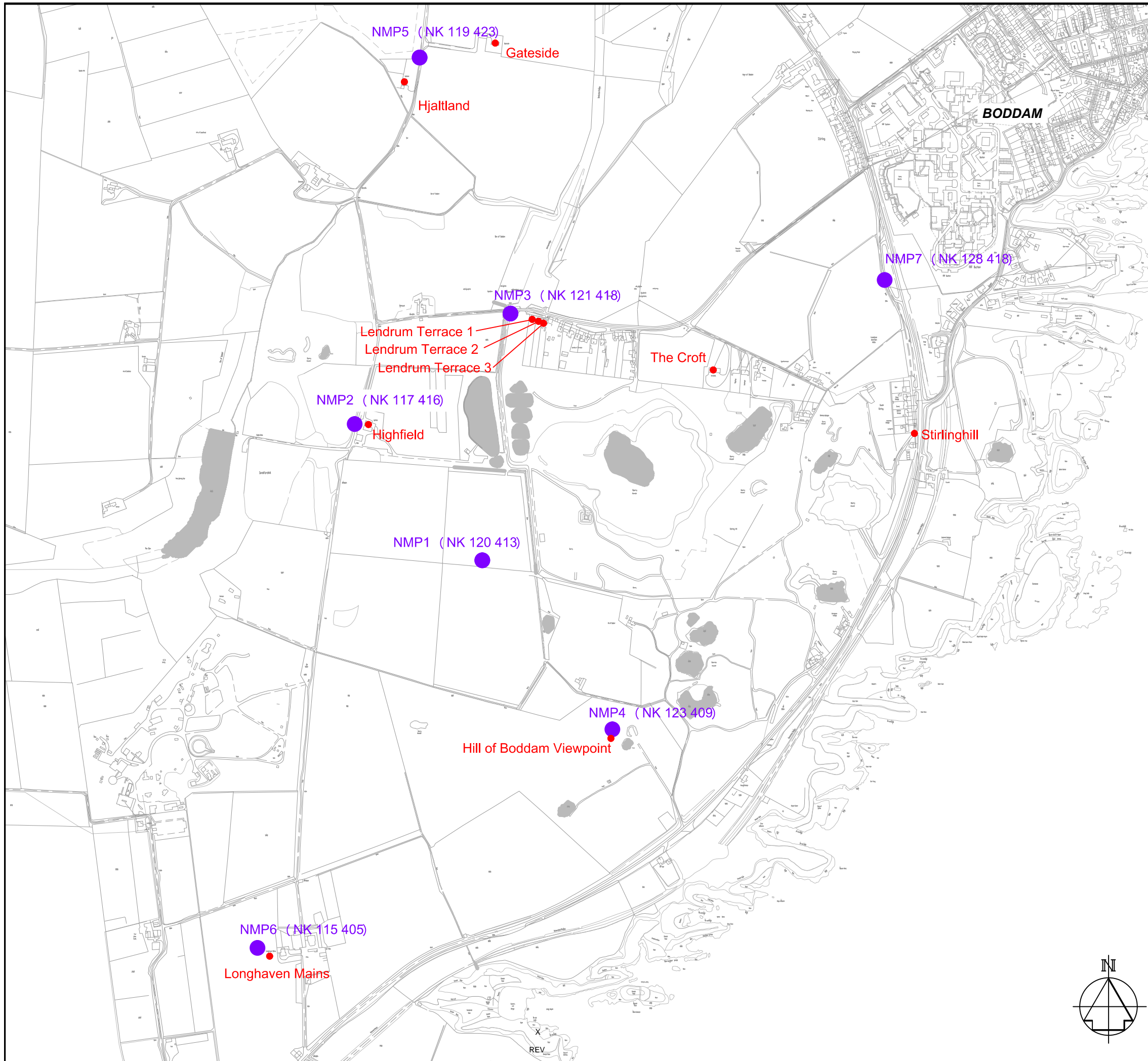
Telefon +47 38 60 70 00
Fax +47 38 60 70 01
E-post: post@northconnect.no
www.northconnect.no

Drawing Status:

eRoom Doc Number:
2014.6.18_Northconnect_PER_DRA_View Point Locations_3015_B

Title:
VIEW POINT LOCATIONS

Location	Drawing Number 3015	Sht No	Rev No B
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LOCATION PLAN

- Noise Monitoring Point
- Noise Sensitive Receptors



A3

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Norway

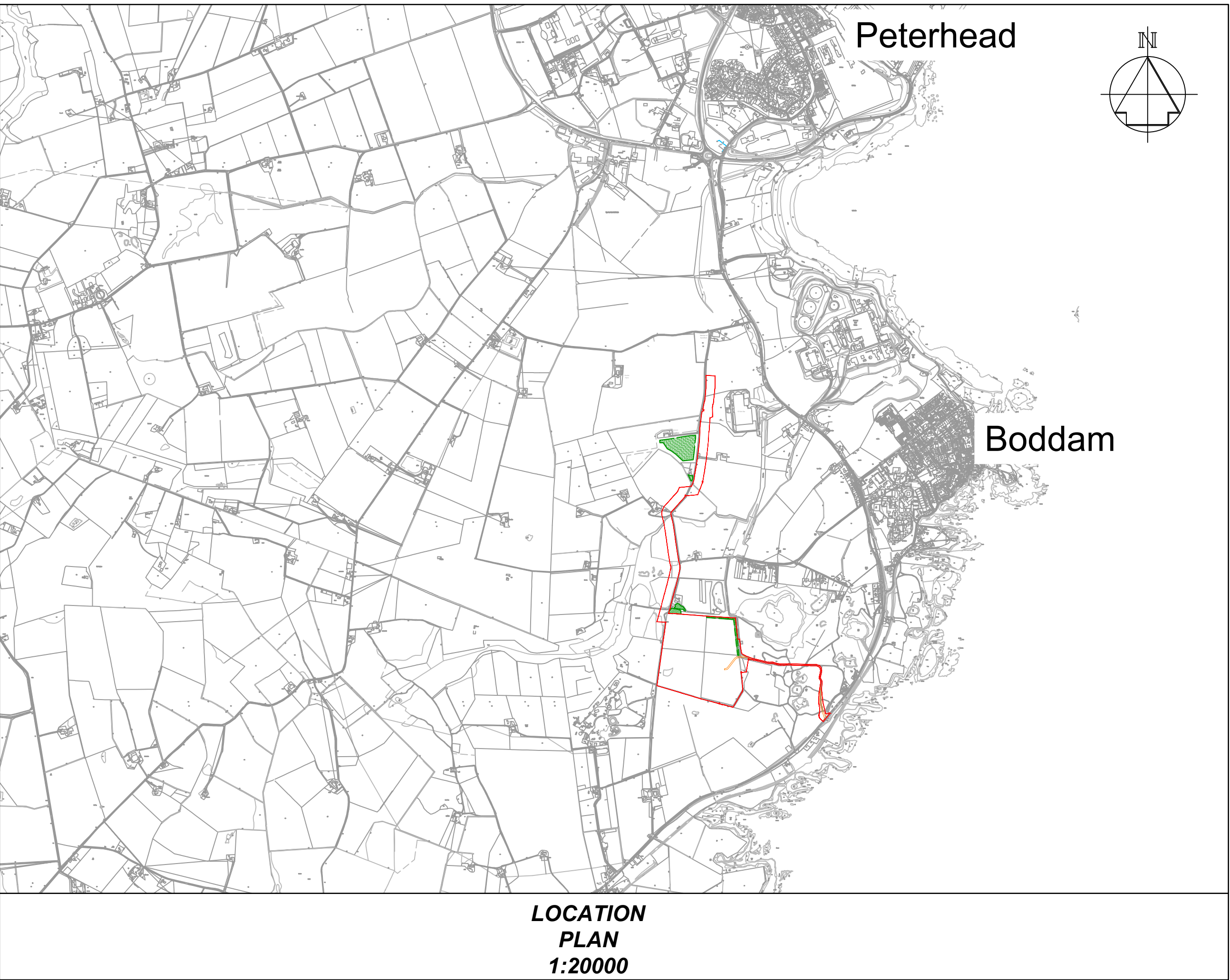
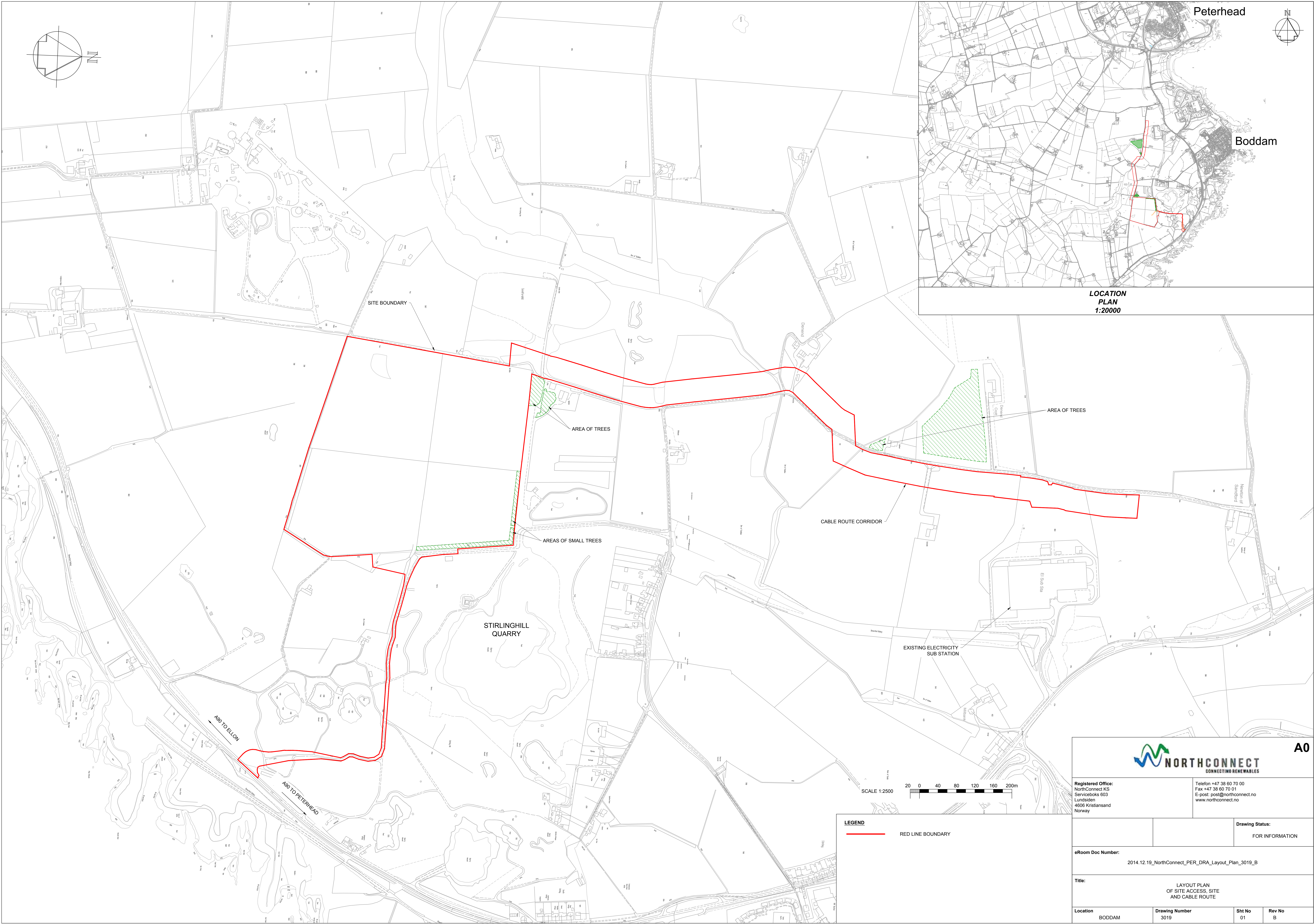
Telefon +47 38 60 70 00
Fax +47 38 60 70 01
E-post: post@northconnect.no
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Drawing Status:
Preliminary

