



Draft Environmental Statement

Volume 2 - Figures

Part 1 of 3

Brechfa Forest Connection Project

November 2014

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Green highlight indicates the contents of this document.

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Legend:

- New Lodge Substation
- Swansea North Substation
- Proposed Overhead Line
- ⋯ Proposed Underground Cable
- EE Line (WPD)
- V Line (WPD)
- Brechfa Forest West Wind Farm

Notes:
 Proposed Overhead Alignment provided by LSTC
 WPD asset locations displayed are indicative

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Metre

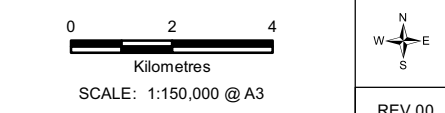


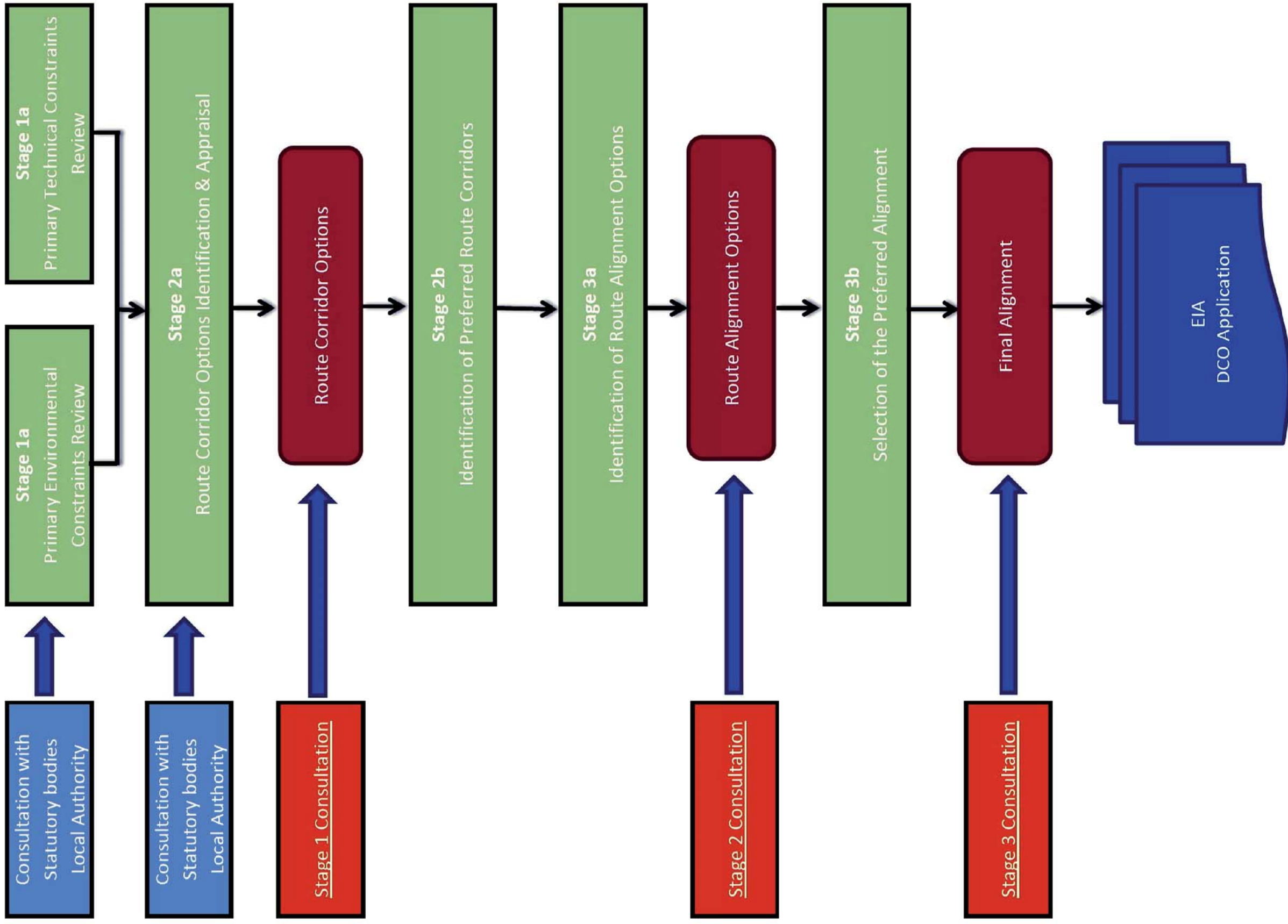
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Cyswllt Coedwig Brechfa

The logo for the Cyswllt Coedwig Brechfa Forest Connection, featuring the text 'CYSWLLT COEDWIG Brechfa FOREST CONNECTION' in a stylized font with a tree icon.

TITLE: Figure 1.1
 Project Location





Brechfa Forest Connection
 Key: Not Applicable

Figure 1.2
 Overview of the route selection process

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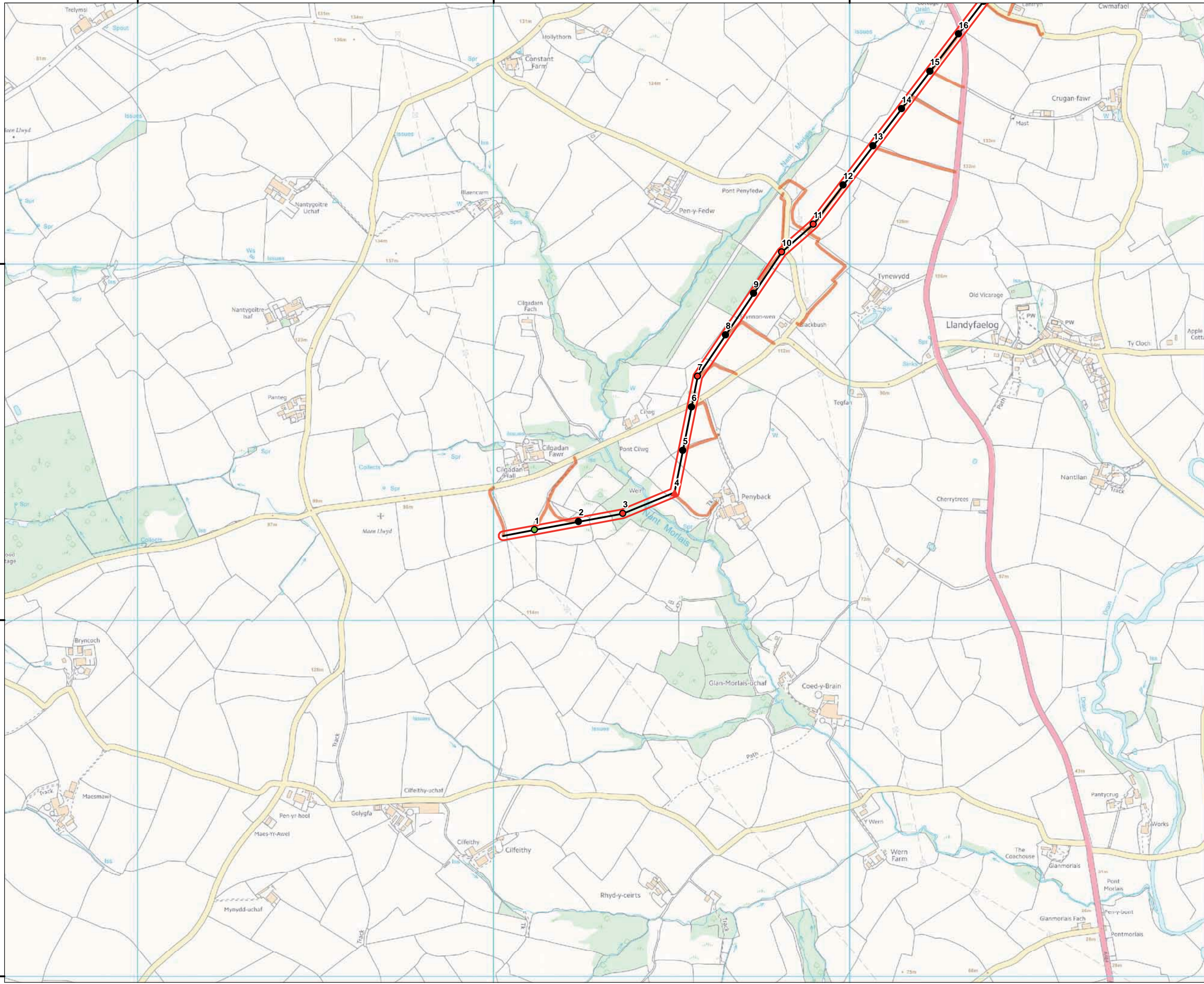
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- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation
 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

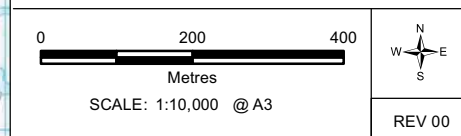
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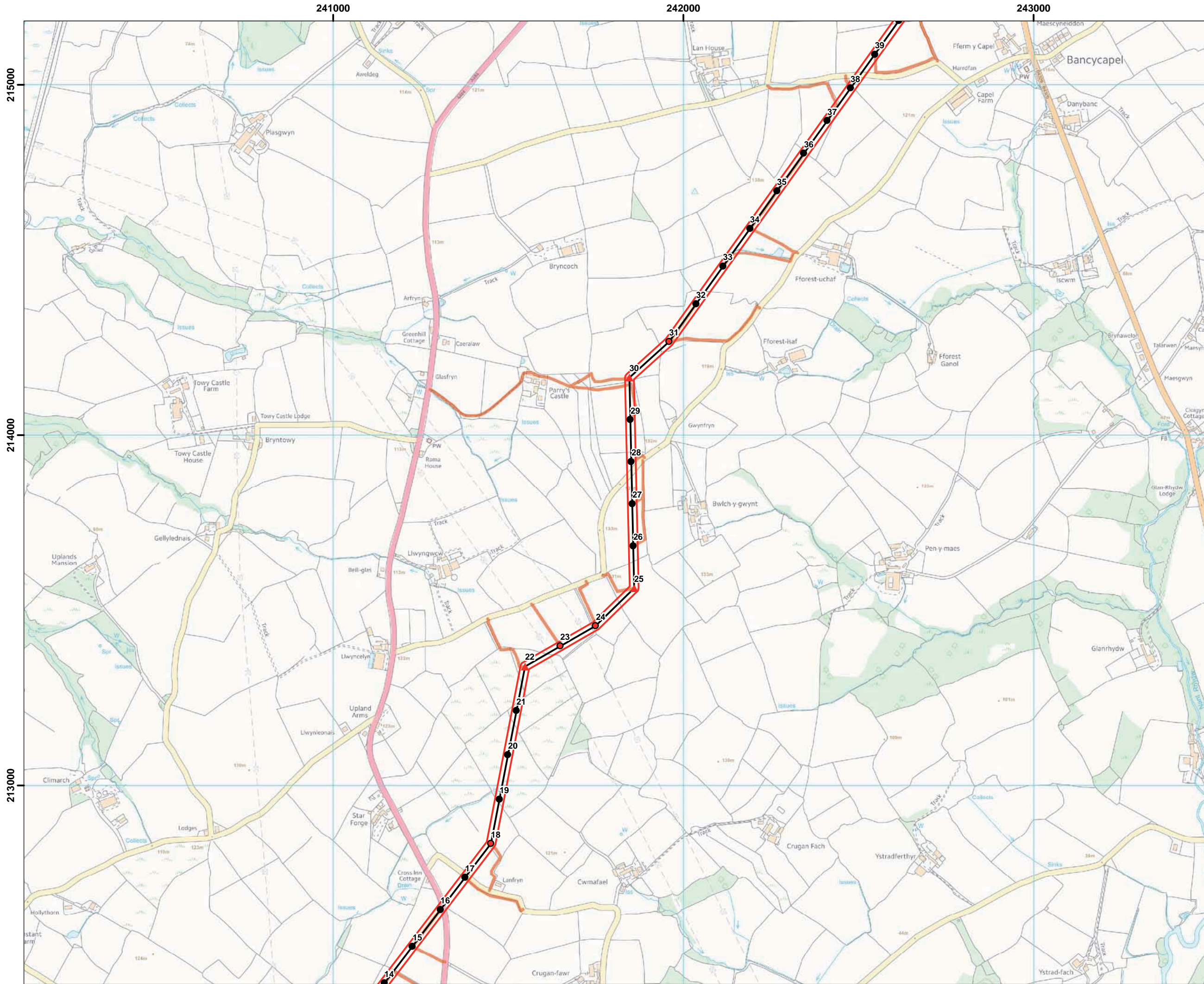


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TITLE:
Figure 2.1: The Proposed Development Map 1





- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation
 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

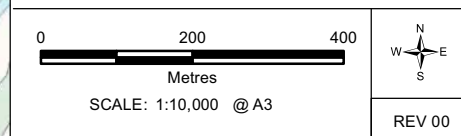
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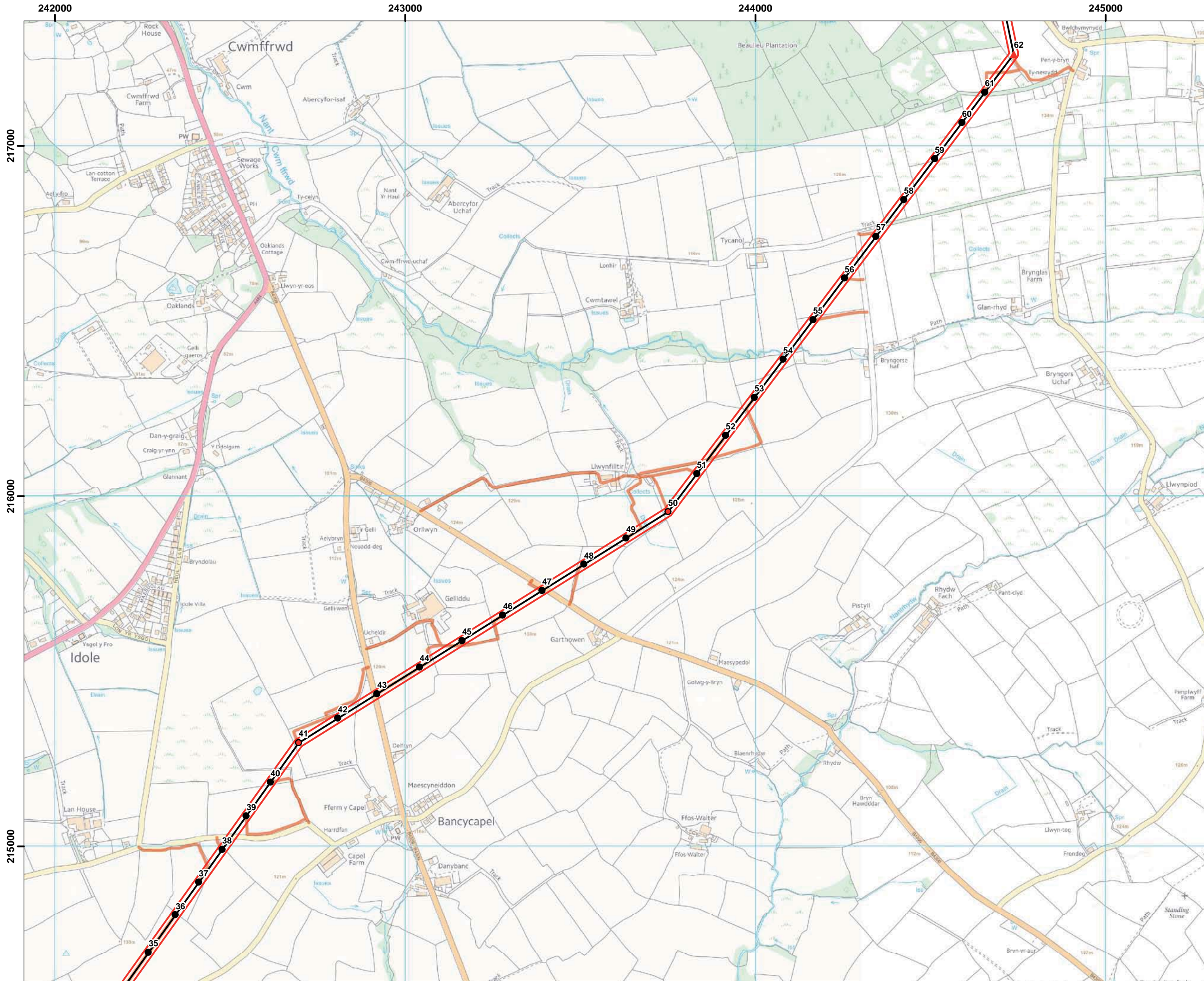


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Brechfa Forest Connection

TITLE:
Figure 2.1: The Proposed Development Map 2





- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation
 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

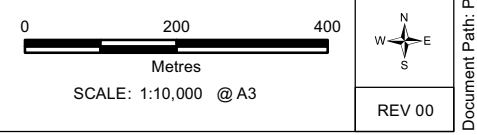
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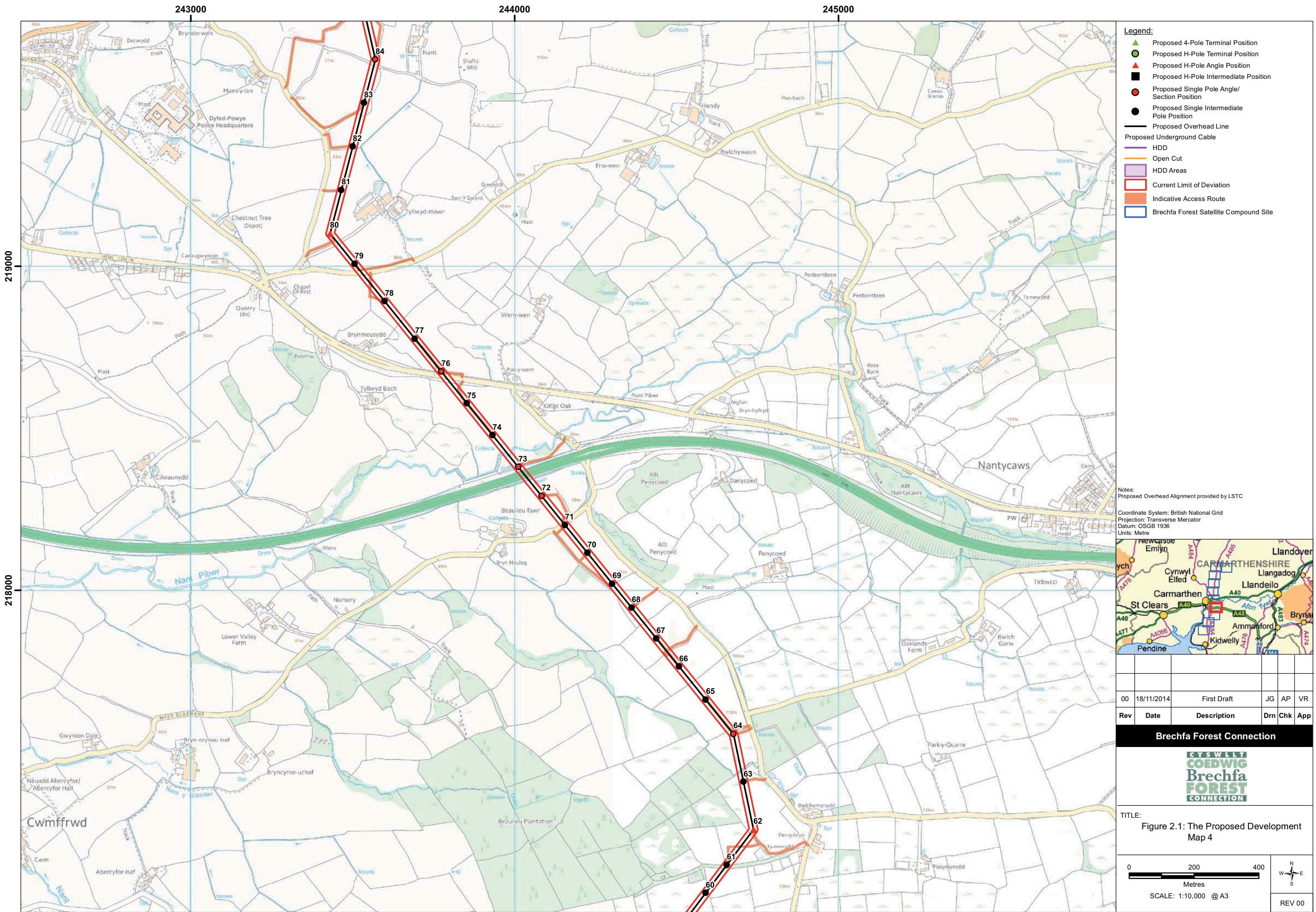


