

G1 Viewpoint photosheets



Title:	VP1 Parc Bryn Bach	HFoV (°)	90	Visualisation type	1	View direction	Northeast
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)



Title:	VP2 Cefn Glas	HFoV (°)	90	Visualisation type	1	View direction	Northeast
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

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Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title:	VP3 Bern-Serth Road	HFoV (°)	90	Visualisation type	1	View direction	North, northeast
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)



Title:	VP4 Sirhowy Valley Walk	HFoV (°)	90	Visualisation type	1	View direction	North, northeast
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title:	VP5 Byway	HFoV (°)	90	Visualisation type	1	View direction	North
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Baseline photograph



Wireline/ photomontage

Title	VP6 West Monmouthshire Golf Club	HFoV (°)	90	Visualisation type	3/4	Camera (lens)	Nikon D610, FFS (Nikon 50mm)
Date, time	11 November 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Height of camera lens	1.6m
Coordinates		Distance from site boundary		View direction	North		
To be viewed at comfortable arms length							

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				

CiNAR Glass
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Title:	VP7 North of Mynydd Cern-y-Cefn	HFoV (°)	90	Visualisation type	1	View direction	North
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)



Title:	VP8 Mynydd Carn-y-Cefn trig point	HFoV (°)	90	Visualisation type	1	View direction	North
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title:	VP9 Stonebridge Road	HFoV (°)	90	Visualisation type	1	View direction	Northeast
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title	VP10 Pen-y-Crug	HFoV (°)	39.6	Visualisation type	1	View direction	North
Date, time	27 August 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title	VP10 Pen-y-Crug	HFoV (°)	39.6	Visualisation type	4	Camera (lens)	Nikon D610, FFS (Nikon 50mm)
Date, time	27 August 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Height of camera lens	1.6m
Coordinates		Distance from site boundary		View direction	North		
To be viewed at comfortable arms length							

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 225677-01 For Issue				

CiNAR Glass
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Title	VP11 Prince Philip Avenue	HFoV (°)	39.6	Visualisation type	1	View direction	Northwest
Date, time	27 August 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title	VP12 Queensway	HFoV (°)	39.6	Visualisation type	1	View direction	Northwest
Date, time	27 August 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK

Job No: 273927
For Issue

CiNAR Glass
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Title	VP13 Bryn Coch	HFoV (°)	39.6	Visualisation type	1	View direction	Northwest
Date, time	27 August 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK

Job No: 273927
For Issue

CiNAR Glass
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Title	VP14 Beaufort Park	HFoV (°)	39.6	Visualisation type	1	View direction	Northwest
Date, time	23 October 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Baseline photograph



Wireline/ photomontage

Title	VP14 Beaufort Park	HFoV (°)	90	Visualisation type	3/4	Camera (lens)	Nikon D610, FFS (Nikon 50mm)
Date, time	11 November 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Height of camera lens	1.6m
Coordinates		Distance from site boundary		View direction	North		
To be viewed at comfortable arms length							

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK

Job No: 273927
For Issue

CiNAR Glass
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Title:	VP15 Garnlydan Sports Pitch	HFoV (°)	90	Visualisation type	1	View direction	West, northwest
Date, time:	23 October 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK-
Job No: 273927 For Issue				



Title	VP16 B4560 Llangynidr Road	HFoV (°)	39.6	Visualisation type	1	View direction	Southwest
Date, time	27 August 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Baseline photograph



Wireline/ photomontage

Title	VP16 B4560 Llangynidr Road	HFoV (°)	90	Visualisation type	3/4	Camera (lens)	Nikon D610, FFS (Nikon 50mm)
Date, time	9 September 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Height of camera lens	1.6m
Coordinates		Distance from site boundary		View direction	Southwest		
To be viewed at comfortable arms length							

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				

CiNAR Glass
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Baseline day-time photograph



Baseline Night-time (darkness) photography

Title	VP16 B4560 Llangynidr Road	HFoV (°)	90	Visualisation type	3/4	Camera (lens)	Nikon D610, FFS (Nikon 50mm)
Date, time	16 September 2021	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Height of camera lens	1.6m
Coordinates		Distance from site boundary		View direction	Southwest		
To be viewed at comfortable arms length							

ARUP


Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK

Job No: 273927
For Issue

CiNAR Glass
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Title	VP17 Twr Pen-cyrn trig point	HFoV (°)	39.6	Visualisation type	1	View direction	South
Date, time	9 September 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)



Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK

Job No: 273927
For Issue

CiNAR Glass
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Title	VP10 Pen-y-Crug	HFoV (°)	39.6	Visualisation type	1	View direction	South
Date, time	9 September 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title:	VP18 PRoW Mynydd Llangynidr	HFoV (°)	90	Visualisation type	1	View direction	South
Date, time:	9 September 2020	Scale/ Enlargement factor	96% at A1	Projection	Cylindrical	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title	VP19 PRoW Mynydd Llangynidr	HFoV (°)	39.6	Visualisation type	1	View direction	Southeast
Date, time	9 September 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title	VP19 PRoW Mynydd Llangynidr	HFoV (°)	39.6	Visualisation type	4	Camera (lens)	Nikon D610, FFS (Nikon 50mm)
Date, time	11 November 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Height of camera lens	1.6m
Coordinates		Distance from site boundary		View direction	Southeast		
To be viewed at comfortable arms length							

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 225677-01 For Issue				



Title	VP19 PRow Mynydd Llangynidr (Night-time)	HFoV (°)	39.6	Visualisation type	1	View direction	Southeast
Date, time	16 September 2021	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				



Title	VP20 Mynydd Llangynidr	HFoV (°)	39.6	Visualisation type	1	View direction	Southeast
Date, time	9 September 2020	Scale/ Enlargement factor	100% at A3	Projection	Planar	Camera (lens)	Nikon D610, FFS (Nikon 50mm)

ARUP

Issue	Date	By	Chkd	Appd
P1	17-09-2021	HS	AK	AK
Job No: 273927 For Issue				

Appendix H

Water

H1 Geotechnical and geo-environmental desk study

CiNER Glass Limited

**Dragon Glass Bottle
Manufacturing Facility**

**Geotechnical and Geo-environmental
Desk Study**

DRAGON-ARUP-GINV-XX-RP-C-001008

Rev A | 20 October 2020

This report takes into account the particular instructions and requirements of our client.

It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 273927

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ARUP

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Project proposals

Appendix B

Site Photographs

Appendix C

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1 Introduction

The site is located on a vacant plot of the Rassau Industrial Estate, 700m north of Rassau village and 3km north north-east of Ebbw Vale town centre. The site location is shown on Figure 1. The area of the site is approximately 20 hectares. The area north and west of the site is occupied by industrial buildings of the Rassau Industrial Estate, including EnviroWales Limited Recycling Centre and iGEN Renewables, and associated infrastructure including an electricity substation. The recently upgraded A465 Heads of the Valleys dual-carriageway, which provides a strategic transport link from the site, is located 30m south of the southern site boundary.

CiNER Glass Limited propose to develop the site into a glasswork factory. The development proposals are discussed in Section 2 of this report.

This report presents a desk-based review of available geotechnical and geo-environmental information to develop an understanding of ground conditions within the site area, and to support future planning requirements. The report identifies potential constraints and provides outline recommendations for further site investigations.

In preparation of the desk study all relevant available information has been duly reviewed and considered. This includes historical ground investigation factual data taken from our archive records. Due to potential incompleteness of these records and changes with respect to current technical guidance and improved working practices, this data cannot be relied on and until verified should be used for information and guidance only.

2 Development proposals

CiNER Glass Limited intends to develop the site into a glasswork factory. At the time of writing, the proposed development footprint of the glasswork factory would principally occupy the north-west and central areas of the site, as shown in Appendix A.

An existing access road from the Rassau Industrial Estate to the west will provide access onto the site. Adjoining buildings comprising production facilities (with chimneys), utilities, inspection/quality packaging and a batch plant are proposed in north-western part of the site. Two ‘cullet’ buildings are proposed as part of the batch plant. Areas of sand storage and diesel tank storage areas are proposed outside the grounds of the production buildings. Further west, a resorting line and pallet storage are proposed. A large rectangular warehouse building is proposed to extend across the site from north to south, occupying 3,500m² of land. To the east of the warehouse a car park is proposed.

There is an alternative option to switch the position of the warehouse and the production/packaging facilities, but the overall site footprint remains roughly the same.

The site currently has an elevation change of almost 30m between the north and the south. The current intention is to cut two development plateaus one at 413mAOD and one at 400mAOD. A series of retaining walls are proposed to support some of the cut faces.

3 The site

3.1 Location and topography

The site is located on the Rassau Industrial Estate, which is centred around grid reference SO158 128, 700m north of Rassau village and 3km north north-east of Ebbw Vale town centre. The site is approximately 20 Ha in area. The Rassau Industrial Estate was prepared as a series of cut-fill platforms in the late 1970s/early 1980s. The site was the last part of the Rassau Industrial Estate to be developed, which appeared to still be undergoing construction in 1985. In 1991, the plateaus on the site appear to be established and resembles the site in the present day.

In plan view, the site has an irregular polygonal shape which thins towards the west and east and is at its widest in the central parts of the site (see Figure 1). Overall, there is a gradual fall in topography from north to south, with the terrain elevation ranging from 427.5mOD in the north down to 390mOD in the south-eastern corner. The topography of the site is shown in Figure 2.

The A465 dual carriageway is located 30m to the south of the site, which runs in a south-west to north-east trajectory. A vegetated mound separates the southern perimeter of the site and the A465 dual-carriageway, with a fall in topography from the site towards the A465 dual-carriageway. The southern part of the site is characterised by dense green vegetation.

The western boundary of the site is marked by adjacent buildings of the Rassau Industrial Estate, which include Sears Seating Europe, Box Litho Ltd and GTS Flexible Materials. An unadopted asphalt access road from the Rassau Industrial Estate extends through the site from the west at an elevation of around 416mAOD. It divides the western part of the site into two levels; one at 418.5 – 419mAOD to the north of the road and one at 412.5 – 4115mAOD to the south. In the east of the site the road takes a sharp elbow-bend to the north-west connecting this road to an electrical substation. Offline of the asphalt road, the central and northern areas of the site are occupied by grassland and shrubland.

To the east, the site is bound by Reservoir Road, which separates the eastern perimeter of the site from the Carno Reservoir; located approximately 120m north-east of the site. A pump house, which is assumed to be part of the Carno Reservoir, is located immediately north-east of the site. The eastern part of the site comprises both grassland and bare ground.

Along the northern perimeter of the site is a large electricity substation. From the substation, two 132kV HV overhead lines cross the northern section of the site. Beyond the substation to the north, there is a progressive increase in topography and the land becomes inert grassland with an absence of buildings and services.

3.2 Site history

Understanding of the site history has been developed through the interpretation of the historical Ordnance Survey (OS) maps and the Welsh Government historical aerial photography [14]. The historical plans date from 1879 to the present day have been reviewed. This information has been summarised in Table 1 below and the Groundsure report is included in Appendix C. Key features are shown on Figure 4.

Table 1: Historical development of the site

Date	Historical development
1879 (Historical OS map)	<p>The site is shown as an empty field (comprising marshland/grass land) with three streams running through it. Two of the streams appear to be associated with the Ebbw River at the base of the Cwm Carno (Carno Valley), approximately 150m east of the site. One of the streams is labelled with a north-west to the south-east flow direction; down topography. The other stream crosses the Ebbw River in the Cwm Carn-eilw (750m north) and travels southward through the western extent of the site and through the Cwm Nant-melyn (500m south).</p> <p>Along the banks of the Ebbw River in the Cwm Carno to the east of the site, three footbridges are present: 120m east, 180 north-east (adjacent to the current site of the Carno Reservoir) and 250m south-east. An 'Old Level' is marked along the eastern bank of the Cwm Carno, approximately 300m south-east of the site.</p> <p>A 'Sheepfold' is located approximately 350m north of the site.</p> <p>Approximately 450m to 500m east and south-east of the site, there is several buildings and fields, likely to be associated with the area(s) labelled as 'Garn-lydan' and 'Glan-Ifor' respectively.</p>
1903 (Historical OS map)	<p>There is no discernible difference in land use within the site boundary; which still comprises of marshland/grass land with three streams running through it. The previously annotated 'Old Level' is now annotated as 'Old Coal Level', and 370m east-north east of the site, also on the eastern side of the Carno Valley, an 'Old Trial Level' is present. The 'Sheepfold' to the north of the site is no longer annotated.</p>
1915 (Historical OS map)	<p>The Carno Reservoir and associated filter beds have been constructed north-east of the site. The filter beds are immediately east whilst the Carno Reservoir is 120m north-east. The 'Carno Houses' have also been constructed; 200m south-east of the site. The 'Old Trial Level' is no longer shown. A sheep pen is also annotated on the plans, approximately 350m to the north-west.</p>
1938, 1948 and 1960 (Historical OS maps)	No changes.
1964 to 1966 (Historical OS map)	There has been significant development of woodland to the north of the site, in an area previously occupied by marshland and grassland.
1974 (Historical OS map)	Above surface power lines traverse the land 50m north of the site from south-west to north-east.

Date	Historical development
1977 (Historical OS map)	<p>Little difference in the land use development of the site, which comprises marshland/grassland. Two streams remain; however, one appears to be discontinuous and is now indicated by a dashed line.</p> <p>Woodland marks the northern perimeter of the site, which extends into the area surrounding the Carno Reservoir. A 'Sheepfold' is also annotated immediately north and west of the site.</p> <p>To the south and east there has been significant urban development in Rassau, Garn-Lydan and Carmeltown, with houses located within 180m south and east of the site in an area previously occupied by marshland/grass land.</p> <p>The Cwm-Nantmelyn watercourse, circa 350m west of the site, is now discontinuous and a 'drain' has been annotated 200m south-west of the site.</p>
1981 (Aerial photography)	<p>The site is no longer occupied by grassland and marshland. Construction of the development platform for the Rassau Industrial Estate is well underway. Numerous construction vehicles are present in the northern parts of the site, which appears to have been profiled more intensively than the central and southern parts of the site.</p> <p>A pond is present in the centre of the site. This connects to a small stream which drains to the south-west.</p> <p>The site is covered in white material, with numerous trackways and heaps of material. A ditch has been constructed along the northern perimeter of the site, which is likely to be a drainage ditch.</p>
1983 (Aerial photography)	<p>To the east of the site, the construction of the development platform is complete, and units are already present. The site comprises several "stacked benches" with an access road from the west.</p> <p>The drainage ditch along the northern perimeter is much more pronounced and now runs north-north west to south-south east through the central parts of the site (see Figure 4).</p> <p>A series of trackways are present across the development platform, indicating that the reprofiling works are still ongoing.</p> <p>The natural surface water courses that previously occupied the site are no longer present.</p>
1986 (Historical OS map)	<p>A 'Pump House' has been constructed within 100m north of the site, which is likely to be associated with the Carno Reservoir. A small area adjacent to the pump house is annotated as 'Reservoir (covered)'.</p>
1986 (Arup geotechnical report)	<p>Development of the Rassau Industrial Estate to the south-west of the site was well underway in 1986, as discussed in the Arup geotechnical report [11]. This report contains ground investigation information and interpretation from 'Terraces V and W' for a proposed advanced factory building, circa 180m south-west of the site (centred around grid reference SO 156125). The identified terraces are bound by 'batters' up to 5m high to the north and smaller in other areas. A controlled earthworks programme was carried out to create the level factory platforms, which largely comprised a balanced cut and fill design with a small amount of imported material from offsite sources.</p>
1994 (Historical OS map)	<p>An electricity substation is annotated immediately south-west of the site within the Rassau Industrial Estate. 'Tanks' are noted to be present within the confines of this substation, located approximately 180m south-west of the site.</p>
2000 to 2001	<p>The Rassau Industrial Estate now includes another electricity substation along the northern perimeter of the site; as well as the one noted to the south-west of the site.</p>

Date	Historical development
(Historical OS map and aerial photography)	<p>Aerial photography indicates nine tanks surrounding the substation, the closest to the site is approximately 30m south-west.</p> <p>The central parts of the site are occupied by parcels of green land, which are likely to be forested areas. The eastern part of the site is vacant, with the exception of the drainage channel that feeds into the Ebbw River.</p> <p>The filter beds to the south of the Carno Reservoir are no longer annotated on the historical plans.</p>
2013 (Aerial photograph)	The south-eastern part of the site has undergone preparation for site works along the A465, which saw the construction of an attenuation/ desilting basin immediately south and east of the site.
2020 (OS map)	<p>The area to the south of the site, which marked the buffer zone between the site and the residential areas of Rassau, is now occupied by the new A465 dual carriageway 'Heads of the Valleys Road'.</p> <p>In the present day, the electrical substation that formerly occupied the land directly to the south-west of the site appears to be an office headquarters labelled 'Imperial Board Products Limited'. However, this appears to be abandoned.</p> <p>A pond and a small watercourse are now annotated to the south of the site. Additionally, another surface water feature is annotated in the south of the site, which connects to the drainage channel which runs through the central parts of the site.</p>

3.3 Potential for Unexploded Ordnance

A preliminary UXO assessment is presented below in accordance with CIRIA report C681 [1].

Evidence of previous military land-use

A search of available online resources, including Zetica Risk maps [2] and Coflein [3], has not found any significant military land use within the vicinity of the site.

Potential for aerially delivered ordnance

The Zetica risk maps [2] show the site to be in an area of low risk but do record a decoy site approximately 3km north west of the site. A review of aerial images from 1945 show no evidence of bombing in the area of the site.

Up until the 1970's the site area was an undeveloped plot adjacent to Carno Reservoir. Aside from this the nearest development was over 500m away.

Consideration of additional factors

Until the development in the 1970's, the near surface geology would likely have been made up of glacial till comprising stiff sandy gravelly clay with occasional cobbles and boulders, overlying sandstone or mudstone of the Lower Coal Measures. It is considered unlikely that a bomb would have penetrated into this material without either exploding or being found at the time. Geological maps [4][5] record peat deposits in the surrounding area, the nearest being just outside the northern boundary of the site. Due to the generally soft nature of peat deposits

During the 1970's the western part of the site was reprofiled as a series of cut-fill platforms. This means that for approximately 50% of the site the boulder clay would have been excavated and reused in areas of fill. If there were any unexploded ordnance in the areas of cut it would have been encountered then.

On review of all of the above, the level of risk is considered low and a detailed UXO report is not considered to be necessary.

3.4.1 Geological maps

The site is located on the northern side of the South Wales Coalfield synclinorium, on an area where the bedrock is indicated by the geological map to be the South Wales Lower Coal Measures. The western part of the site is shown to be underlain by a sandstone member of the Lower Coal Measures and the eastern part of the site is underlain by a member comprising undifferentiated mudstone, siltstone and sandstone. The general dip of the beds in the area is between 5° and 10° towards the south-south-east.

Two coal seams are shown outcropping in the eastern part of the site, within the undifferentiated mudstone, siltstone and sandstone member of the Lower Coal Measures. The coal seams are shown to be truncated by the eastern of the two NNW-SSE trending faults within the site boundary, meaning that in the western part of the site the two coal seams are likely to be at greater depth. The coal seams are associated with the marine bands (Hornley M2 marine band and Springwood M1 marine band) that occur directly above them and are recorded as thin seams in

the geological section. The presence of these coal seams is further discussed in Section 3.7, along with the risks posed by historical mining.

3.4.2 Previous ground investigations

Two previous ground investigations have been completed in the vicinity of the site, these are shown on Figures 6 and 7 and include:

- 1997 Rassau Industrial Estate Ground Investigation;
- A465 Heads of the Valleys Dualling Section 3.

1997 Rassau Industrial Estate Ground Investigation [7]

In 1997, Intégral Géotechnique (Wales) Ltd excavated twenty machine excavated trial pits across the site, with the purpose of finding the depth to rock head and to find out the nature of the fill used in reprofiling the ground. Unfortunately, the recorded document only includes six of the twenty trial pits. In summary, the report states that the identified fill comprised reworked natural ground generally described as soft to very stiff brown/grey brown with many orange brown inclusions, silty sandy clay, with many angular gravels, cobbles and boulders, black peat inclusions and decaying grass inclusions. The thickness of the fill material encountered varied across the site, generally being thinner in the west of the site (generally >2.5m) and thicker in the south of the site (generally >4.0m). Difficulties were recorded with the excavation of the materials, apparently due to the presence of large cobbles and boulders within the fill. In situ bedrock was encountered in TP19, comprising strong grey brown moderately weathered quartzitic sandstone, which was encountered from 0.7-0.8m bgl, where the trial pit was terminated. Generally, groundwater was not encountered within the trial pits.

A465 Heads of the Valleys Dualling Section 3 [8]

Significant ground investigation has been undertaken along the A465 to the south of the site. Available factual data comprises a mixture of boreholes, window samples and trial pits. The ground investigation to the south of the western part of the site generally comprised exploratory holes with depths up to approximately 10m. Made ground was generally thicker to the south of the western part of the site particularly for the holes that were located on the embankment to the north of the A465. The natural deposits encountered along this section comprised cohesive or granular glacial till. Bedrock was encountered at some locations at the base of the exploratory holes (approximately 10m bgl) comprising quartzitic sandstones of the South Wales Lower Coal Measures.

The superficial deposits encountered by the exploratory holes along the A465 to the south of the eastern part of the site comprised far more extensive cohesive glacial till to depths of up to 30m bgl. In addition, peat deposits up 2.2m thick were encountered in a number of holes, as well as organic clays. Bedrock was generally encountered at a greater depth (10 - 30m bgl) and comprised mudstone, siltstone or sandstone of the Lower Coal Measures.