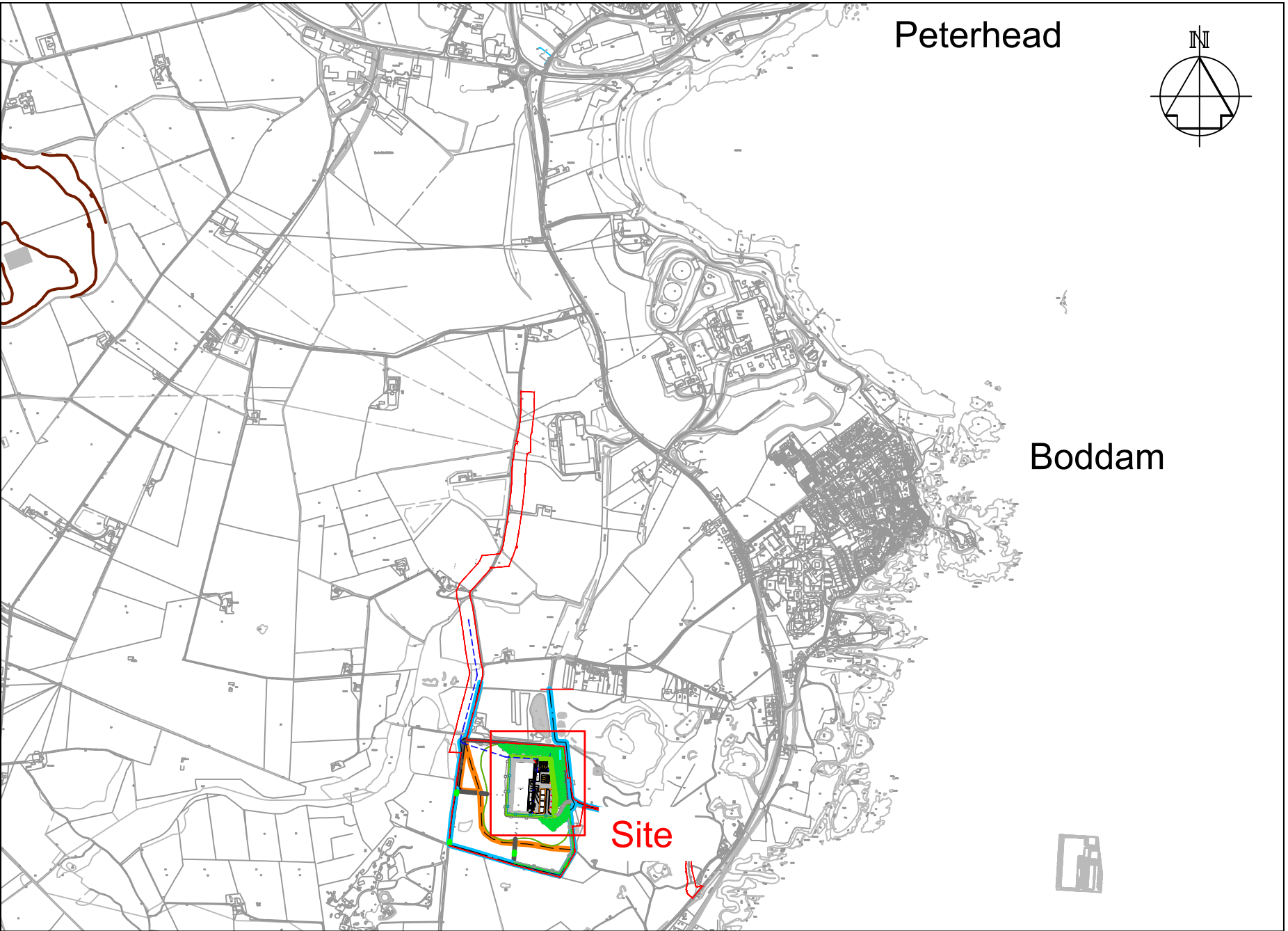
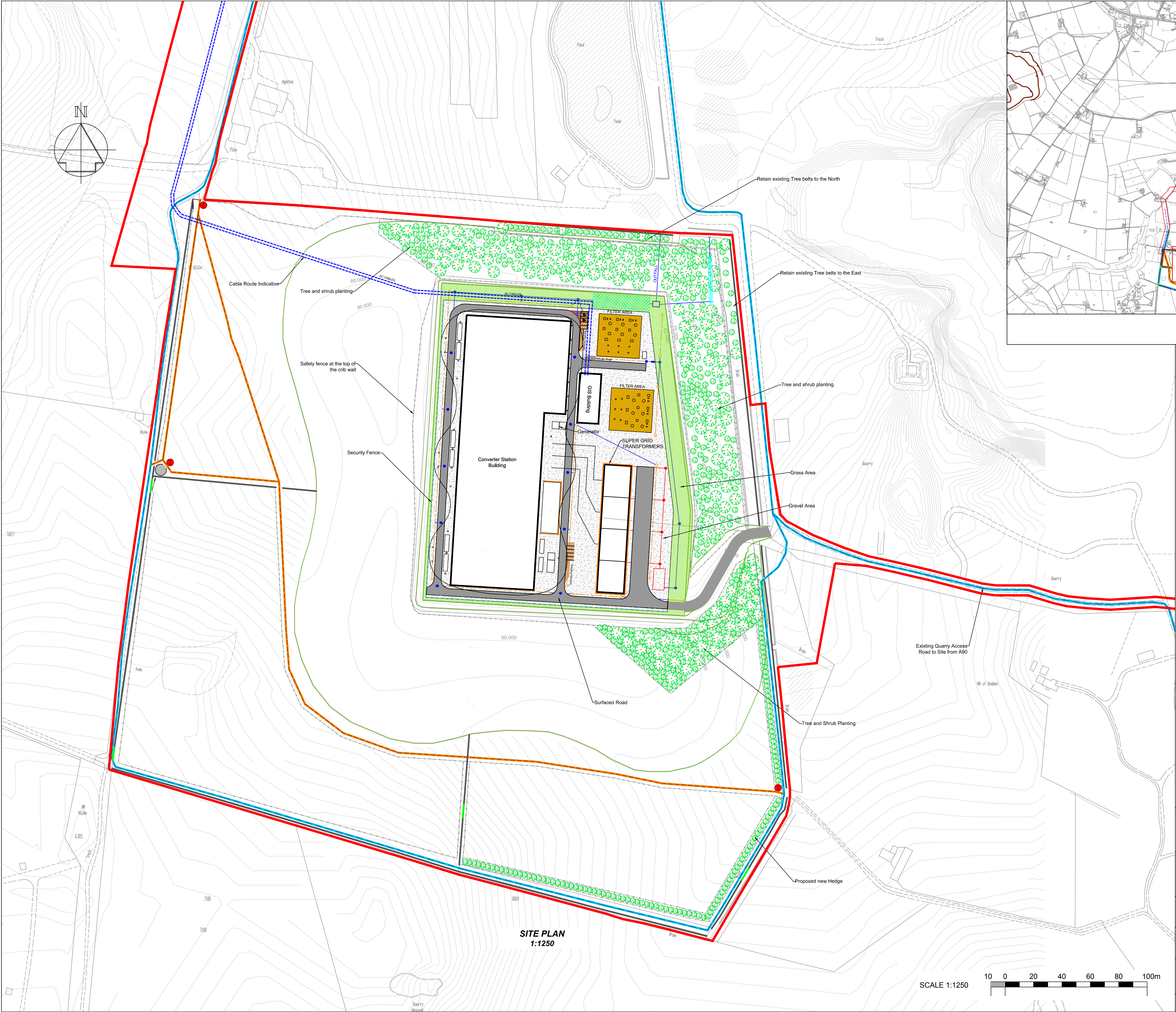
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2014.6.18_Northconnect_PER_DRA_Noise Monitoring Points_3017_D

Title:
NOISE MONITORING POINTS & NOISE SENSITIVE RECEPTORS

Location	Drawing Number	Sht No	Rev No
	3017		D



 NORTHCONNECT CONNECTING RENEWABLES		A0	
Registered Office: NorthConnect KS Serviceboks 603 Lundsiden 4606 Kristiansand Norway		Telefon +47 38 60 70 00 Fax +47 38 60 70 01 E-post: post@northconnect.no www.northconnect.no	
		Drawing Status: FOR INFORMATION	
eRoom Doc Number: 2014.12.19_NorthConnect_PER_DRA_Layout_Plan_3019_B			
Title: LAYOUT PLAN OF SITE ACCESS, SITE AND CABLE ROUTE			
Location BODDAM	Drawing Number 3019	Sht No 01	Rev No B



LOCATION PLAN
1:20000

- NOTES
1. ALL LEVELS RELATIVE TO ORDNANCE DATUM.
 2. SUPER GRID TRANSFORMERS (SGT) ARE WITHIN BUNDED TANKS. DRAINAGE FOR THESE IS SEPARATE, AND WILL PASS THROUGH AN OIL DUMP TANK, OIL/WATER SEPARATING PUMP AND SEPARATOR BEFORE JOINING STORM WATER SEWERS.
 - 3.

- KEY
- FILTER DRAIN
 - STORM WATER SEWER
 - SEPARATE SGT DRAIN
 - GREEN ROOF EDGE
 - UNDERGROUND STORAGE GEO-CELL TANK
 - SWALE
 - OIL/WATER SEPARATOR
 - OVERFLOW CHAMBER
 - Existing Footpath
 - Proposed Footpath
 - Stone Dykes
 - Proposed Post and Wire Fence
 - Proposed Gated Tractor Access
 - Proposed Interpretation Panel
 - Proposed Shelter
 - Outline of Proposed Mound
 - Tree/ Shrubs
 - AC Cable
 - Rigid/ Reflective Barrier



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A1

Drawing Status:
FOR INFORMATION

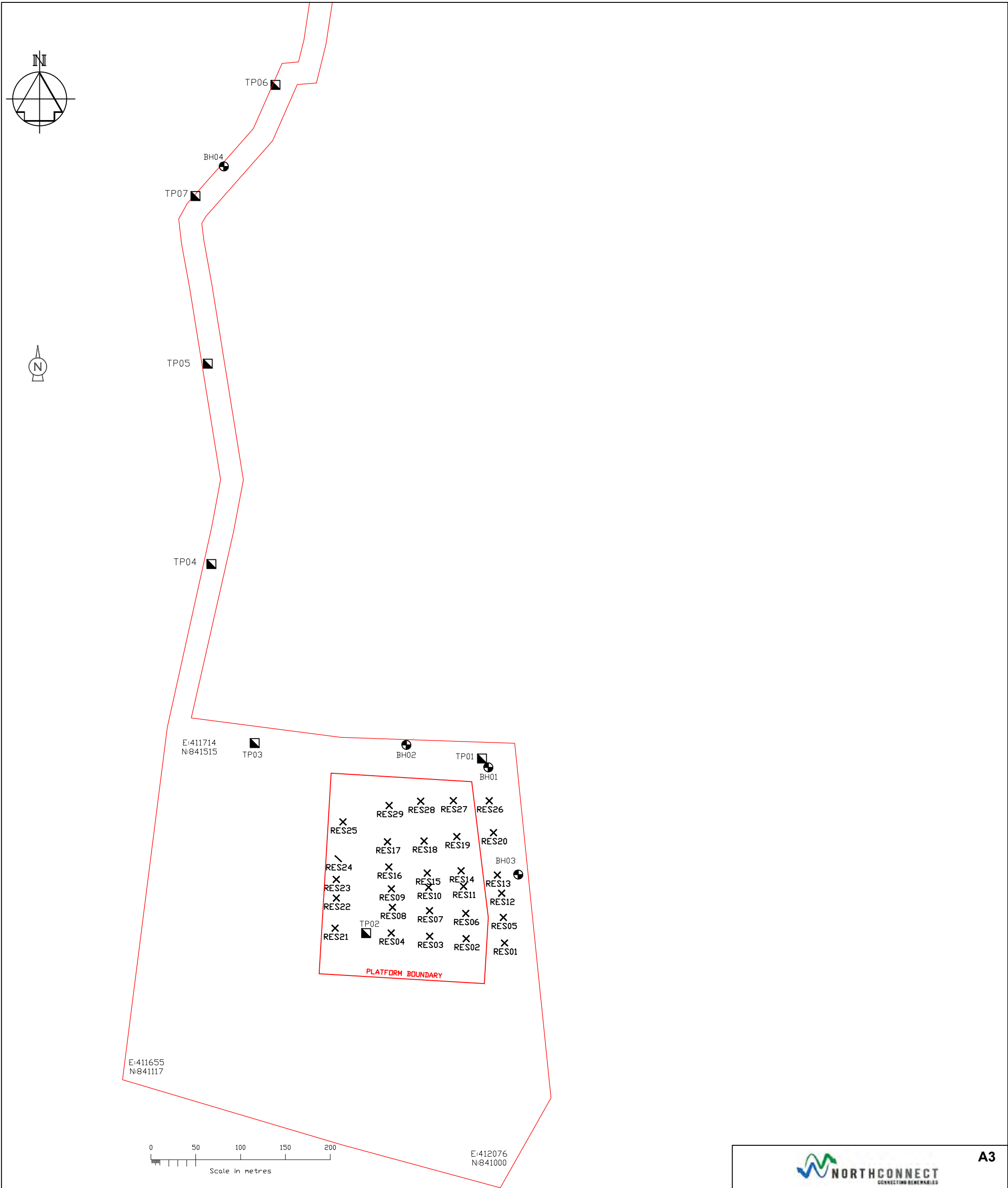
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2015.3.19_NorthConnect_TEC_DRA_Site_Layout_Plan_3022_B

Title:
Site Layout Plan

Location	Drawing Number	Sht No	Rev No
BODDAM	3022	01	B

SCALE 1:1250
10 0 20 40 60 80 100m

SITE PLAN
1:1250




BORE HOLE & TRIAL PIT LOCATIONS

BH1	E412060.655	N841457.963
BH2	E411969.219	N841482.929
BH3	E412094.035	N841338.388
BH4	E411765.669	N842128.200
TP1	E412053.726	N841467.833
TP2	E411924.425	N841273.086
TP3	E411800.148	N841485.033
TP4	E411752.013	N841684.808
TP5	E411747.832	N841908.244
TP6	E411823.407	N842219.115
TP7	E411734.130	N842095.230