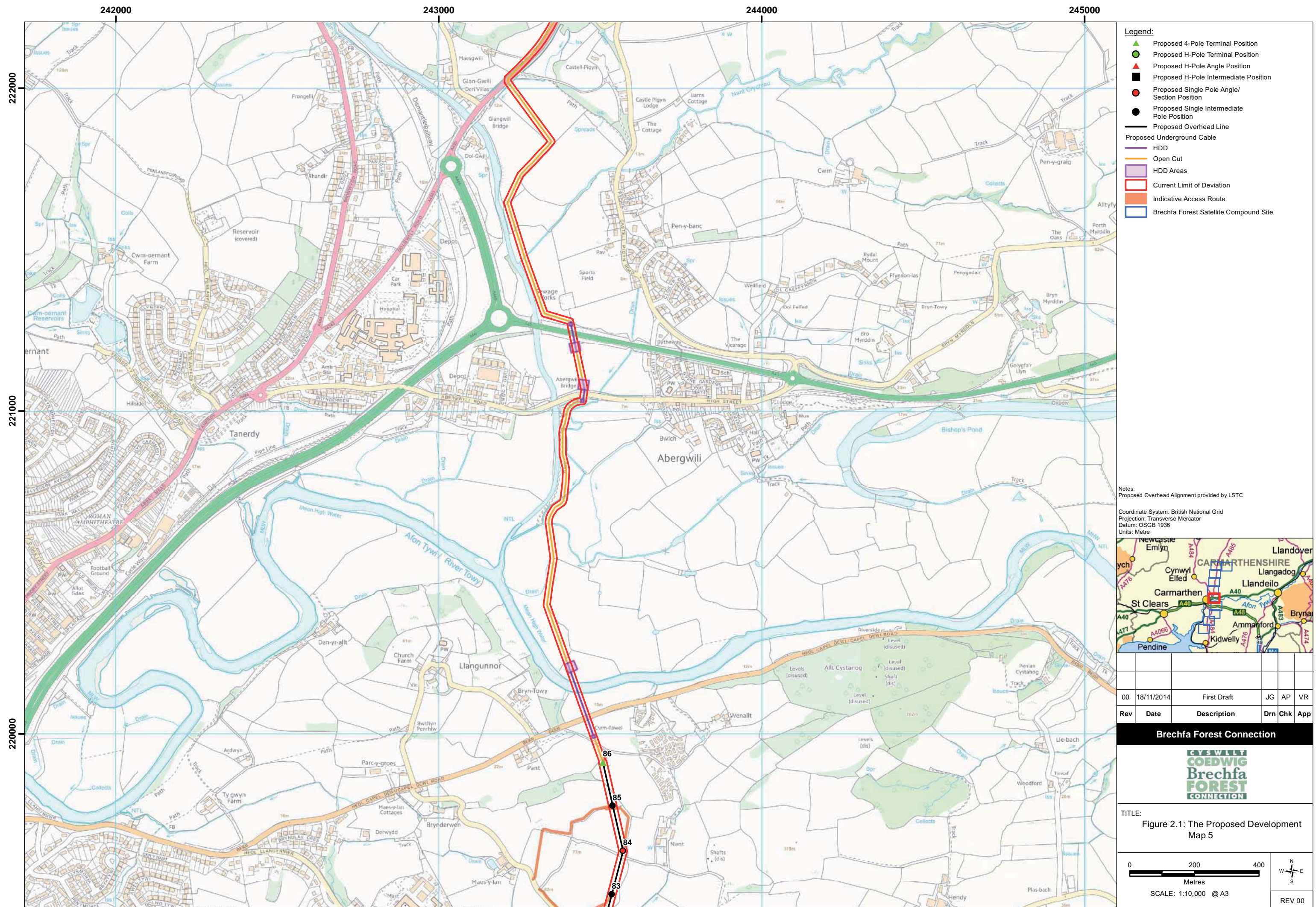
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Brechfa Forest Connection

TITLE:
Figure 2.1: The Proposed Development Map 3







- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation
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 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

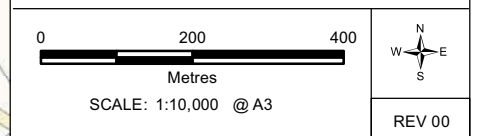
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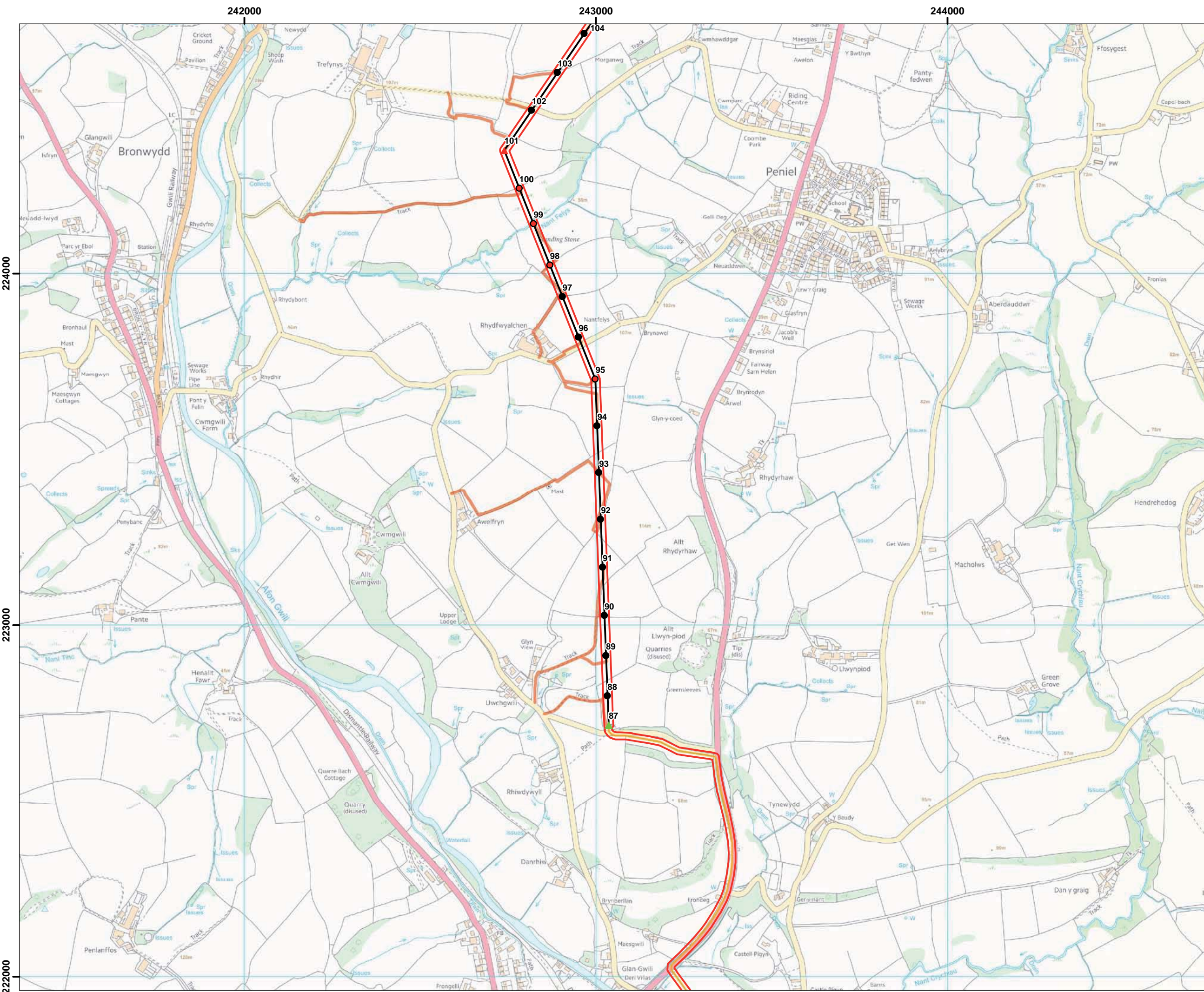


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Brechfa Forest Connection

TITLE:
Figure 2.1: The Proposed Development
Map 5





- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation
 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

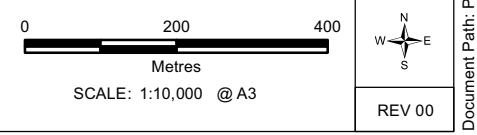
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TITLE:
Figure 2.1: The Proposed Development Map 6

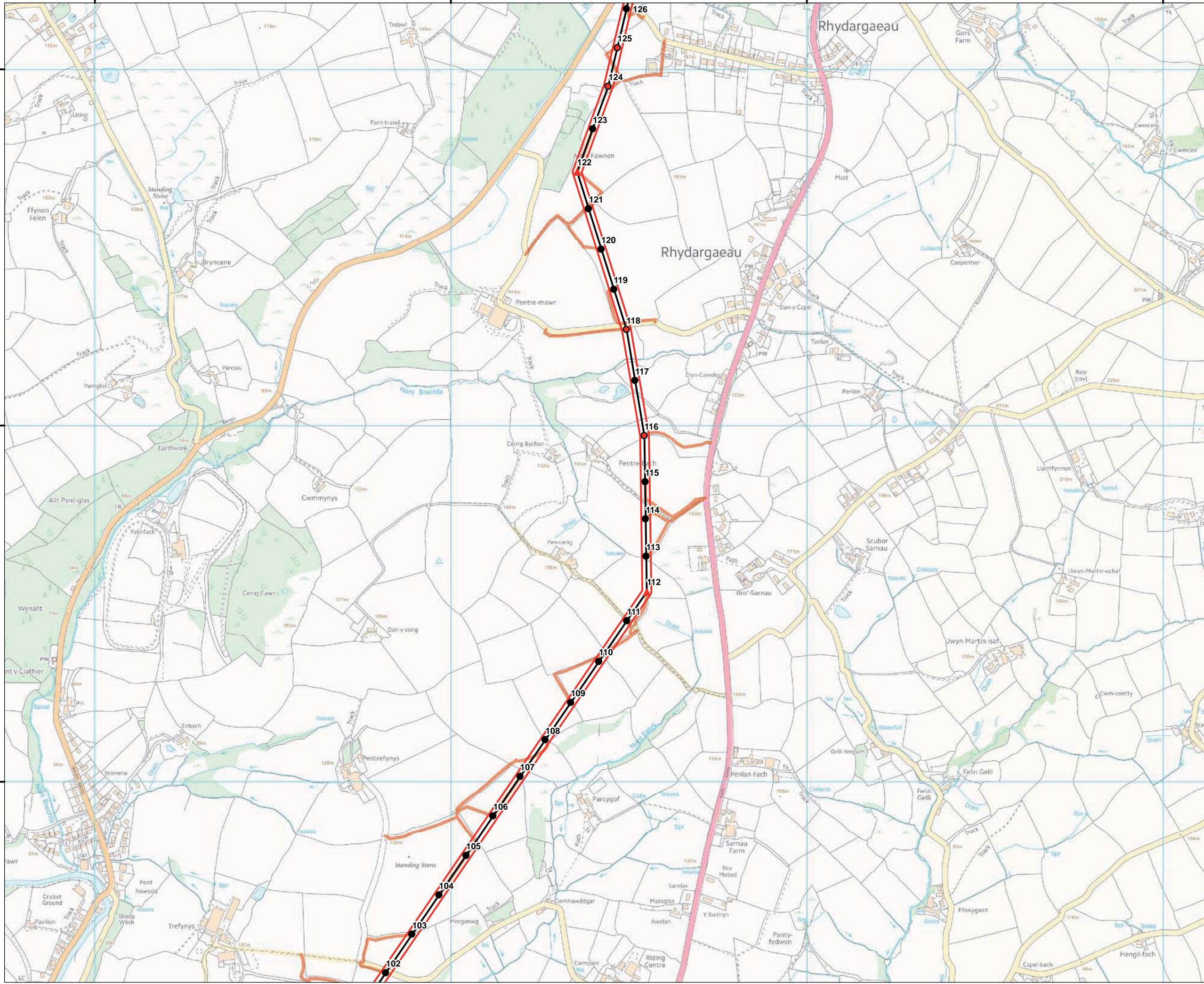


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- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
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 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation
 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

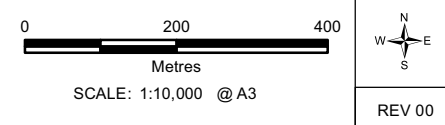
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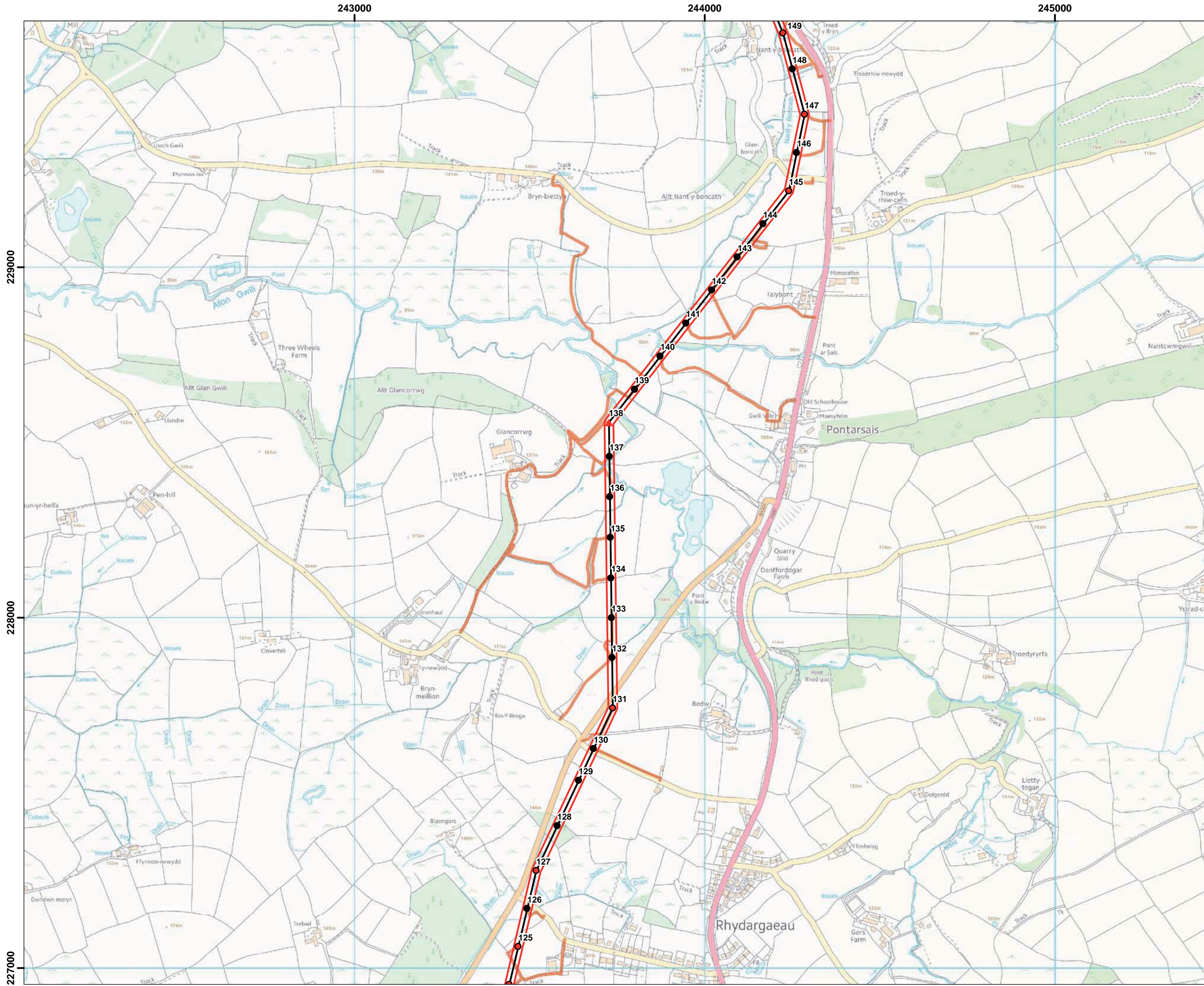


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Brechfa Forest Connection

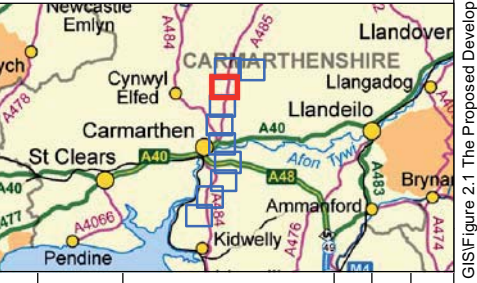
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Figure 2.1: The Proposed Development Map 7





- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation
 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

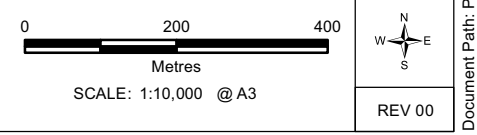
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 Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Metre