3.4.3 Summary of stratigraphy

For the purpose of summarising the site's stratigraphy the site has been sub-divided into three zones as shown on Figure 3. These zones are primarily based on the topographic survey (Figure 2) and reflect different histories with regard to the construction of the development plateaus. The anticipated stratigraphy for the three zones is summarised below.

Zone A

Zone A is the flattest of the three zones, with ground level falling from approximately 420mAOD in the north to 412mAOD in the south. This area is within the controlled fill placed during the development of the Rassau Industrial Estate. Five trial pits were undertaken as part of the 1997 Rassau Industrial Estate Ground Investigation [7] within Zone A. All of the trial pits terminated due to hard dig, with the more northerly trial pits terminating at shallow depth. TP19 encountered bedrock at 0.7m bgl comprising *strong grey brown moderately weathered quartzitic sandstone*. Figure 8 illustrates how the encountered depth to bedrock increases with depth across Zone A. It is anticipated that the depth to bedrock will increase to the south east of TP12. There is potential that in-situ glacial till is present beneath the fill.

Table 2: Zone A stratigraphy

Top depth (mbgl)	Thickness (m)	Material description
GL	0.7 – 2.5	Reworked superficial deposits associated with the construction of the development plateaus comprising cohesive and granular glacial till deposits. The thickness of these deposits is expected to increase towards the south and east. The glacial till commonly contains boulders which made excavating difficult during trial pitting. The historical GI record from the area, TP11, found pockets of peat mixed into the fill. There is potential that more peat may be found within the fill in this area.
unknown	unknown	There is potential for glacial till deposits to be present beneath the fill in the south of the zone. No evidence of this was encountered in the available ground investigation information.
0.7 – 2.5	base not proven	Lower Coal Measures bedrock – anticipated to comprise predominantly sandstone based on the trials pits, but mudstone and siltstone could be encountered.

Zone B

Zone B is approximately 500m long with ground level falling from 425mAOD in the north to 400mAOD in the south. It has a series of plateaus, although these are not as well defined as the plateau in Zone A. TP11 from the 1997 Rassau Industrial Estate ground investigation is the only historical log available with the site boundary. The fill in TP11 contained many pockets of black silty peat. This is the only log of the material within Zone B that is currently available. It is possible that Zone B was used as a stockpiling area for excavated waste material during the

construction of the development plateaus within Rassau Industrial Estate to the west. The ground investigation for the A465 has a borehole record, CP18, approximately 80m southwest of the site. The depth to bedrock between this and the depth to bedrock in TP19 has been extrapolated to produce an approximate bedrock level across the site on Figure 8.

Table 3: Zone B stratigraphy

Top depth (mbgl)	Thickness (m)	Material description
GL	Up to around 10m thick	Reworked superficial deposits associated with the construction of the development plateaus comprising cohesive and granular glacial till deposits. The thickness of these deposits is expected to increase towards the south and east. The glacial till commonly contains boulders which made excavating difficult during trial pitting.
Unknown	unknown	In-situ glacial till deposits primarily comprising sandy gravelly clay with cobbles and boulders. In areas where the fill was built up to create plateaus, it is possible that in-situ glacial till was left in place beneath the fill. In addition, there is potential that there could be in-situ peat lenses overlying the glacial till. In addition to the peat pockets found in TP11, peat was found in a number of the exploratory holes for the A465 to the south and east of the site.
0.7 – 9.0	base not proven	Lower Coal Measures bedrock, comprising interbedded mudstone, siltstone and sandstone.

Zone C

Zone C is within an area of natural ground to the east of the Rassau Industrial Estate. No fill materials are anticipated to have been placed within this area. Due to there being no historical ground investigation information in this area of the site the depth to rockhead is uncertain. The ground investigation undertaken as part of the A465 dualling [8], indicates that the depth to rockhead increases towards the east. In one of these boreholes to the south of Zone C, bedrock was not encountered to a depth of 30m bgl.

Table 4: Zone C stratigraphy

Top depth (mbgl)	Thickness (m)	Material description
GL	3.0 – >10	Superficial deposits comprising cohesive and granular glacial till deposits. There is potential to encounter peat particularly near to the ground surface.
3.0 – >10	base not proven	Lower Coal Measures bedrock, comprising interbedded mudstone, siltstone and sandstone.

3.5 Hydrogeology

Regional hydrogeology

Regionally, the bedrock geology comprises sedimentary rocks of the Lower Coal Measures, located at the base of the South Wales Coalfield. The South Wales Coalfield forms a large synclinal basin trending east to west, with many subsidiary folds and numerous faults. In a normal stratigraphic section, the more permeable and porous horizons can form separate confined water bodies or aquifers (i.e. sandstones), unless faulting or mining is present which can result in hydraulic continuity between sandstones or dewatering of the sandstone strata.

The site is underlain by the Farewell Rock, a typically very strong and fractured quartzitic sandstone horizon overlying the Millstone Grit. The sandstones of the Lower Coal Measures are often extremely hard and strong. Sandstones of the Lower Coal Measures are typically of low material porosity (<2%), with the highest values in areas of intensive folding and faulting. The permeability of the sandstones is primarily associated with its secondary porosity due to natural joints and fissures, which can be highly variable both laterally and with depth.

Effective infiltration in the Lower Coal Measures is typically around 150mm/annum, with 95% contributing to baseflow of the rivers usually emerging as springs at the base of sandstones [15]. The streams are typically quite ‘flashy’ due to a rapid response of the springs to rainfall, with subsurface velocities up to 570m/day (measured in sandstones in tension zones). Yields from the Lower Coal Measures rarely exceed 1l/s but may yield up to 10l/s [15].

The Farewell Rock supports a secondary A aquifer. The sandstone strata contain water locally confined by overlying impermeable strata such as mudstones or glacial till. This may sometimes create high water pressures or even artesian groundwater conditions within the base strata, which following removal of the overlying material can result in the escape of groundwater or even disruption of formations. There is documented previous evidence of such artesian and sub-artesian groundwater conditions within the Rassau Industrial Estate [9].

Site hydrogeology

The site is underlain by faulted sedimentary rocks of the Lower Coal Measures, including sandstones (Zone(s) A and B) and mudstones (Zone(s) B and C). The bedrock stratigraphy is bisected by two faults, creating a graben in Zone(s) A and B. The overlying superficial geology comprises Glacial Till. The anticipated hydraulic flow direction of groundwater is likely to be towards the south and south-east (down dip and down topography) towards the Ebbw River at the base of the Cwm Carno.

The area to the north of the Rassau Industrial Estate is characterised by numerous springs and marshy conditions. These springs are contact springs above the underlying less permeable stratum. Some may relate to thin deposits of peat over the glacial till and as such are related to impeded drainage over the glacial till.

Development of the industrial estate may have resulted in placement of granular imported materials. Properties, distribution and thickness of such materials is

likely to be variable across the estate, however typically the underlying glacial till would be of lower permeability. Therefore, drainage of the site is likely to be take place through the more granular deposits or drainage networks incorporated into the development platform..

Glacial till generally comprises cohesive materials and would be generally characterised with low permeability preventing significant rainwater infiltration and recharge to the underlying rock. Minor perched water bodies are likely to occur within the Glacial Till in locally coarser grained horizons and also in the thin deposits of peat above it (outside the estate).

Faults are likely to affect the groundwater flow regime the area. The presence of faults through Zone(s) A and B may either act as fluid conduit for increased groundwater movement or may act as a structural barrier and slow the movement of groundwater.

Backfilled watercourses may continue to drain the area and provide preferential flow paths. Surface drains introduced around the industrial estate perimeter are lined with concrete and corrugated sheet metal, most likely allowing for diversion of water courses which historically traversed the area and providing a surface water cut-off. Therefore, it is unlikely to be in hydraulic continuity with the groundwater or be recharged by shallow subsurface flows. Any drainage installed within the platform may be draining to the perimeter drains.

Artesian to sub-artesian water pressures are perhaps less likely to occur in Zone C, which is anticipated to comprise largely non-water bearing mudstones. In Zone(s) A and B, there may be a greater potential for artesian to sub-artesian groundwater conditions. Given that the fractured sandstones are faulted, this could potentially promote a greater degree of hydraulic continuity between layers, but there is a potential for the local confinement of water as a result of the overlying glacial till and mudstone strata across all areas of the site. Similarly the faults could act as lateral barriers to flow should mineralisation along fault planes have occurred. Either way, the presence of the faults is anticipated to result in highly localised groundwater conditions and significant lateral variations in this across the site.

Aquifer designations

A review of the Natural Resources Wales aquifer designations (Appendix C) indicates the following aquifer designations underlying the site:

- South Wales Lower Coal Measures Formation (Sandstone) - 'Secondary A aquifer'
- South Wales Lower Coal Measures Formation (Siltstone and Mudstone) - 'Secondary A aquifer'

Additionally, alluvium is present approximately 200m south-east of the site, which is a designated 'Secondary A' aquifer. This is likely to be associated with the base of the Ebbw River.

Secondary A: Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of baseflow to rivers. These are generally aquifers classified as minor aquifers.

Secondary Undifferentiated: Assigned where it is not possible to attribute either category A or B to a rock type. In general, these layers have previously been designated as both minor and non-aquifer in locations due to the variable characteristics of the rock type.

Unproductive: These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

Source Protection Zones (SPZ)

A large area to the north of the site and crossing parts of the northern parts of it has been defined as a Source Protection Zone (SPZ1) to protect water resources in the Carboniferous Limestone Aquifer, which is a designated Principal aquifer. Although the Source Protection Zone (SPZ1) extends to within the site, the Carboniferous Limestone Aquifer is located circa 2.8km north of the site at its closest point.

This Source Protection Zone has been grouped to protect water resources from six potable groundwater sources. The closest source(s) to the site are the Shon Sheffrey sources located approximately 2.85km west of the site [9].

3.6 Hydrology

The surface water features on the site and within the surrounding area are annotated on Figure 4. Collectively, these comprise a complex network of surface water courses and ponds. Numerous surface watercourses have been culverted below surface to accommodate the construction of the development platform and the A465 dual carriageway. On the site, one of the surface water courses has been culverted beneath the gravel track that extends from the unadopted asphalt road; see Figure 5. The construction of the Rassau Industrial Estate is likely to have altered the state of the surface hydrology, to accommodate appropriate drainage and divert surface water away from the platform.

The general drainage direction of the identified surface watercourses is towards the Ebbw River, downstream of the Carno Reservoir. This is situated in the base of the Cwm Carno, with the identified surface water features draining down topography towards the base of the valley into the Ebbw River. Progressively further west (circa 450m and beyond), surface water features appear to drain towards the Sirhowy River, located 2.5km to the west of the site. Based on the Natural Resources Wales catchment information provided in the Groundsure report (Appendix D), the site is located within the Ebbw Sirhowy operational catchment of the South East Valleys management catchment.

A review of the historical aerial photography indicates significant alteration of surface water features between 1977 and 1983, which coincides with the construction of the Rassau Industrial Estate development platform. A perimeter drainage ditch was constructed (from 1981) along the northern and eastern boundary of the development platform, which is still present. Photos, included in Appendix B, from a site walkover undertaken by a Civil Engineer in June 2019 show that this feature is lined with concrete and corrugated sheet metal at the base of the drainage ditch. It is considered likely that this feature was constructed to

divert surface water features from up-gradient sources around the platform and discharge into the Ebbw River.

A review of 1981 and 1983 aerial photography indicates the presence of 'Herringbone' pattern drainage systems across stratigraphy Zone A which does not appear to extend into Zone B. Several ponds and surface water accumulations are noted in Zone(s) A and B, with larger linear features occupying the paths between forest land in Zone B.

Based on the information provided by Natural Resources Wales, there are no records within 50m of the site of Risk of Flooding from Rivers and Seas (RoFRaS).

The highest risk of potential surface water flooding on the site is deemed to be *1 in 30 year, greater than 1.0m*. These areas are associated with the locations of present day and historical surface water features, including the man-made drainage channel.

3.7 Mining risk assessment

3.7.1 Risk posed by coal mining

As discussed in Section 2.4.1 and shown on Figure 8, the western part of the site is indicated on published mapping to be underlain by a sandstone member of the Lower Coal Measures and the eastern part of the site is underlain by an undifferentiated mudstone/siltstone/sandstone member of the Lower Coal Measures.

The mapped division in bedrock geology is defined by a pair of NNW-SSE trending faults. The sandstone member to the west of the easternmost of these faults is stratigraphically higher than the undifferentiated member of the Lower Coal Measures to the east. The two coals seams indicated on the geological map [4] are associated with two marine bands (Hornley M2 marine band and Springwood M1 marine band). These seams were not generally worked, and underlie the productive coal seams of the South Wales Coalfield – all of which are indicated on published mapping to crop to the south of the site.

The regional dip of the bedrock in the area is indicated on published mapping to be between 5°-10° toward the south-south-east, given the surface topography, the result of this is that these thin marine band coal seams are likely to be present at shallow depth on the eastern side of the easternmost fault to the south of the indicated seam outcrops. These are the lowest seams recorded on the stratigraphic column, and no other coal seams are indicated to the north of the marine bands on the eastern side of the faults. To the west of the easternmost fault, the same two Marine Bands are indicated to outcrop at surface approximately 800m north of the site. Assuming these seams dip 5° southeast and taking the topography into account these seams would be in excess of 50m beneath the surface of bedrock. However, given the distance and the faulting in the area this is likely to be inaccurate. Two boreholes, shown on the 1:10,560 scale geological map [4] (recorded as Notes 5 and 6) located approximately 450m southwest of the site,

record the M2 coal seam to be at 405.1mAOD (15.9m bgl) and at 388.1mAOD (16.5m bgl). Note 5 records the M2 coal seam to be 0.3m thick and Note 6 records that the M2 coal seam as “coal debris”. Both of the boreholes stopped drilling approximately 3m below the M2 coal seam and did not encounter the deeper M1 seam.

On the basis of this information above the area of the site to the east of the easternmost fault and to the south of the mapped coal seams is anticipated to have shallow marine band coal seams (less than 10m below rockhead). Given that the two boreholes from the 1:10,560 scale mapping are along strike and their closer proximity, it is anticipated that the coal seam associated with the M2 marine band is at a similar depth below the site (16m). However, due to faulting in the area there is some uncertainty about the accuracy of this. Based on the stratigraphic column provided on the 1:10560 scale geological map the seam associated with the M1 marine band is approximately 6m below the seam associated with the M2 marine band.

A review of the data provided by the Coal Authority [10] shows that the nearest mine entries are two adits 300m southeast of the site on the far side of the Ebbw River – These workings are associated with localised trial adit workings within the M2 Marine band, which would have been exposed on the valley sides in that area and not associated with extensive workings.

The Coal Authority’s records [10] show that the site is not in a development high risk area, there is no record of past surface mining and the site is not within a zone indicated to have probable shallow coal mine workings. Overall there is considered to a very low to negligible risk that historical coal mining and associated subsidence risks will impact the site, and no further specific targeted assessment of this risk is proposed.

3.7.2 Mining for other minerals

It is possible that the sandstone could have been mined for use as an aggregate, there is evidence for this on the 1:10,560 scale geological map [4], where “Old sandstone diggings” is annotated, approximately 800m north of the site, just above the M2 marine band. Overall the risk posed by historical mine workings is low.

3.8 Radon gas

The site contains one record of radon gas data within British Geological Survey and Public Health England inventory. The site has been classified as having a maximum radon potential of less than 1%, therefore requiring no radon protection measures.

3.9 Environmental information

In accordance with the Guidance for the Safe Development of Housing on Land Affected by Land Contamination [13], potential sources of contamination within a

250m radius of the site have been reviewed, as these are most likely to possibly have a significantly detrimental impact on the site.

Waste disposal sites

The review of the historical maps and the NRW records contained within the Groundsure report indicate that there are no active, recent or historical landfills within 250m of the site. These records indicate that there is a waste management facility site within 250m of the site comprising a 'Car Battery Recycling Facility', located 30m north-west on the Rassau Industrial Estate dating from 2005. This is still present.

COMAH and 'List 1 Dangerous Substances' sites

There is one registered COMAH (Control of Major Accident Hazards) site within 250m of the site. This is the EnviroWales Limited battery recycling facility, a COMAH Upper Tier Operator, located 30m north and west of the site.

There are two known uses of 'List 1 Dangerous Substances' within 250m of the site: GTS Flexible Materials Ltd (205m south) uses perchloroethylene, whilst EnviroWales Ltd uses mercury and cadmium (30m north-west).

Historical tank database

A review of the available Ordnance Survey/Groundsure information has identified 10No. historical tanks within 250m of the site. All ten of these tanks are located in the confines of the Rassau Industrial Estate, with nine tanks located within the grounds of the electricity substation directly to the south-west of the site. The other tank is associated with the GTS Flexible Materials Ltd building 230m to the south of the site; which is a designated 'List 1 Dangerous Substances' site for the use of perchloroethylene. All of the tanks are unspecified in use and are no longer annotated on present day Ordnance Survey plans. Aerial photography from 2000 indicates that all of the tanks associated with the electricity substation are located above surface.

Pollution incidents, licensed pollution releases and licensed discharges to controlled waters

A review of the NRW pollution incidents records indicates that there are three recorded pollution incidents within 250m of the site. One of these recorded incidents was deemed to have had a significant impact on controlled waters (Category 2), located 195m south-east of the site (organic chemical product). The remaining incidents were deemed to have a minor/negligible impact on land and controlled waters.

There are also three recorded licensed pollutant releases (Part A(2)/B) within 250m of the site: 115m south-west, 200m south and 205m south. The former comprised di-isocyanate processes from Sears Manufacturing Company Ltd (Part B), whilst the other two releases were both from GTS Flexible Materials Ltd comprising coating processes (Part A2 and Part B).

1No. licensed discharge to controlled waters has been recorded within the site area, comprising the release of unspecified effluent discharge into a soakaway; issued in 1989 and revoked in 1994. This is likely to be associated with the Carno Reservoir. There is also another licensed discharge to controlled waters 10m north-west of the site, comprising the discharge of trade discharges from the Rassau 400Kv substation; issued in 2003 and revoked in 2010.

4 Conceptual Site Model

4.1 Sources

In summary, the main on-site potential sources of contamination are associated with the fill material of the development platform and potential made ground.

Previous investigations indicate that the fill material in Zone A and the north of Zone B comprise reworked glacial till (cohesive and granular) and lesser peats. This is not likely to contain significant contamination; however, this may be a potential source of ground gas. There is limited ground investigation data in the south of Zone B and this area is likely to have the largest thickness of fill; see Figure 8. It is possible that made ground was used in the south of Zone B (imported from off-site sources) to achieve the necessary cut and fill volumes; which may be a potential source of asbestos, metals and PAHs. Made ground may also be associated with the unadopted asphalt road and the foundations of the pylons. However, this material is likely to have been regulated and controlled prior to import and is not likely to contain significant contamination.

Adjacent industries of the Rassau Industrial Estate are considered to be potential off-site sources of contamination. Historically, these have been associated with historical tanks, pollution incidents and licensed discharge/pollutant releases; which have been considered as potential sources.

Individual potential sources of contamination are discussed in Table 5 below.

Table 5: Potential sources of contamination

Potential source(s) of contamination	Remarks
On site	
Fill material comprising the development platform	<p>Previous ground investigations (Section 3.4.2) indicate that Zone A comprises reworked natural material; mainly glacial till and lesser amounts of peat. This is unlikely to contain significant levels of contamination. The encountered fill material may be a potential source of ground gas due to the presence of peat.</p> <p>Similar to Zone A, the fill material in Zone B comprises cohesive and granular glacial till and lesser amounts of peat. There is limited ground investigation information in Zone B, and there is no historical ground investigation data in the southern area of Zone B. The encountered material in Site B is unlikely to contain significant levels of contamination.</p> <p>It is anticipated that the thickness of the fill material increases to the south and east. It is possible that made ground (imported from off-site sources) was used to achieve the necessary cut and fill balances in Zone B. This may be a potential source of contaminants such as asbestos, metals and PAHs.</p>
Zone C	Zone C has undergone limited historical development and is not built upon the Rassau Industrial Estate development platform. 2013 aerial photography (Google Earth) indicates the preparation of Zone C for site

Potential source(s) of contamination	Remarks
	works along the A465, which saw the construction of an attenuation/ desilting basin. Zone C is unlikely to contain any significant contamination.
Made ground associated with the unadopted asphalt road and pylon foundations	Made ground associated with the unadopted asphalt road/ gravel track and the pylons on site. This material is likely to have been regulated and controlled prior to use and is therefore unlikely to contain significant levels of contamination.
Licensed pollution releases	One historical licensed discharge to controlled waters has been recorded within the site area. This was associated with the Carno Lower soakaway and the nature of the effluent was unspecified.
Off site	
Three unspecified pits, 20m north-east (1960, 1974 and 1986)	Three 'unspecified pits' are marked on the historical plans 20m north-east of the site, associated with the historical filter beds of the Carno Reservoir. This area has since been reprofiled and the pits are likely to have been infilled. The nature of the infilled material is unknown, and this could consist of made ground; which may be a potential source of contaminants such as asbestos, metals and PAHs.
Electricity substations: 25m south-west (1996, now abandoned), 40m north-west (1996 to present) 50m north-east (1987 to present).	It is unlikely that the identified electricity substations used PCBs, which were widely prohibited from the mid-1970s under both UK and EU regulations. The abandoned substation to the south-west was associated with nine historical tanks; the closest of which was 35m south-west of the site. The uses of the tanks are unspecified. Based on modern aerial photography, some of the tanks are still present. The tanks may have stored hydrocarbons.
Car battery recycling facility (30m north-west)	This site has been registered as a recycling facility since 2005. This is a designated COMAH site and is also a designated 'List 1 Dangerous Substances' site for the use of mercury and cadmium. This may be a potential source of metals and acids (i.e. sulphuric acid).
'List 1 Dangerous Substances' site	In addition to the car battery recycling facility, there is another designated 'List 1 Dangerous Substances' site within 250m of the site. This is associated with the GTS Flexible Material Ltd site 205m south of the site; uses Perchloroethylene. This site is also associated with one historical tank. This may be a potential source of organic contamination, such as semi-volatile organics and volatile organics.
Historical pollution incidents, licensed pollution releases and licensed discharge consents	Three pollution incidents have been recorded within 250m of the site. The closest recorded pollution incident was located 195m south-east and was considered to have a significant impact on controlled waters; 'Category 2' pollution incident. The two remaining pollution incidents (225m and 245m south-east) both has minor/ no impact on land or controlled waters. There is one recorded licensed discharge to controlled waters, associated with the Rassau 400KV substation (10m north-west); discharging trade effluent into a tributary of the Ebbw River. Additionally, three licensed pollutant releases have been recorded within 250m of the site; 115m south-west, 200m and 205m south.