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Ordnance Survey 0100031673

LEGEND

- BOREHOLE
- TRIALPIT
- CENTRE OF RESISTIVITY TEST
- PLANNING BOUNDARY

**A3**

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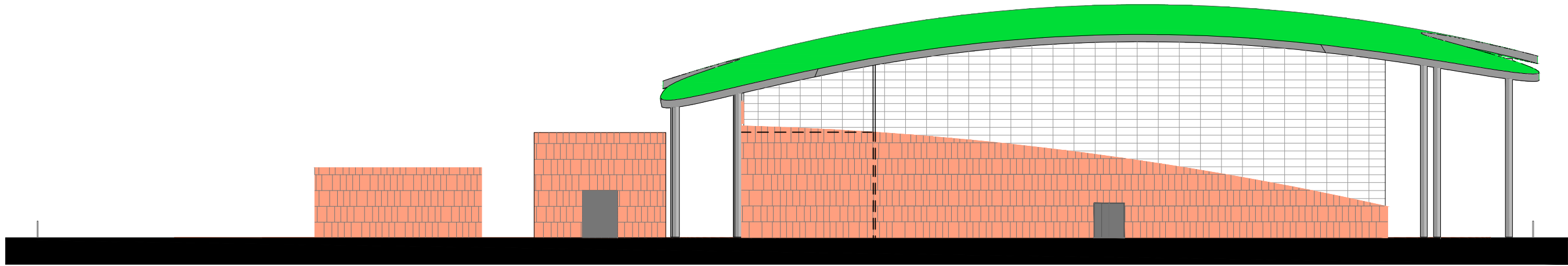
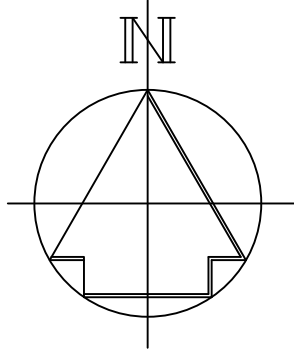
Telefon +47 38 60 70 00
Fax +47 38 60 70 01
E-post: post@northconnect.no
www.northconnect.no

Drawing Status:
FOR INFORMATION

eRoom Doc Number:
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SITE_BOREHOLE_TRIALPIT_RESISTIVITY LOCATIONS_3026_A

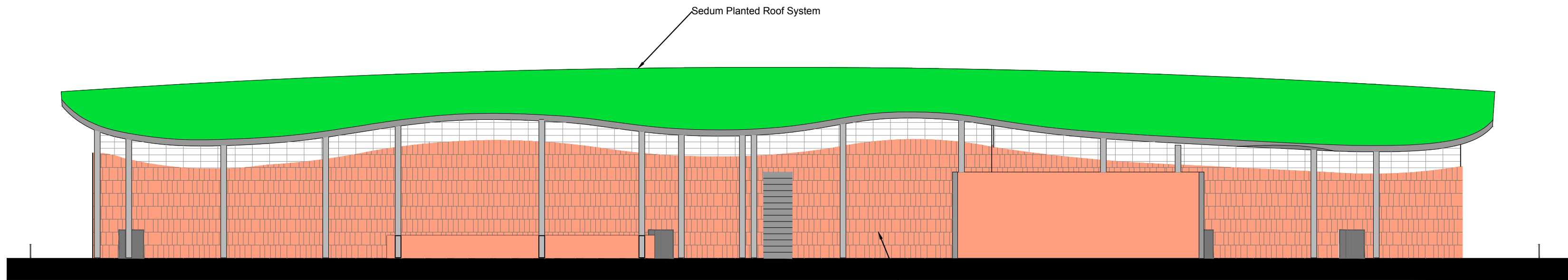
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4-FIELDS DEVELOPMENT SITE_BOREHOLE_TRIALPIT_RESISTIVITY LOCATIONS

Location BODDAM	Drawing Number 3026	Sht No 01	Rev No A
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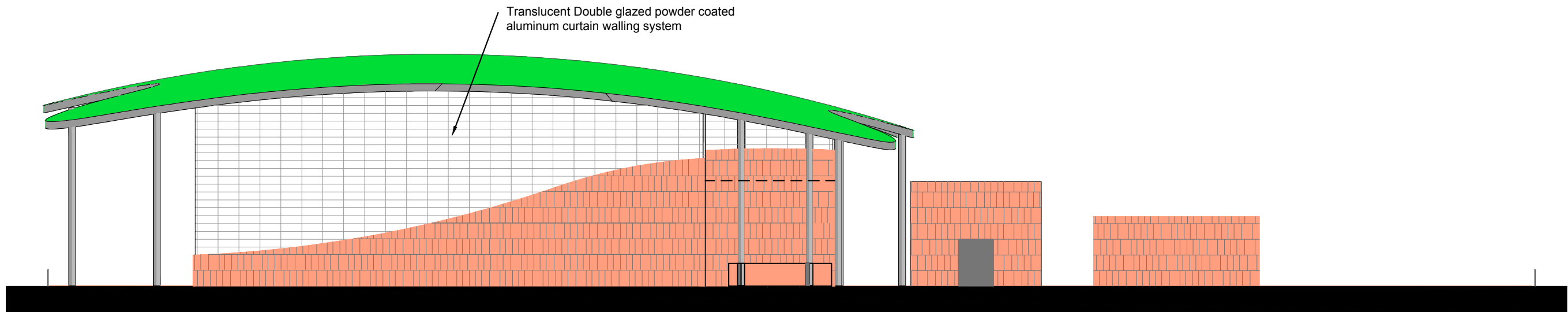
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1 : 500



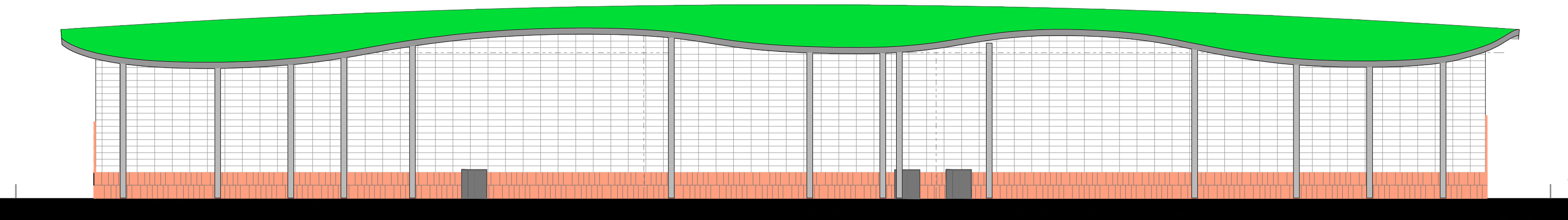
EAST ELEVATION

1 : 500



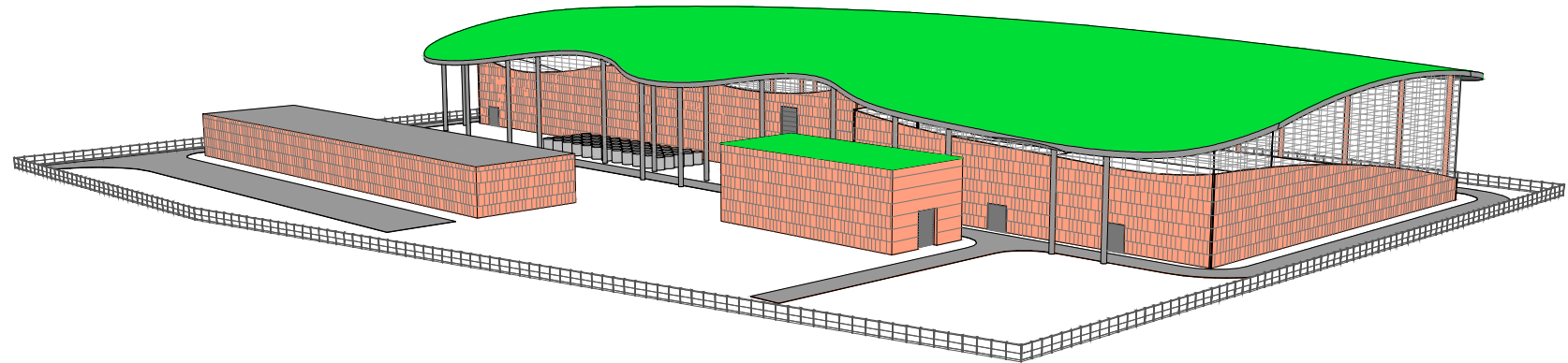
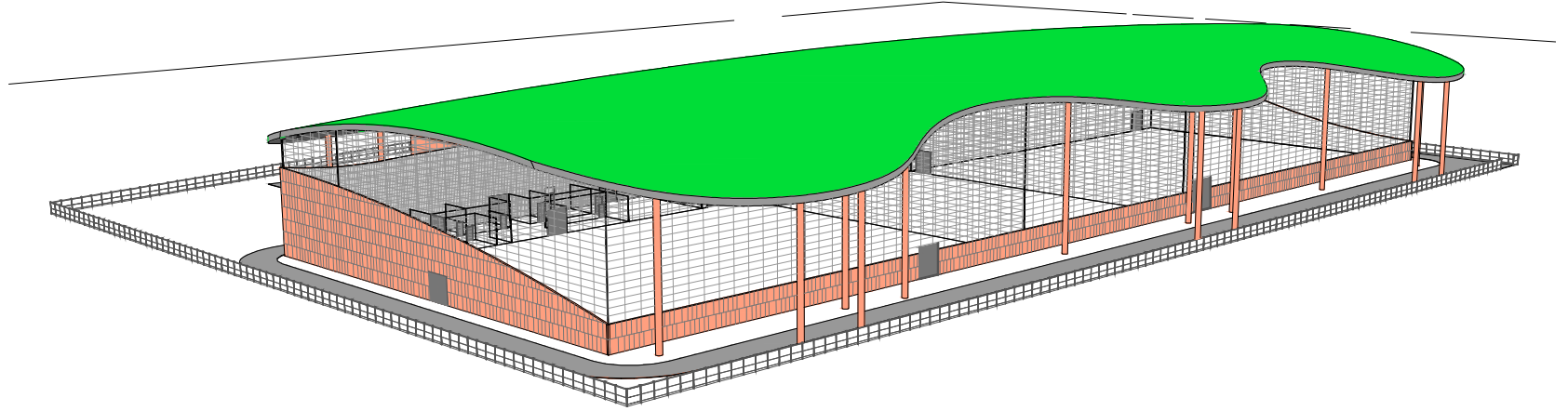
SOUTH ELEVATION

1 : 500



WEST ELEVATION

1 : 500



LEGEND



A1

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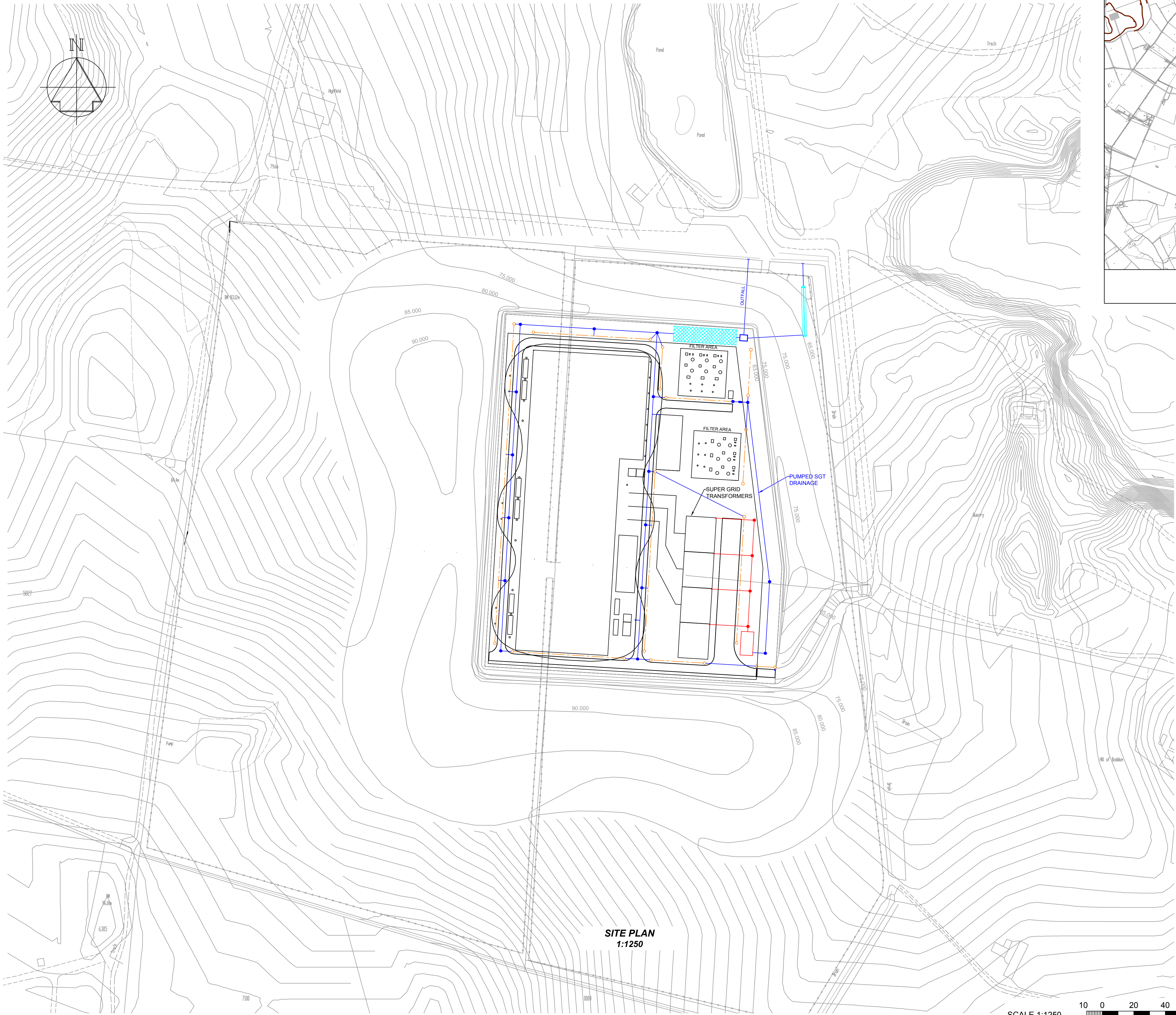
Telefon +47 38 80 70 00
Fax +47 38 60 70 01
E-post: post@northconnect.no
www.northconnect.no