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Brechfa Forest Connection

TITLE:
 Figure 2.1: The Proposed Development Map 8



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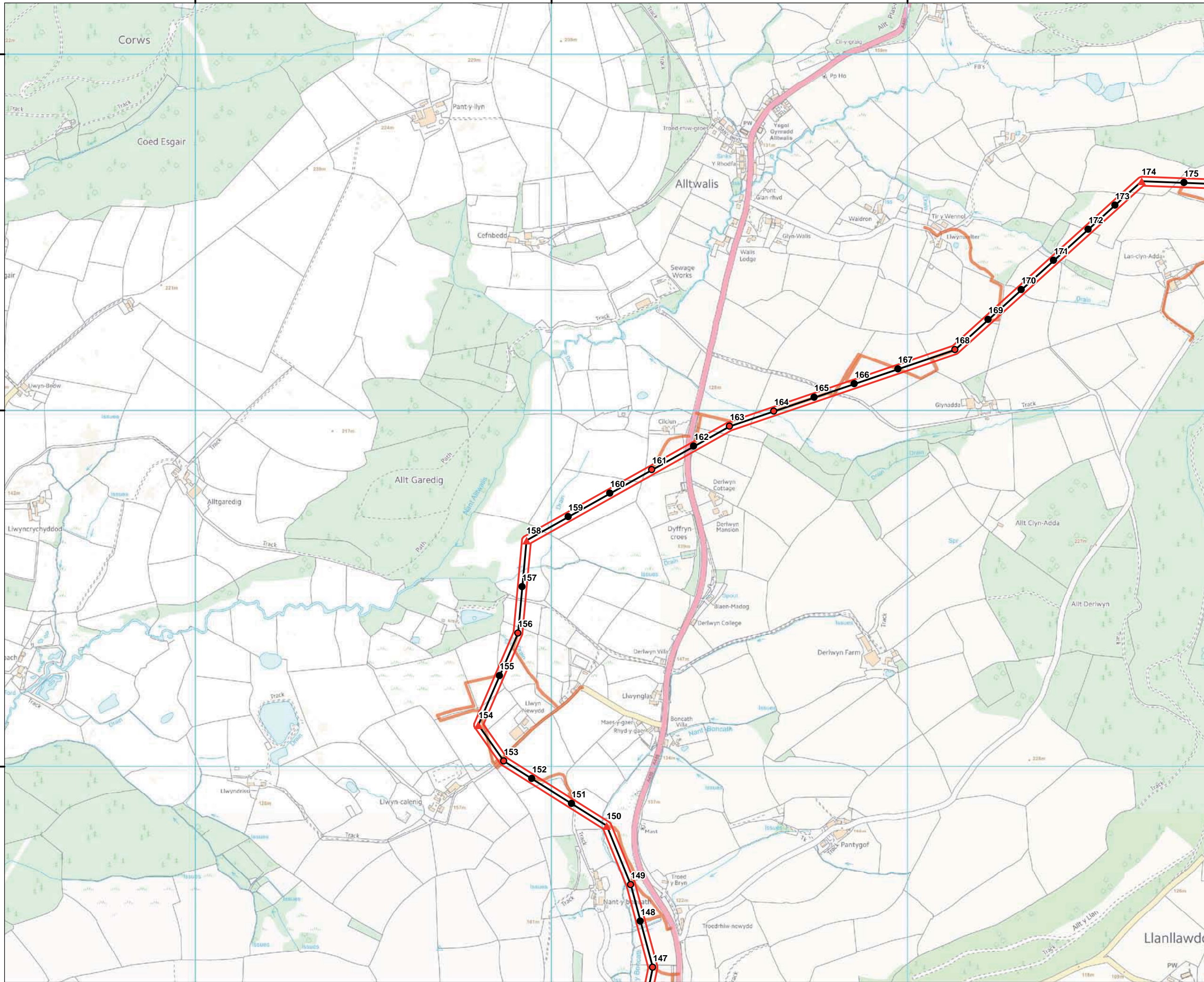
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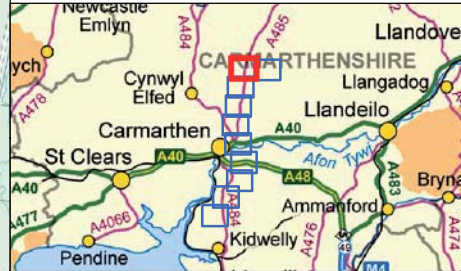
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- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
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 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

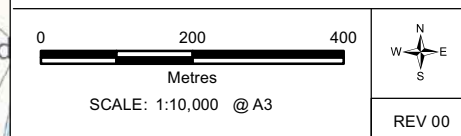
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Brechfa Forest Connection

TITLE:
Figure 2.1: The Proposed Development Map 9



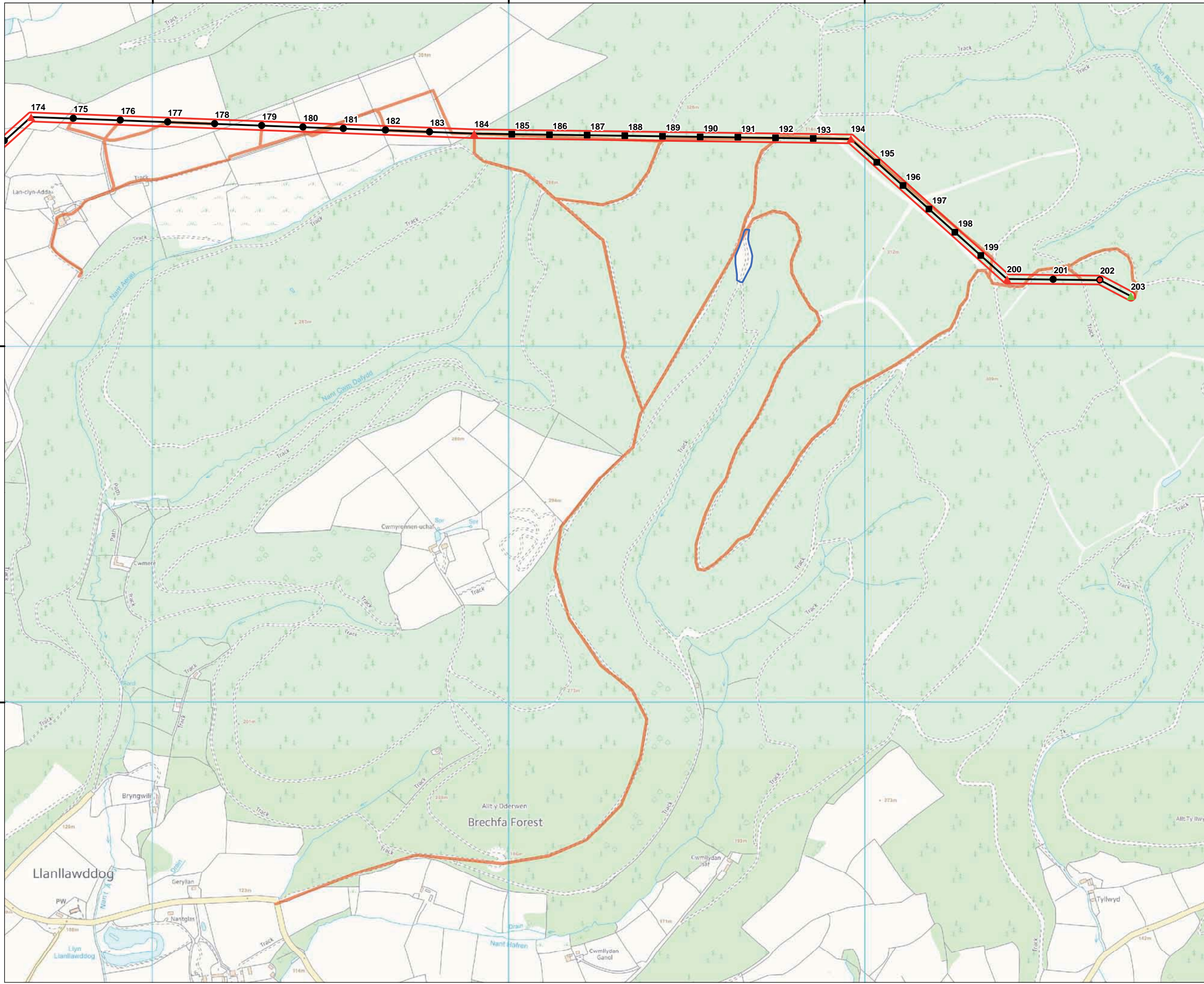
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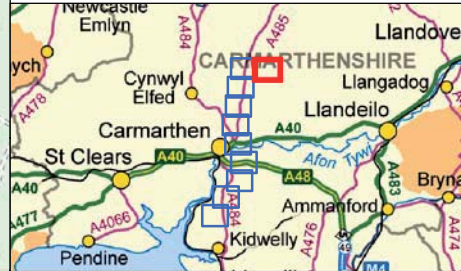
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- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
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 - Open Cut
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 - Indicative Access Route
 - Brechfa Forest Satellite Compound Site

Notes:
Proposed Overhead Alignment provided by LSTC

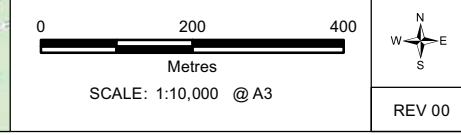
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Units: Metre



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Brechfa Forest Connection

TITLE:
Figure 2.1: The Proposed Development
Map 10



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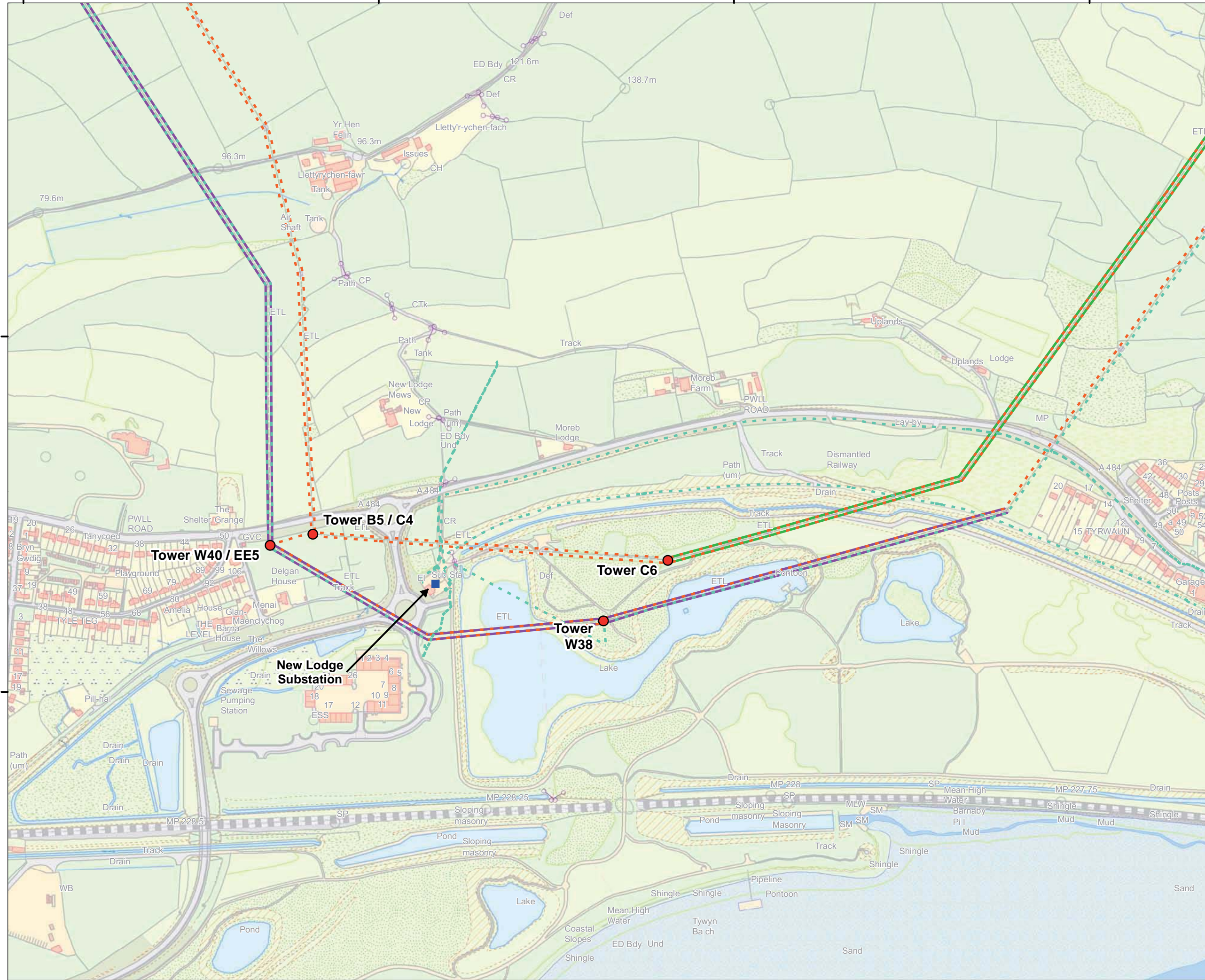
246000

246500

247000

201500

201000



- Legend:**
- Towers
 - New Lodge Substation
 - EE line (WPD)
 - V line (WPD)
 - - - 33kV line (WPD)
 - - - 132kV line (WPD)

Notes:
WPD asset locations displayed are indicative

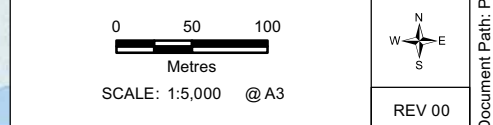
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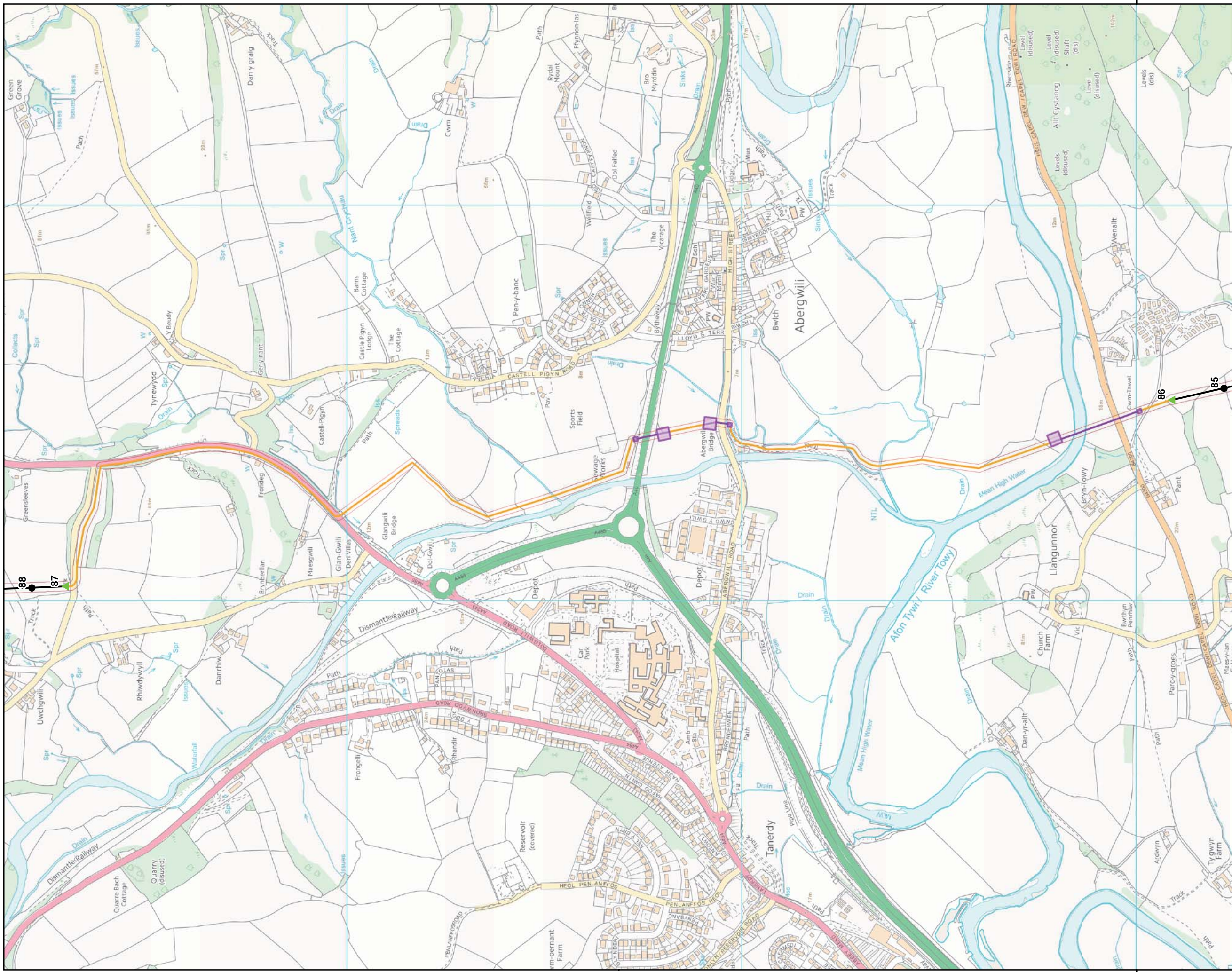


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TITLE: Figure 2.2
Burry Port works

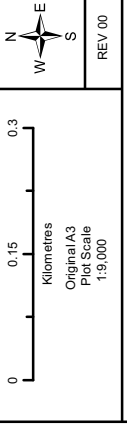




Brechfa Forest Connection

Figure 2.3 Underground Section

- Legend:**
- Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle
 - Section Position
 - Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - Current Limit of Deviation



Coordinate System: British National Grid
 Datum: OSGB 1936
 Units: Metre

© Crown copyright and database rights 2014. Ordnance Survey 100031673
 Contains Ordnance Survey data © Crown copyright and database right 2014.
 Document Path: P:\EIA\110000 - EPD South Projects\110516 - Brechfa Forest\GIS\Figure 2.3 Underground Section.mxd