Potential source(s) of contamination	Remarks
	Based on the nature of the historical pollution incidents, licensed pollution releases and licensed discharge consents, potential sources of contamination include; organic contamination, trade effluent discharges and unspecified effluent.

4.2 Pathways

Potential pathways to human receptors

- Direct ingestion of soils and dust;
- Inhalation of dusts, fibres and particulates;
- Direct dermal contact with soils;
- Inhalation of vapours; and
- Gas migration.

Vertical gas migration is anticipated to be restricted by the cohesive nature of the encountered fill material comprising clay and peat. Ground gas may migrate laterally through more granular layers or within groundwater flow. Construction of foundations through the development platform may provide a vertical flow path for ground gas to reach the surface.

Potential pathways to controlled water(s)

- Leaching and vertical/lateral migration of contaminants;
- Direct discharge;
- Surface water runoff; and
- Contamination migration through preferential flow paths potentially induced by the inbuilt drainage.

4.3 Receptors

Human receptors

- Construction workers;
- Future maintenance workers;
- Future site users (including factory workers and plant visitors).

Controlled water(s) receptors

- Sandstone of the Lower Coal Measures (Secondary A aquifer);
- Mudstone of the Lower Coal Measures (Secondary A aquifer);
- Ebbw River;

- Remaining network of surface water features;
- Source Protection Zone 1 (SPZ1) of the Dowlais Limestone

4.4 Preliminary Risk Assessment

A Preliminary Risk Assessment (PRA) has been undertaken to qualitatively classify the nature of risk(s) posed by potential pollution linkages. This is based on the identified sources, pathways and receptors of contamination in the Conceptual Site Model developed for the site. The Preliminary Risk Assessment has been undertaken in accordance with the current industry standard CIRIA C552 [12] and is illustrated in Table 6 below.

Table 6: Preliminary Risk Assessment

PRA						
Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
On-site <i>Fill material (development platform)</i> <i>Licensed discharge consent (Carno soakaway)</i> <i>Made ground associated with the unadopted asphalt road and pylon structures</i> Off-site <i>Electricity substations and associated historical tanks</i> <i>'Unspecified pits' (18m NE)</i> <i>Pollution incidents, licensed</i>	Future site users: Factory workers (F) & maintenance workers (M).	Direct dermal	Unlikely (F)	Medium	Low	The site is proposed to be developed into a commercial facility. The site has undergone limited historical development and the encountered ground conditions comprising the development platform consisting of reworked natural materials. These are unlikely to contain significant contamination. Additionally, the majority of the site is to be occupied by buildings and hardstanding, with limited landscaping proposed. Maintenance of landscaped areas may be a potential source of dust, which may expose maintenance workers. Areas of hardstanding will be sufficient in removing any potential pollution linkages to the identified end users. Potential pathways for the migration of ground gas could be created during the construction of foundations, which could lead to the build-up of gases and create a risk of asphyxiation and explosion.
			Low likelihood (M)	Medium	Low	
		Ingestion	Unlikely (F)	Medium	Low	
			Low likelihood (M)	Medium	Moderate/low	
		Inhalation of gas, vapours and dusts	Unlikely (F)	Medium	Low	
			Likely (M)	Medium	Moderate	
	Construction Workers	Direct dermal	Likely	Medium	Moderate	Based on previous ground investigations, the development platform is likely to comprise reworked natural material, which is not likely to contain significant levels of contamination. Therefore, should direct contact with soils exist during construction (i.e. through the excavating and handling of soils), it is unlikely to pose a significant risk to construction workers. Additionally, appropriate PPE shall be worn during any construction workers, reducing the
		Ingestion	Likely	Medium	Moderate	
		Inhalation of gas, vapours and dusts	Unlikely	Mild	Very low risk	

PRA						
Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
<p><i>pollution releases and licensed discharge consents</i></p> <p><i>COMAH and 'List 1 Dangerous Substance' sites</i></p> <p><i>Car battery recycling facility</i></p>						<p>likelihood of dermal, ingestion and inhalation exposure scenarios.</p> <p>The risk of ground gas accumulation during construction is low, due to the lack of confined spaces.</p>
	<p>Construction phase:</p> <p>Surface water; the Ebbw River</p>	Leaching of contaminants	Likely	Medium	Moderate	<p>Open excavations may be present during construction, allowing for increased infiltration and subsequent leaching of the fill material and other on-site sources. The fill material is not known to comprise 'typical' made ground, however made ground may have been used to achieve the necessary cut/fill balances in Zone B. Potentially mobilised leachable contaminants may impact the identified controlled waters receptors.</p> <p>Groundwater within the Secondary A sandstone aquifer is likely to be in hydraulic continuity with the Ebbw River. Potentially contaminated groundwater would likely impact the Ebbw River through the lateral migration of groundwater.</p> <p>The site is located downstream of potentially contaminative industrial uses, including an active electricity substation. Potential contamination arising from up-gradient land uses may laterally migrate through underlying groundwater or across impermeable surfaces through surface runoff. Potentially contaminated surface water may collect within the lined drainage channels, which may act as a water conduit to the Ebbw River.</p>
		Lateral migration within groundwater	Low likelihood	Medium	Moderate/low	
		Contaminated surface water runoff and direct discharge	Low likelihood	Medium	Moderate/low	

PRA						
Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Operational phase: Surface water; the Ebbw River	Leaching of contaminants	Unlikely	Medium	Low	<p>No infiltration is proposed as part of the development and the site will predominantly comprise hardstanding with minimal landscaping. Therefore, leachable contaminants are unlikely to pose a risk during the operational phase.</p> <p>Up-gradient potentially contaminative industries may impact groundwater quality underneath the site within the Secondary A sandstone aquifer.</p> <p>It is unlikely that direct discharge/surface runoff will impact groundwater quality during the operational phase. The main drainage ditch is lined, preventing potentially contaminated surface water from entering groundwater through drains.</p>
		lateral migration within groundwater	Low likelihood	Medium	Moderate/low	
		Contaminated surface water runoff and direct discharge	Unlikely	Medium	Low	
	Construction phase: Groundwater within the Secondary A sandstone aquifer and SPZ (1)	Leaching of potential contaminants	Likely	Medium	Moderate	<p>Open excavations may be present during construction, allowing for increased infiltration and subsequent leaching of the fill material and other on-site sources. The fill material is not known to comprise 'typical' made ground, however made ground may have been used to achieve the necessary cut/fill balances in Zone B. Potentially mobilised leachable contaminants may impact the identified controlled waters receptors.</p> <p>Up-gradient contamination sources (electricity substation, car battery recycling facility) may impact groundwater quality, which would migrate southward towards the site. This may impact the identified groundwater receptors. This may occur if dewatering is required during construction.</p>
		Lateral migration from up-gradient sources	Low likelihood	Medium	Moderate/low	

PRA						
Potential Source	Potential Receptor	Possible Pathway	Likelihood	Severity	Risk	Comment
	Operational phase: Groundwater within the Secondary A sandstone aquifer and SPZ (1)	Leaching of potential contaminants	Unlikely	Medium	Low	No infiltration is proposed as part of the development and the site will predominantly comprise hardstanding with minimal landscaping. Therefore, leachable contaminants are unlikely to pose a risk during the operational phase. Up-gradient potentially contaminative industries may impact groundwater quality underneath the site within the Secondary A sandstone aquifer.
		Lateral migration from up-gradient sources	Low likelihood	Medium	Moderate/low	

5 Preliminary geotechnical considerations

5.1 General

From the available desk study information, an assessment has been undertaken to identify potential geotechnical constraints. Preliminary geotechnical recommendations are provided, and a preliminary scope of further ground investigation is proposed.

5.2 Earthworks

The proposed development plateaus shown in Appendix A split the site into two levels, one at 413mAOD and one at 400m AOD.

Figure 8 shows an indicative cross section through the site, on which the proposed development plateaus have been indicated, and an estimated bedrock surface shown, based on extrapolating between CP18 in the south of the site and TP11 in the north. Assuming that this extrapolation is roughly correct then to the order of 5 – 7m of bedrock would need to be excavated at the toe of the cuttings.

Excavation into the sandstone could be extremely difficult on account of it being described as strong to very strong on historical borehole logs. Assessments will be required to assess whether ripping or even potentially blasting may be required to allow productive excavation.

In addition to potential difficulties with the excavation of the sandstone rock where present, there is the potential for elevated or artesian groundwater to be encountered within excavations into the rock. When water bearing strata were exposed previously during the construction of the original Rassau Industrial Estate, this led to softening of the ground and ponding of water at the surface (further details on this are provided in Section 3.5). The net increase in uplift associated with the loss of overburden and the high piezometric head will also need to be considered with regards to the foundations. A comprehensive evaluation of the groundwater regime will be required as part of further works, which will inform the need for any amendments required to the existing drainage system.

The current proposals would require the plateaus to be predominantly formed within cuttings, meaning that almost all of the excavated material would either need to be removed from site for disposal or as suitable deposition area identified for this material as part of the proposals. (see section 6 below for recommendations). The current estimate for the excavation volume is 420,000m³.

Any earthworks required would need to be undertaken in accordance with an appropriate earthworks specification. This would also need to define the physical and chemical requirements for any imported materials to ensure their acceptability both in terms of engineering properties and chemical acceptable reuse criteria. Opportunities to amend the levels to achieve a better earthworks balance and reduce associated ground risks associated with excavation into the rock should be

explored. e.g. if the platform is formed with a gentle gradient to the south – i.e. broadly following the current platform gradients, this will not only allow drainage to be more readily incorporated during the earthworks and permanent works, but also reduce the cut volume. This may present significant risk reduction opportunities for the scheme in terms of costs and logistics.

5.3 Foundations

The site is anticipated to be underlain by shallow bedrock at the northern end and controlled fill over glacial till at the southern end. Depending on the load distribution, pad foundations in conjunction with ground bearing slabs may be suitable for the buildings. However, depending on settlement tolerances, piling into bedrock maybe more appropriate. Structures with particularly high loads such as the chimneys, will likely need founding on piles drilled into bedrock.

6 Preliminary geo-environmental considerations

From the desk study information, a Conceptual Site Model (CSM) was developed for the site, as discussed in Section 4. The source-pathway-receptor linkages identified in the CSM were then considered in the Preliminary Risk Assessment, Section 4.4.

Minimal land use development has occurred since the first available historical Ordnance Survey plans, comprising marshland and grassland until the late 1970s. The development of the cut and fill platforms of the Rassau Industrial Estate occurred during the late 1970s to early 1980s. Industrial units were constructed surrounding the site to the north and west, including electricity substations and a recycling facility. Land use development on the site has been limited to the construction of the unadopted asphalt road and pylons that connect to the neighbouring substations.

6.1 Risk to human health

The findings of the geo-environmental assessment(s) in Section 4 indicate that, with respect to human health, there is a potential risk of ground gas from the underlying fill material of the development platform. Post completion of the works, ground gas may accumulate within buildings through preferential pathways created by foundations, creating a risk of asphyxiation and explosion. Future maintenance workers may also be exposed to the generation of dust in areas of proposed soft landscaping. Construction workers are likely to be exposed to potential contamination (should it exist), however, the use of the appropriate PPE should be sufficient in limiting the risks from the identified exposure scenarios.

6.2 Risk to controlled waters

With respect to controlled waters, during construction there is a potential risk of increased leaching potential should there be open excavations. This would increase the potential for leachable contaminants, which may impact the identified controlled waters receptors due to the likely continuity between groundwater and the Ebbw River (i.e. lateral migration of contaminants in groundwater discharging into the Ebbw River). During construction, there may also be a requirement for active dewatering measures due to potentially high volumes of groundwater within the underlying sandstone. Dewatering underneath the site may draw groundwater from off-site potentially contaminative sources (i.e. the electricity substation), which may impact the identified controlled waters receptors. The identified drainage features appear to be concrete lined and consequently will not impact the identified groundwater receptors. During the operational phase, the site will predominantly be covered with hardstanding and no infiltration is currently proposed, significantly limiting the potential generation of leachable contaminants. Up-gradient contaminative groundwater sources may impact

groundwater quality on site, through the lateral migration of groundwater down-gradient.

6.3 Materials management

The proposed development may result in generation of a significant volume of materials. There may be some opportunities for soil arisings reuse within the development, however it is anticipated that significant volumes of soils will require removal from site. Therefore, off-site reuse or disposal of these materials will have to be considered. There are a number of options that can be considered for the surplus materials:

- Reuse on other sites;
- Waste transfer stations;
- Soil recycling; and/or
- Landfill disposal.

The re-use of arisings on another development is likely to be the most cost-effective solution for dealing with excess material from the site. The re-use of arisings on another development is subject to site specific risk assessments and the management of these materials would require implementation of Claire Waste Code of Practice and approvals from the Regulators.

The disposal cost to a landfill, waste transfer station or soil recycling facility is primarily dependent on the materials classification, but also type of facility (e.g. identified landfill class) and distance to that facility.

Landfill disposal cost comprises a gate fee (varies depending on a facility) and Landfill Tax. Rates of the Landfill Tax from 1 April 2020 are £94.15/tonne standards rate (hazardous and non-hazardous waste) and £2.9/tonne – inert waste (1m³ weighs approximately 1.8T, hence the rates should be multiplied by 1.8 for a rate/m³).

Considering its cost and sustainability issues, landfilling of the soil arisings should be considered as the last option. In accordance with the waste management regulations treatment of waste is required for all materials designated for disposal. This may include for example physical sorting, which aims at the reduction of waste volume, which also could be considered as an opportunity to reduce disposal costs.

6.4 Further action

An investigation will be required to characterise the site to allow for appropriate management of risks and also input into materials management. This should include soil and groundwater sampling and testing, as well as gas and groundwater monitoring to allow for a comprehensive ground gas and hydrogeological risk assessment to be undertaken. The results of the investigation should be assessed in accordance with development proposals and proposed site end uses. Following this, mitigation and/or remediation measures may be

recommended in order to ensure the site is suitable for its intended end use, with no unacceptable risks posed to human health or controlled water receptors.

7 Site Investigation Proposals

Intrusive ground investigations are recommended to inform the following:

- Cut/fill volumes and optimising the design of the development plateaus;
- Excavatability within areas of proposed/potential excavations;
- Ground conditions for foundation design and the assessment of predicted settlement and/or heave due the changes in ground levels;
- The potential for artesian groundwater and to inform the potential methods of drainage; Groundwater pressure/level monitoring within the superficial deposits and underlying bedrock to at least 10m below the depth of the proposed/potential cuttings;
- Concrete classification requirements - for buried concrete;
- Potential for contamination of soil and groundwater;
- Suitability for re-use of site won materials within earthworks.

A scope of investigation is proposed based on the proposal provided in Appendix A. This assumes that cuttings up to around 15m deep in the northern area of each plateau and retaining walls up to 13m in height.

7.1 Proposed preliminary investigations

In order to investigate the above considerations, the ground investigation is anticipated to comprise of the following:

Cable percussion holes:

- Thickness and nature of superficial deposits;
- Ground gas and groundwater monitoring installations;
- Stratigraphy to effective refusal within bedrock, including weathered rock;
- In-situ testing (including SPTs) and laboratory testing of derived samples to derive engineering parameters for design.

Rotary core follow-on boreholes:

- Description and nature of the bedrock below point of refusal of the cable percussion boreholes;
- Ground gas and groundwater monitoring installations – including potential for elevated/artesian porewater pressures within and beneath cuttings/formations and in areas of potential piled foundations;
- In-situ testing (including SPTs) and laboratory testing of derived samples, including rock strength, to derive engineering parameters for foundation design;

- Information for assessment of excavatability of rock – to depths of potential excavation, including rock strength and fracture spacing.

Trial Pits

- Stratigraphy, nature of superficial deposits/made ground;
- Potential for presence of peat inclusions in fill forming the Rassau Industrial Estate platforms;
- Depth to rockhead;
- Allow for infiltration testing.
- Allow for CBR testing to inform road pavement design

Laboratory sampling and testing:

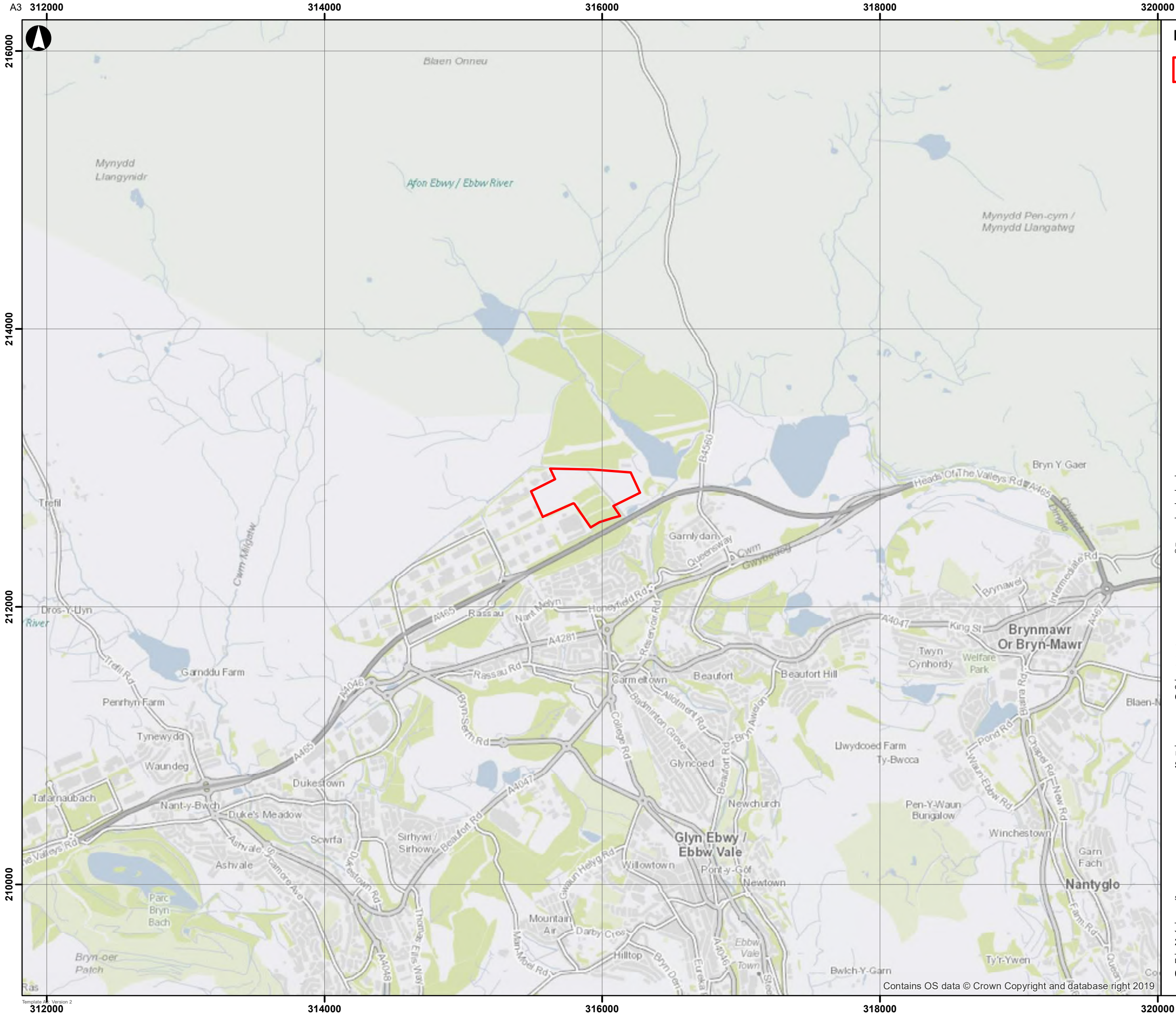
- Collection of soil samples for geotechnical and geo-environmental testing;
- Groundwater sampling – 3no. fortnightly rounds.

Additional monitoring:

- Groundwater level – continuous monitoring (divers) and 6no. rounds over 3months;
- Ground gas - 6no. round over 3months.