Drawing Status:
FOR INFORMATION

eRoom Doc Number:
2015.03.18_Northconnect_TEC_DRA_Converter Station Elevations_3027_C

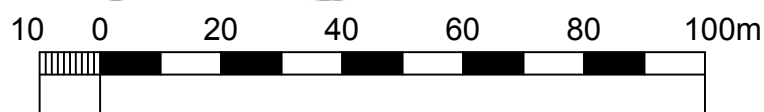
Title:
Proposed Converter Station
Elevations & 3D Views

Location	Drawing Number	Sht No	Rev No
BODDAM	3027	01	C



SITE PLAN
1:1250

SCALE 1:1250



LOCATION PLAN
1:20000

- NOTES
1. ALL LEVELS RELATIVE TO ORDNANCE DATUM.
 2. SUPER GRID TRANSFORMERS (SGT) ARE WITHIN BUNDED TANKS. DRAINAGE FOR THESE IS SEPARATE, AND WILL PASS THROUGH AN OIL DUMP TANK, OIL/ WATER SEPARATING PUMP AND SEPARATOR BEFORE JOINING STORM WATER SEWERS.
 - 3.
- KEY
- FILTER DRAIN
 - STORM WATER SEWER
 - SEPARATE SGT DRAIN
 - GREEN ROOF EDGE
 - UNDERGROUND STORAGE GEO-CELL TANK
 - SWALE
 - OIL/ WATER SEPARATOR
 - OVERFLOW CHAMBER
 - OIL DUMP TANK (INCLUDING OIL/ WATER SEPARATOR PUMP)



A1

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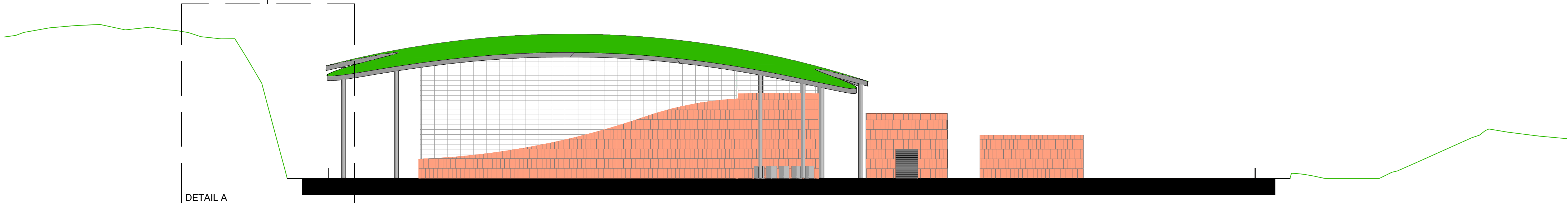
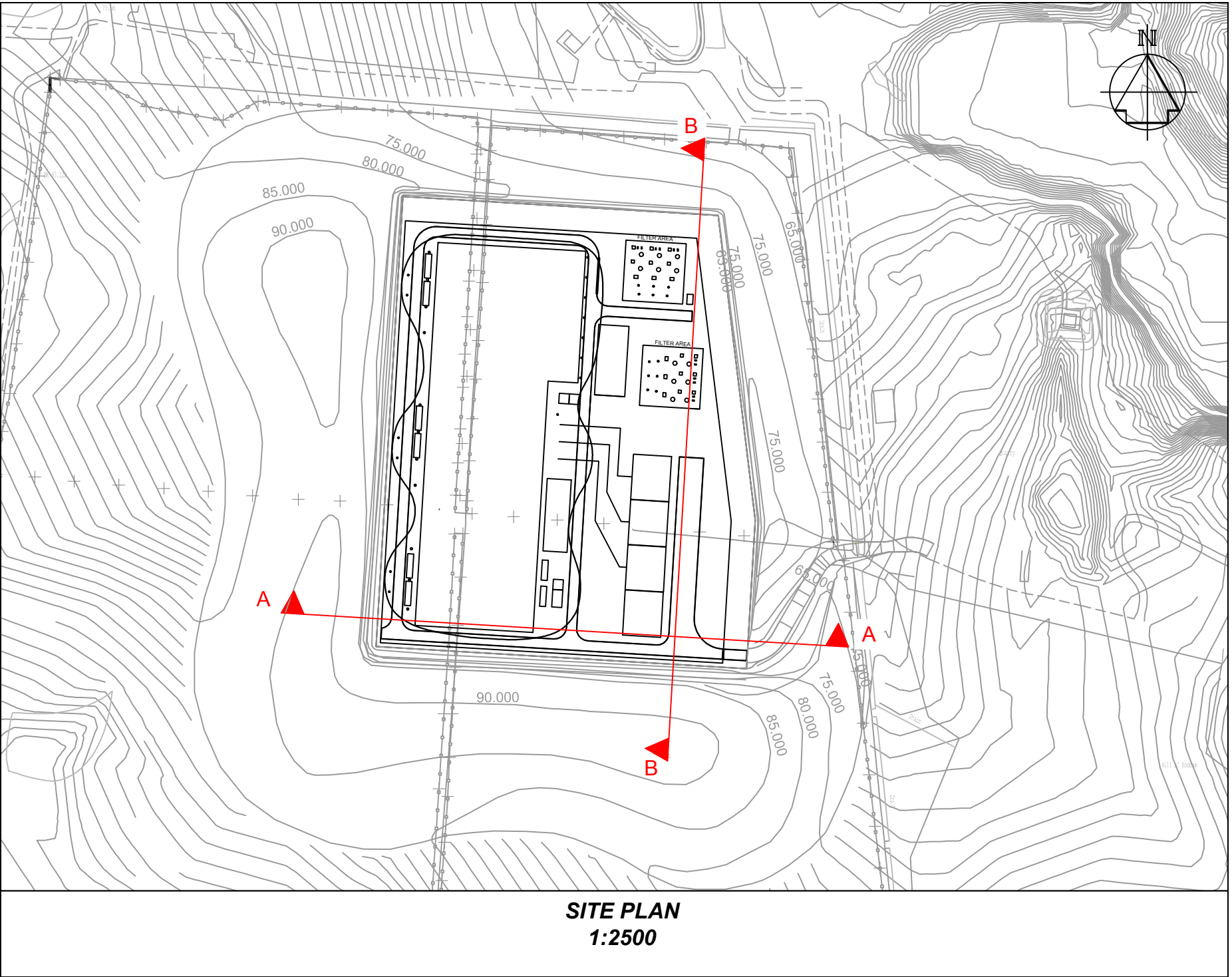
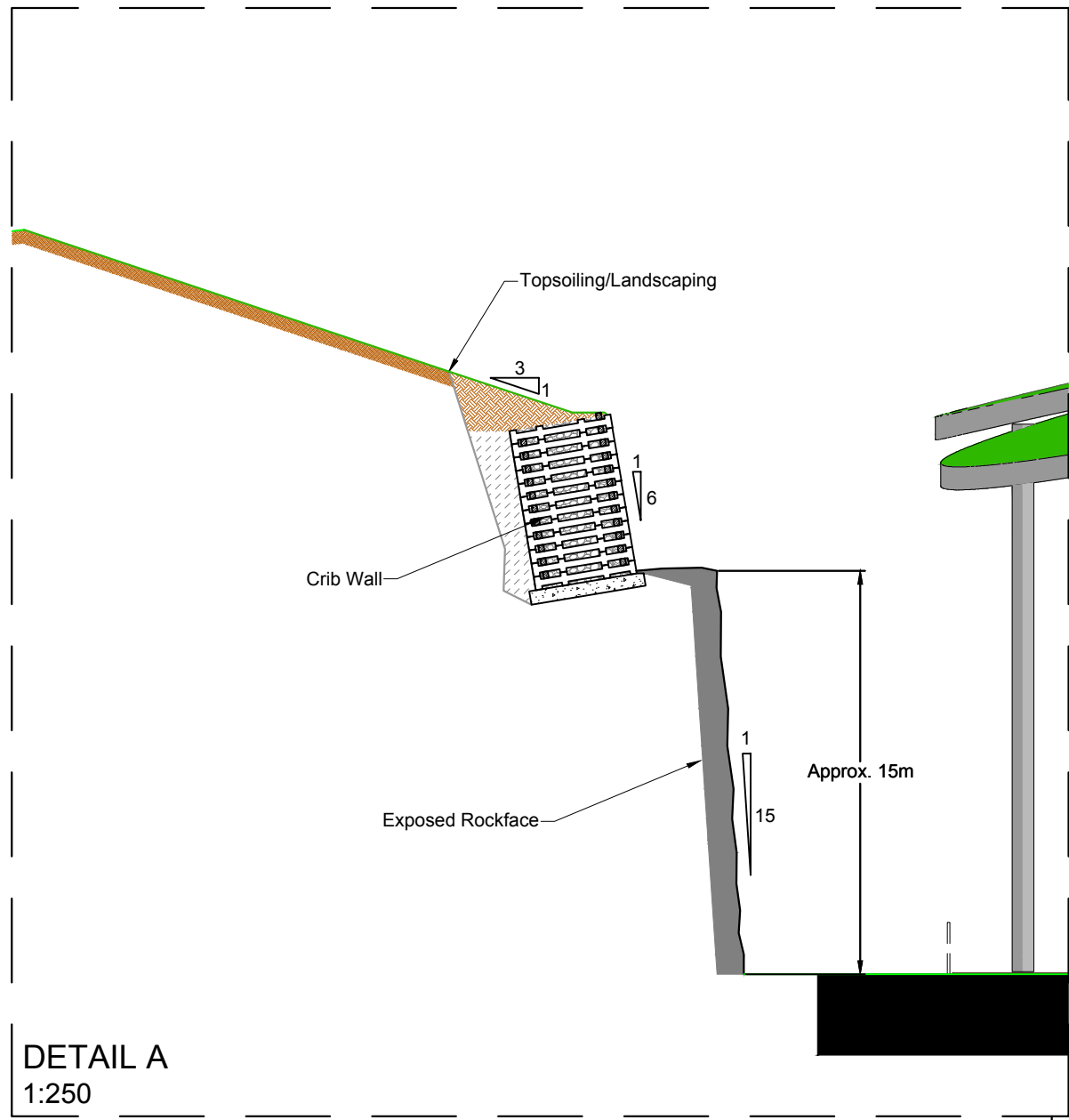
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Drawing Status:
FOR INFORMATION

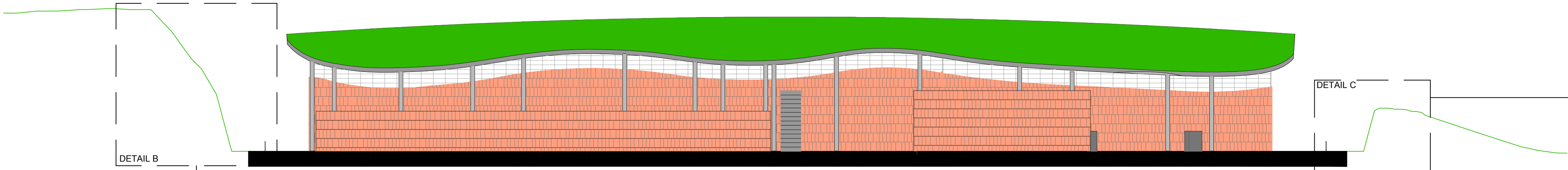
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2015.3.19_NorthConnect_TEC_DRA_Site_Drainage_Plan_3028_A