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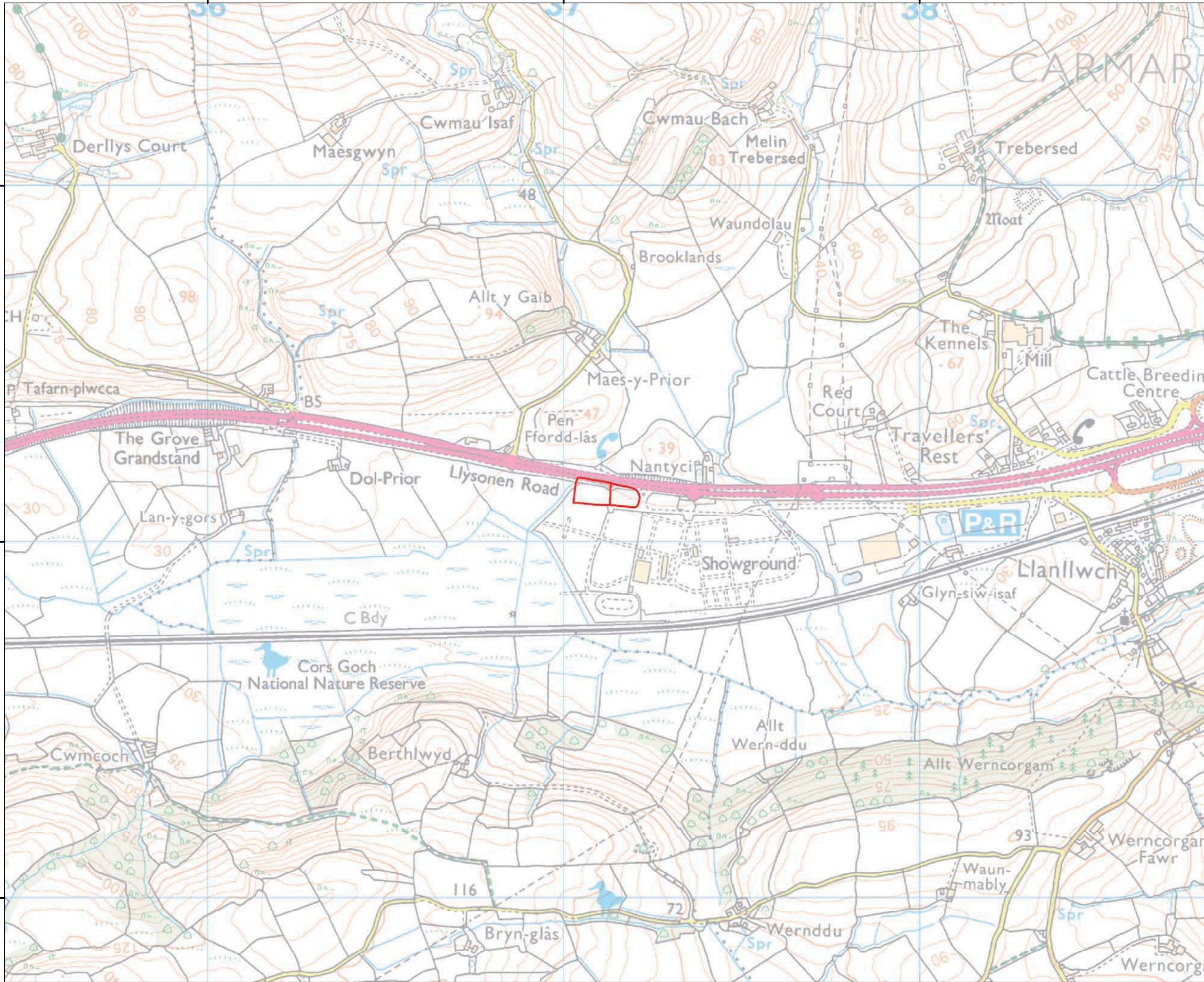
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220000

219000

218000



Legend:
 Carmarthen Showground Compound Site

Notes:
 Compound Site data provided by WPD

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Metre

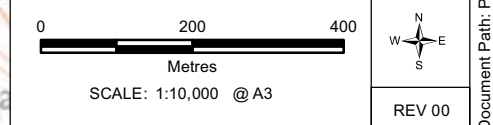


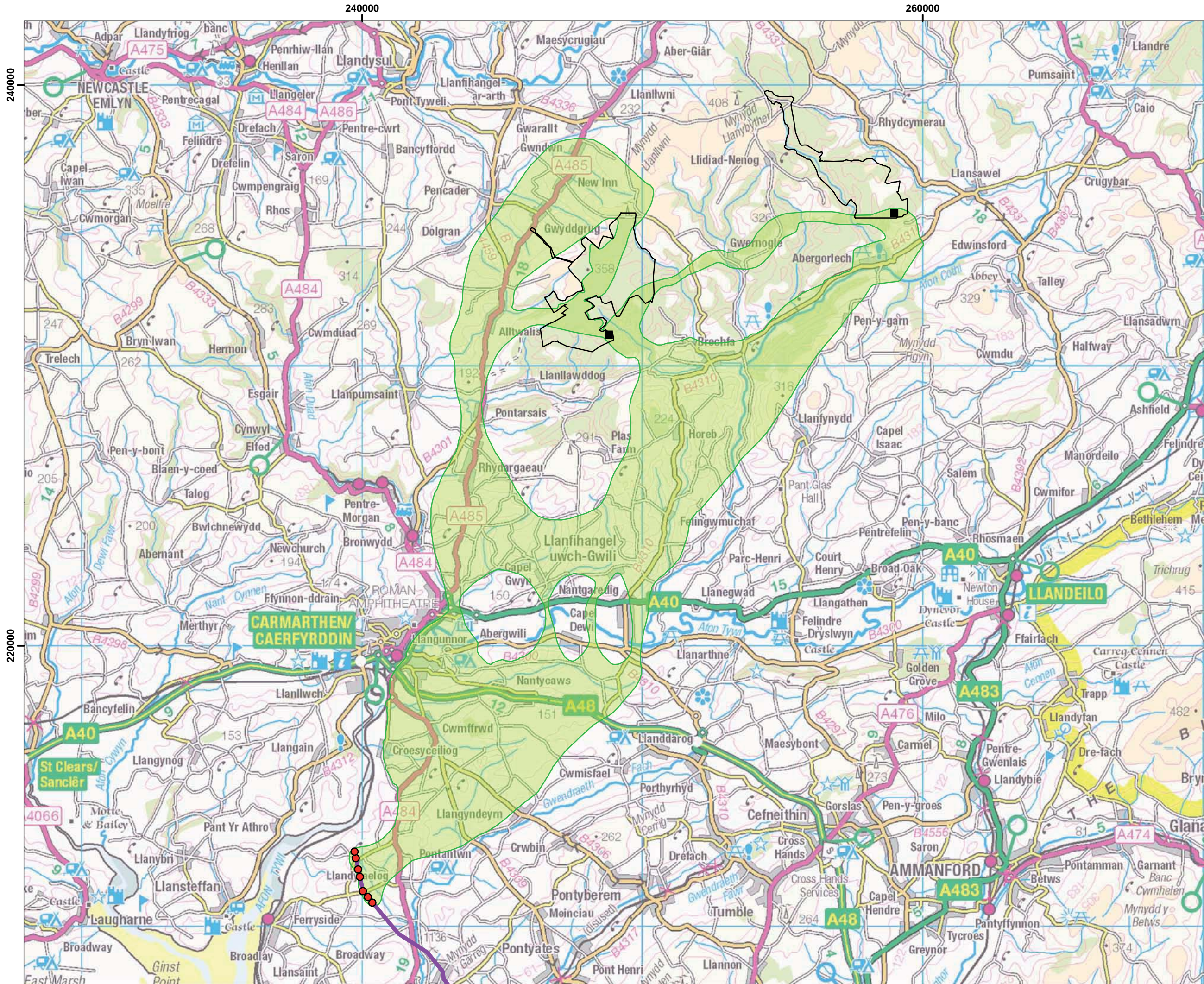
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Brechfa Forest Connection



TITLE:
 Figure 2.4: Carmarthen Showground Compound Site





- Legend:**
- Grid Connection Point Options
 - Onsite substations included with planning applications for Brechfa Forest West and Brechfa Forest East wind farms
 - EE line (WPD)
 - Brechfa Forest West and Brechfa Forest East wind farms
 - Route corridor options

Notes:
WPD asset locations displayed are indicative

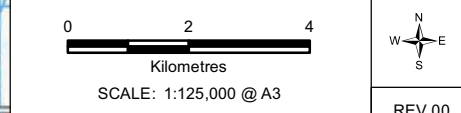
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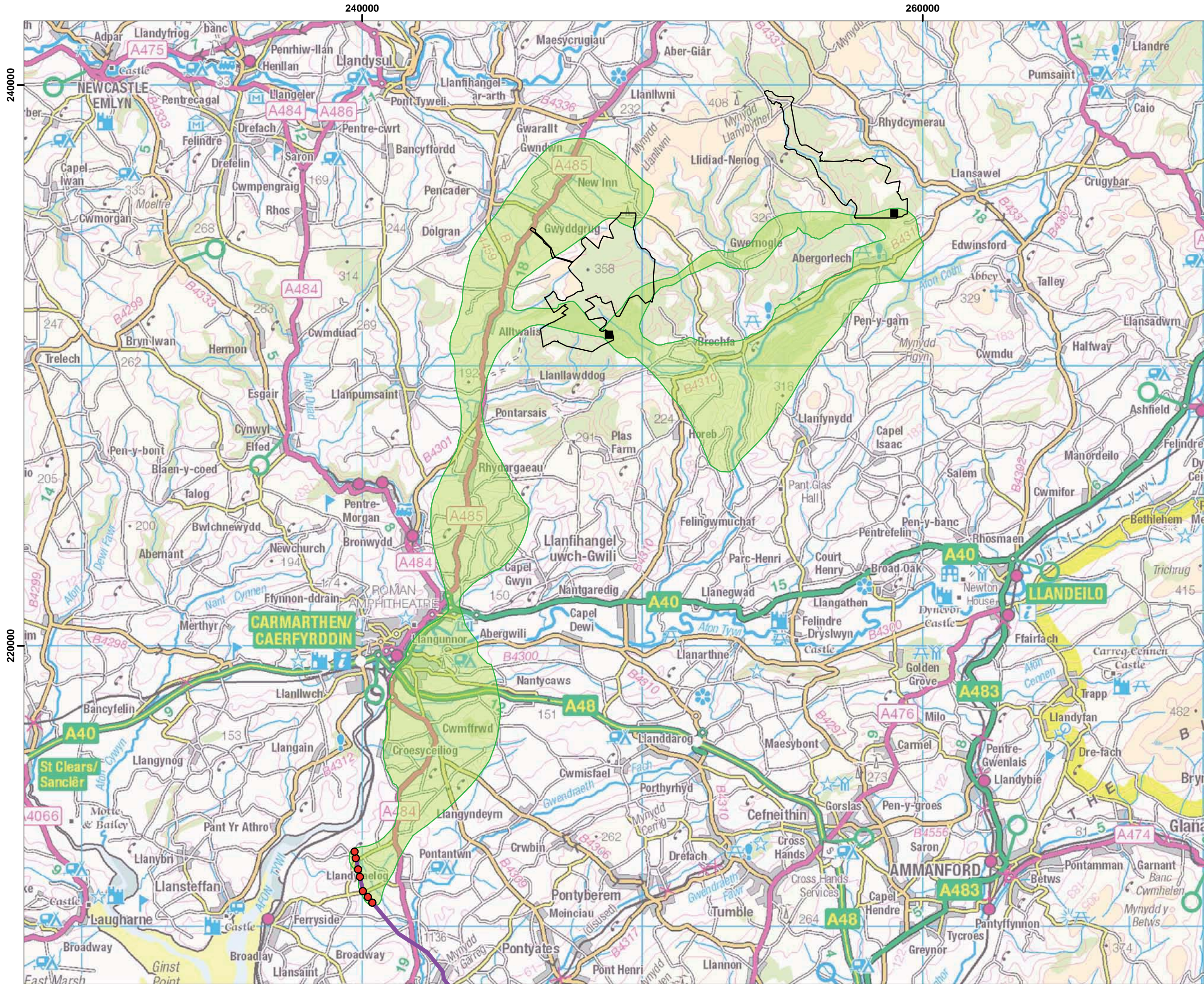


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Brechfa Forest Connection

TITLE: Figure 2.5
Route Corridor Options





- Legend:**
- Grid Connection Point Options
 - Onsite substations included with planning applications for Brechfa Forest West and Brechfa Forest East wind farms
 - EE line (WPD)
 - Brechfa Forest West and Brechfa Forest East wind farms
 - Preferred Route Corridor

Notes:
WPD asset locations displayed are indicative

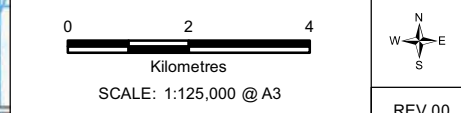
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Units: Metre



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Brechfa Forest Connection

TITLE: Figure 2.6
Preferred Route Corridor

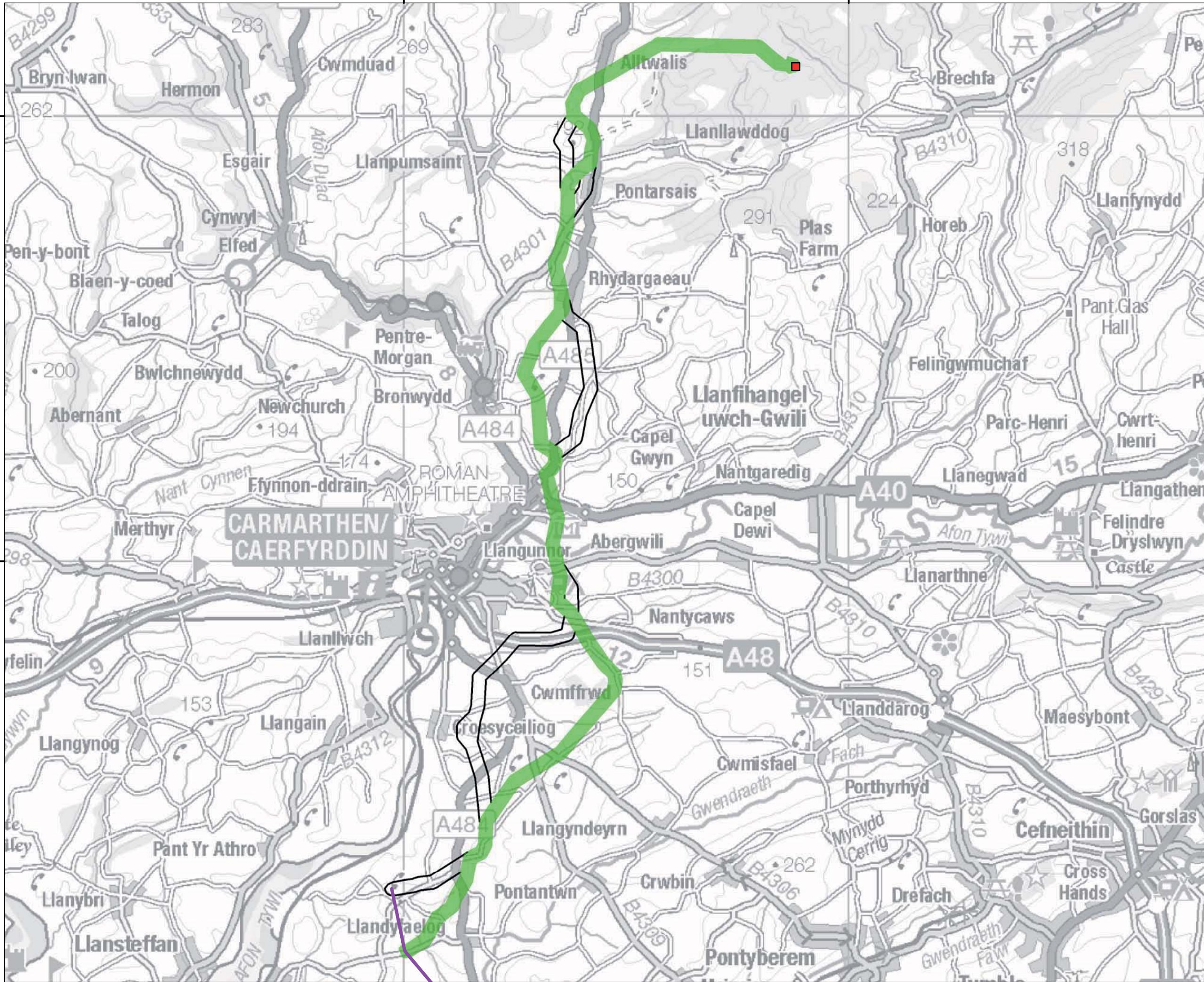


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- Legend:**
- Onsite substation included with planning application for Brechfa Forest West wind farm
 - Preferred Alignment Corridor
 - Unselected Alignment Corridors
 - EE line (WPD)

Notes:
WPD asset locations displayed are indicative

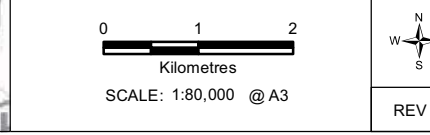
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Units: Metre