8 References

- [1] CIRIA (2009) C681, Unexploded ordnance (UXO) A guide for the construction industry, London.
- [2] Zetica UXO Risk Maps. Accessed April 2020
[<https://zeticauxo.com/downloads-and-resources/risk-maps/>]
- [3] Coflein National Monuments Record of Wales, Accessed April 2020
[<https://coflein.gov.uk/en/mapping>]
- [4] Geological Survey of England and Wales (1974), Abergavenny Sheet 232, Scale 1:10,560.
- [5] Geological Survey of England and Wales (1990), SO11SE, Scale 1:50,000.
- [6] British Geological Survey, Geoindex Onshore, Accessed April 2020
[<http://mapapps2.bgs.ac.uk/geoindex/home.html>]
- [7] Ove Arup and Partners (March 1998). Site at Rassau, Ebbw Vale (2 locations). Memorandum. Enron Power.
- [8] Environmental Scientifics Group (June 2011). Additional ground and chemical investigation – a465 heads of the valleys dualling: section 3 Brynmawr to Tredegar Report No H0077-10. Ground Investigation Factual Report. Carillion Civil Engineering.
- [9] Welsh Government (February 2012). A465 Dualing Section 3, Brynmawr to Tredegar. Preliminary Sources Study Report.
- [10] The Coal Authority. The Coal Authority Interactive Map Viewer, Accessed April 2020.
[<https://mapapps2.bgs.ac.uk/coalauthority/home.html>]
- [11] Ove Arup and Partners (May 1986). Proposed Advance Factory Units. Rassau Industrial Estate. Geotechnical Report.
- [12] CIRIA C552 (2001), Contaminated land risk assessment, A guide to good practice.
- [13] NHBC, Environment Agency, CIEH (2008), Guidance for the Safe Development of Housing on Land Affected by Contamination.
- [14] Welsh Government, historical aerial photography.
- [15] British Geological Survey (1986), Hydrogeological Map of South Wales, scale 1:125,000.



Legend

Site Boundary

F1	2020-04-01	EB	ALP	AP
Issue	Date	By	Chkd	Appd

Metres

0

337.5

675

1,350

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Client
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Figure Title

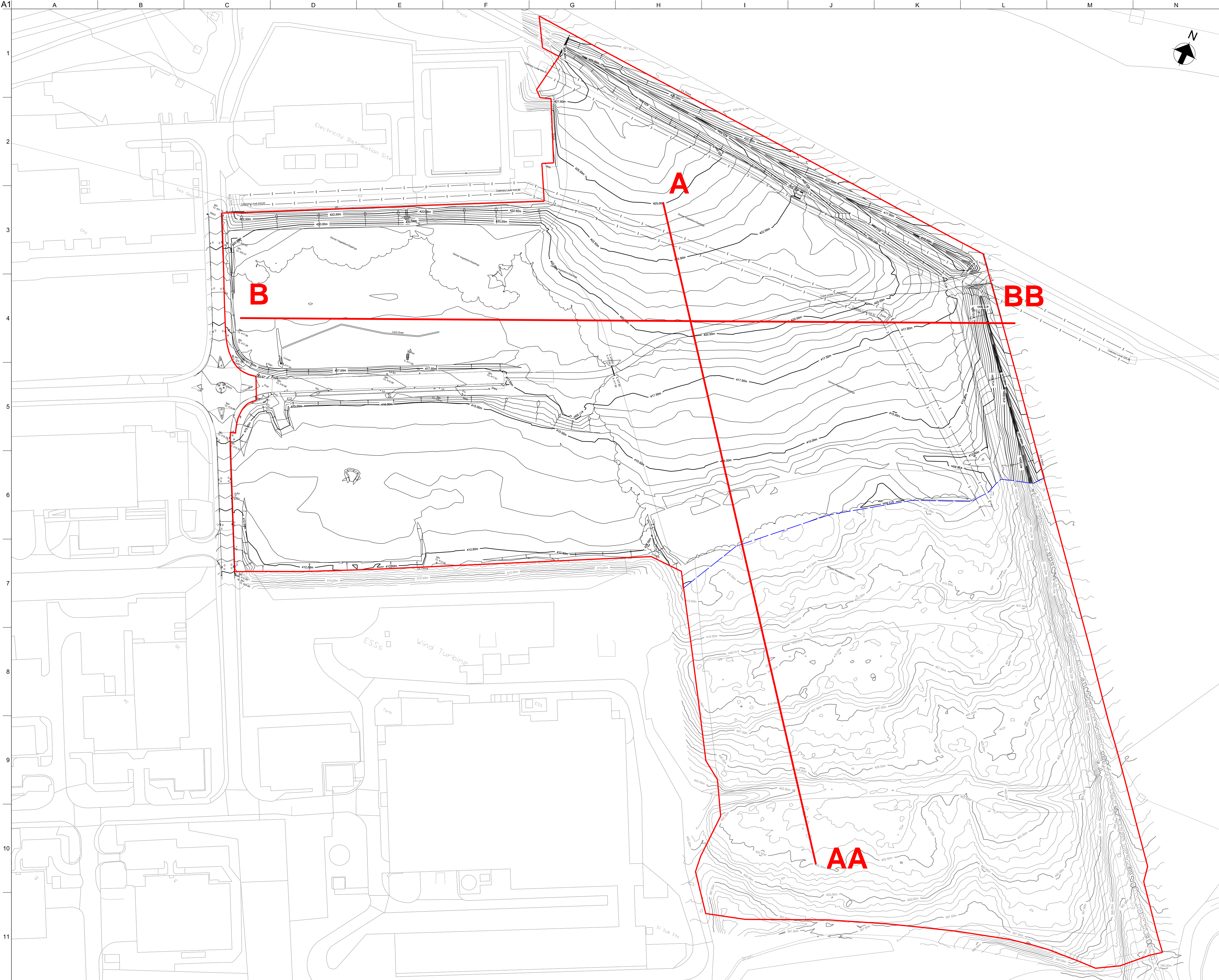
Site Location

Scale at A3

1:25,000

Job No	Drawing Status
273927	For Issue
Drawing No	Issue
001	F1

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Legend

Site Boundary

Existing Contour - Topographical Survey

Existing Contour - Lidar Data

Boundary between Topo and Lidar information

Notes

1. Do not scale from this drawing.

2. All levels are shown in metres above ordnance datum (m AOD).

3. Topographic information shown are based on John Vincents Surveys Ltd. Survey received 15/07/19.

4. Welsh Government to confirm extents Site Boundary.

5. South Eastern extents of site boundary heavily vegetated therefore surveyor was unable to enter area to conduct survey.

IO	24/07/19	DS	AR	JS
Issued for Information				
Issue	Date	By	Chkd	Appd

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Client

Welsh Government

Job Title

Rassau Industrial Estate

Drawing Title

Existing Site Levels

Scale at A1

1:1000

Discipline

Civil

Drawing Status

Job No	Drawing No	Issue
268626	SK004	IO



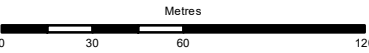
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

- Site Boundary
- Stratigraphy Zone A
- Stratigraphy Zone B
- Stratigraphy Zone C

F1	2020-04-17	EB	ALP	AP
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Issue	Date	By	Chkd	Appd
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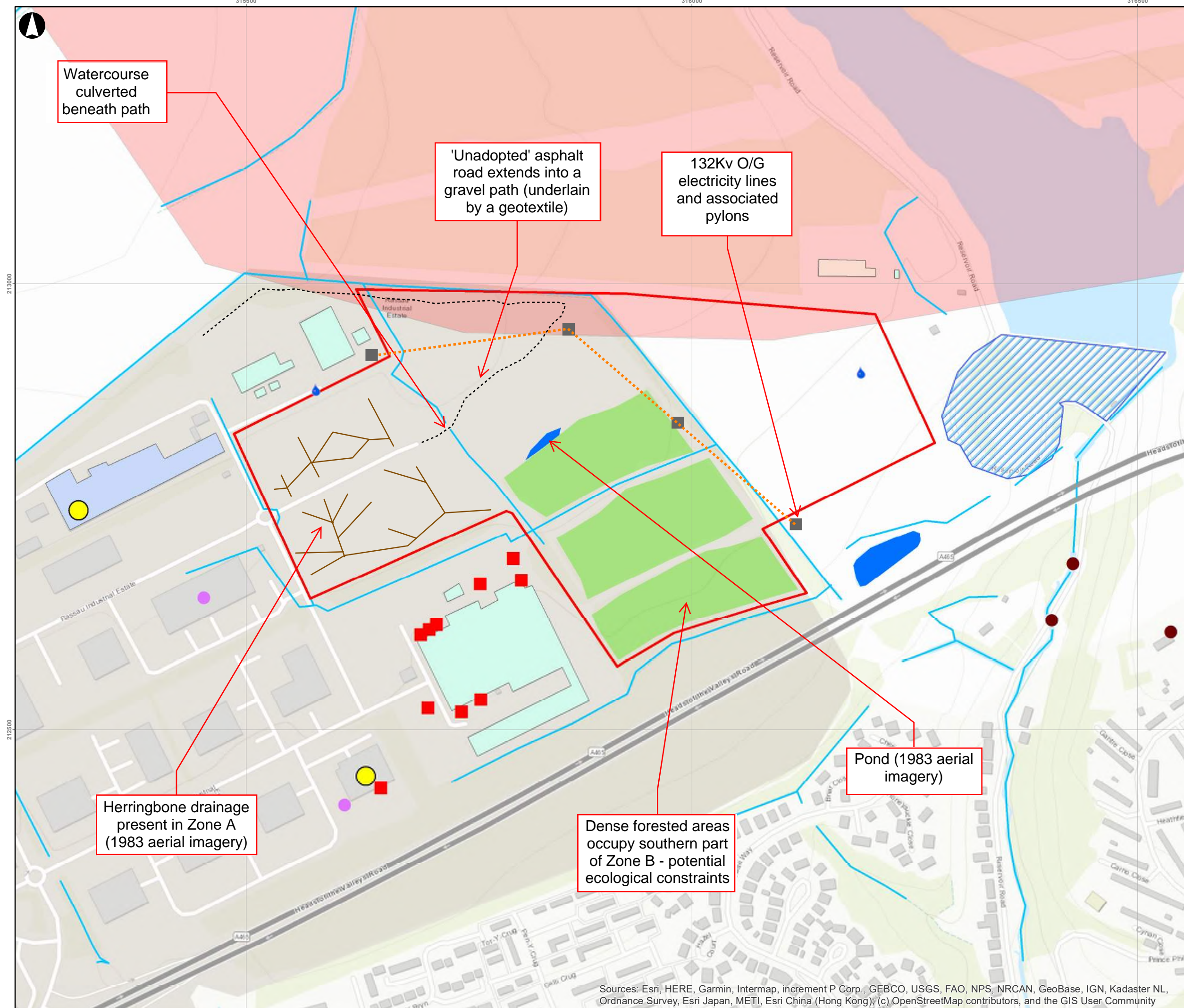
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Figure Title
Site zones for the purpose of the desk study

Scale at A3
1:2,500

Job No 273927	Drawing Status For Issue
Drawing No 003	Issue F1



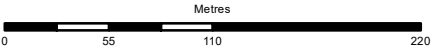
Legend

- Site Boundary
- Herringbone drainage
- Forested areas
- Ponds
- Licensed Discharges to controlled waters
- COMAH & 'List 1 Dangerous Substance' sites
- Historical tanks
- Recorded pollution incidents
- Licensed pollutant release
- Watercourses
- Car battery recycling facility
- Electricity substation(s)
- Pumping station
- Filter beds

Source Protection Zone

1

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Figure Title
Features and constraints

Scale at A3
1:4,000

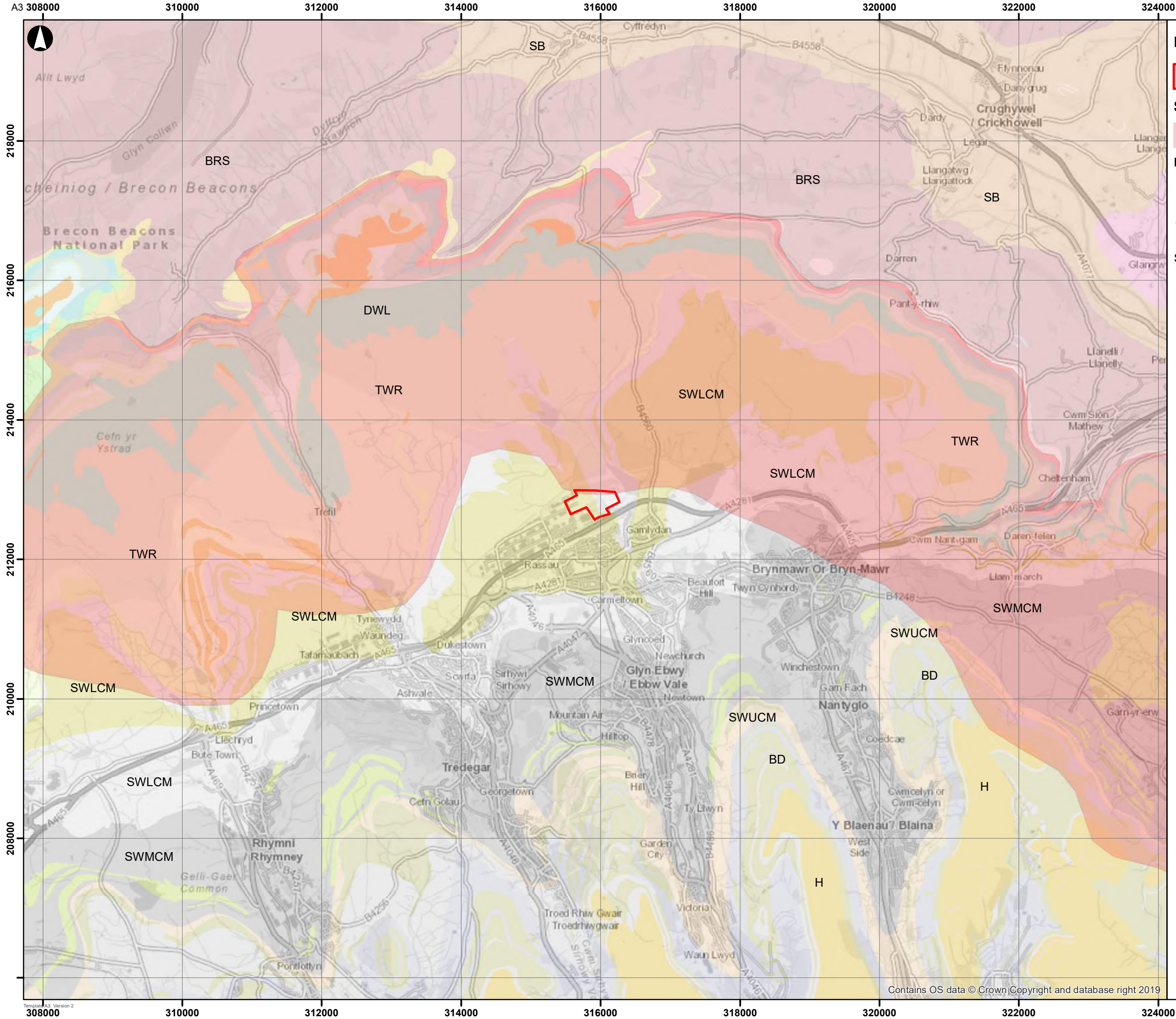
Job No
273927

Drawing Status
For Issue

Drawing No
004

Issue
F1

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



Legend

Site Boundary

SPZs

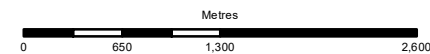
1

Bedrock Geology

- H Hughes Member - Sandstone
- BD Brithdir Member - sandstone
- SWUCM South Wales Upper Coal Measures
- SWMCM South Wales Middle Coal Measures
- SWLCM South Wales Lower Coal Measures
- TWR Twrch Sandstone
- DWL Dowlais Limestone
- BRS Brownstones Formation
- SB Senni Formation

F1	2020-04-17	EB	ALP	AP
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Issue	Date	By	Chkd	Appd
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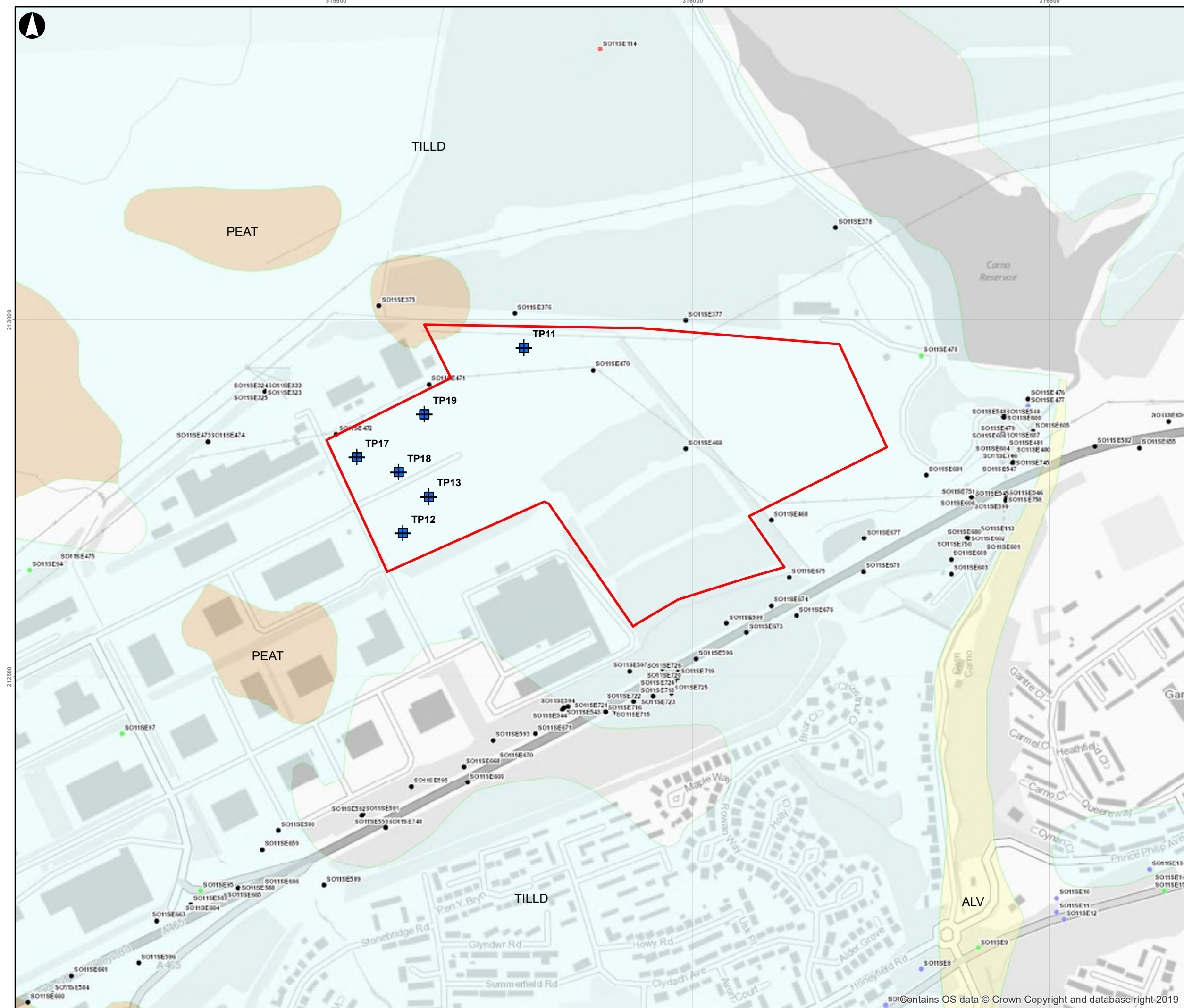
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Figure Title
Regional geology and hydrogeology

Scale at A3
1:50,000

Job No 273927	Drawing Status For Issue	Issue F1
Drawing No 005		

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Legend

- Site Boundary
- Rassau Ind Estate GI

BGS Superficial Geology 1:50,000

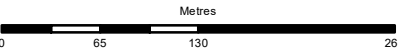
TILLD - Glacial till
PEAT - Peat
ALV - Alluvium

BGS borehole records

- Available borehole records
- Confidential borehole records

F1	2020-04-17	EB	ALP	AP
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Issue	Date	By	Chkd	Appd
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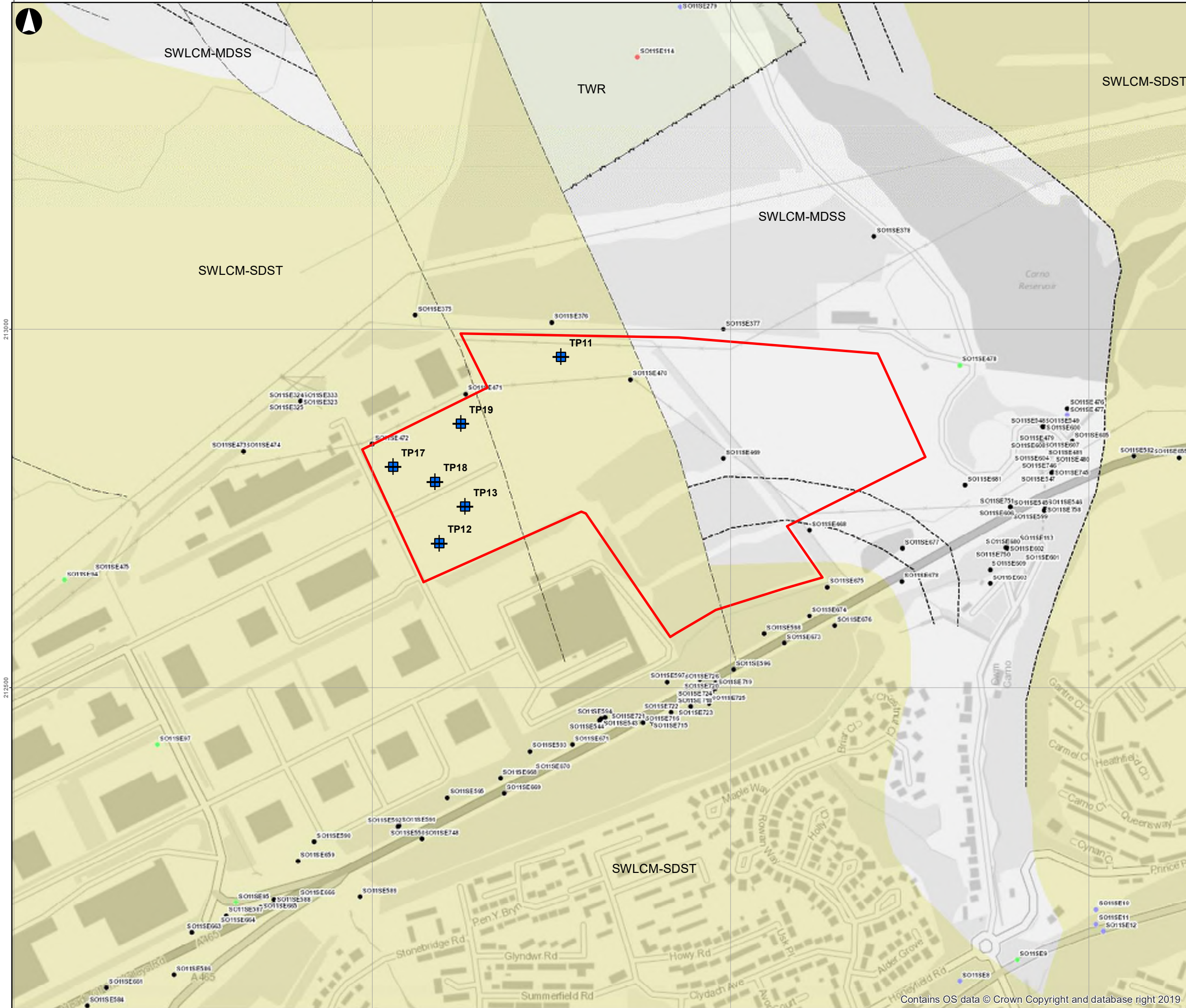
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Figure Title
**Site superficial geology and previous
ground investigation records**