Title:
Site Drainage Plan

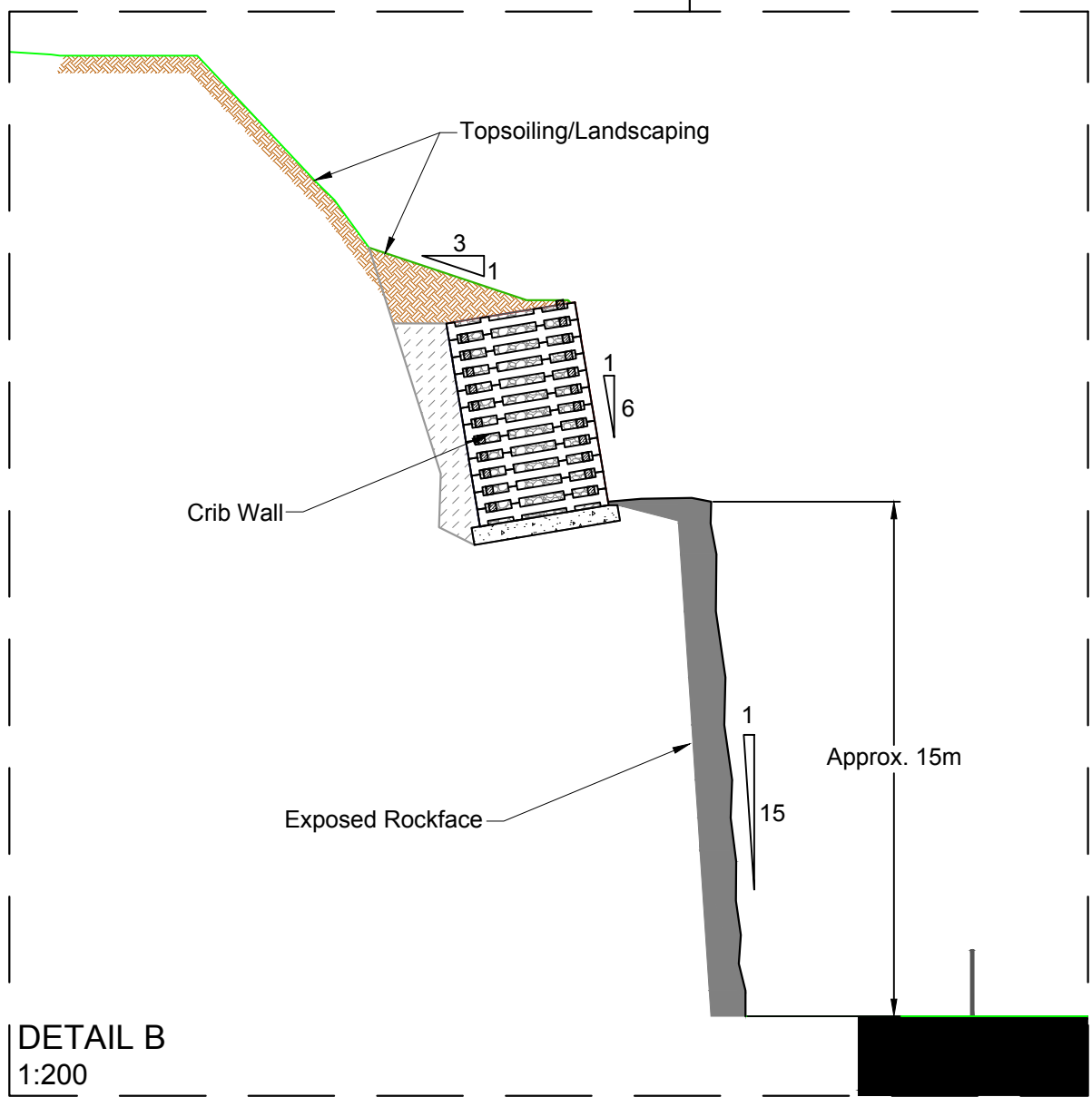
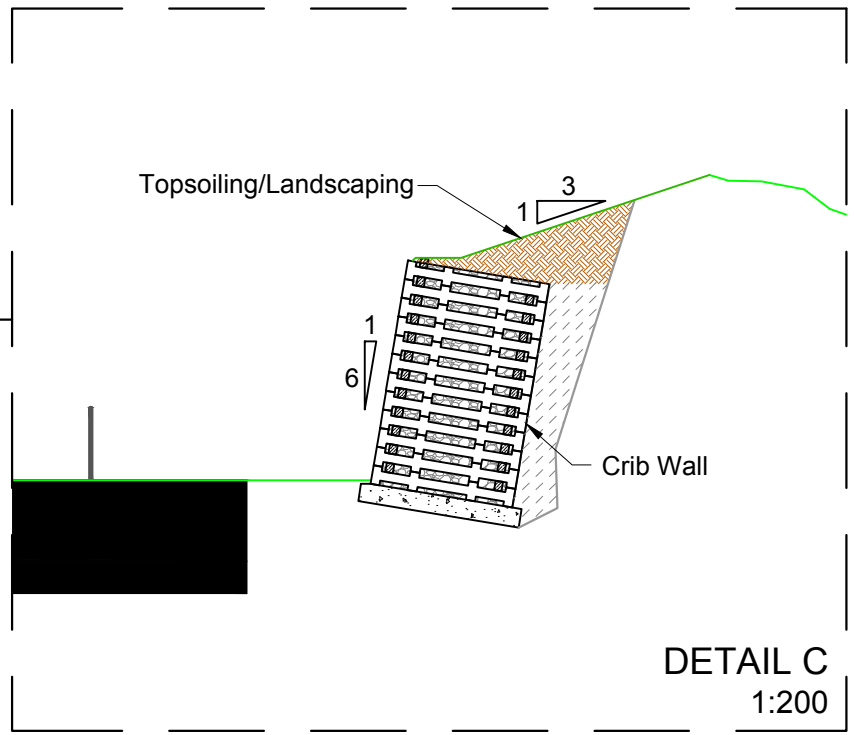
Location	Drawing Number	Sht No	Rev No
BODDAM	3028	01	A



SECTION A-A
1:500



SECTION B-B
1:500

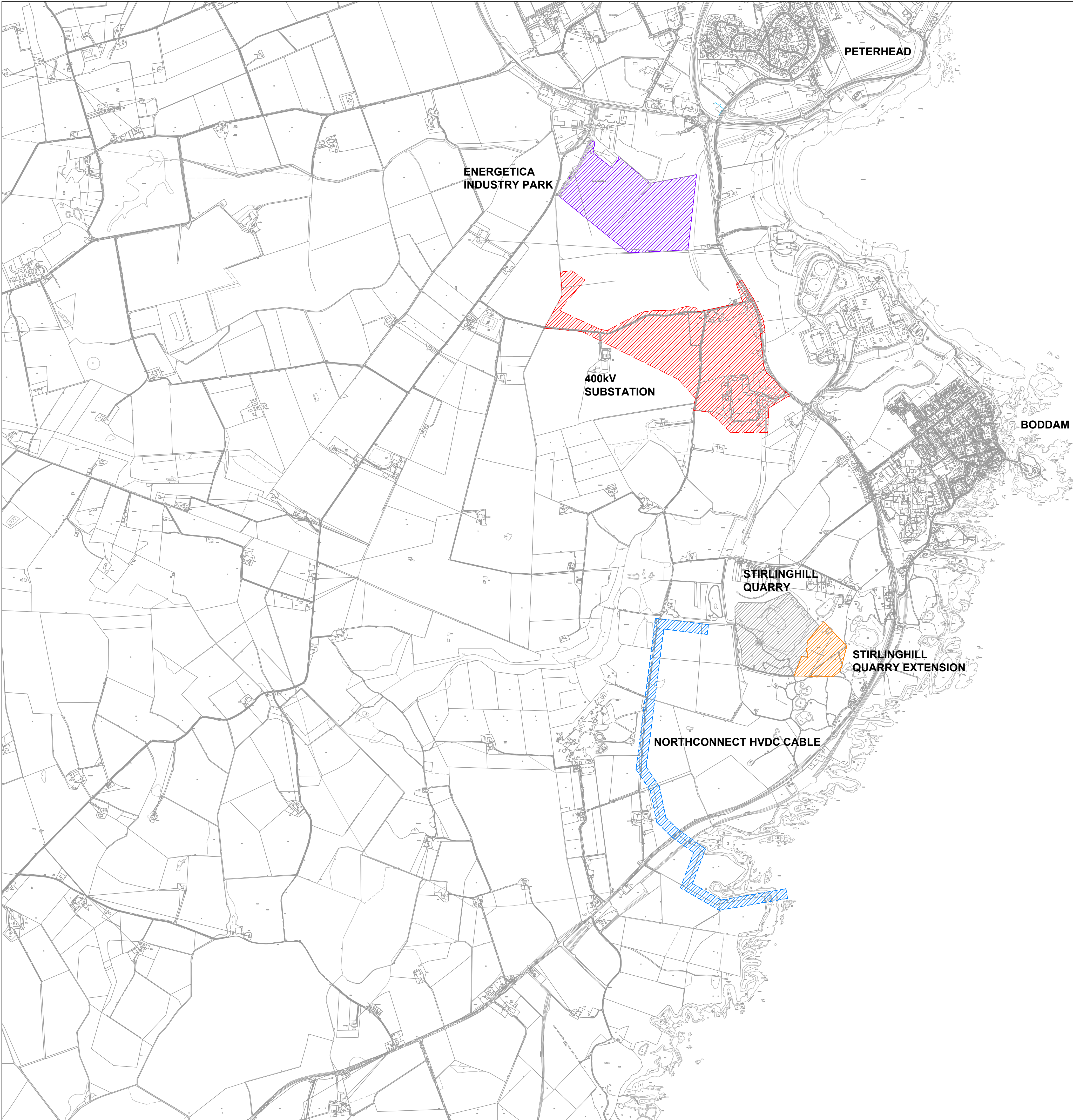
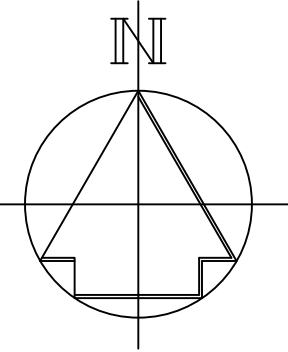


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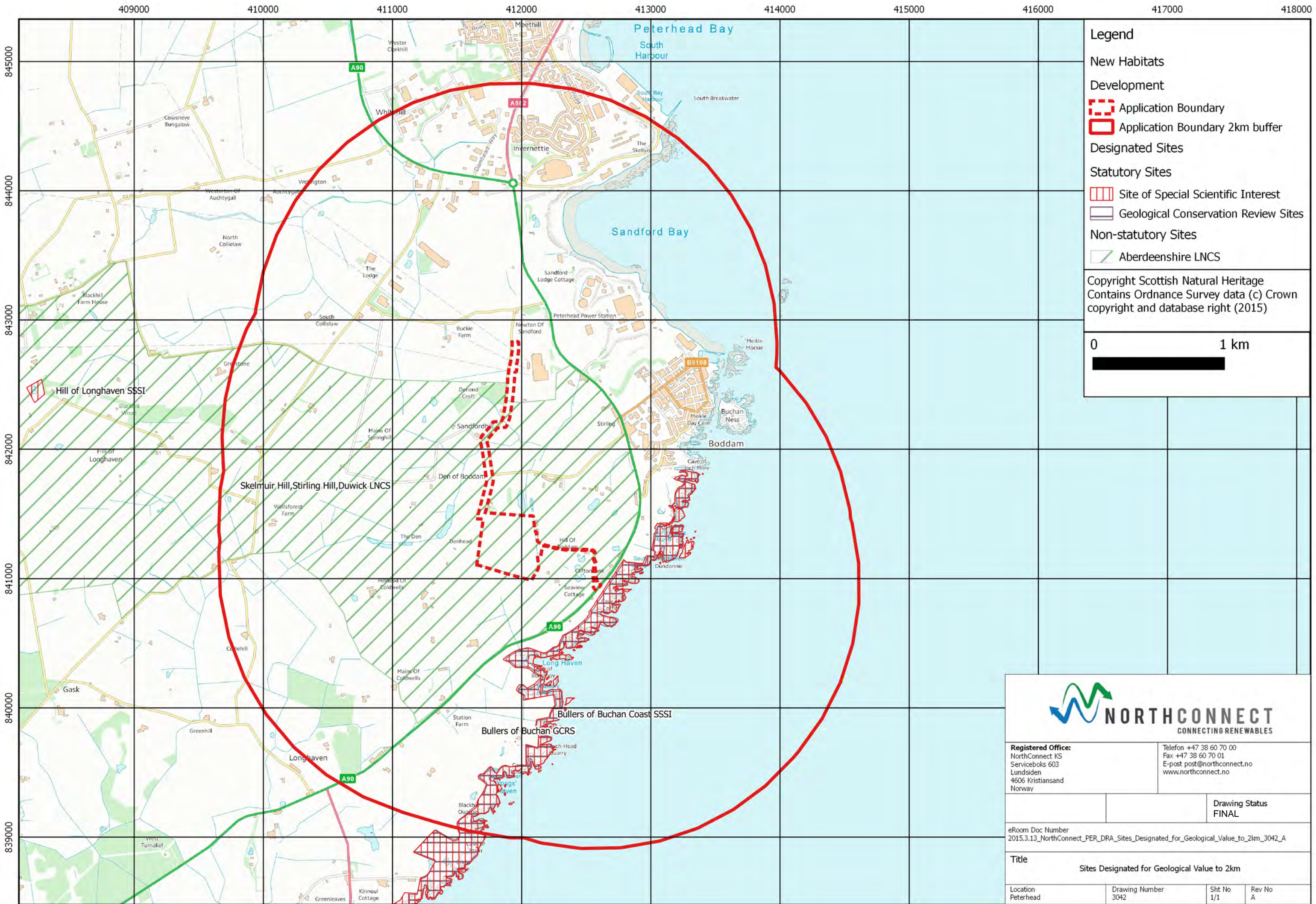


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		Drawing Status: FOR INFORMATION	
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Title: Sections Through Convertor Site			
Location BODDAM	Drawing Number 3029	Sht No 01	Rev No A



		A1	
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		Drawing Status: DRAFT	
eRoom Doc Number: 2015.4.1_Northconnect_TEC_DRA_Large_scale_developments_Within_5km_3031_A			
Title: LARGE SCALE DEVELOPMENTS WITHIN 5Km			
Location	Drawing Number 3031	Sht No	Rev No A



Legend

New Habitats

Development

Application Boundary

Application Boundary 2km buffer

Designated Sites

Statutory Sites

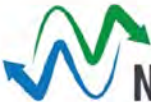
Site of Special Scientific Interest

Geological Conservation Review Sites

Non-statutory Sites

Aberdeenshire LNCS

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Drawing Status
FINAL

eRoom Doc Number
2015.3.13_NorthConnect_PER_DRA_Sites_Designated_for_Geological_Value_to_2km_3042_A

Title

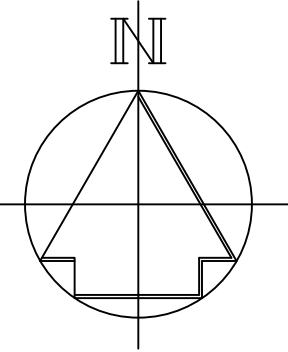
Sites Designated for Geological Value to 2km