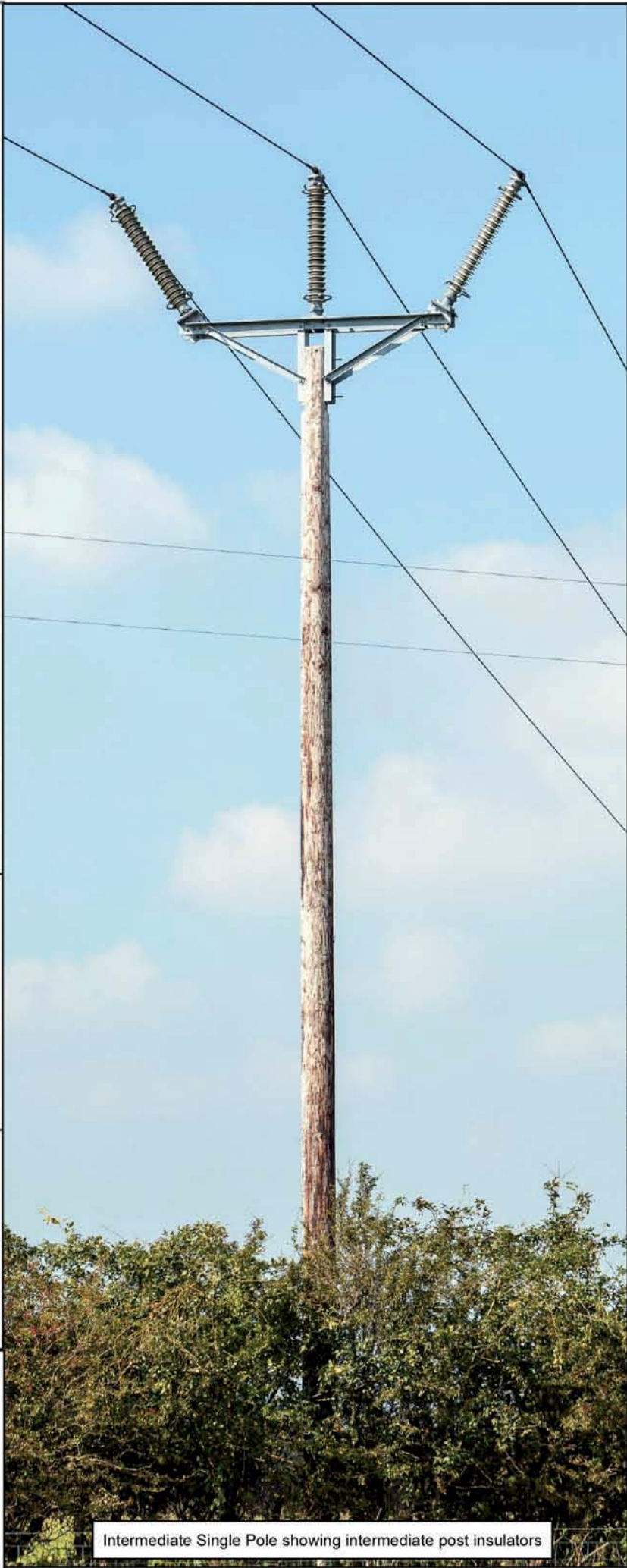
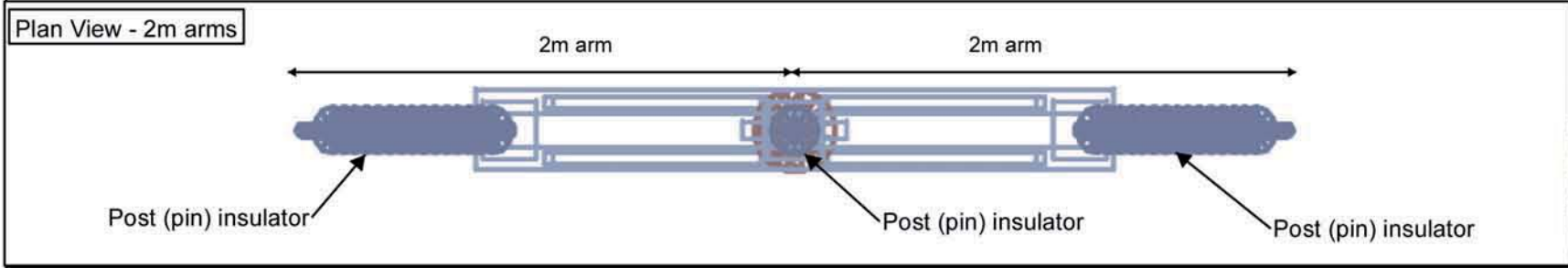
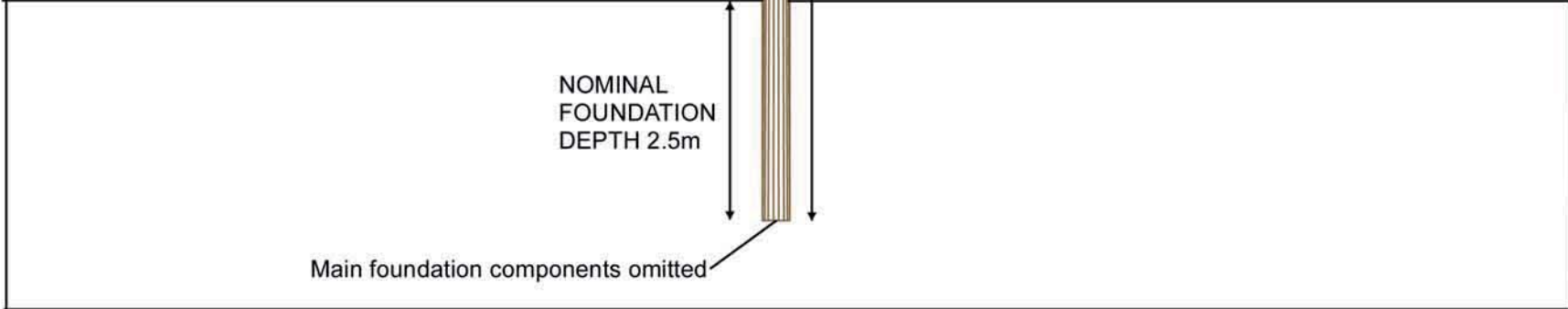
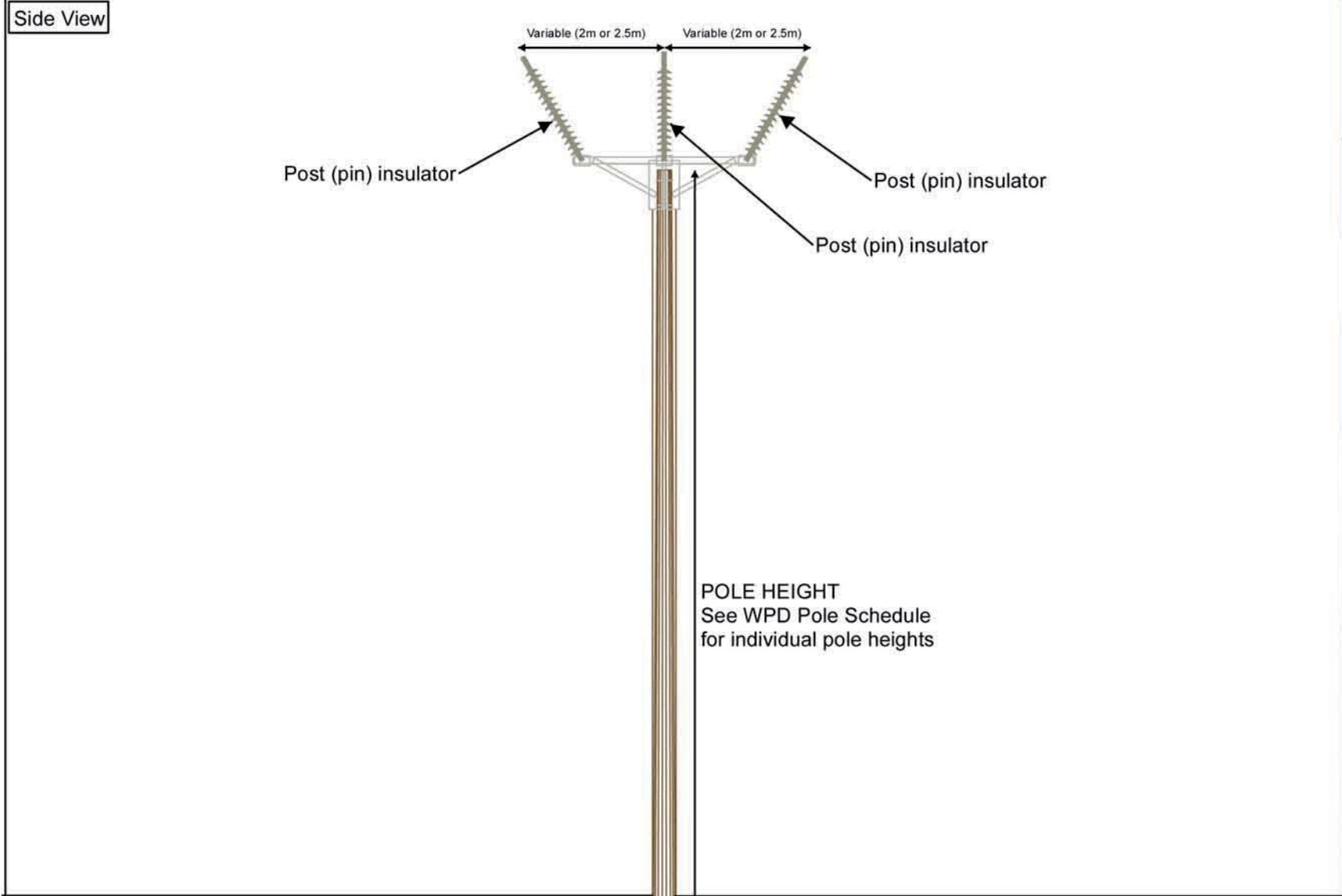
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TITLE:
Figure 2.7 Feasible Route Alignment Options



REV 00



Intermediate Single Pole showing intermediate post insulators

Notes:-
Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

CAD drawings provided by LSTC:
43-50_single-inter_10m_ex stout.dxf
43-50_single-inter_11m_ex stout.dxf
43-50_single-inter_12m_ex stout.dxf
43-50_single-inter_13m_ex stout.dxf
43-50_single-inter_14m_ex stout.dxf
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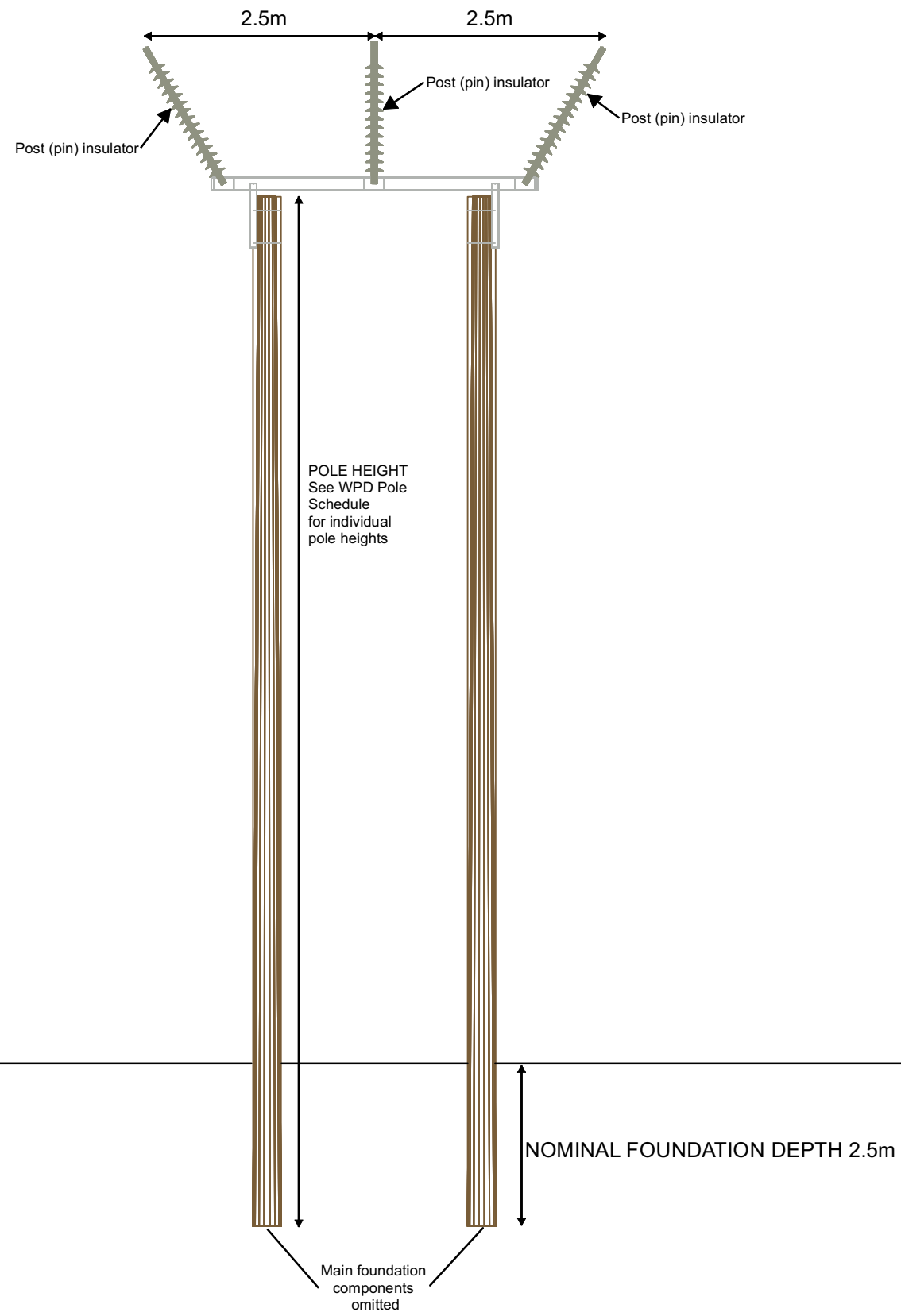
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Brechfa Forest Connection

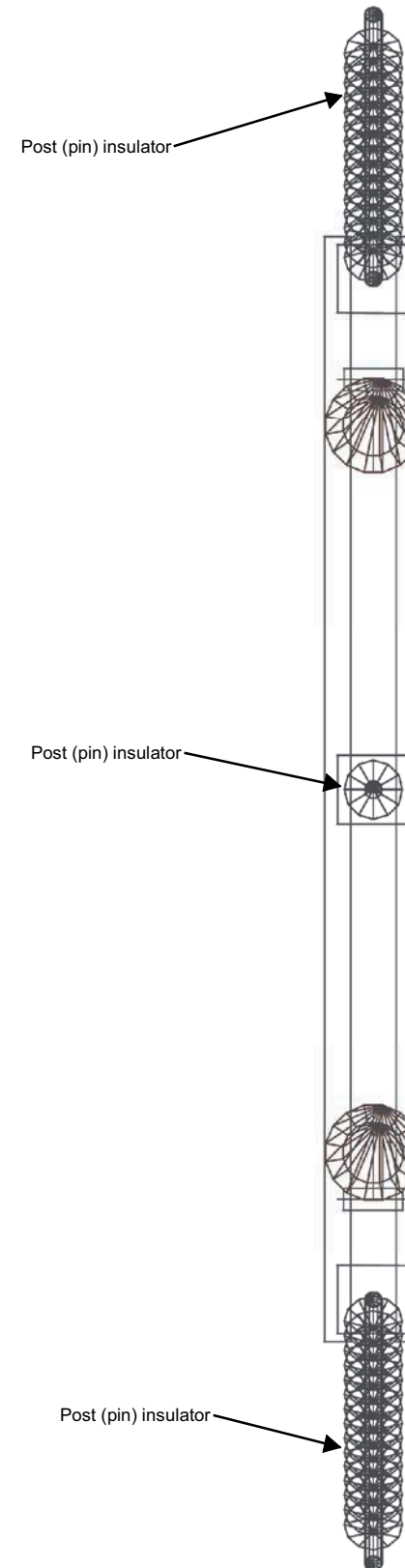
TITLE: Figure 2.8
Intermediate Pole
(Based on EA TS 43-50 Specification)

Not To Scale

Side View



Plan View



Notes:-

Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

CAD drawings provided by LSTC:
 43-50_H-INTER_10m_EX STOUT.dxf
 43-50_H-INTER_11m_EX STOUT.dxf
 43-50_H-INTER_12m_EX STOUT.dxf
 43-50_H-INTER_13m_EX STOUT.dxf
 43-50_H-INTER_14m_EX STOUT.dxf
 43-50_H-INTER_15m_EX STOUT.dxf
 43-50_H-INTER_16m_EX STOUT.dxf

Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	TC	VR

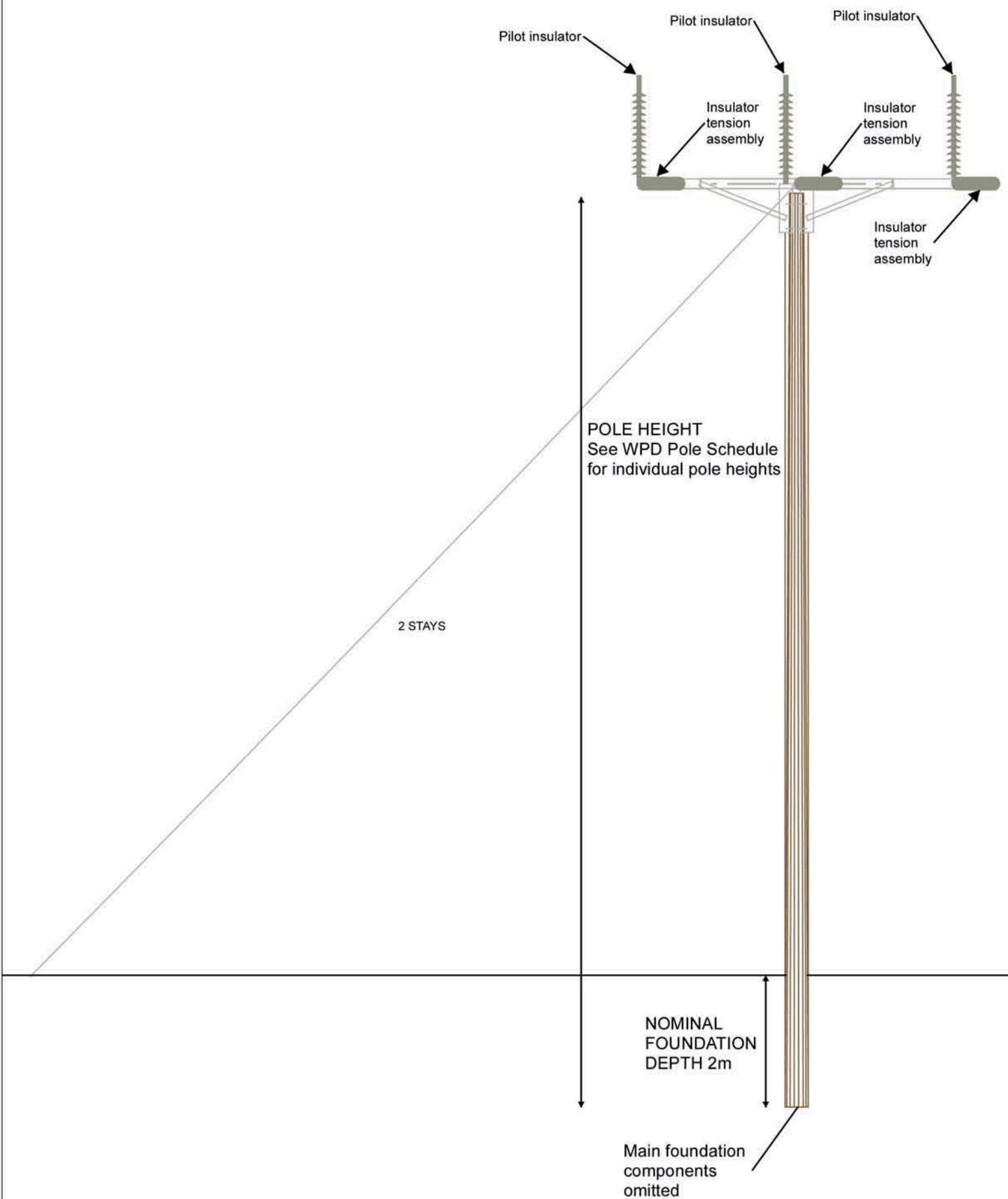
Brechfa Forest Connection



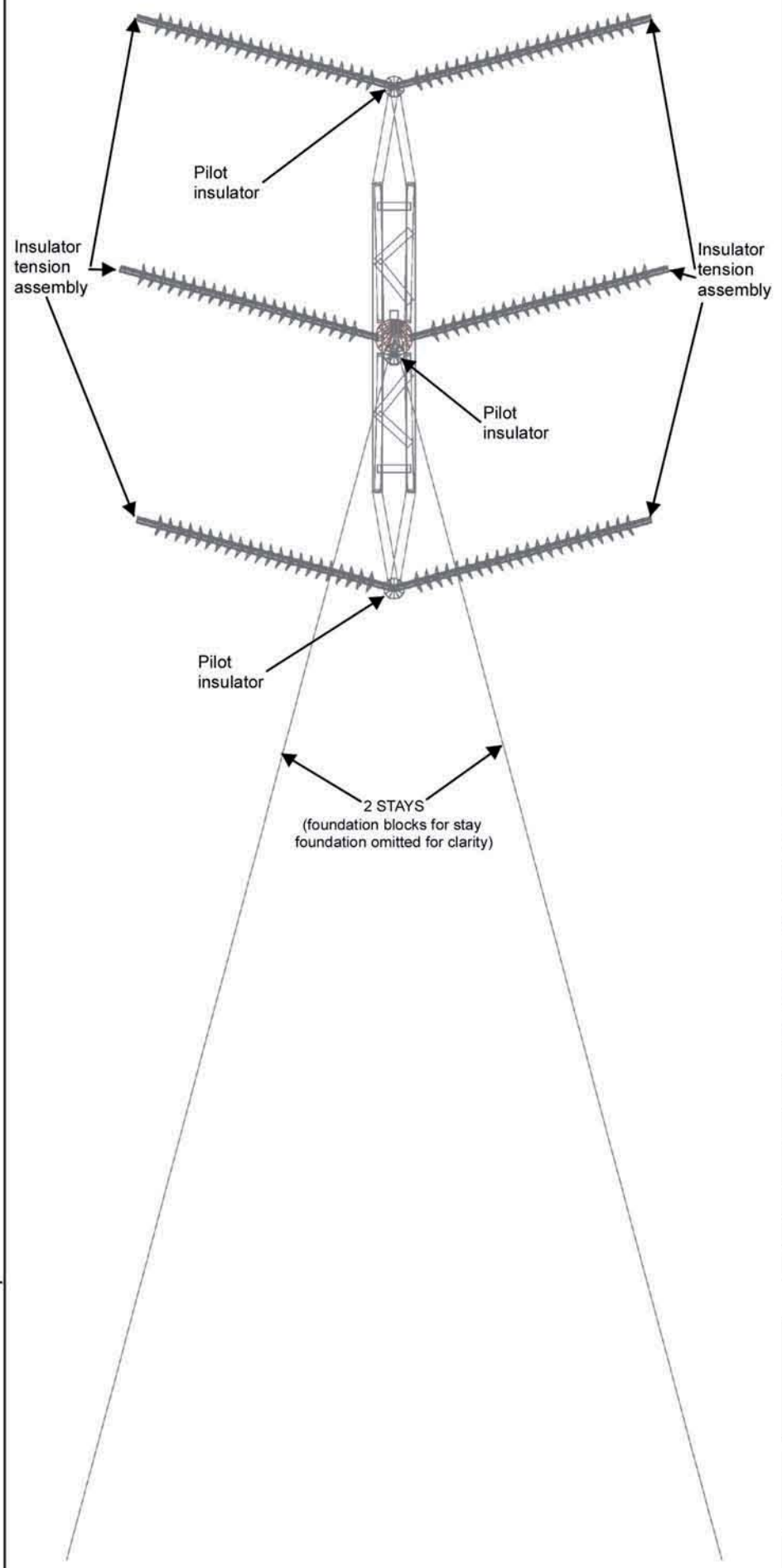
TITLE: Figure 2.9
 Intermediate H-Pole
 (Based on EA TS 43-50 Specification)