Scale at A3
1:5,000

Job No 273927	Drawing Status For Issue	Issue F1
Drawing No 006		



Legend

- Site Boundary
- Rassau Ind Estate GI

BGS Bedrock Geology 1:50,000

TWR - Twrch Sandstone
SWLCM-MDSS - South Wales Lower Coal Measures - Mudstone
SWLCM-SDST - South Wales Lower Coal Measures - Sandstone

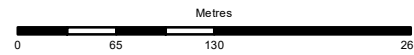
- Marine band
- Fault
- Coal seam

BGS borehole records

- Available borehole records
- Confidential borehole records

F1	2020-04-17	EB	ALP	AP
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Issue	Date	By	Chkd	Appd
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Figure Title
**Site bedrock geology and previous
ground investigation records**

Scale at A3
1:5,000

Job No 273927	Drawing Status For Issue	Issue F1
Drawing No 007		

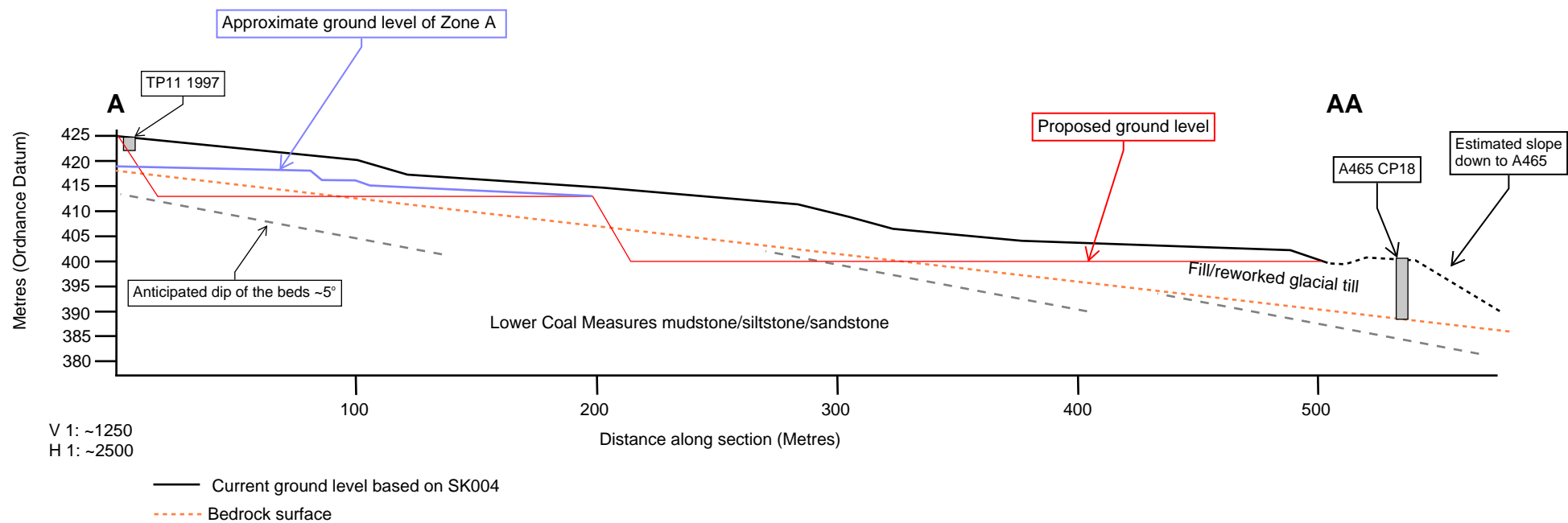


Figure 8 - Conceptual cross section A-AA
April 2020

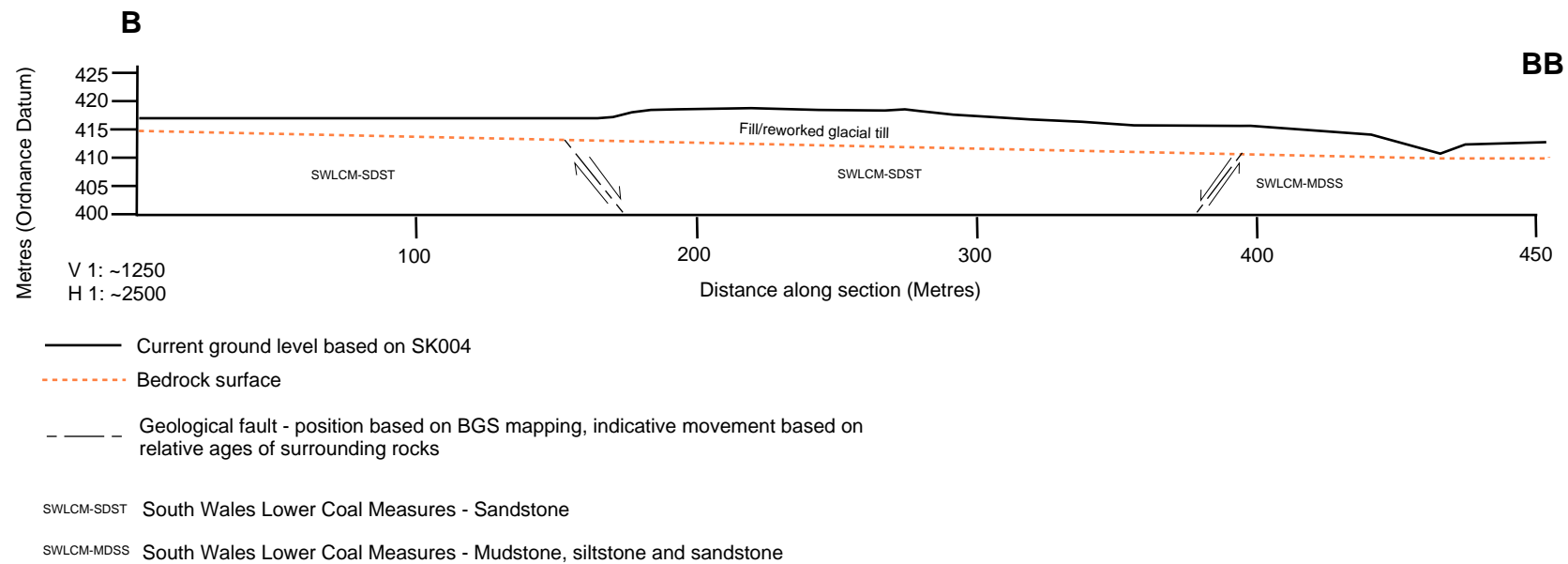
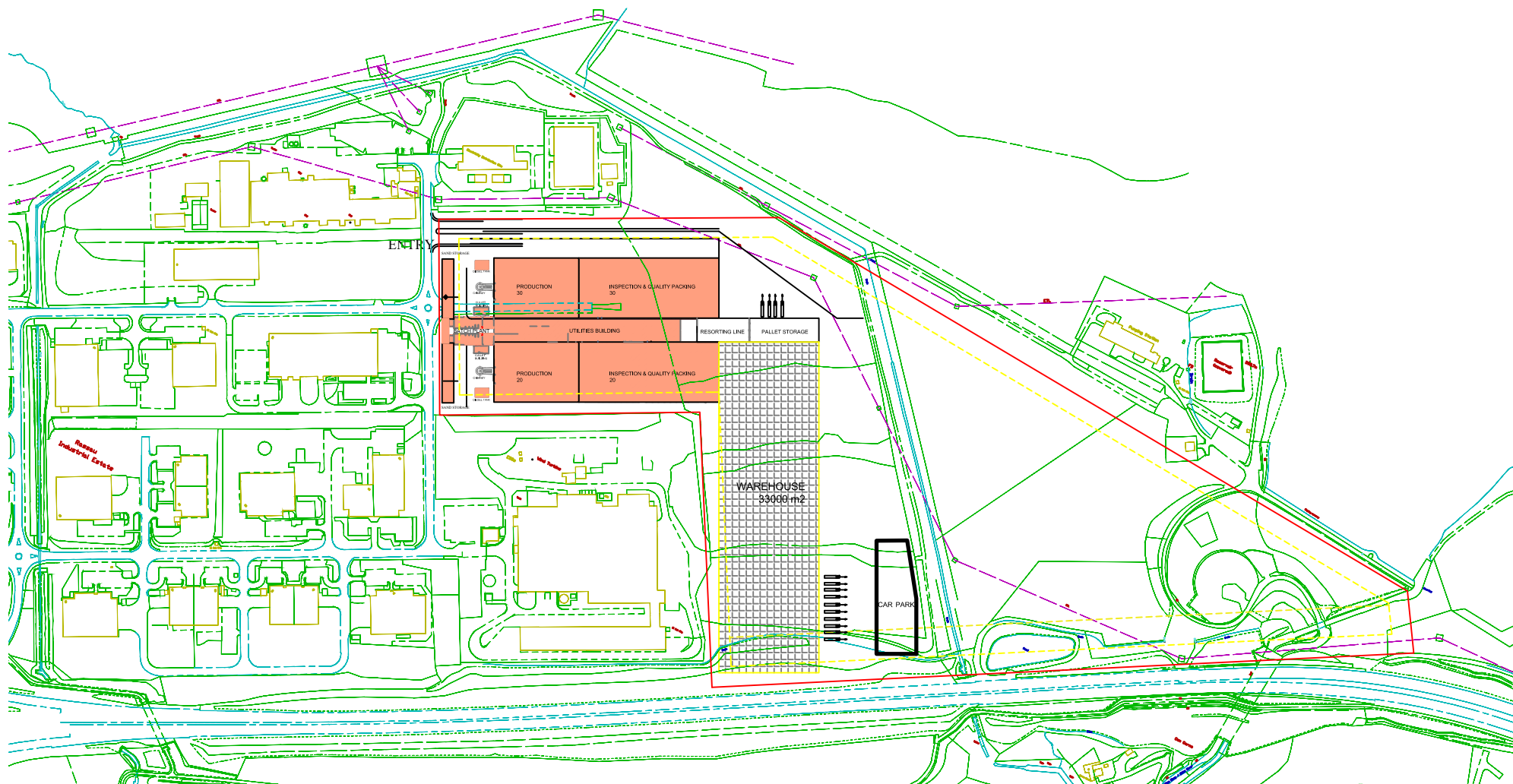


Figure 9 - Conceptual cross section B-BB
April 2020

Appendix A

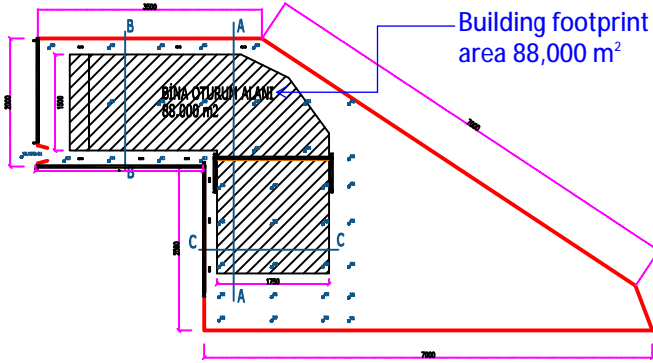
Project proposals



Use of comma and dot in numbers in Turkish is complete opposite to English. I assume this is four hundreds and twenty thousands cubic meter NOT four hundreds and twenty cubic meter?

Total quantity of excavation: 420,000 m³

LAYOUT - 2



PLAN PLAN KOT

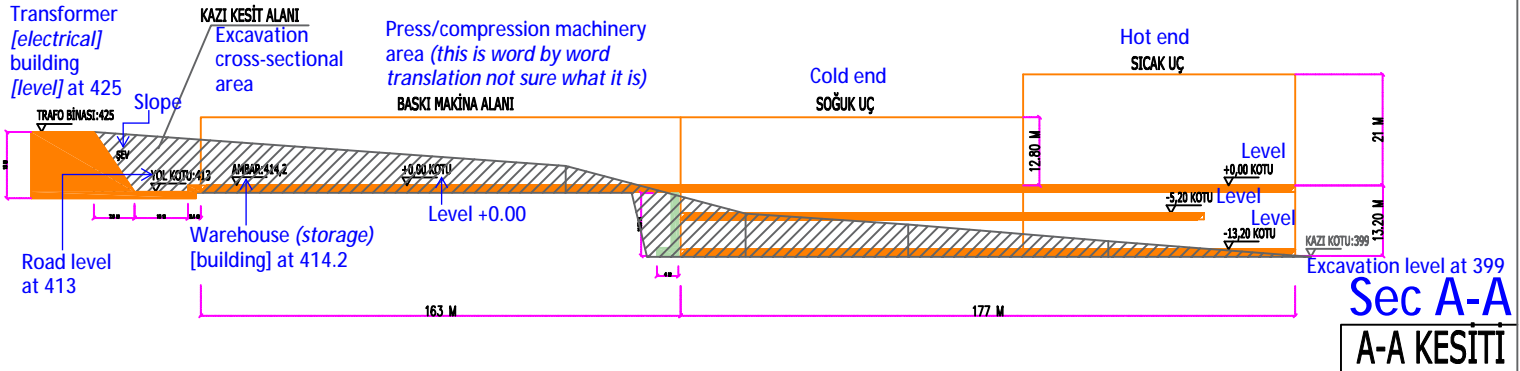
TOPLAM KAZI KÜBAJ MİKTARI: 420.000 M3

TOPLAM İSTİNAT DUVARI: 840 M

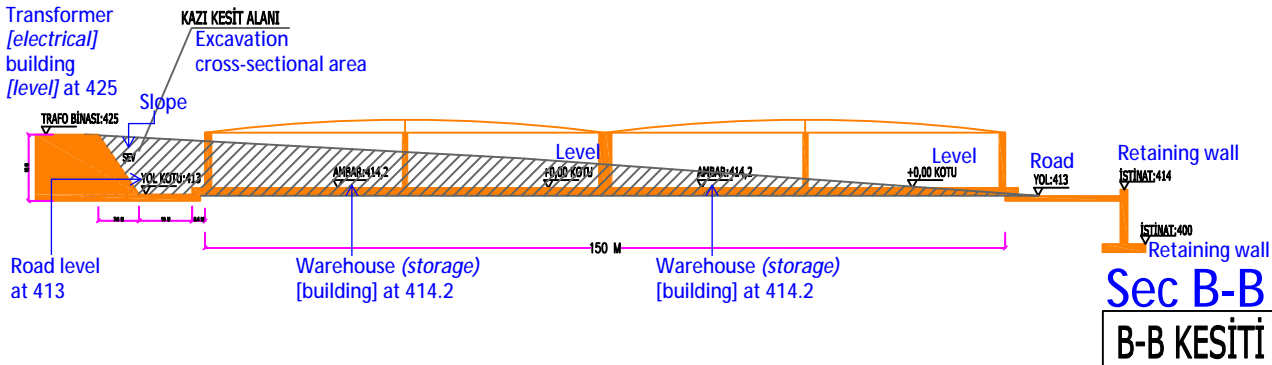
Total length of retaining walls: 840m

KAZI KOTU: 399
YOL KOTLARI: 400 - 413
-13,20 KOTU: 401
-5,20 KOTU: 409
+0,00 KOTU: 414,2

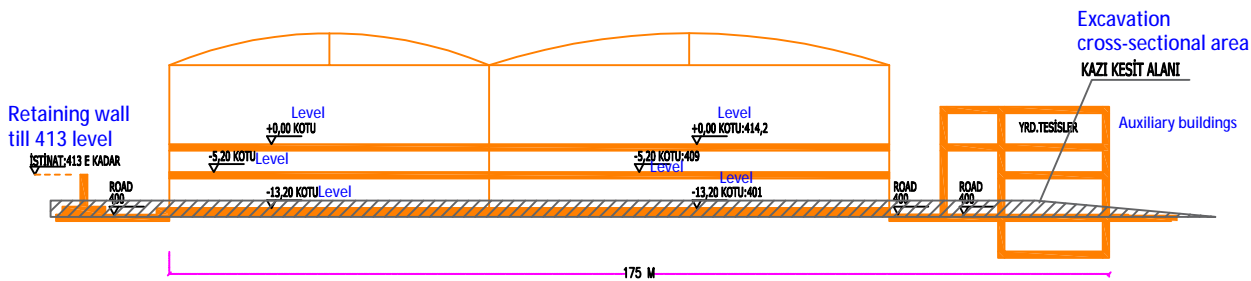
Excavation Level: 399
Road Level: 400-413
Level -13.20 is 401
Level -5.20 is 409
Level +0.00 is 414.2



Sec A-A
A-A KESİTİ



Sec B-B
B-B KESİTİ



C-C KESİTİ

Section C-C

Appendix B

Site Photographs



View of the unadopted asphalt road, providing access from the west of the site.



Gravel path that extends from the unadopted asphalt road.



Extension of gravel path, with a view of the O/G 132Kv power lines.



Perimeter drainage ditch (lined with concrete and corrugated metal).



Pylon structures with associated O/G electricity power lines.



Dense woodland associated with the central and southern areas of Zone B.