Location
Peterhead

Drawing Number
3042

Sht No
1/1

Rev No
A



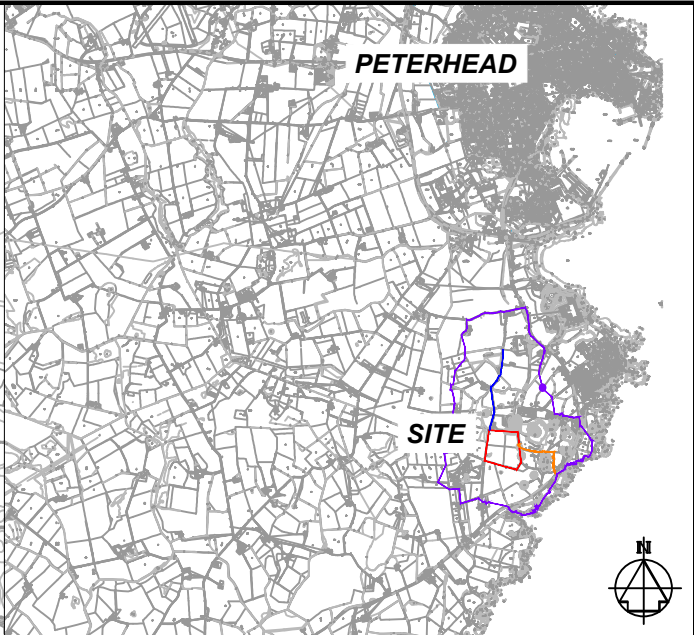
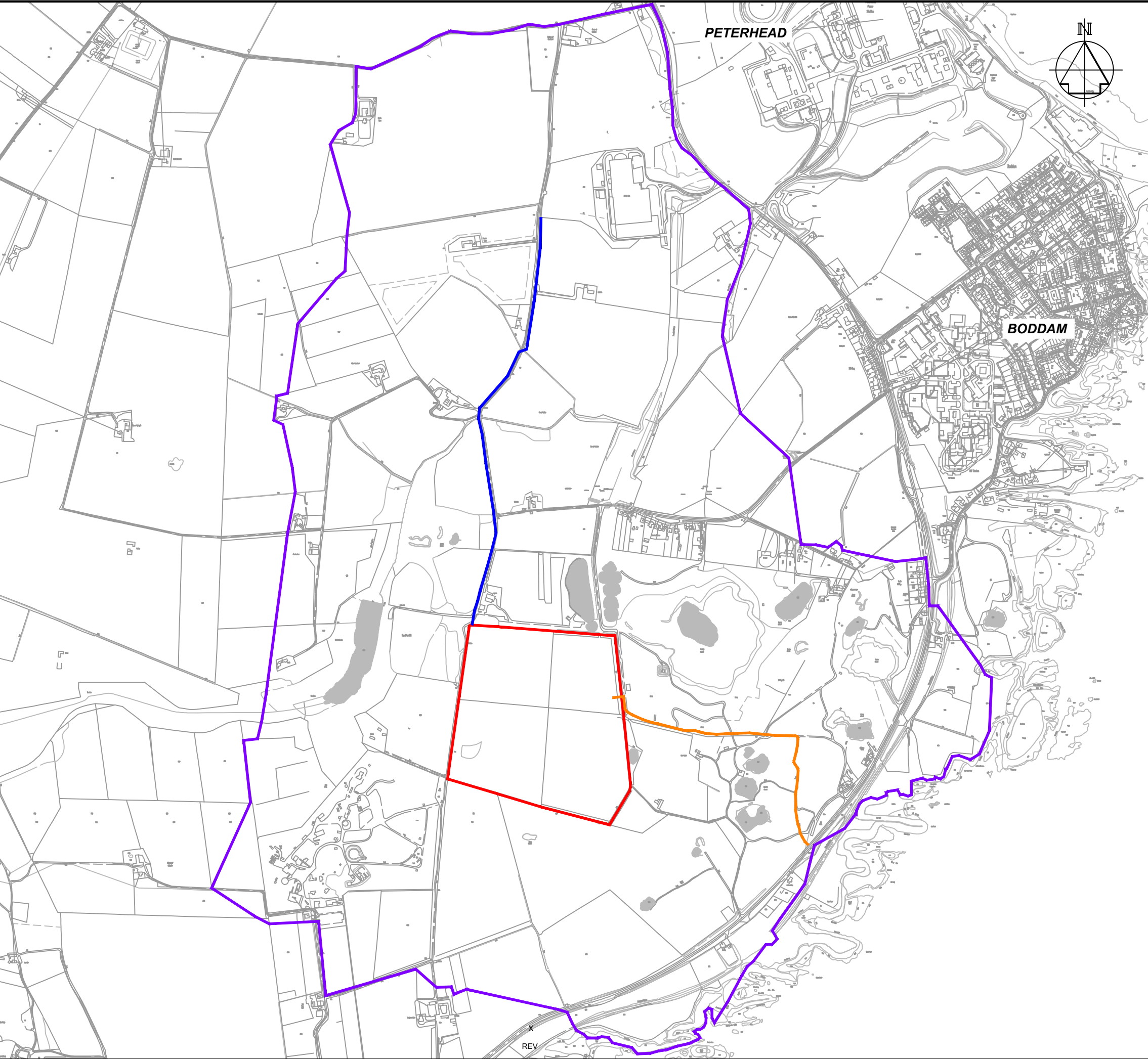
LEGEND

- Proposed HVAC cable route
- OH PYLONS
- Very High voltage
- LV OH Electric
- UG Electric
- Unspecified Electric
- Medium Voltage Electric
- Badger Survey Area
- Watercourse to be surveyed
- Watercourse



A1

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		Drawing Status: Preliminary	
eRoom Doc Number: 2014.9.19_NorthConnect_PER_DRA_Badger,Water Vole and Otter Survey Area_3100_A			
Title: Badger, Water Vole and Otter Survey Area			
Location	Drawing Number 3100	Sht No	Rev No A



LOCATION PLAN

- Archaeology Study Area
- Access to Fourfields
- Fourfields Boundary
- Approximate HVAC route



A3

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Lundsliden
4606 Kristiansand
Norway

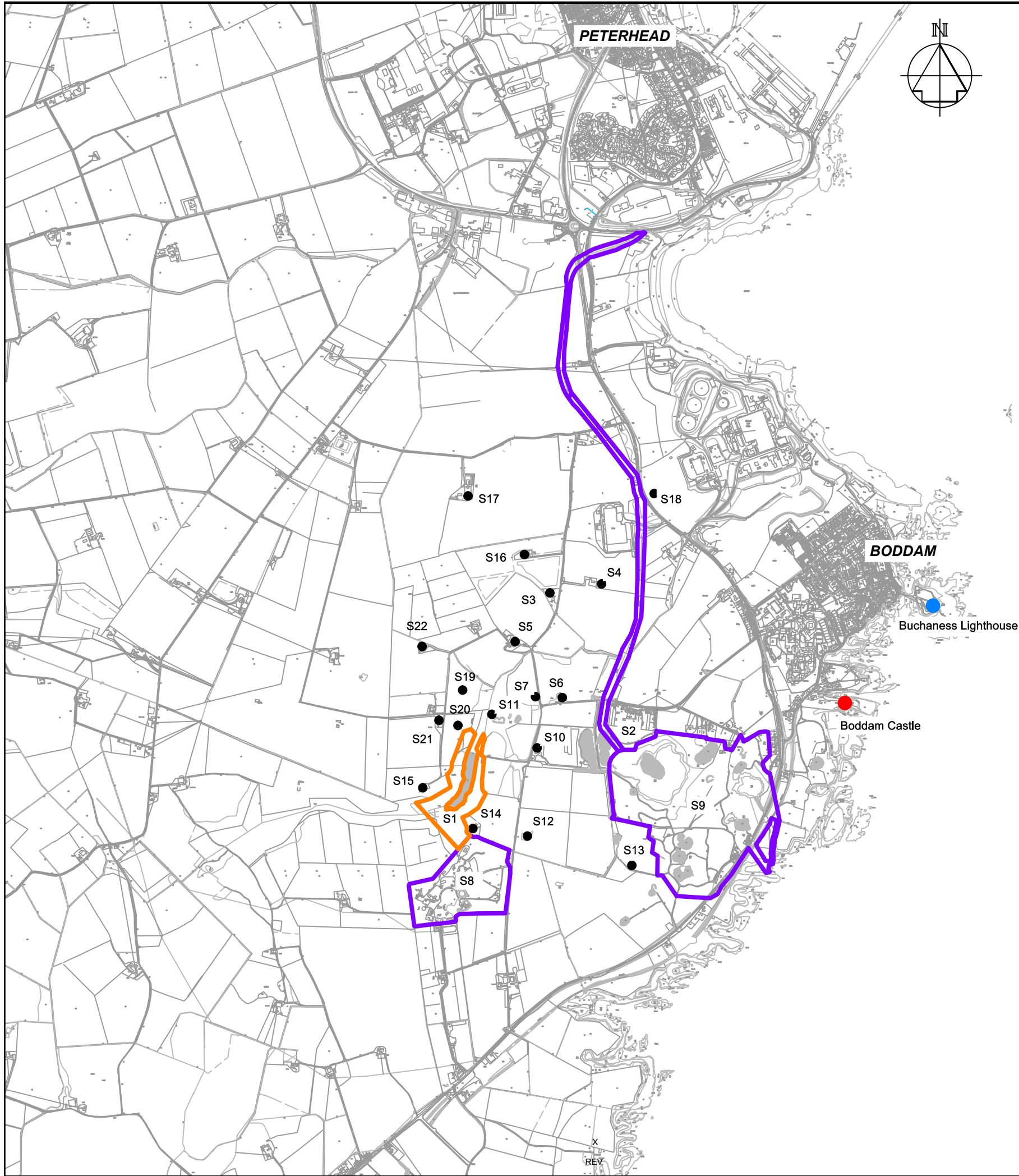
Telefon +47 38 60 70 00
Fax +47 38 60 70 01
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www.northconnect.no

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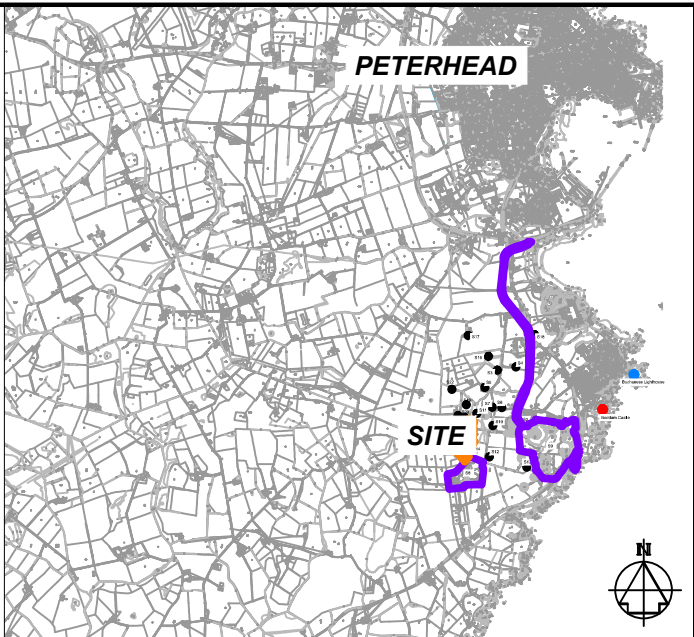
eRoom Doc Number:
2014.6.18_Northconnect_PER_DRA_Archaeology Study Area_3101_B

Title:
Archaeological Study Area

Location	Drawing Number	3101	Sht No	Rev No	B
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Site	Name	UNO & Designation	NGR Ref
S1	Den of Boddam (Flint mining complex)	Canmore ID: 21303 AMR Index: 6127 HER ID: NK145W0003	NK 11470 41350
S2	Den of Boddam	HER ID: NK145W0061	Centred on: NK 1226 4289
S3	Gateside	HER ID: NK145W0092	NK 1185 4232
S4	Gateside	HER ID: NK145W0091	NK 1201 4238
S5	Denend	HER ID: NK145W0023	NK 1166 4209
S6	Whinbush	Canmore ID: 21282 HER ID: NK145W0027	NK 1186 4182
S7	Whinbush	HER ID: NK145W0028	NK 1170 4178
S8	Stirling Hill	Canmore ID: 81503 HER ID: NK145W0021	NK 1120 4085
S9	Stirling Hill	Canmore ID: 305289 HER ID: NK145W0072	NK 1249 4125
S10	Sandford Hill	Canmore ID: 143817 HER ID: NK145W0030	NK 1158 4155
S11	Sandford Hill	Canmore ID: 143817 HER ID: NK145W0029	NK 1164 4155
S12	Sandford Hill	HER ID: NK145W0069	NK 1171 4117
S13	Hill of Boddam	HER ID: NK145W0032	NK 1219 4106
S14	Denhead	Canmore ID: 143818 HER ID: NK145W0031	NK 1145 4122
S15	The Den	HER ID: NK145W0026	NK 1137 4163
S16	Denend (Denend Crags)	HER ID: NK145W0054	NK 1169 4248
S17	Buckle	HER ID: NK189W0056	NK 1140 4286
S18	Burnside	HER ID: NK145W0078	NK 1184 4273
S19	Denside Sandfordhill	Canmore ID: 156551	NK 1137 4163
S20	Denside	HER ID: NK145W0025	NK 1130 4170
S21	Denside	HER ID: NK145W0024	NK 1126 4178
S22	NA	NA	NA