Not To Scale

Side View



Plan View



Notes:-
Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

CAD drawings provided by LSTC:
43-50_single-angle_10m_ex stout_2sty.dxf
43-50_single-angle_11m_ex stout_2sty.dxf
43-50_single-angle_12m_ex stout_2sty.dxf
43-50_single-angle_13m_ex stout_2sty.dxf
43-50_single-angle_14m_ex stout_2sty.dxf
43-50_single-angle_15m_ex stout_2sty.dxf
43-50_single-angle_16m_ex stout_2sty.dxf
43-50_single-angle_17m_ex stout_2sty.dxf
43-50_single-angle_18m_ex stout_2sty.dxf

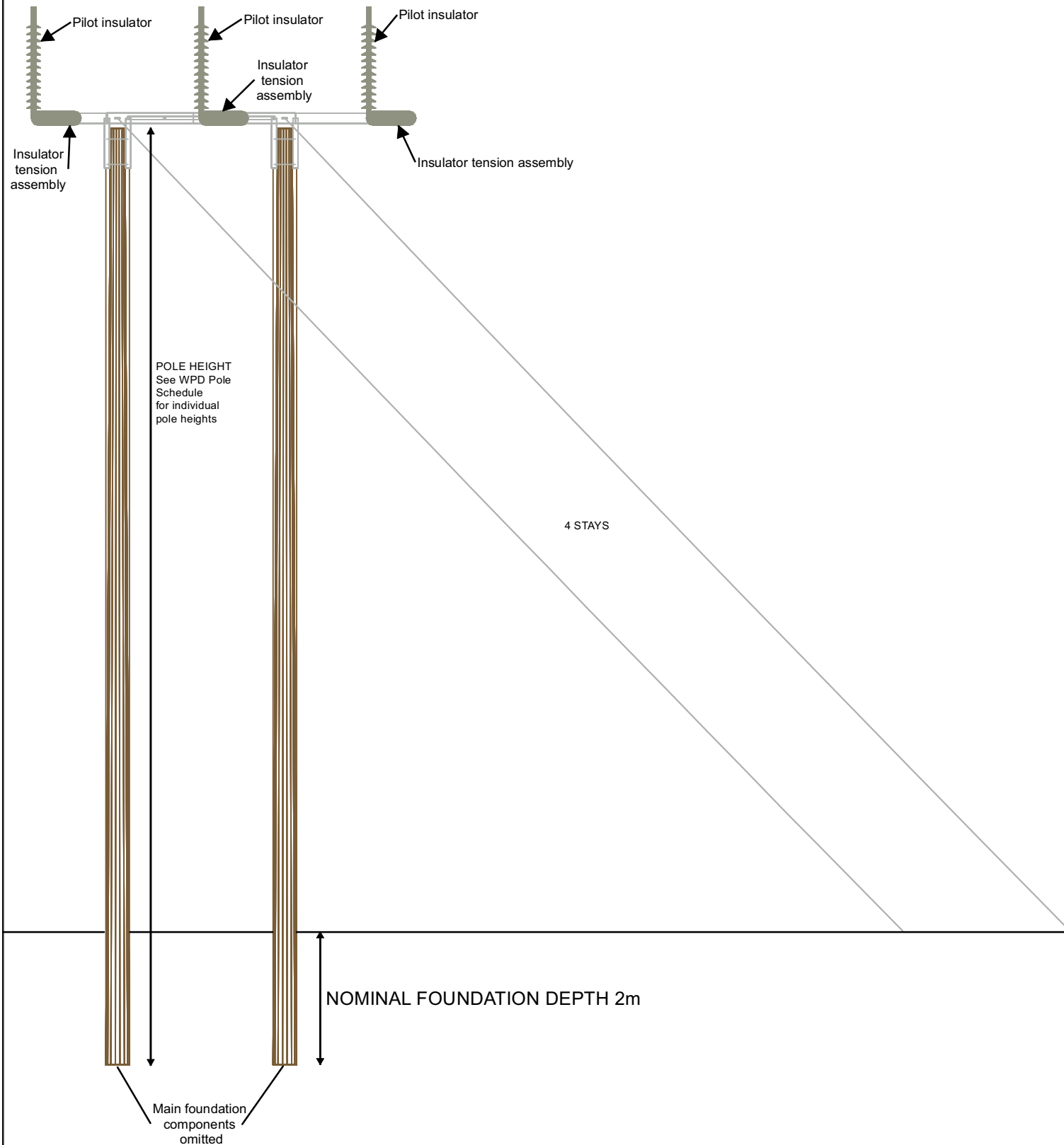
Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	TC	VR



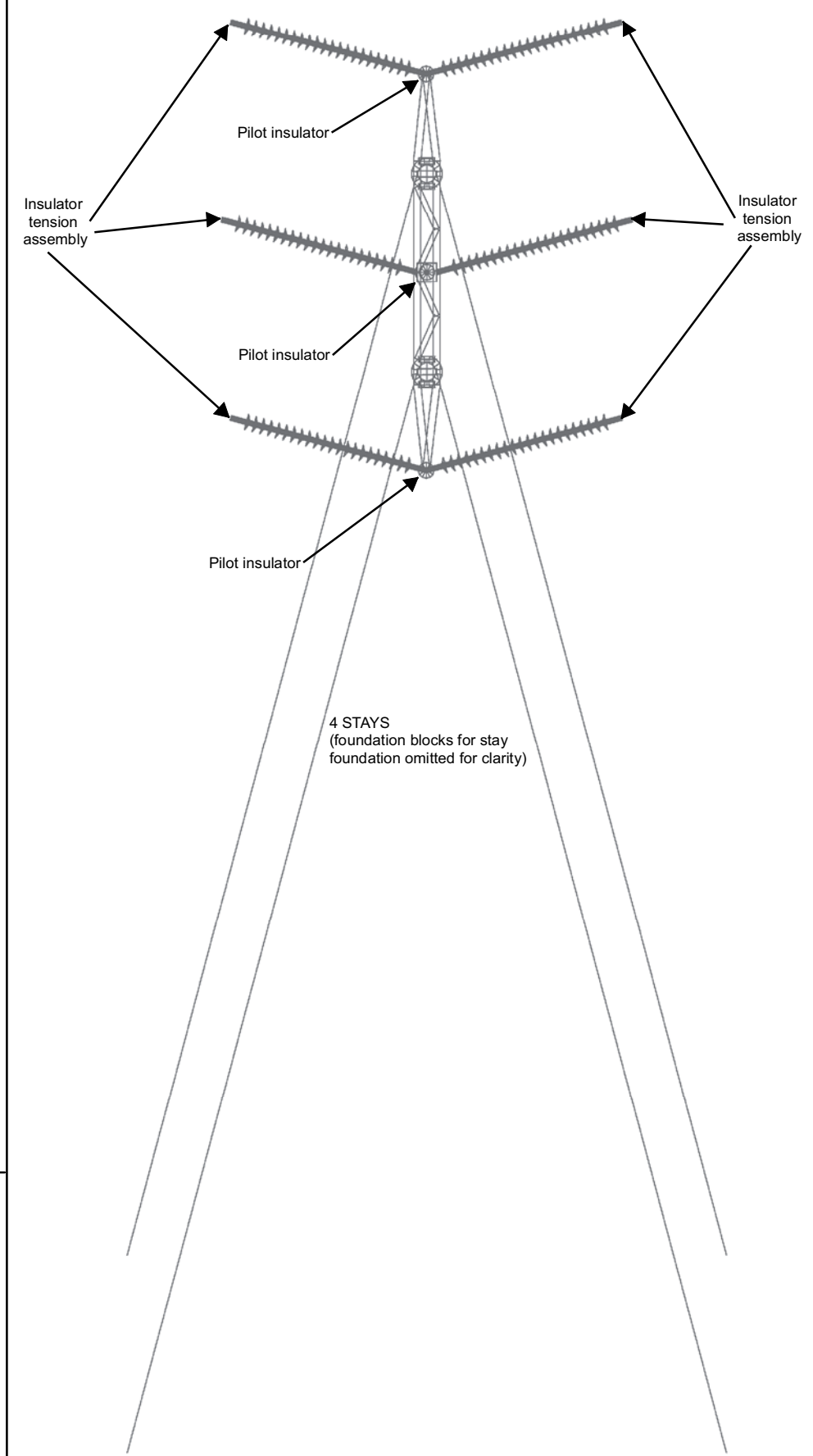
TITLE: Figure 2.10
Single Angle Pole
(Based on EA TS 43-50 Specification)

Not To Scale

Side View



Plan View



Notes:-
Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

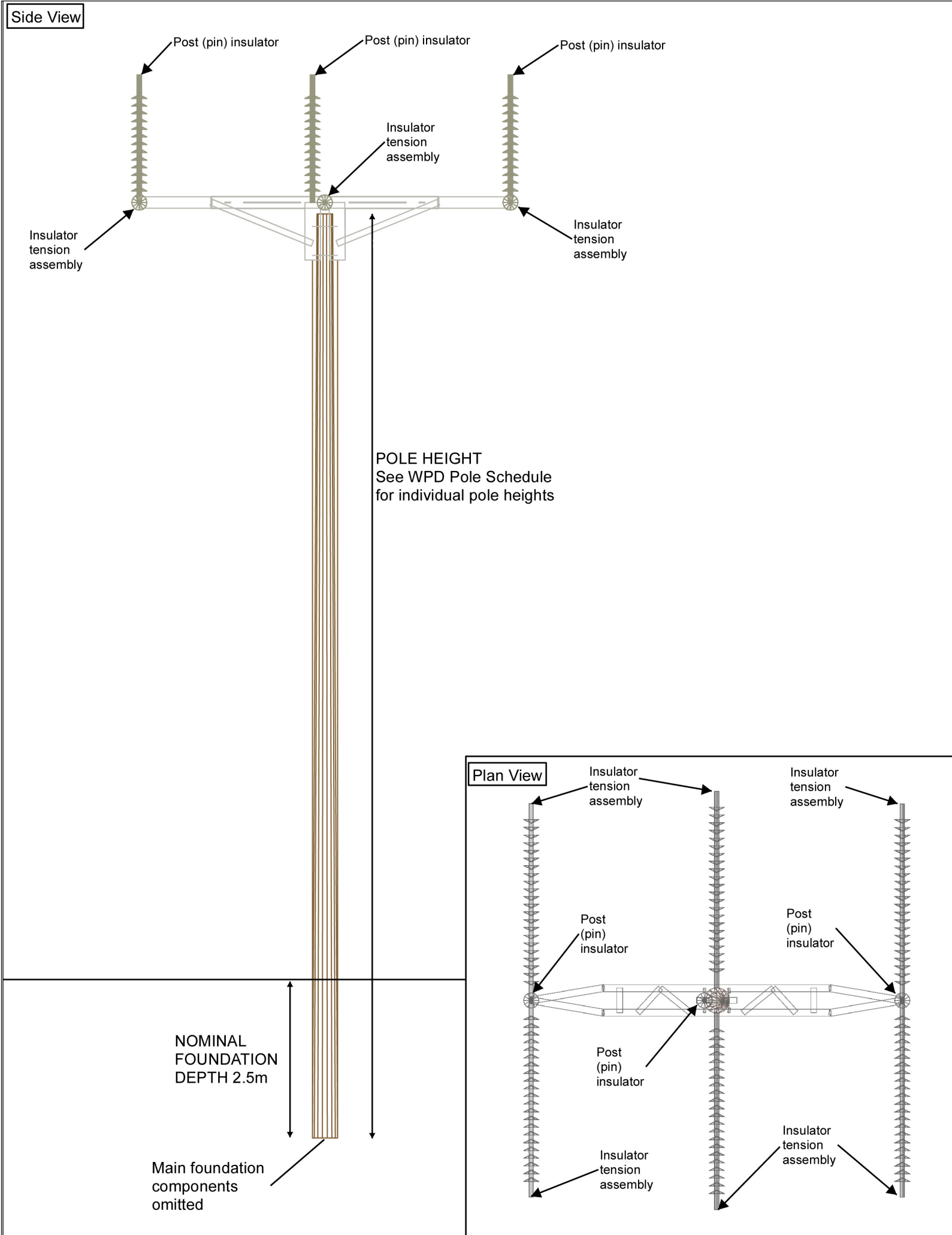
CAD drawings provided by LSTC:
43-50_H-ANGLE_10m_4 STAYS_EX STOUT.dxf
43-50_H-ANGLE_11m_4 STAYS_EX STOUT.dxf
43-50_H-ANGLE_12m_4 STAYS_EX STOUT.dxf
43-50_H-ANGLE_13m_4 STAYS_EX STOUT.dxf
43-50_H-ANGLE_14m_4 STAYS_EX STOUT.dxf
43-50_H-ANGLE_15m_4 STAYS_EX STOUT.dxf
43-50_H-ANGLE_16m_4 STAYS_EX STOUT.dxf

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00	18/11/2014	First Draft	JG	TC	VR

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TITLE: Figure 2.11
Angle H-Pole
(Based on EA TS 43-50 Specification)

Not To Scale



Section Single Pole showing Tension insulators and Pilot insulators. The Pilot insulators support the 'jumper' over the top of the crossarm.

Notes:-

Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

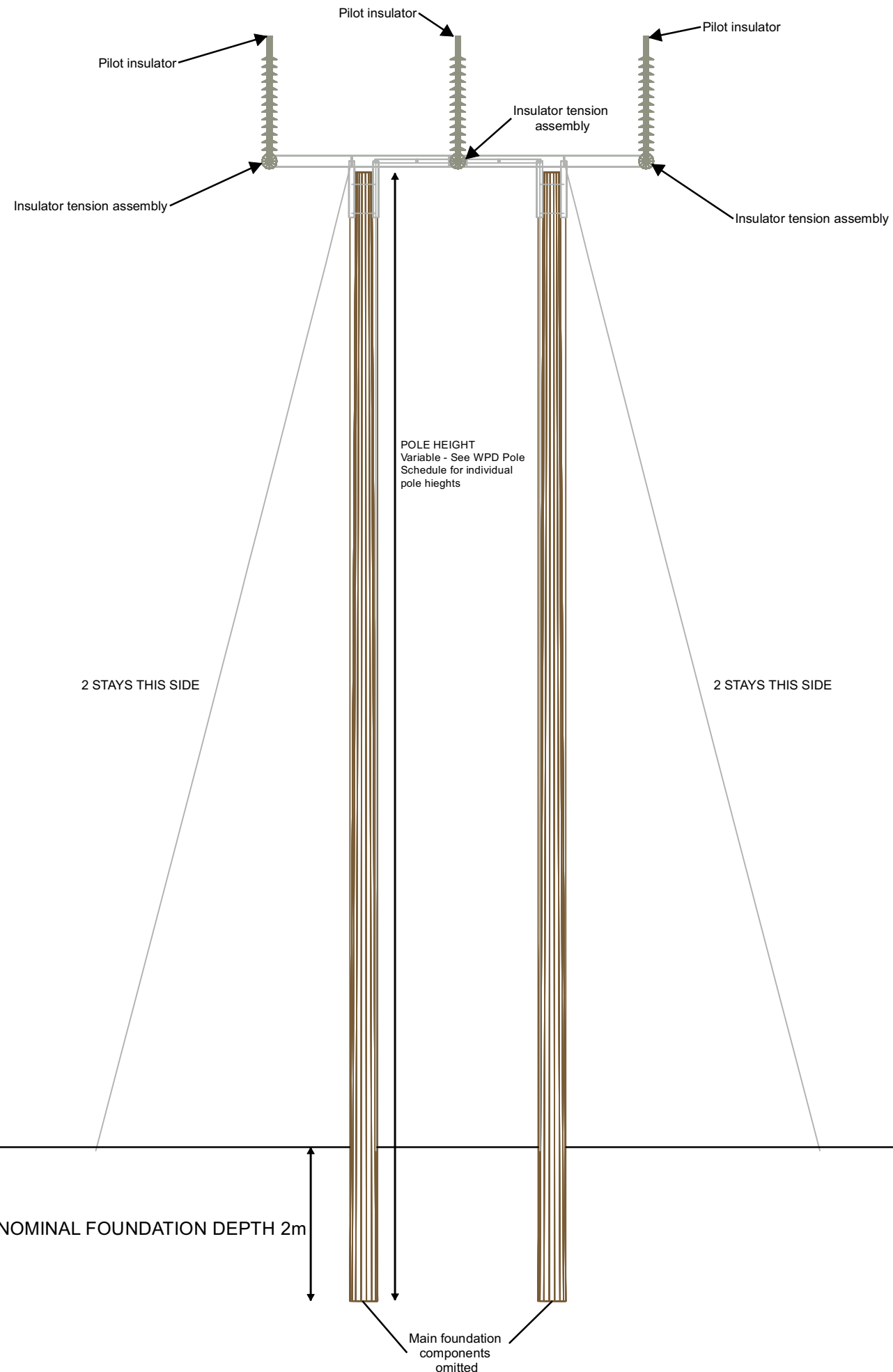
CAD drawings provided by LSTC:
 43-50_single-section_10m_ex stout.dxf
 43-50_single-section_11m_ex stout.dxf
 43-50_single-section_12m_ex stout.dxf
 43-50_single-section_13m_ex stout.dxf
 43-50_single-section_14m_ex stout.dxf
 43-50_single-section_15m_ex stout.dxf
 43-50_single-section_16m_ex stout.dxf
 43-50_single-section_17m_ex stout.dxf
 43-50_single-section_18m_ex stout.dxf

Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	TC	VR

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TITLE: Figure 2.12
 Single Section Pole
 (Based on EA TS 43-50 Specification)

Not To Scale



Notes:-

Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

CAD drawings provided by LSTC:
 43-50_H-TERMINAL_11m_4 STAYS_EX STOUT.dxf
 43-50_H-TERMINAL_12m_4 STAYS_EX STOUT.dxf
 43-50_H-TERMINAL_13m_4 STAYS_EX STOUT.dxf
 43-50_H-TERMINAL_14m_4 STAYS_EX STOUT.dxf
 43-50_h-pole-terminal_15m_ex stout.dxf

Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	TC	VR

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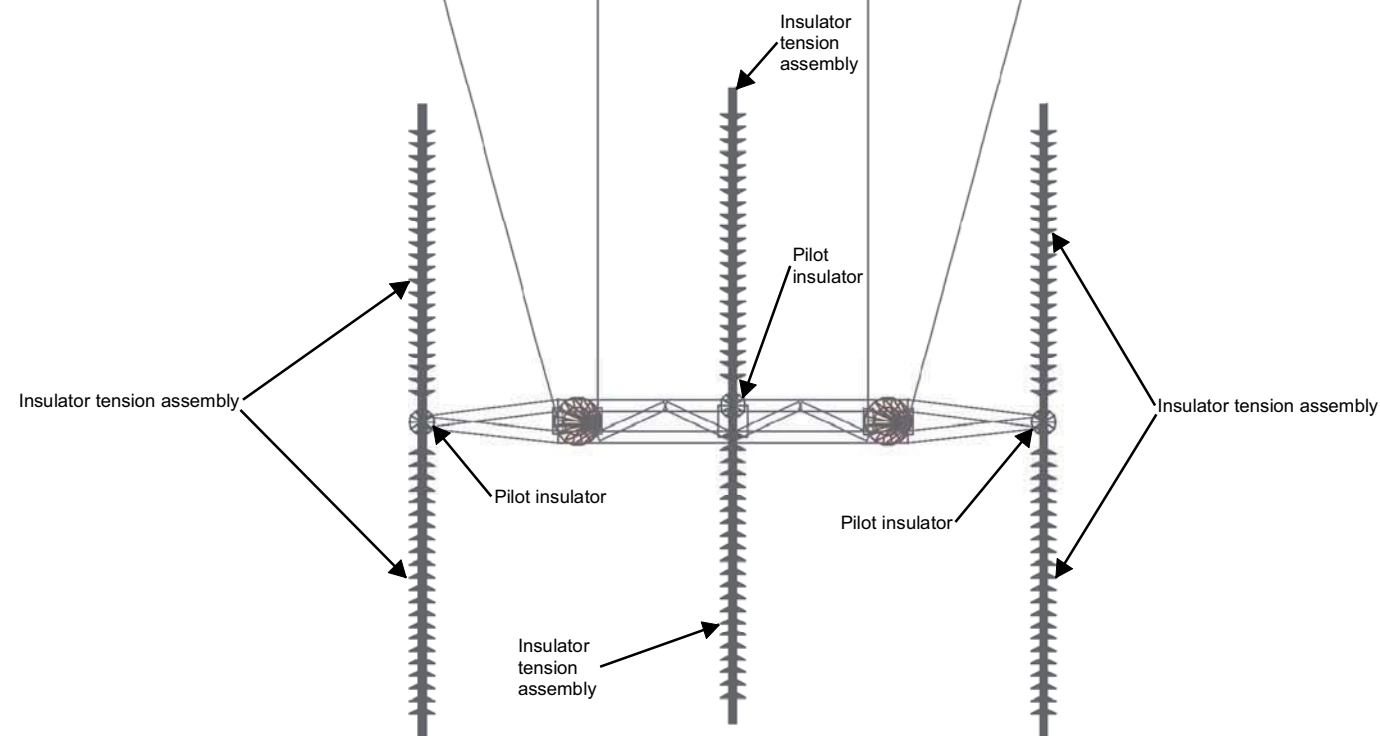


TITLE: Figure 2.13
 Terminal H-Pole
 (Based on EA TS 43-50 Specification)

Not To Scale

2 STAYS THIS SIDE
(foundation blocks for stay
foundation omitted for clarity)

2 STAYS THIS SIDE
(foundation blocks for stay
foundation omitted for clarity)



Terminal structure showing main incoming line terminated on one side with tension insulator assemblies

Notes:-

Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

CAD drawings provided by LSTC:
 43-50_H-TERMINAL_11m_4_STAYS_EX STOUT.dxf
 43-50_H-TERMINAL_12m_4_STAYS_EX STOUT.dxf
 43-50_H-TERMINAL_13m_4_STAYS_EX STOUT.dxf
 43-50_H-TERMINAL_14m_4_STAYS_EX STOUT.dxf
 43-50_h-pole-terminal_15m_ex stout.dxf

Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	TC	VR

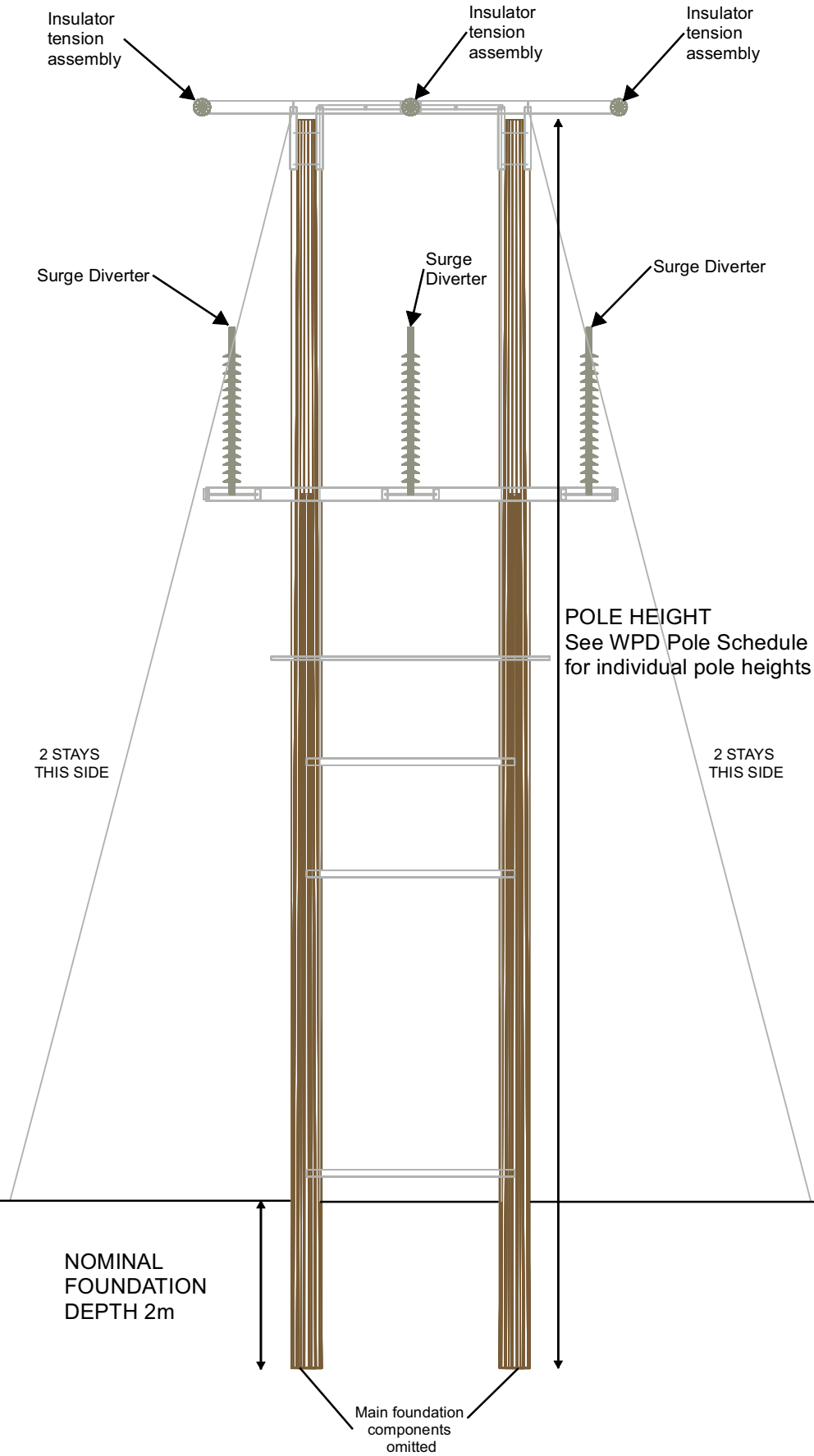
Brechfa Forest Connection



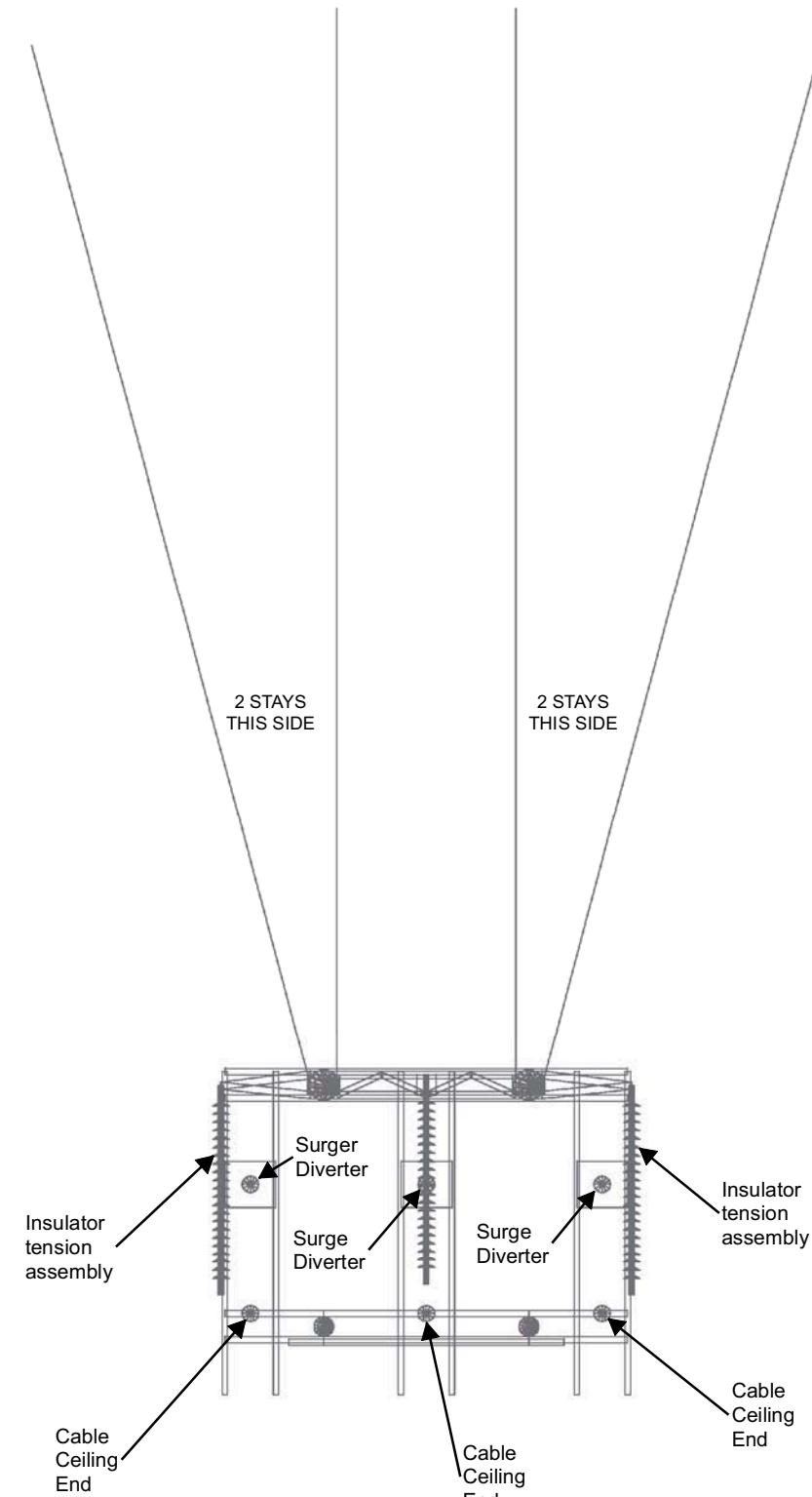
TITLE: Figure 2.14
 Terminal H-Pole Plan View
 (Based on EA TS 43-50 Specification)

Not To Scale

Side View



Plan View



Notes:-

Please refer to the WPD Pole Schedule for specific measurement details for each pole, and for the pole numbers of this type

CAD drawings provided by LSTC:
43-50_h-pole-4-pole terminal_15m_ex stout.dxf

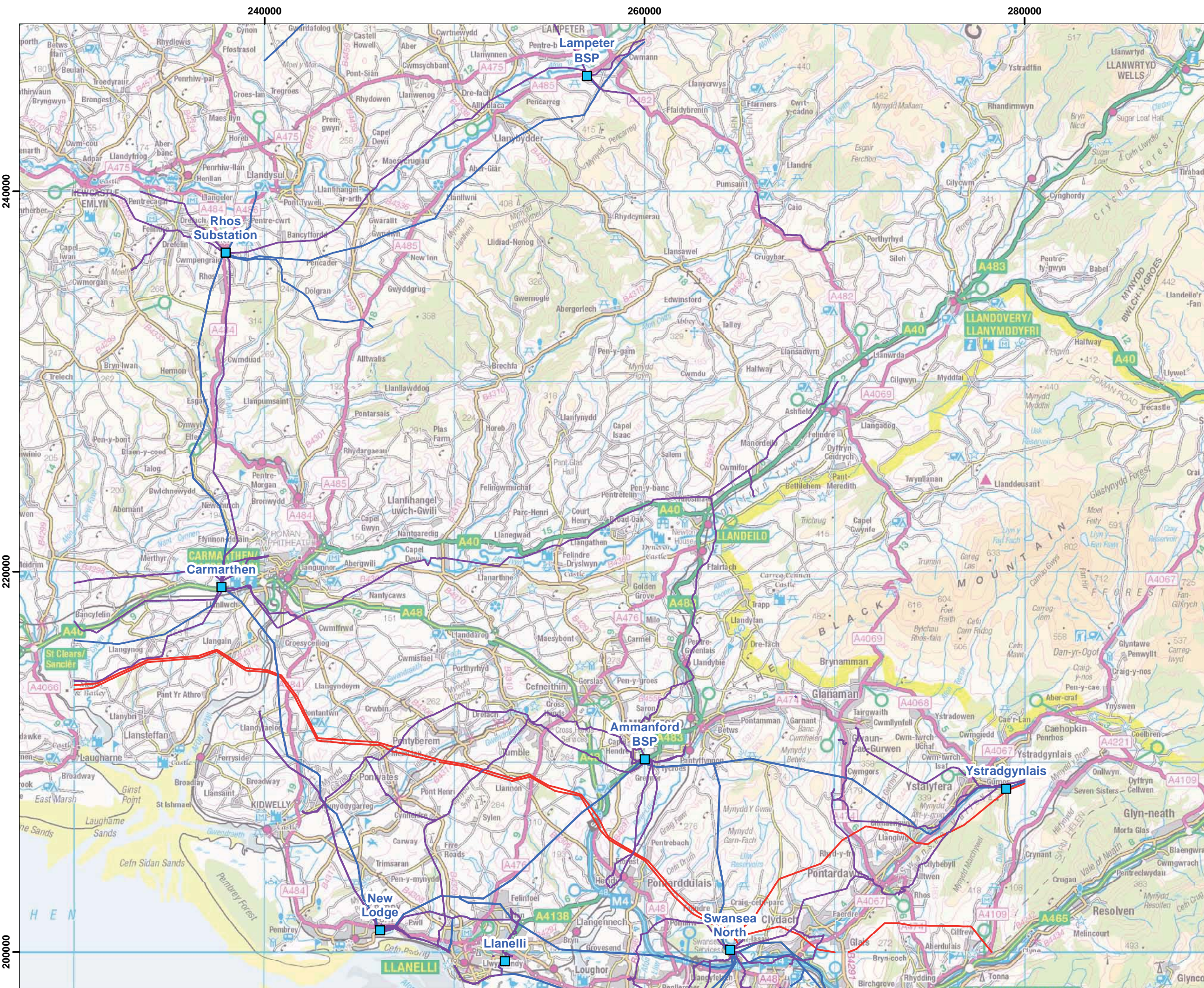
Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	TC	VR

Brechfa Forest Connection



TITLE: Figure 2.15
Terminal 4-Pole
(Based on EA TS 43-50 Specification)

Not To Scale



- Legend:**
- Alternative Substations
 - 33kV line (WPD)
 - 132kV line (WPD)
 - 275kV line (WPD)
 - 400kV line (WPD)

Notes:
WPD asset locations displayed are indicative

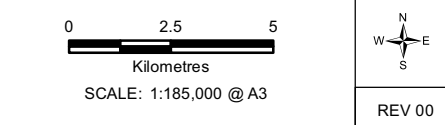
Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Metre