Appendix C

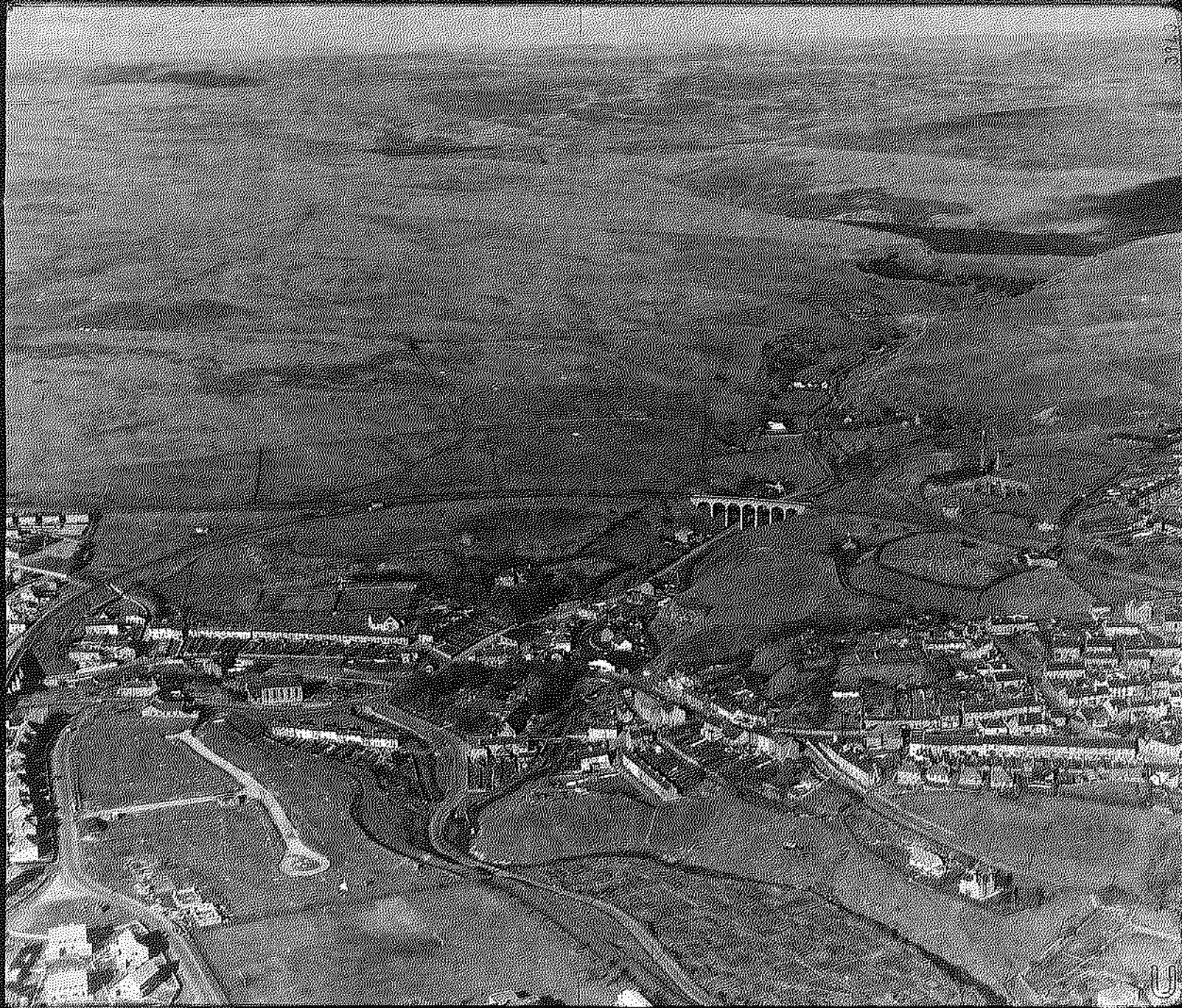
Welsh government aerial images

31-3

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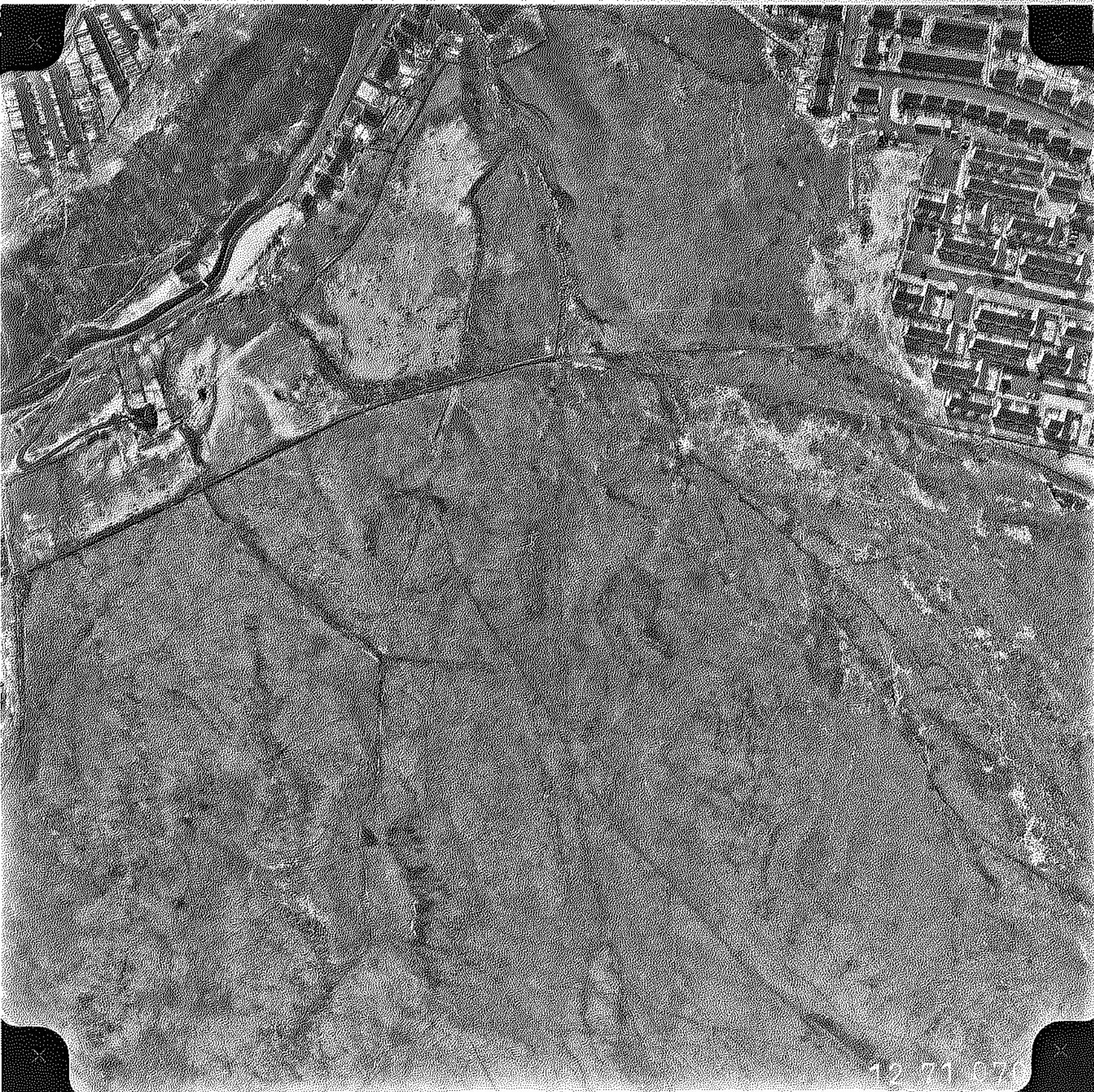
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0123

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12/71 67

J.A. STORY AND PARTNERS
92-94 CHURCH ROAD
MITCHAM SURREY



CONTACT SCALE

1/3000



12/71
7-3-71



EBBW VALE

7963



MINISTRY OF AGRICULTURE WALES, AREA 5, GRID SQUARES SO 11-SO 14. Cartographical Services (Southampton) Ltd.
No 667. Flying height 6400ft. 19th MAY 1977. © Crown Copyright.



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81 044



ZEISS 054 12' 8200' 10TH JULY 1981

RASSAU

011



V2

1PRU

RAF 0351

6"

14 NOVEMBER 1983







STANDING CONFERENCE ON REGIONAL POLICY IN SOUTH WALES

NCAE

CONTACT SCALE

1 : 10,000

DATE

19-8-91



Naturalists Group

ARTHUR ST. GARTRELL, LEICS. LE13 8QZ

77 91 131





019

78 140

ZEISS 05+

12"

8000'

4th September 1978

TAFARNAUACH, DAWLAS BELLIGER COMMON



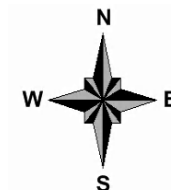
Appendix D

Groundsure Reports

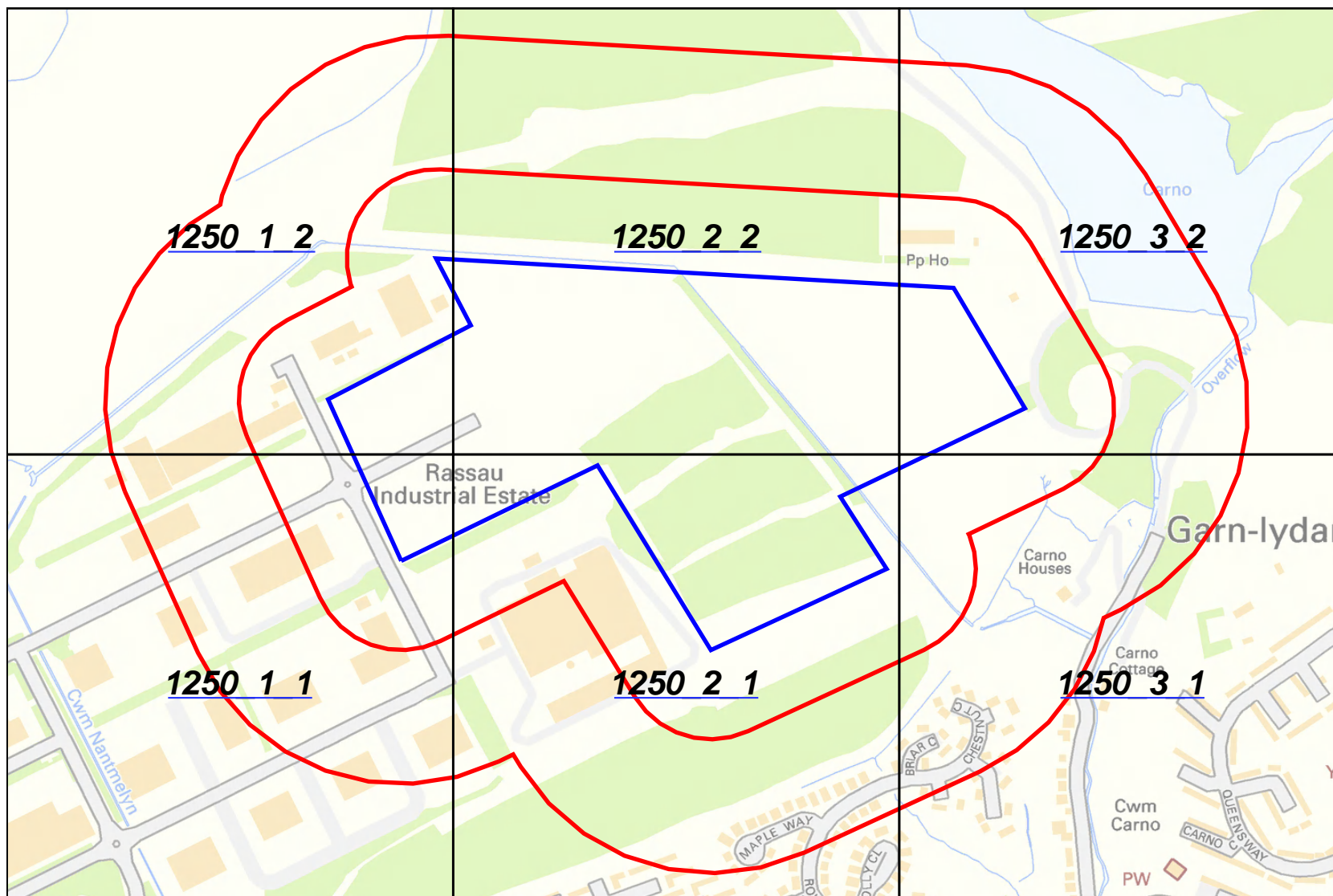


Groundsure

INSIGHTS



1:1250 Scale Grid Index



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VALE, NP23 5SD

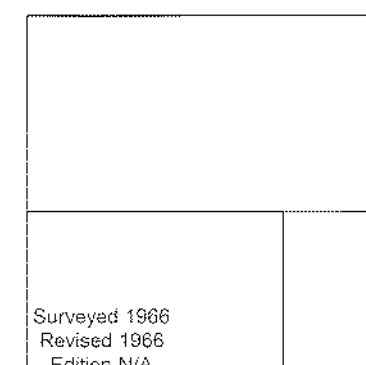
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Grid Ref: 315395, 212521

Map Name: National Grid

Map date: 1967

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1967
Levelled 1952

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1952

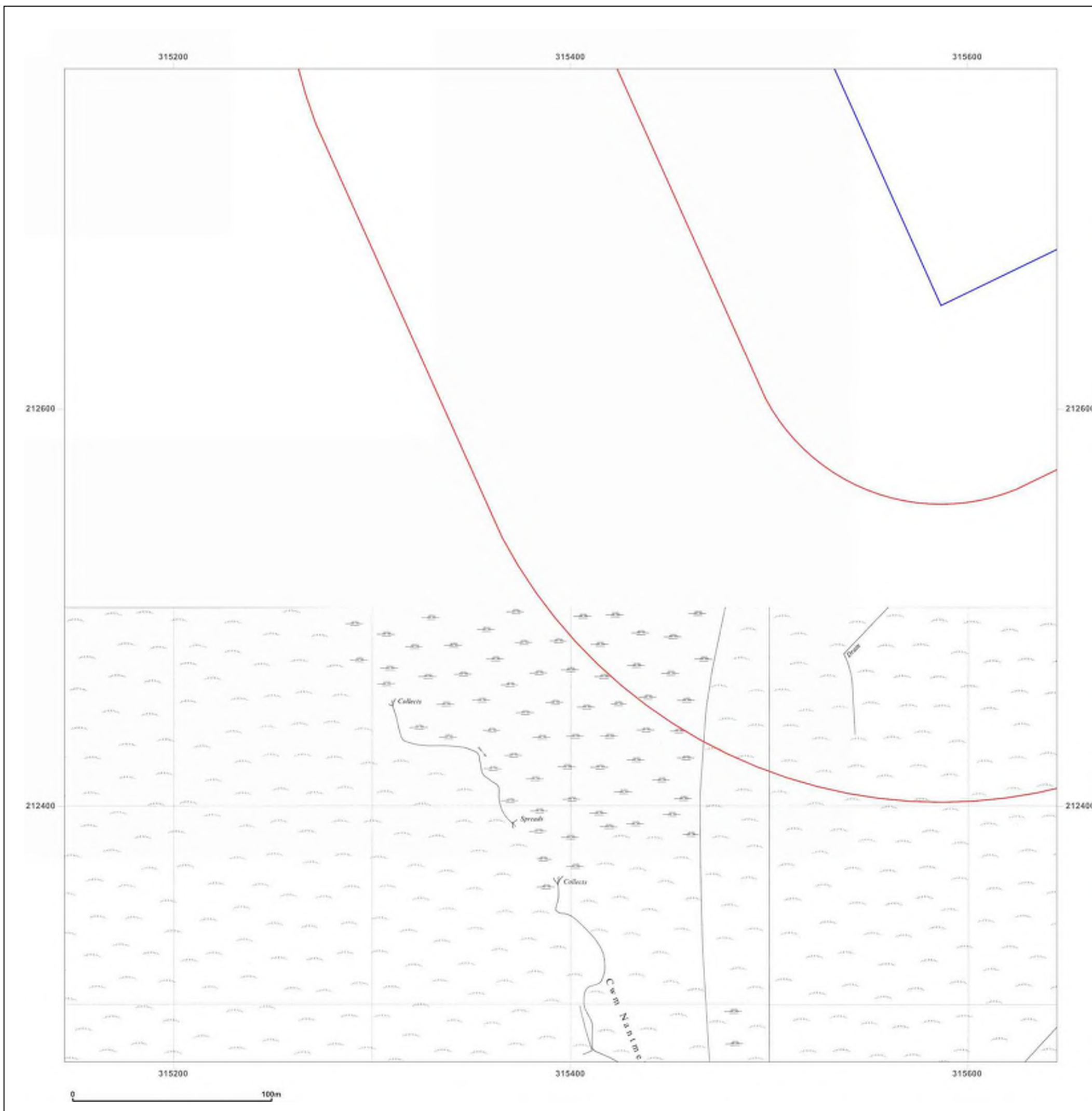


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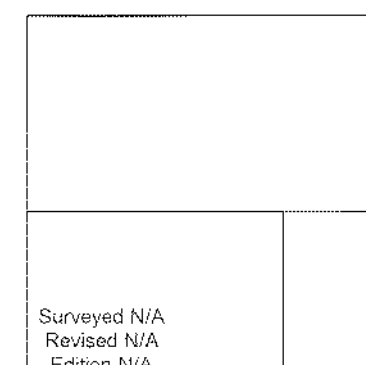
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Map Name: National Grid

Map date: 1971-1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
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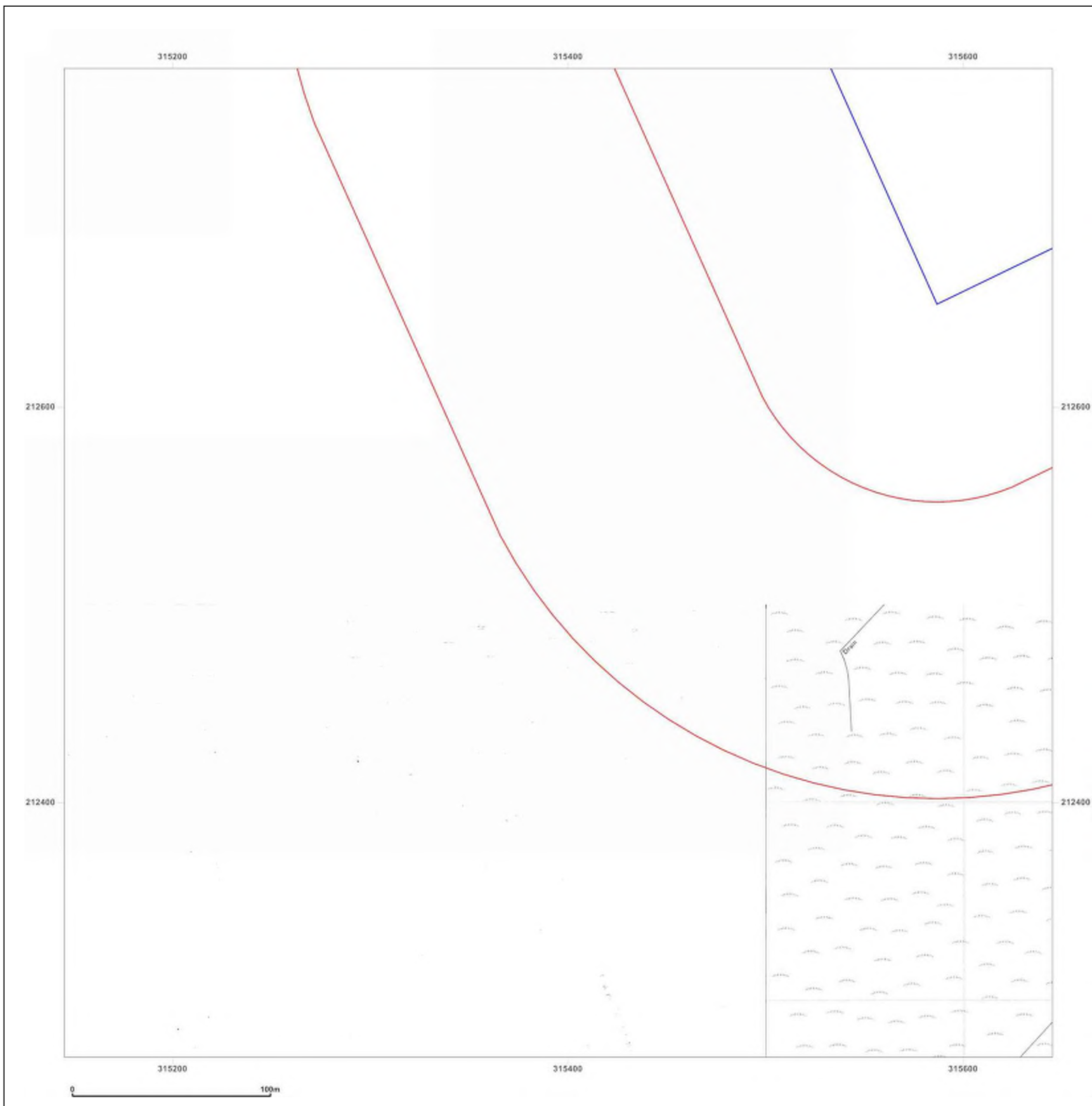


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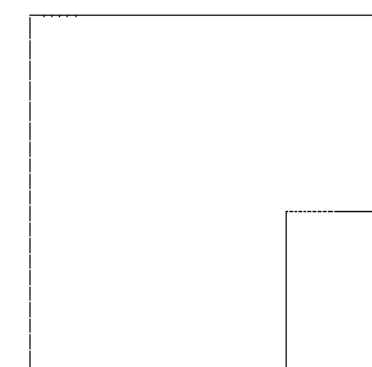
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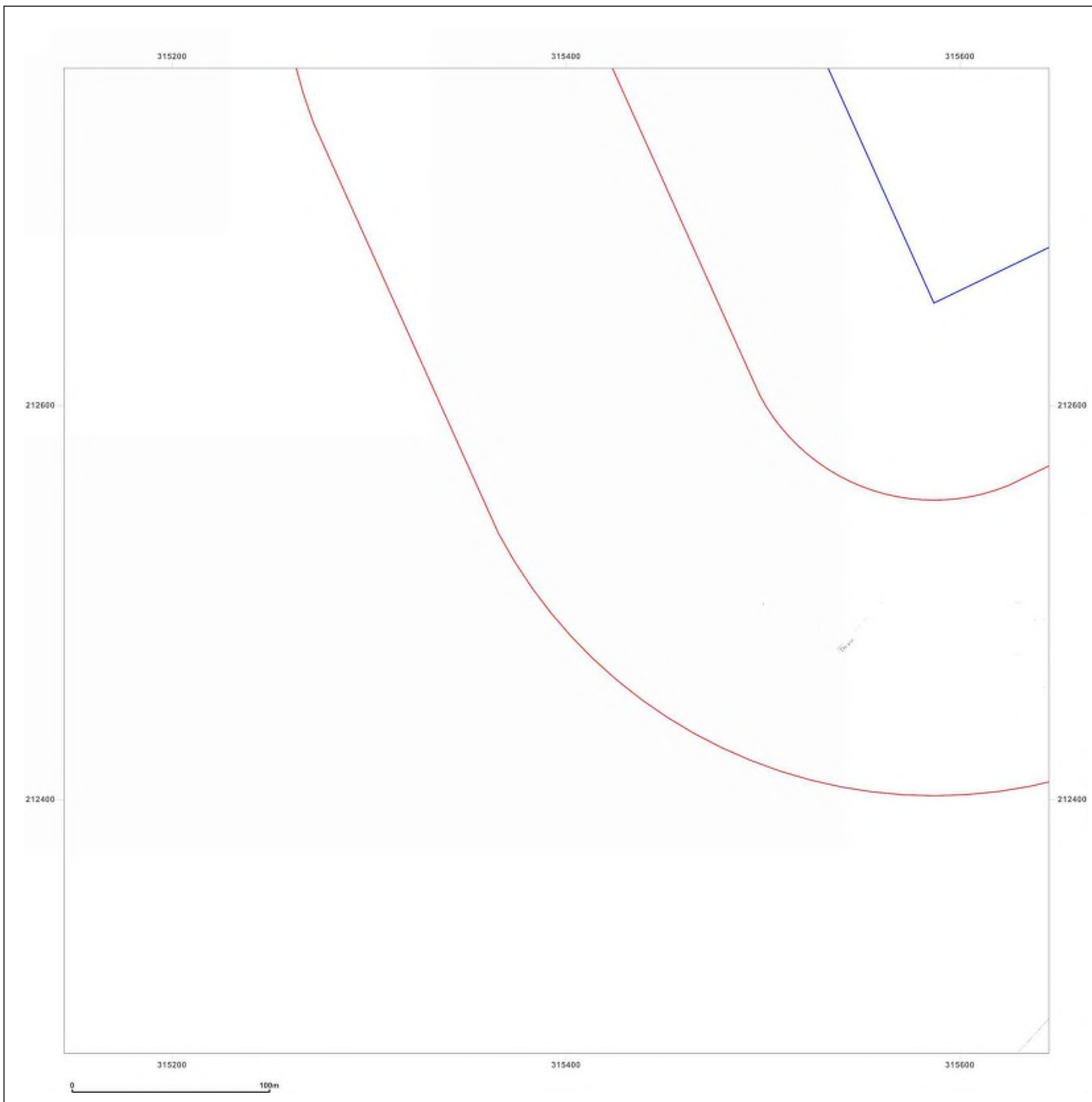