LOCATION PLAN

KEY:

-  SITE BOUNDARY S2, S8, S9
-  SITES
-  BUCHANESS LIGHTHOUSE
-  BODDAM CASTLE
-  S1 AMR BOUNDARY



A3

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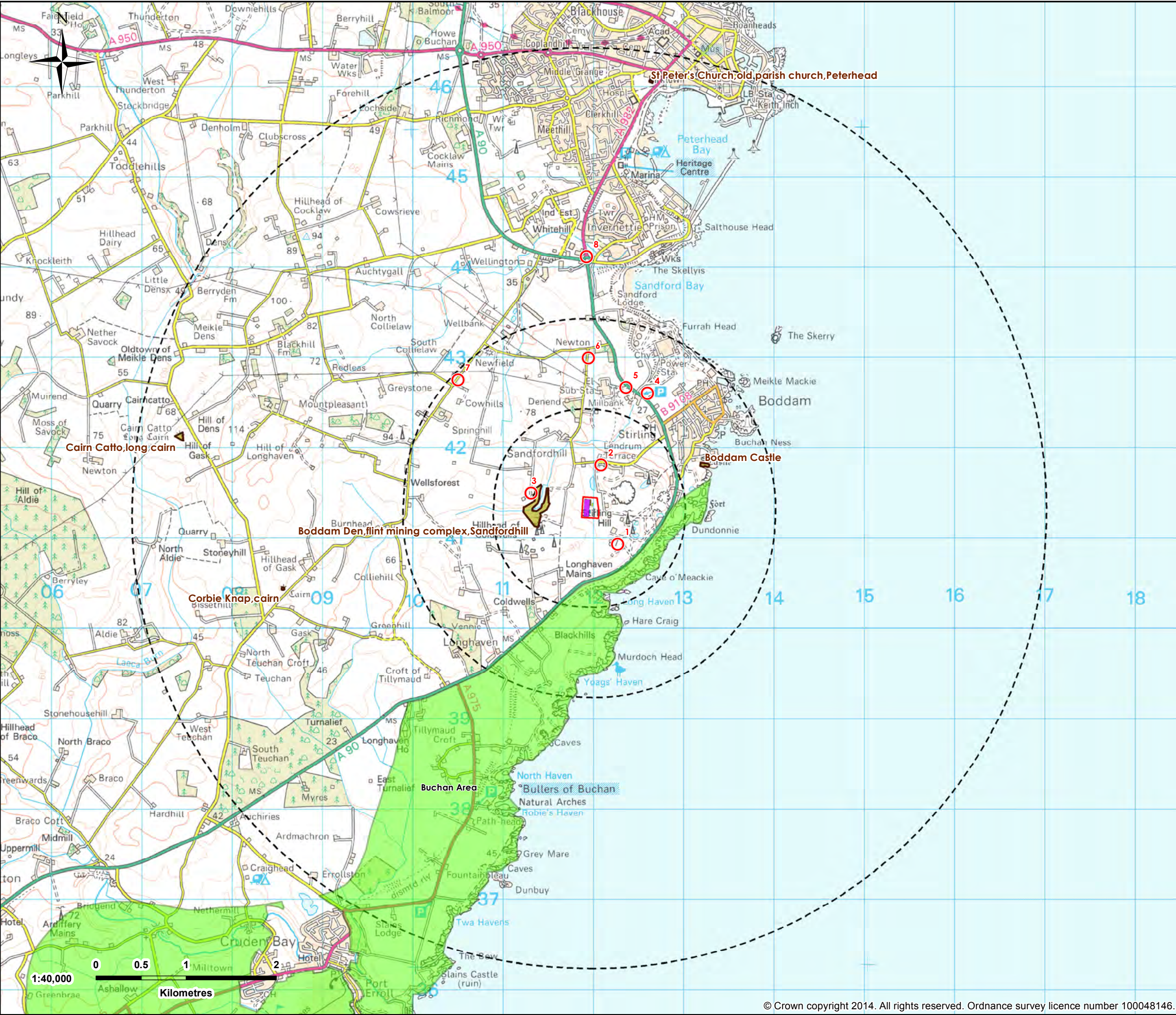
Telefon +47 38 60 70 00
Fax +47 38 60 70 01
E-post: post@northconnect.no
www.northconnect.no

Drawing Status:


eRoom Doc Number:
2014.6.18_Northconnect_PER_DRA_Archaeological and Cultural Heritage
Sites within Archaeology Study Area_3102_B

Title:
VIEW POINT LOCATIONS

Location	Drawing Number 3102	Sht No	Rev No B
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- LEGEND**
- Site boundary
 - Control building
 - Converter building
 - Coolers
 - GIS building
 - SGT building
 - Photomontage location
 - Scheduled Monument
 - Former Aberdeenshire
 - Area of Landscape Significance

**A3**

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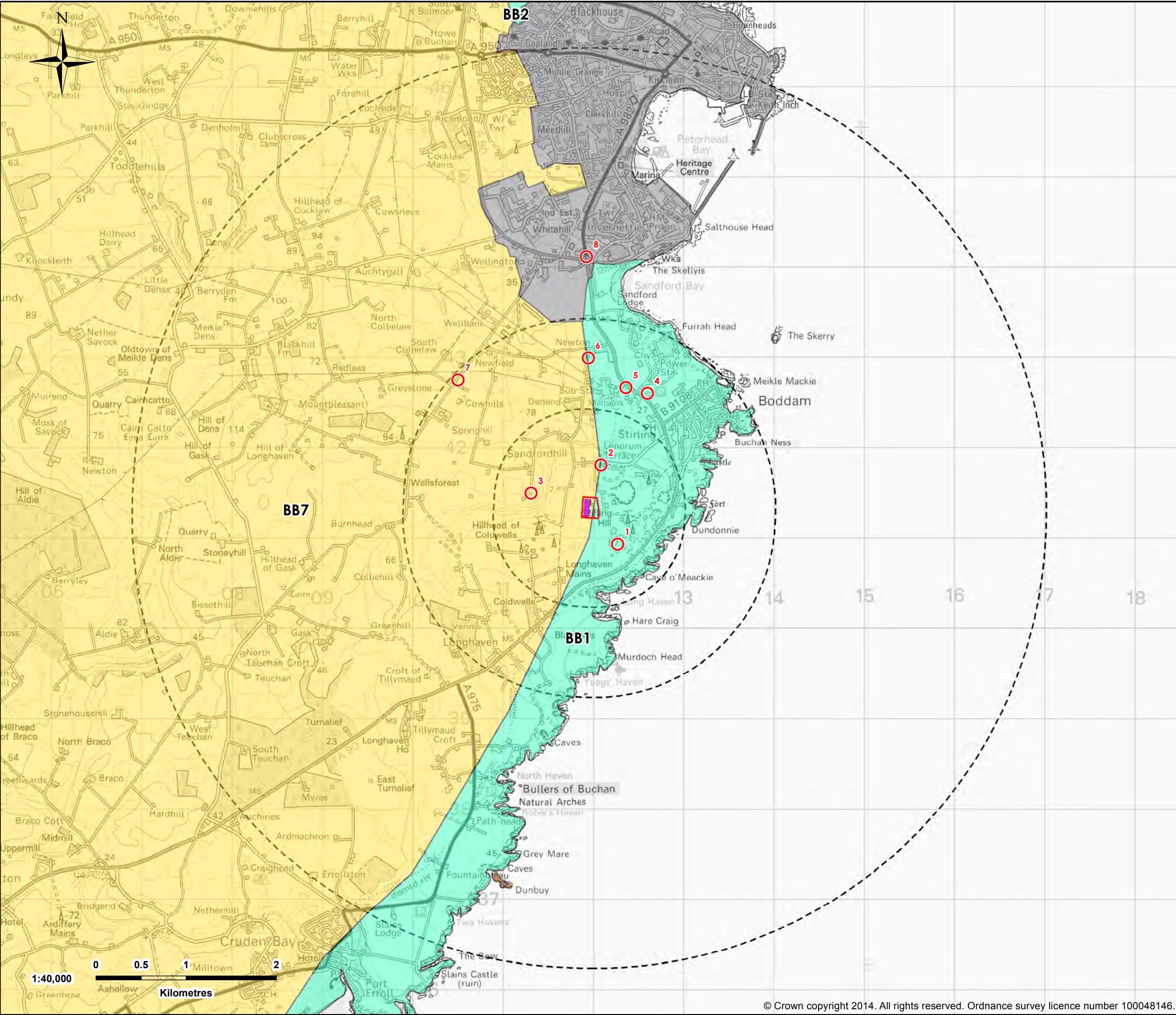
Telephone +47 38 60 70 00
Fax +47 38 60 70 01
E-post: post@northconnect.no
www.northconnect.no

Drawn By: TH	Approved By: TP	Drawing Status: FOR INFORMATION
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eRoom Doc Number:
2015.3.12_NorthConnect_PER_DRA_Landscape Designations_3103_A

Title:
Landscape Designations

Location BODDAM	Drawing Number 3103	Sht No 01	Rev No 0A
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LEGEND

- Site boundary
- Control building
- Converter building
- Coolers
- GIS building
- SGT building
- 1, 2 and 5km building buffers
- Photomontage location


Landscape Character

- Coastal Farmland
- Coastal Island
- The Coast
- Urban

BB1 - Cliffs of the North and South-East Coasts

BB2 - Dunes and beaches from Fraserburgh to Peterhead

BB7 - Eastern Coastal Agricultural Plain

**A3**

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Drawn By: TH	Approved By: TP	Drawing Status: FOR INFORMATION
eRoom Doc Number: 2015.3.12_NorthConnect_PER_DRA_Landscape Character_3104_A		
Title: Landscape Character		
Location BODDAM	Drawing Number 3104	Sht No 01
		Rev No 0A

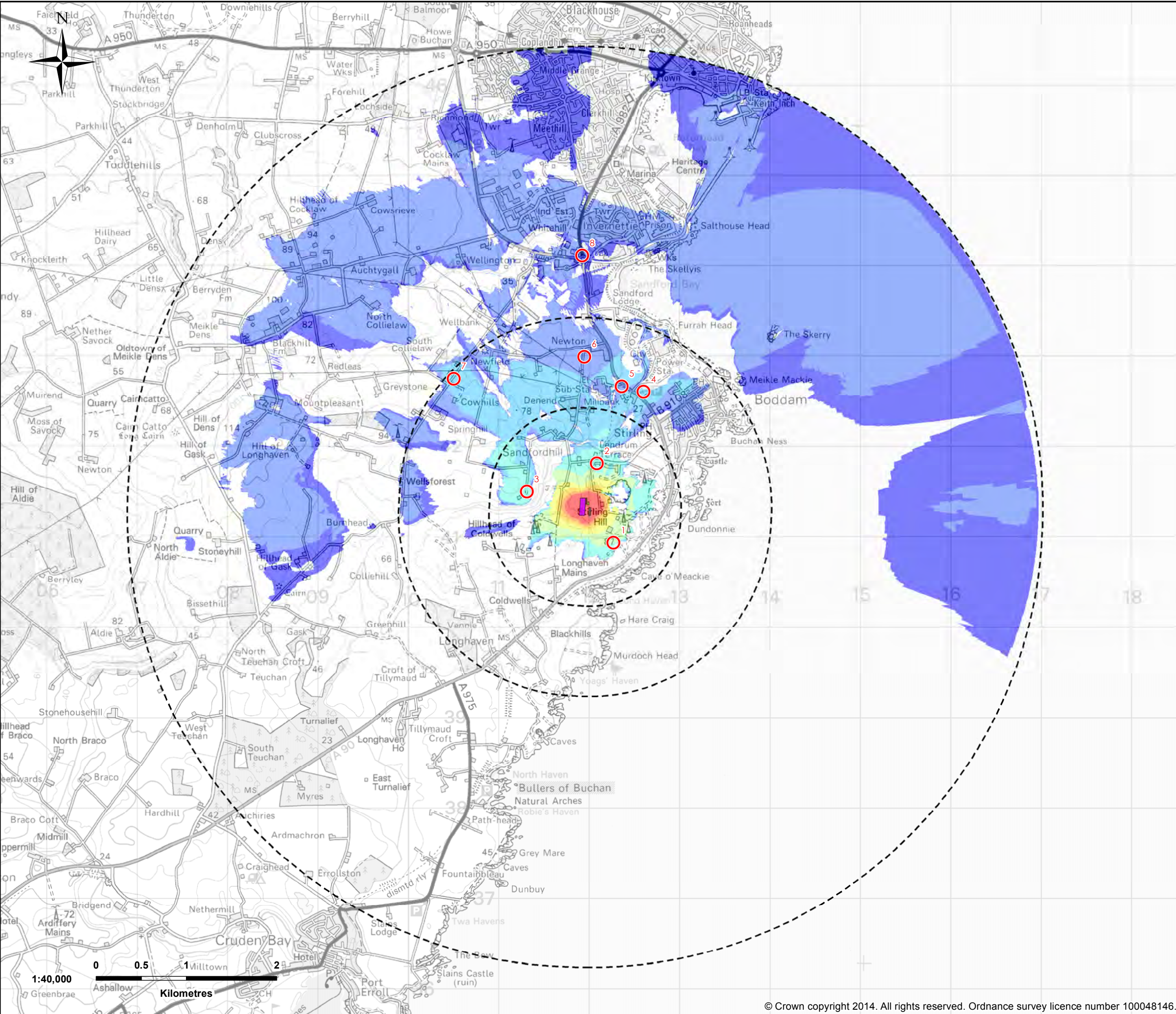


- LEGEND**
- Site boundary
 - Control building
 - Converter building
 - Coolers
 - GIS building
 - SGT building
 - 1, 2 and 5km building buffers
 - Photomontage location
- 1 - Hill of Boddam
 - 2 - Lendrum Terrace, Stirling Hill Access
 - 3 - Footpath west of Sandfordhill reservoir
 - 4 - Elevated sculpture at the entrance to the Power Station
 - 5 - A90 substation
 - 6 - Minor road south of Newton
 - 7 - Minor road south of Newfield
 - 8 - A982 north of Invernettie



A3

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Drawn By: TH		Approved By: TP	
		Drawing Status: FOR INFORMATION	
eRoom Doc Number: 2015.3.12_NorthConnect_PER_DRA_Study Area and Viewpoint Locations_3105_A			
Title: Study Area and Viewpoint Locations			
Location BODDAM	Drawing Number 3105	Sht No 01	Rev No 0A



- LEGEND**
- Control building (25m eaves, 26.5m apex)
 - Converter building (20m)
 - GIS building (12m)
 - SGT building (8m)
 - 1, 2 and 5km building buffers
 - Landscape viewpoint

- 1 - Hill of Boddam
- 2 - Lendrum Terrace, Stirling Hill Access Network
- 3 - Footpath west of Sandfordhill reservoir
- 4 - Elevated sculpture at the entrance to the Power Station
- 5 - A90 substation entrance
- 6 - Minor road south of Newton
- 7 - Minor road south of Newfield
- 8 - A982 north of Invernettie roundabout

Extent of horizontal visibility

- < 2°
- 2 - 5°
- 6 - 10°
- 11 - 20°
- 21 - 30°
- 31 - 40°
- 41 - 50°
- 51 - 60°
- > 60°

Visibility calculated using Ordnance Survey's Terrain5 dataset, which does not take in to account the screening effects of buildings or vegetation.