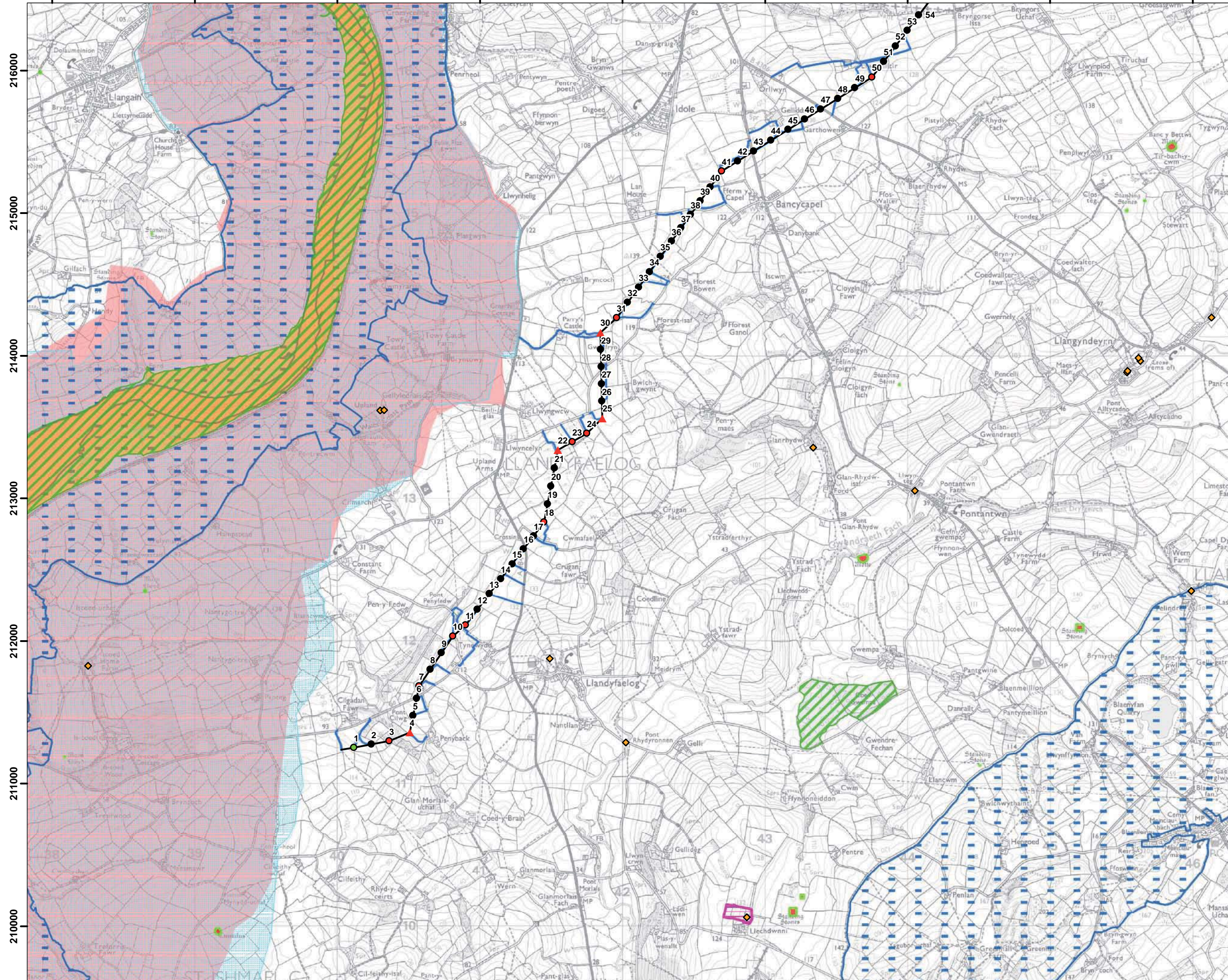
Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	TC	VR



TITLE: Figure 3.1
Alternative Substations



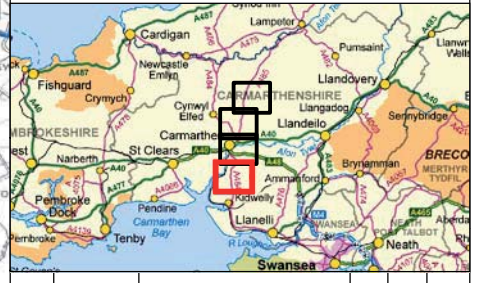
238000 239000 240000 241000 242000 243000 244000 245000 246000



- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - 1km Study Area
 - Indicative Access Route
 - ◆ Listed Buildings
 - Scheduled Monuments
 - ▨ Conservation Areas
 - ▨ Registered Historic Parks and Gardens
 - ▨ Registered Landscapes of either Special or Outstanding Historical Importance in Wales
 - ▨ Special Landscape Areas Carmarthenshire County Council Local Development Plan Deposit June 2011
 - ▨ Special Landscape Areas Carmarthenshire County Council UDP 2006
 - ▨ SSSI
 - ▨ SAC

Notes:
 Proposed Overhead Alignment provided by LSTC.
 This map contains data from the following sources:
 Cadw, Carmarthenshire County Council, Natural Resources Wales

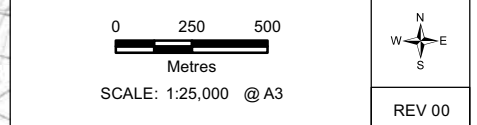
Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Metre



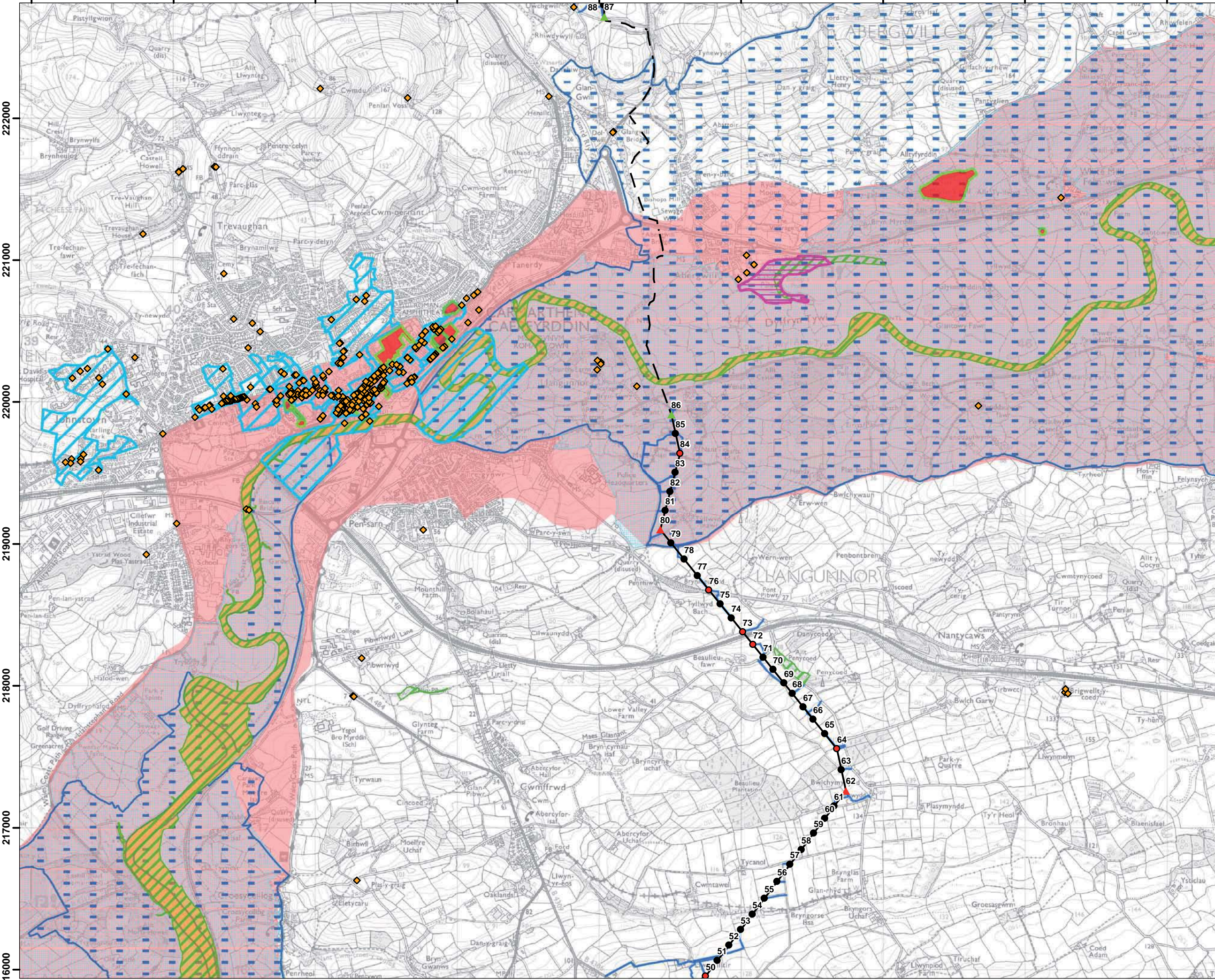
Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	ED	VR



TITLE:
 Figure 5.1 Environmental Setting Map 1



239000 240000 241000 242000 243000 244000 245000 246000 247000



- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - - - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - ▭ 1km Study Area
 - ▭ Indicative Access Route
 - ◆ Listed Buildings
 - Scheduled Monuments
 - ▭ Conservation Areas
 - ▭ Registered Historic Parks and Gardens
 - ▭ Registered Landscapes of either Special or Outstanding Historical Importance in Wales
 - ▭ Special Landscape Areas Carmarthenshire County Council Local Development Plan Deposit June 2011
 - ▭ Special Landscape Areas Carmarthenshire County Council UDP 2006
 - ▭ SSSI
 - ▭ SAC

Notes:
 Proposed Overhead Alignment provided by LSTC.
 This map contains data from the following sources:
 Cadw, Carmarthenshire County Council, Natural Resources Wales

Coordinate System: British National Grid
Projection: Transverse Mercator
Datum: OSGB 1936
Units: Metre



Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	ED	VR

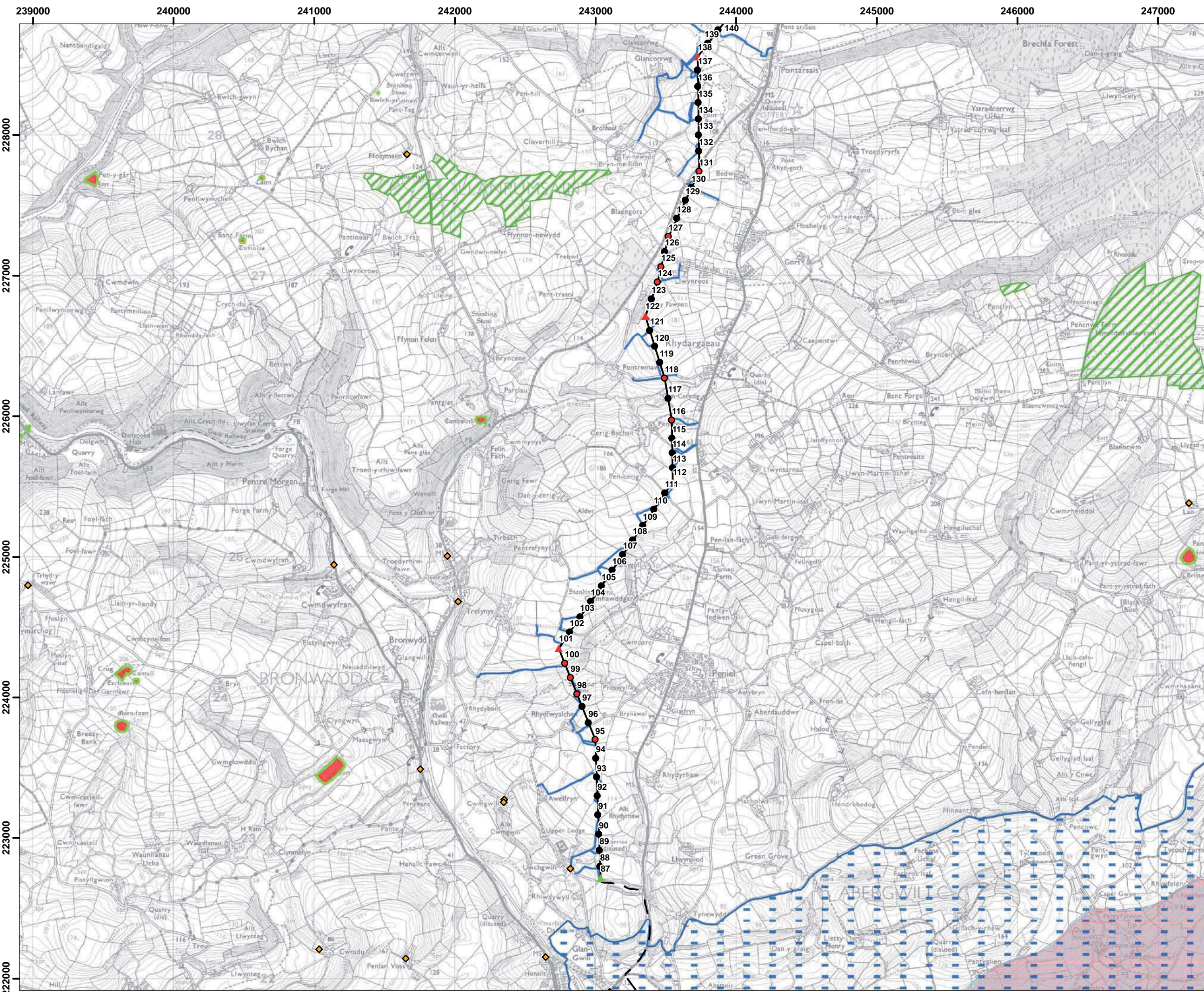
Brechfa Forest Connection

TITLE:
 Figure 5.1 Environmental Setting Map 2

0 250 500
 Metres

SCALE: 1:25,000 @ A3

REV 00



- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - 1km Study Area
 - Indicative Access Route
 - ◆ Listed Buildings
 - Scheduled Monuments
 - Conservation Areas
 - Registered Historic Parks and Gardens
 - Registered Landscapes of either Special or Outstanding Historical Importance in Wales
 - Special Landscape Areas Carmarthenshire County Council Local Development Plan Deposit June 2011
 - Special Landscape Areas Carmarthenshire County Council UDP 2006
 - SSSI
 - SAC

Notes:
 Proposed Overhead Alignment provided by LSTC.
 This map contains data from the following sources:
 Cadw, Carmarthenshire County Council, Natural Resources Wales

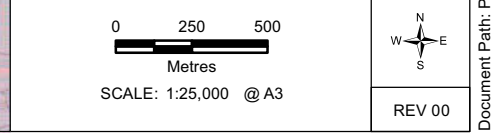
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 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Metre



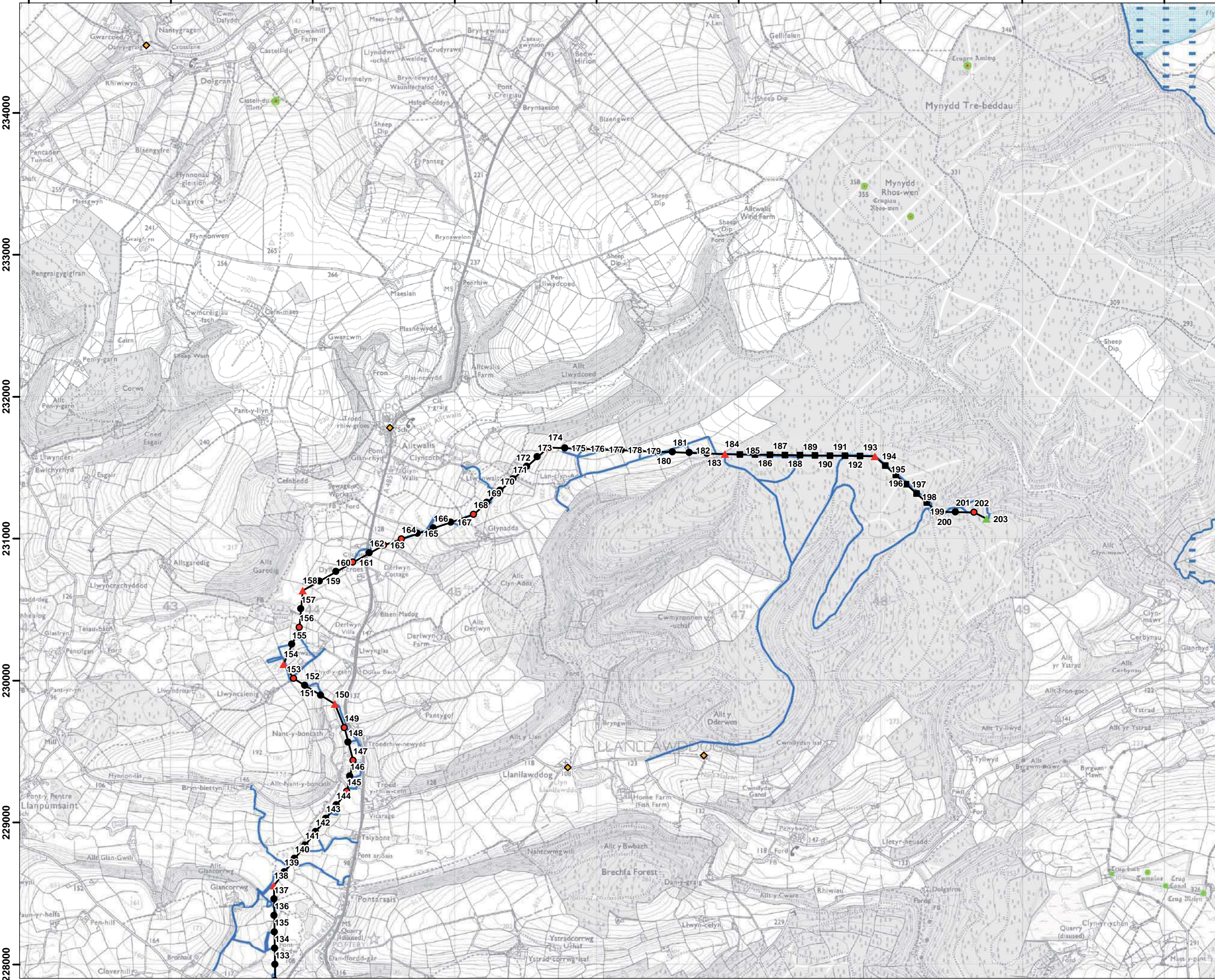
Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	ED	VR



TITLE:
 Figure 5.1 Environmental Setting Map 3



242000 243000 244000 245000 246000 247000 248000 249000 250000



- Legend:**
- ▲ Proposed 4-Pole Terminal Position
 - Proposed H-Pole Terminal Position
 - ▲ Proposed H-Pole Angle Position
 - Proposed H-Pole Intermediate Position
 - Proposed Single Pole Angle/Section Position
 - Proposed Single Intermediate Pole Position
 - Proposed Overhead Line
 - Proposed Underground Cable
 - HDD
 - Open Cut
 - HDD Areas
 - 1km Study Area
 - Indicative Access Route
 - ◆ Listed Buildings
 - Scheduled Monuments
 - ▨ Conservation Areas
 - ▨ Registered Historic Parks and Gardens
 - ▨ Registered Landscapes of either Special or Outstanding Historical Importance in Wales
 - ▨ Special Landscape Areas Carmarthenshire County Council Local Development Plan Deposit June 2011
 - ▨ Special Landscape Areas Carmarthenshire County Council UDP 2006
 - ▨ SSSI
 - ▨ SAC

Notes:
 Proposed Overhead Alignment provided by LSTC.
 This map contains data from the following sources:
 Cadw, Carmarthenshire County Council, Natural Resources Wales

Coordinate System: British National Grid
 Projection: Transverse Mercator
 Datum: OSGB 1936
 Units: Metre



Rev	Date	Description	Drn	Chk	App
00	18/11/2014	First Draft	JG	ED	VR

Brechfa Forest Connection

TITLE:
 Figure 5.1 Environmental Setting Map 4

0 250 500
 Metres

SCALE: 1:25,000 @ A3

REV 00