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Map Name: National Grid

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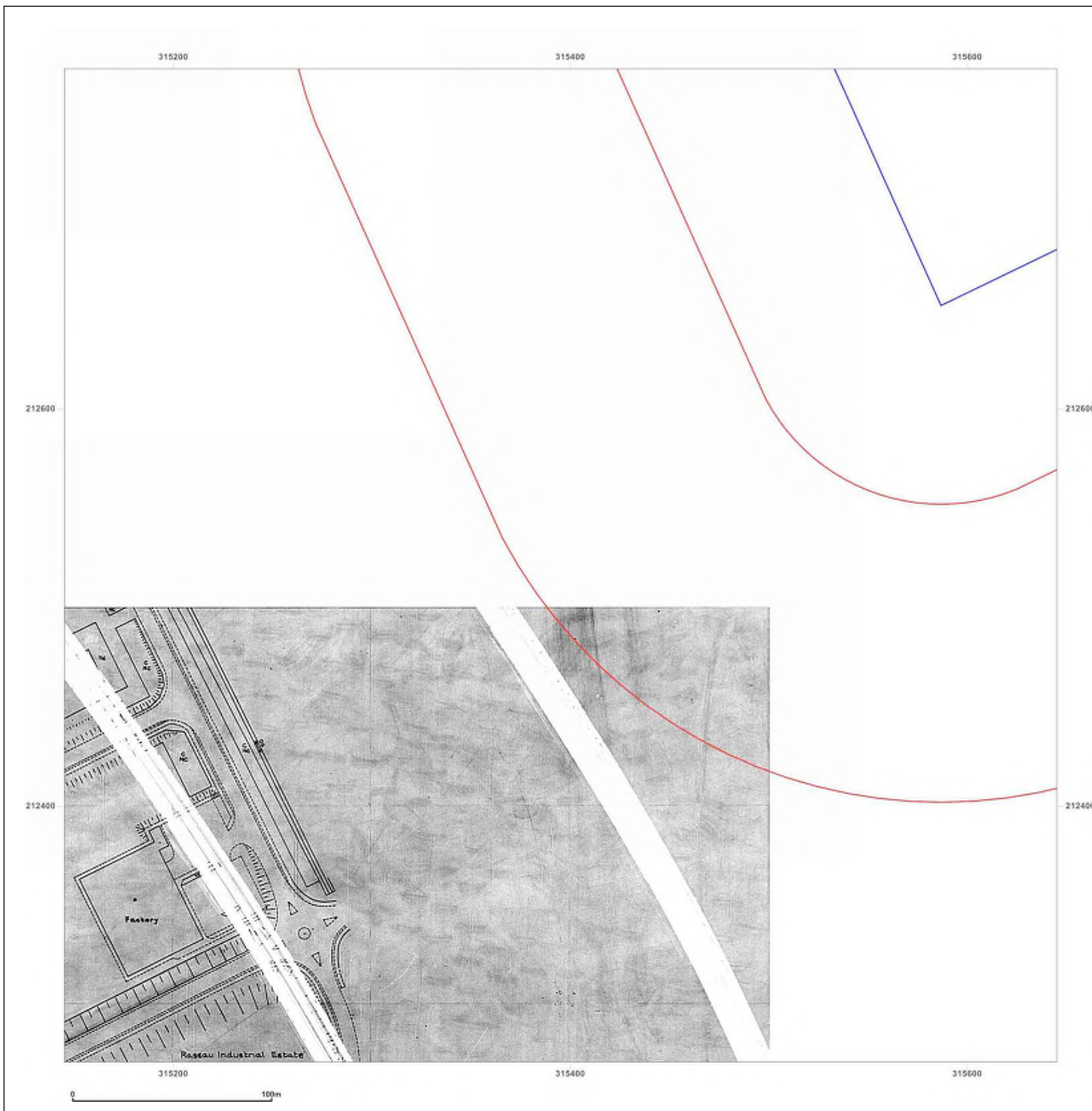


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Map Name: National Grid

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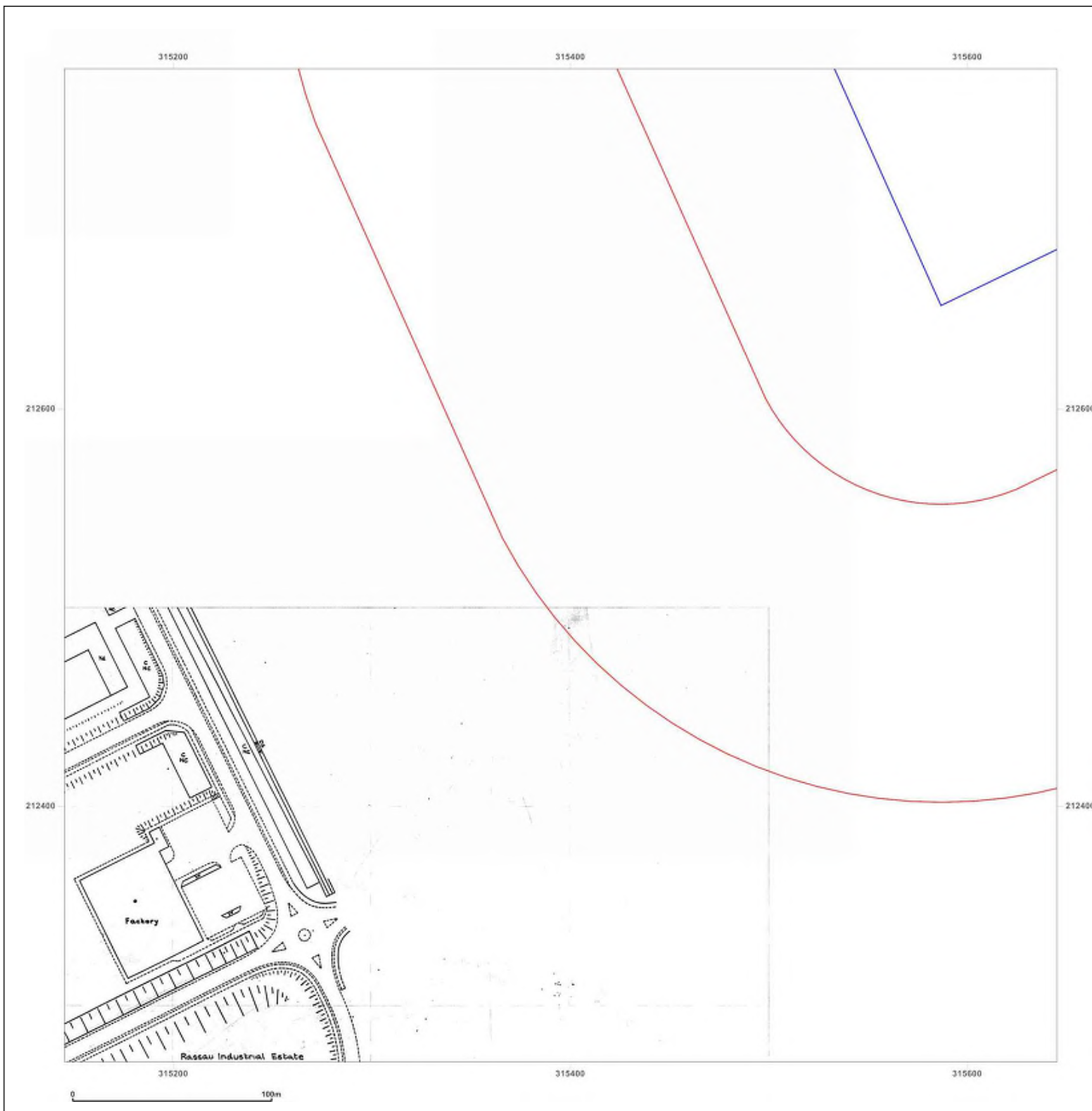


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_1_1
Grid Ref: 315395, 212521

Map Name: National Grid

Map date: 1986

Scale: 1:1,250

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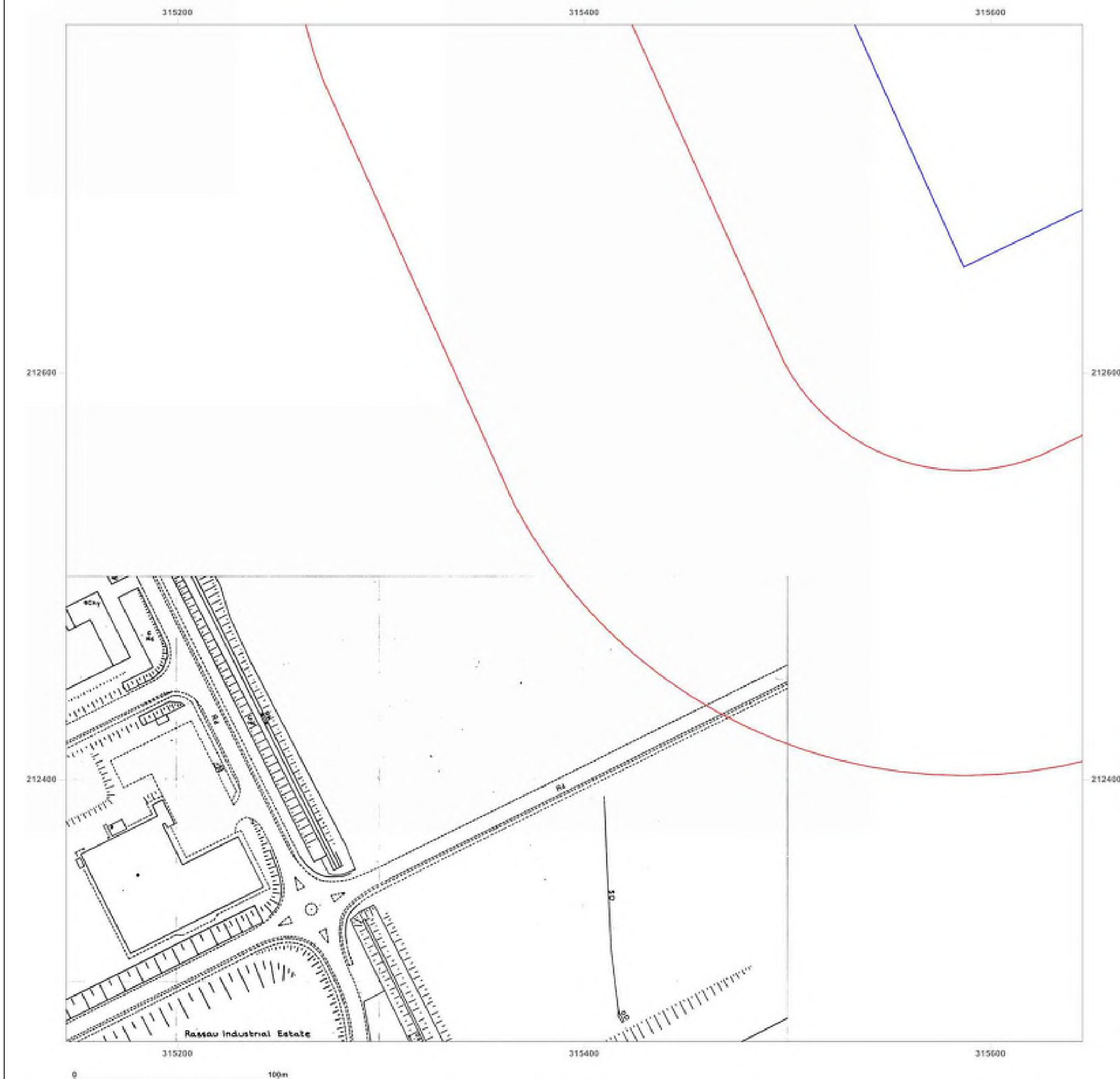


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Map Name: National Grid

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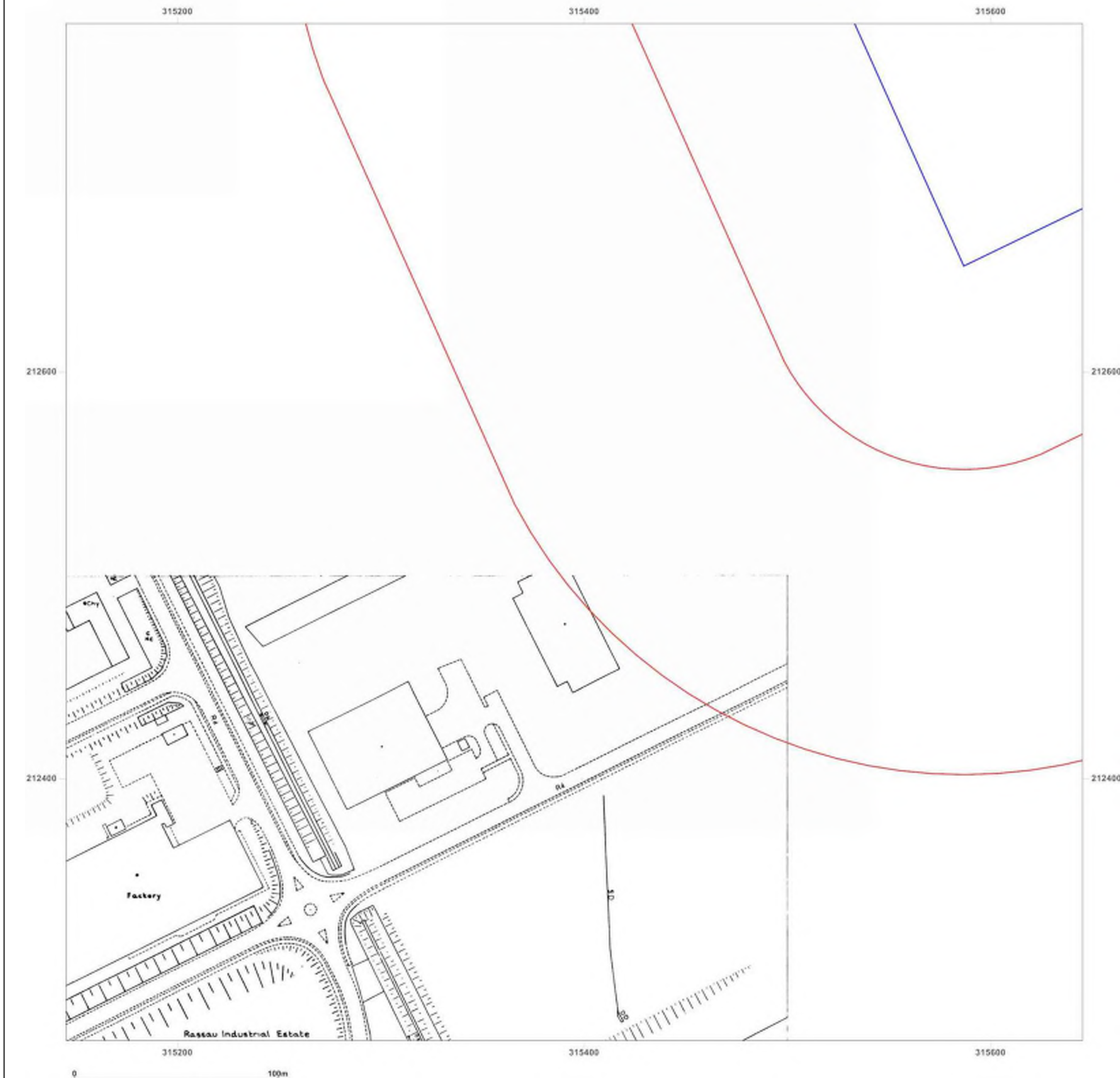


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Report Ref: GS-6719329_1250scale_1_1
Grid Ref: 315395, 212521

Map Name: National Grid

Map date: 1985-1990

Scale: 1:1,250

Printed at: 1:2,000



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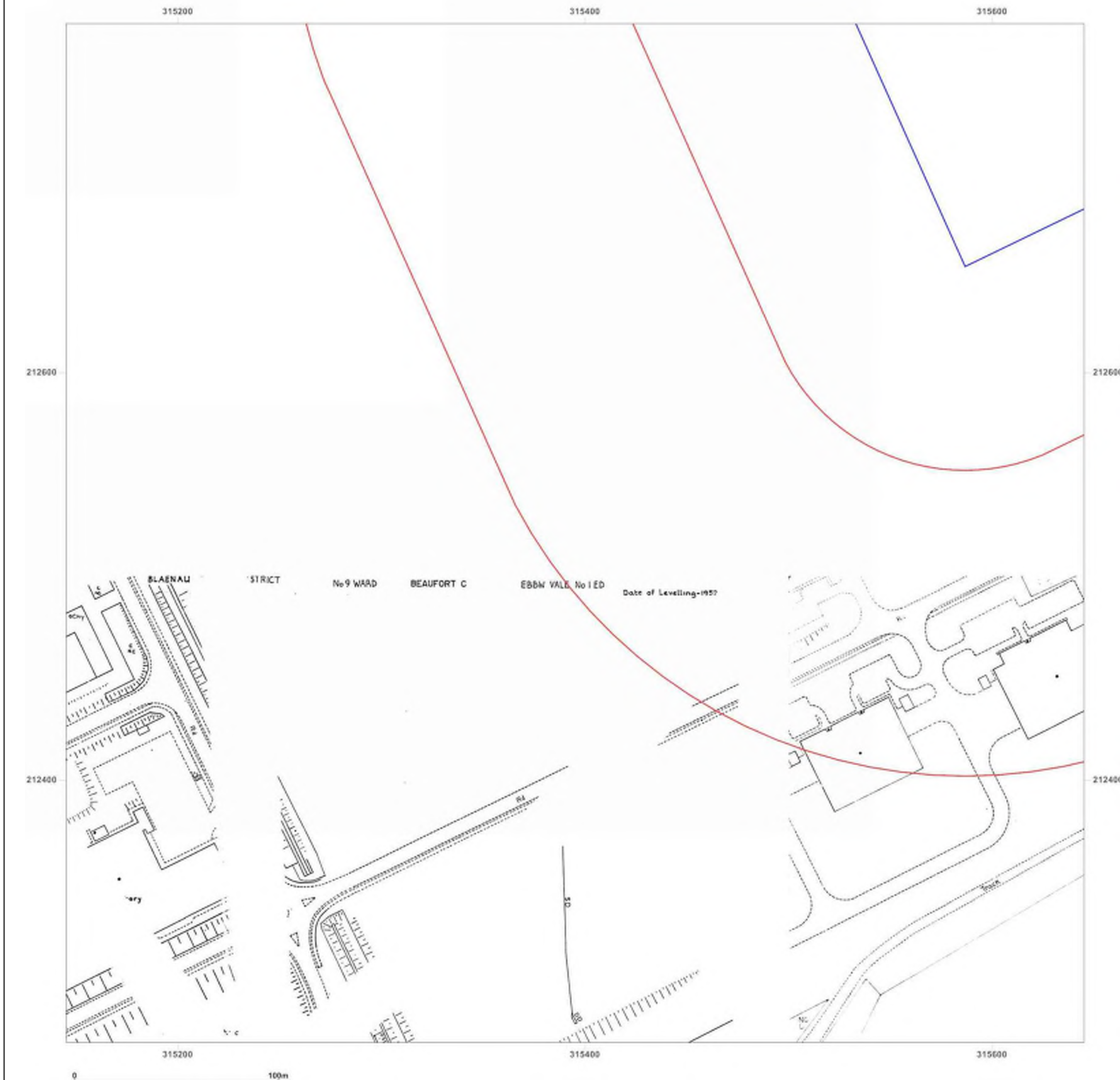


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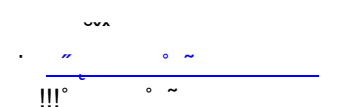
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<p>' V *~11V 2"</p> <p>Ryzt vu Vtuxs1!~*#VtVt</p> <p>vtxv xA utuxut</p>	
<p>~2'~,* 0'"</p> <p>t w</p> <p>tBtAuxs</p> <p>tBuAsss</p>	
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VALE, NP23 5SD

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Report Ref: GS-6719329_1250scale_1_1
Grid Ref: 315395, 212521