The terrain within the development extent has been levelled in the DTM at an elevation floor of 63m AOD.

Receptor height 2m above ground.
Visibility calculated to 5km.
Curvature of the Earth allowed for.

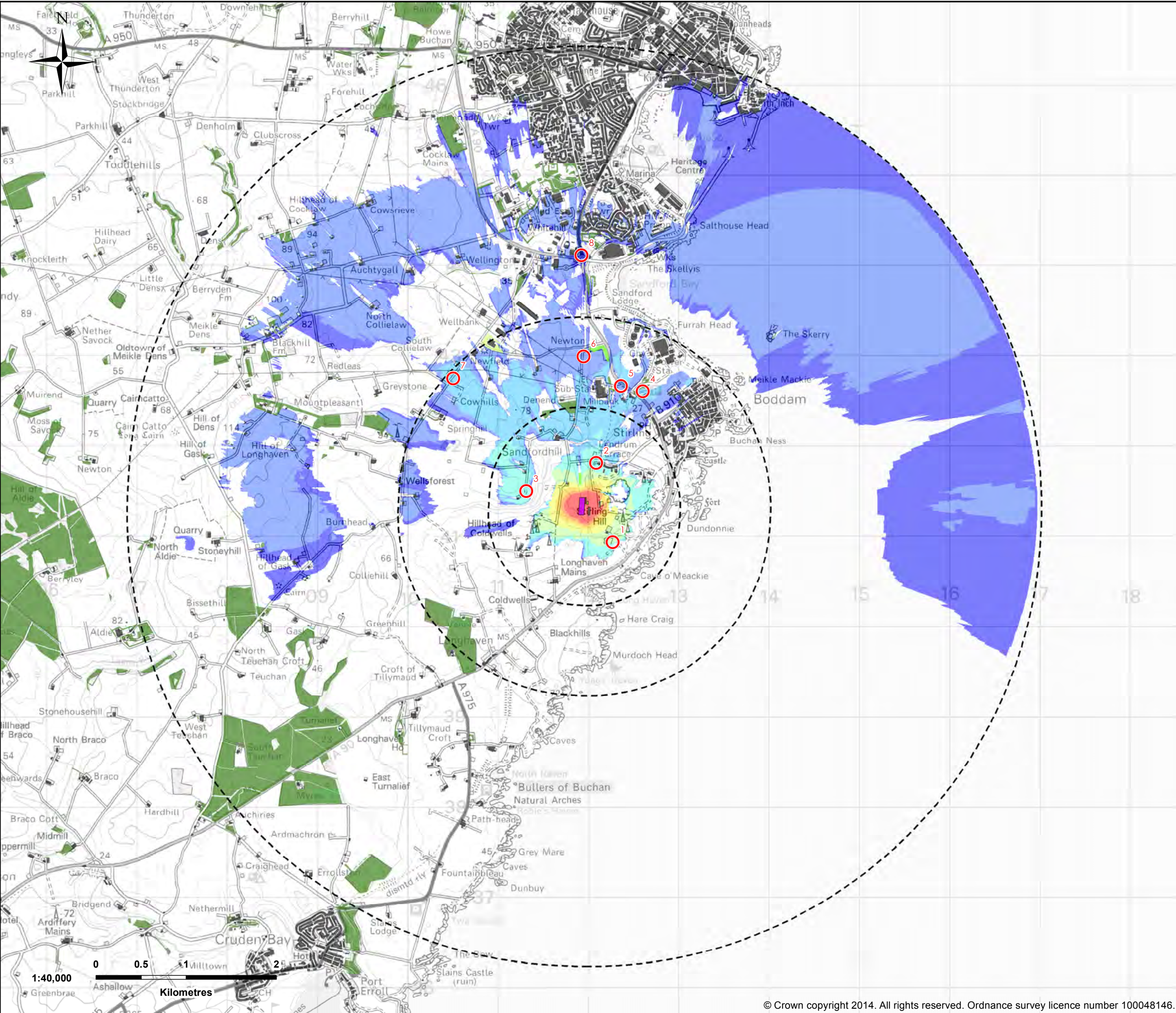


A3

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Drawn By:	Approved By:	Drawing Status:
eRoom Doc Number: 2015.3.12_NorthConnect_PER_DRA_Bare Ground ZTV_3106_A		
Title: Bare Ground Zone of Theoretical Visibility		
Location BODDAM	Drawing Number 3106	Sht No 01
		Rev No 0A



- LEGEND**
- Control building (25m eaves, 26.5m apex)
 - Converter building (20m)
 - GIS building (12m)
 - SGT building (8m)
 - 1, 2 and 5km building buffers
 - Landscape viewpoint

- 1 - Hill of Boddam
- 2 - Lendrum Terrace, Stirling Hill Access Network
- 3 - Footpath west of Sandfordhill reservoir
- 4 - Elevated sculpture at the entrance to the Power Station
- 5 - A90 substation entrance
- 6 - Minor road south of Newton
- 7 - Minor road south of Newfield
- 8 - A982 north of Invernettie roundabout

Extent of horizontal visibility

- < 2°
- 2 - 5°
- 6 - 10°
- 11 - 20°
- 21 - 30°
- 31 - 40°
- 41 - 50°
- 51 - 60°
- > 60°
- 3m forestry (Newfield)
- 6m forestry (Newton)
- 8m forestry
- Buildings

Visibility calculated using Ordnance Survey's Terrain5 dataset, with screening effects of woodland (8m unless specified in legend) and buildings (6m) modelled using layers from OS Vectormap District data.

The terrain within the development extent has been levelled in the DTM at an elevation floor of 63m AOD.

Receptor height 2m above ground.
Visibility calculated to 5km.
Curvature of the Earth allowed for.



A3

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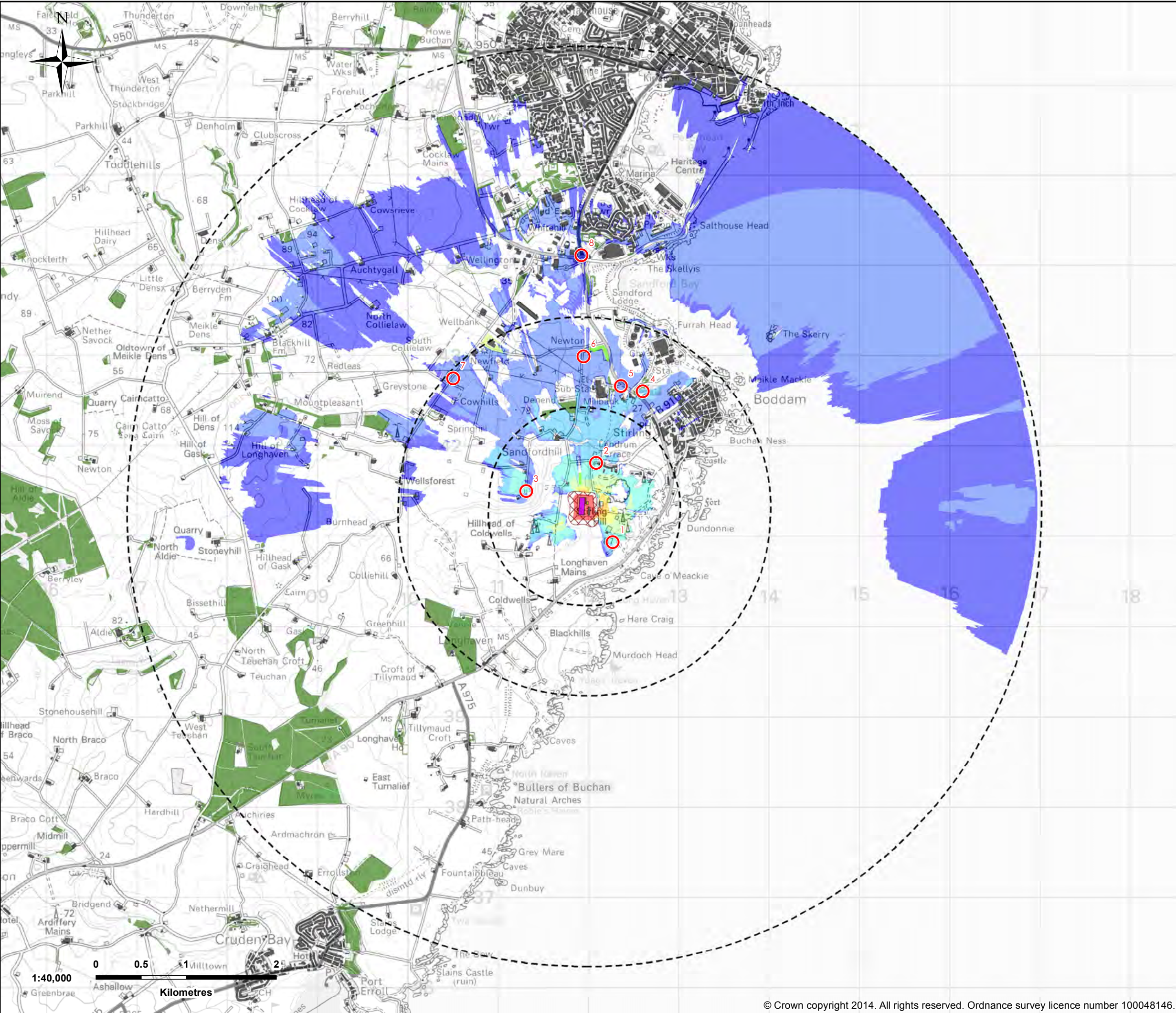
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Drawn By: TH	Approved By: TP	Drawing Status: FOR INFORMATION
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eRoom Doc Number:
2015.3.12_NorthConnect_PER_DRA_Screened ZTV_3107_A

Title:
Screened Zone of Theoretical Visibility - Forestry and Buildings

Location BODDAM	Drawing Number 3107	Sht No 01	Rev No 0A
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- LEGEND**
- Control building (25m eaves, 26.5m apex)
 - Converter building (20m)
 - GIS building (12m)
 - SGT building (8m)
 - Mounds
 - 1, 2 and 5km building buffers
 - Landscape viewpoint

- 1 - Hill of Boddam
- 2 - Lendrum Terrace, Stirling Hill Access Network
- 3 - Footpath west of Sandfordhill reservoir
- 4 - Elevated sculpture at the entrance to the Power Station
- 5 - A90 substation entrance
- 6 - Minor road south of Newton
- 7 - Minor road south of Newfield
- 8 - A982 north of Invernettie roundabout

Extent of horizontal visibility

- < 2°
- 2 - 5°
- 6 - 10°
- 11 - 20°
- 21 - 30°
- 31 - 40°
- 41 - 50°
- 51 - 60°
- > 60°
- 3m forestry (Newfield)
- 6m forestry (Newton)
- 8m forestry
- Buildings

Visibility calculated using Ordnance Survey's Terrain5 dataset, with screening effects of woodland (8m unless specified in legend) and buildings (6m) modelled using layers from OS Vectormap District data.

The terrain within the development extent has been levelled in the DTM at an elevation floor of 63m AOD, and raised to correspond to the proposed mound structures.

Receptor height 2m above ground.
Visibility calculated to 5km.
Curvature of the Earth allowed for.



A3

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Drawn By: Approved By: Drawing Status:

eRoom Doc Number: 2015.3.12_NorthConnect_PER_DRA_Screened ZTV Forestry, Buildings and Proposed Mounds_3108_A

Title: Screened Zone of Theoretical Visibility - Forestry, Buildings and Proposed Mounds

Location: BODDAM Drawing Number: 3108 Sht No: 01 Rev No: 0A