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

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Grid Ref: 315395, 212521

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Map date: 1994

Scale: 1:1,250

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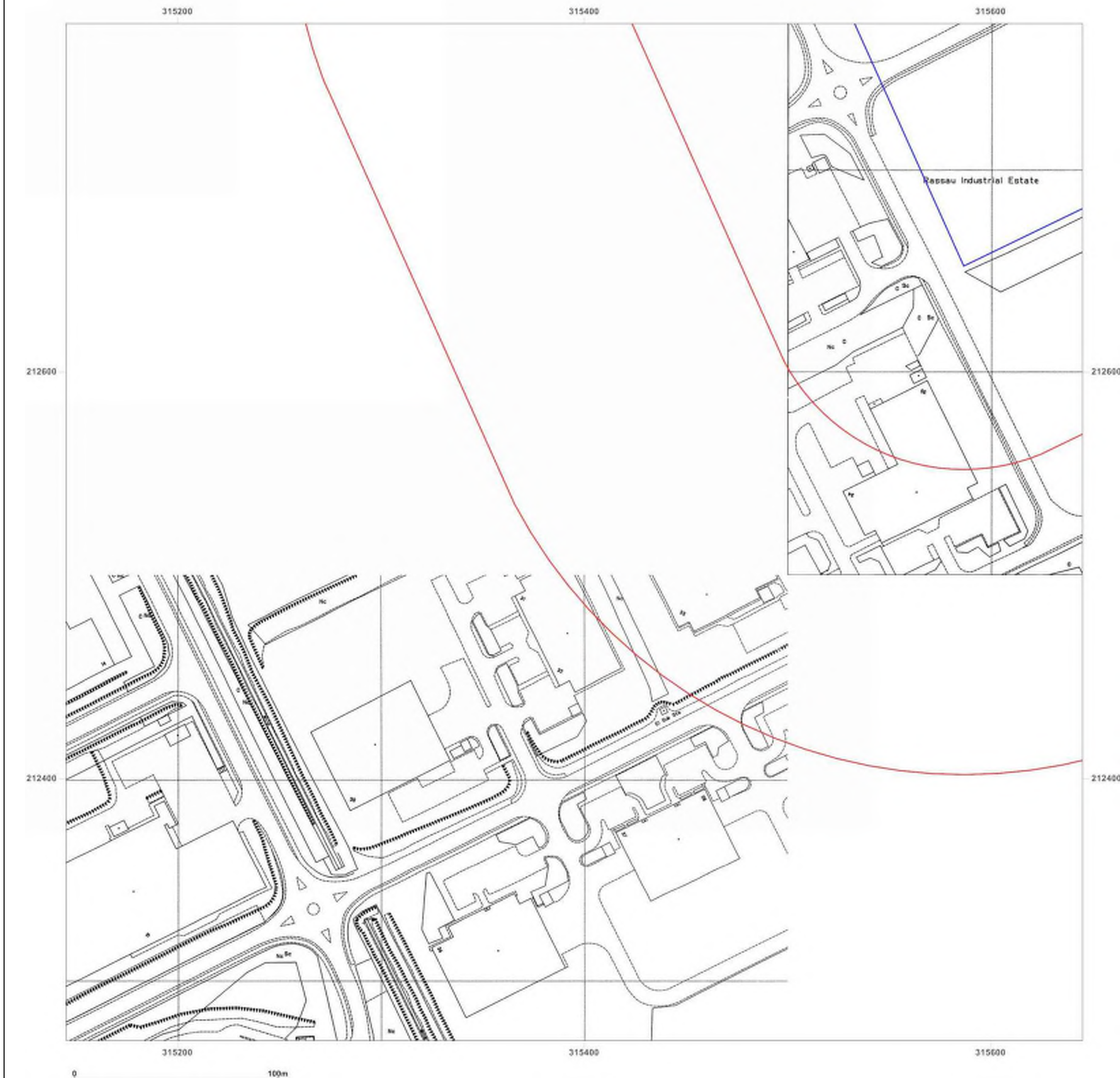


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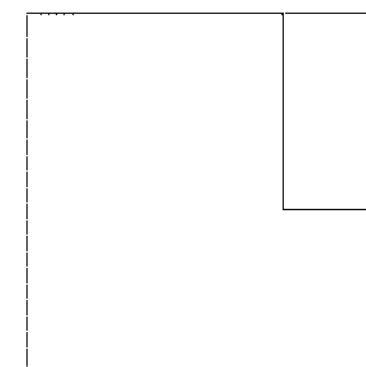
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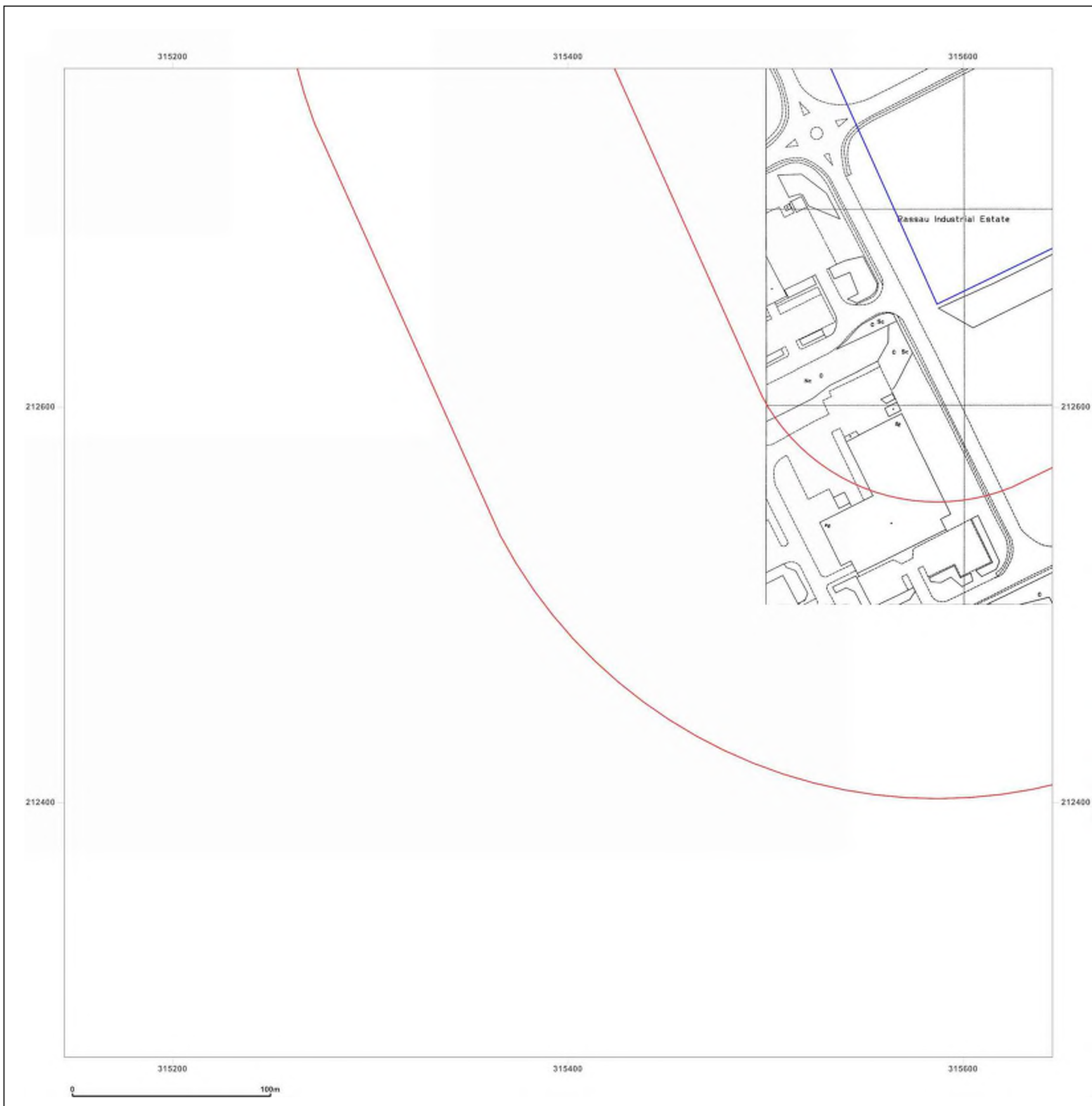


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VALE, NP23 5SD

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Grid Ref: 315395, 212521

Map Name: National Grid

Map date: 1989-1994

Scale: 1:1,250

Printed at: 1:2,000



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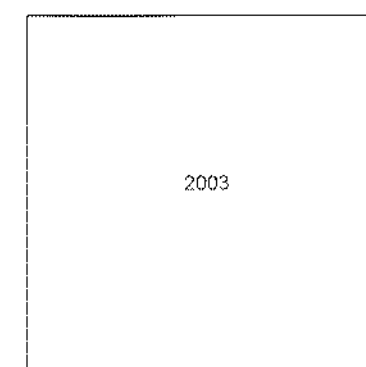
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Map Name: LandLine

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Scale: 1:1,250

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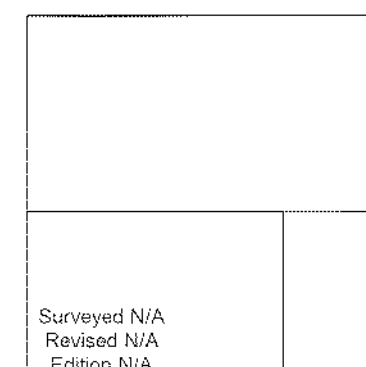
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Map Name: National Grid

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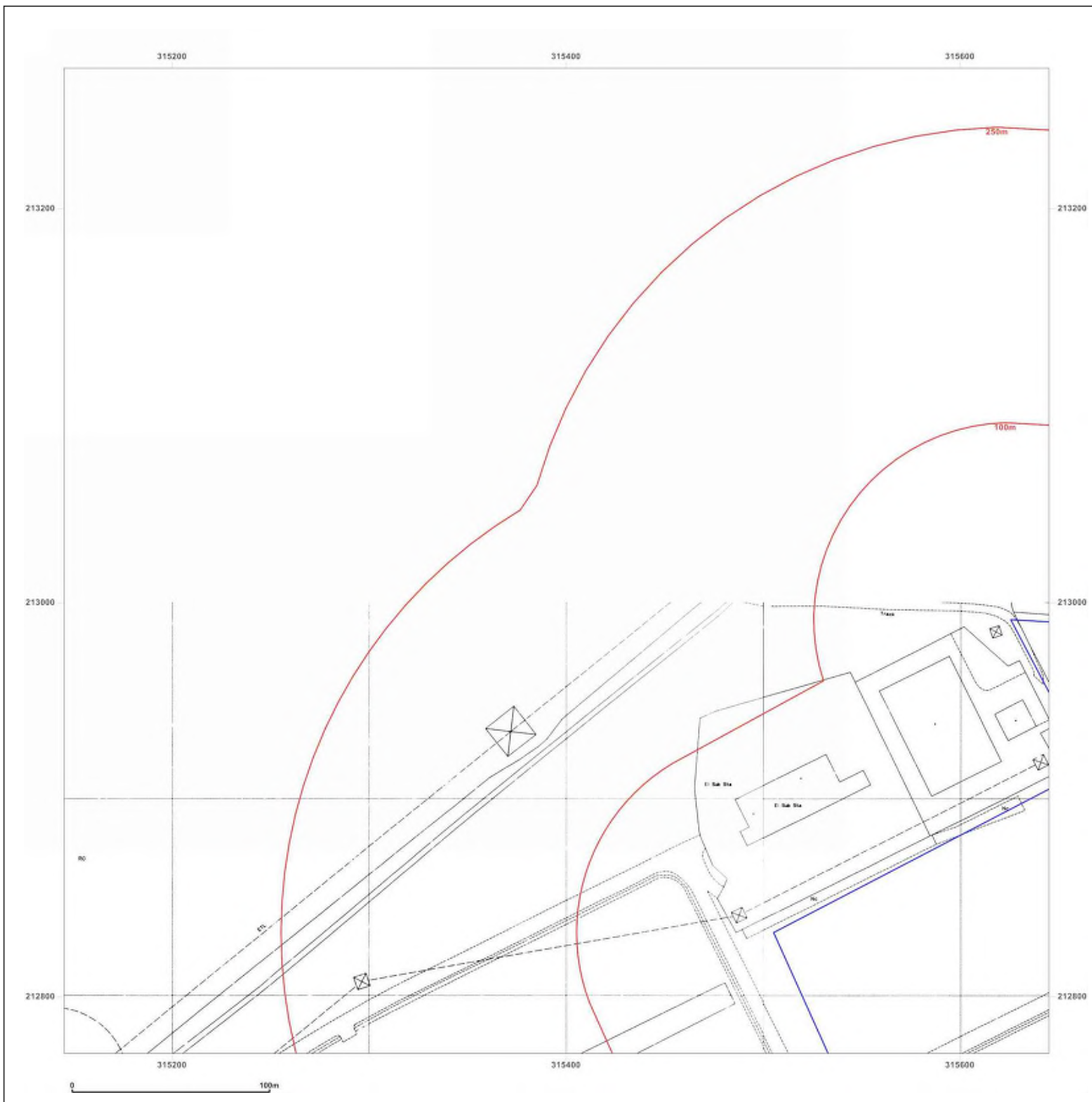


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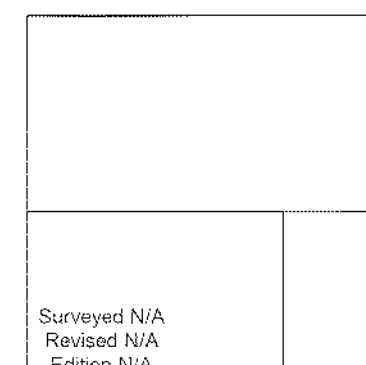
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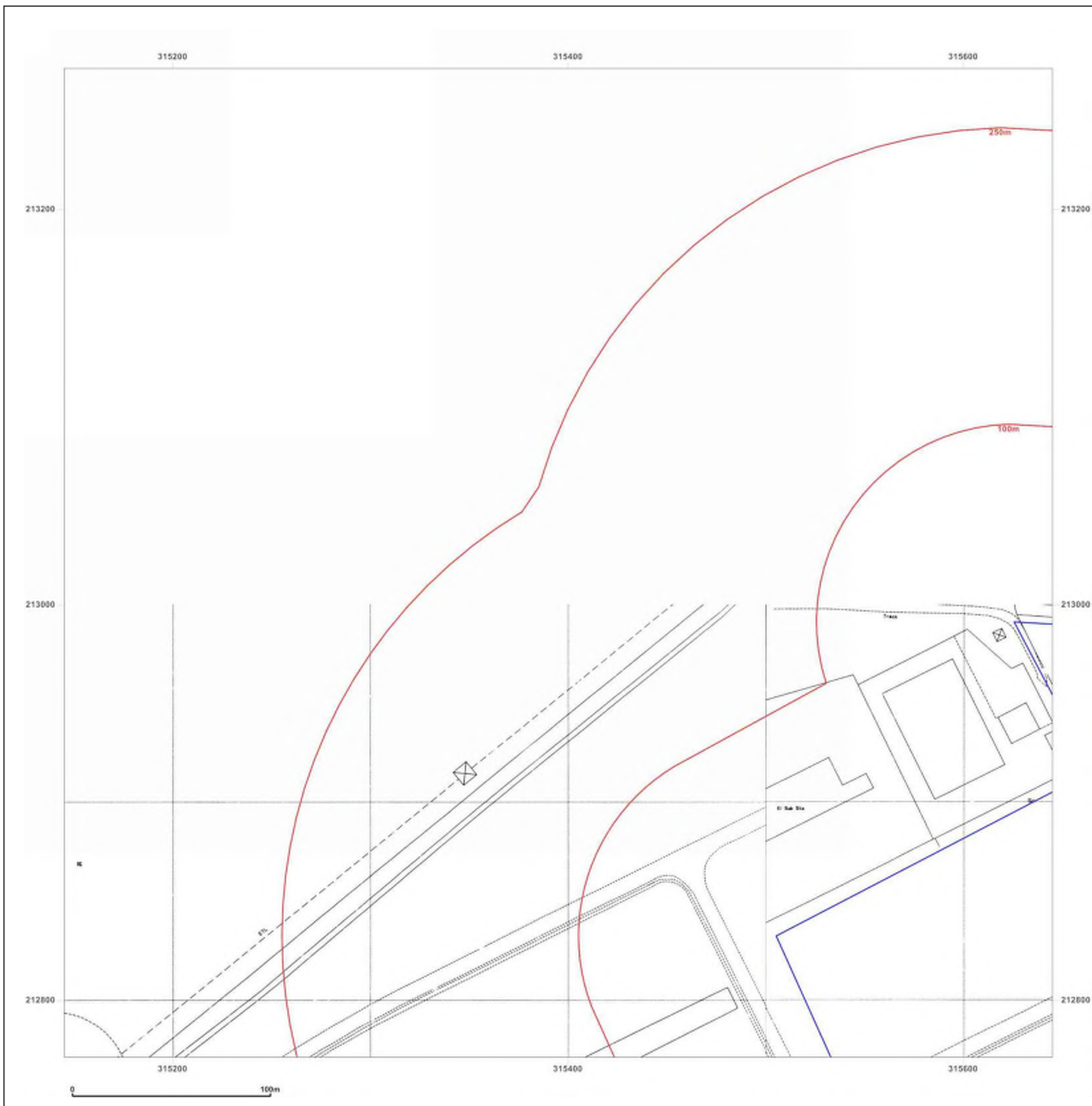


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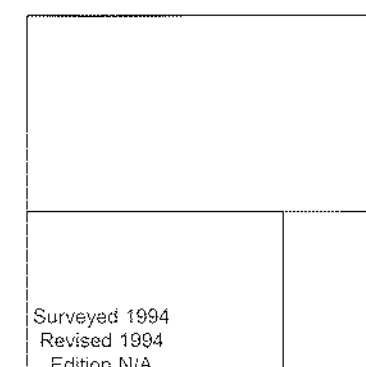
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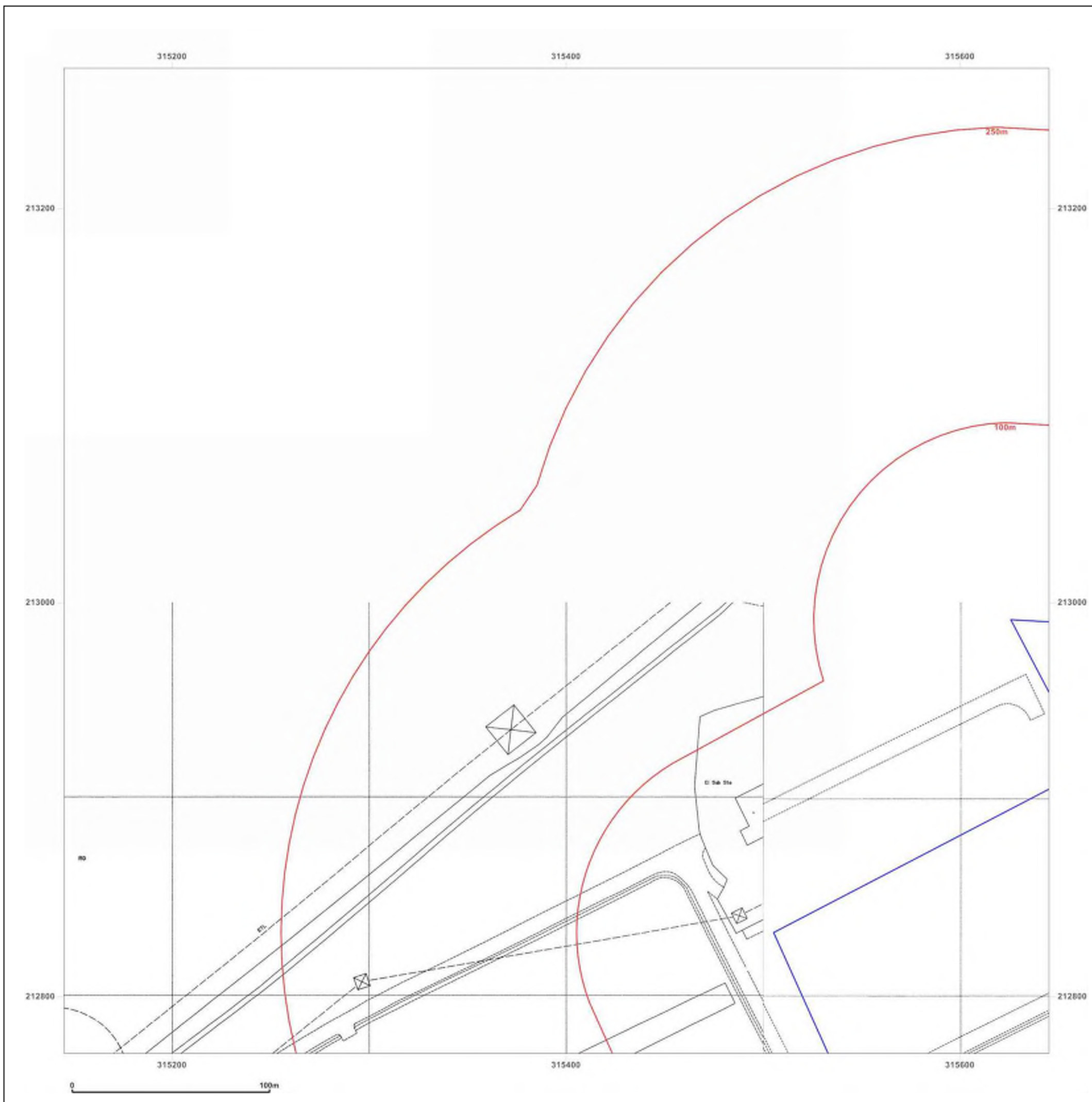


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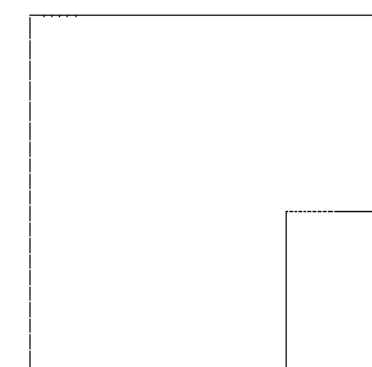
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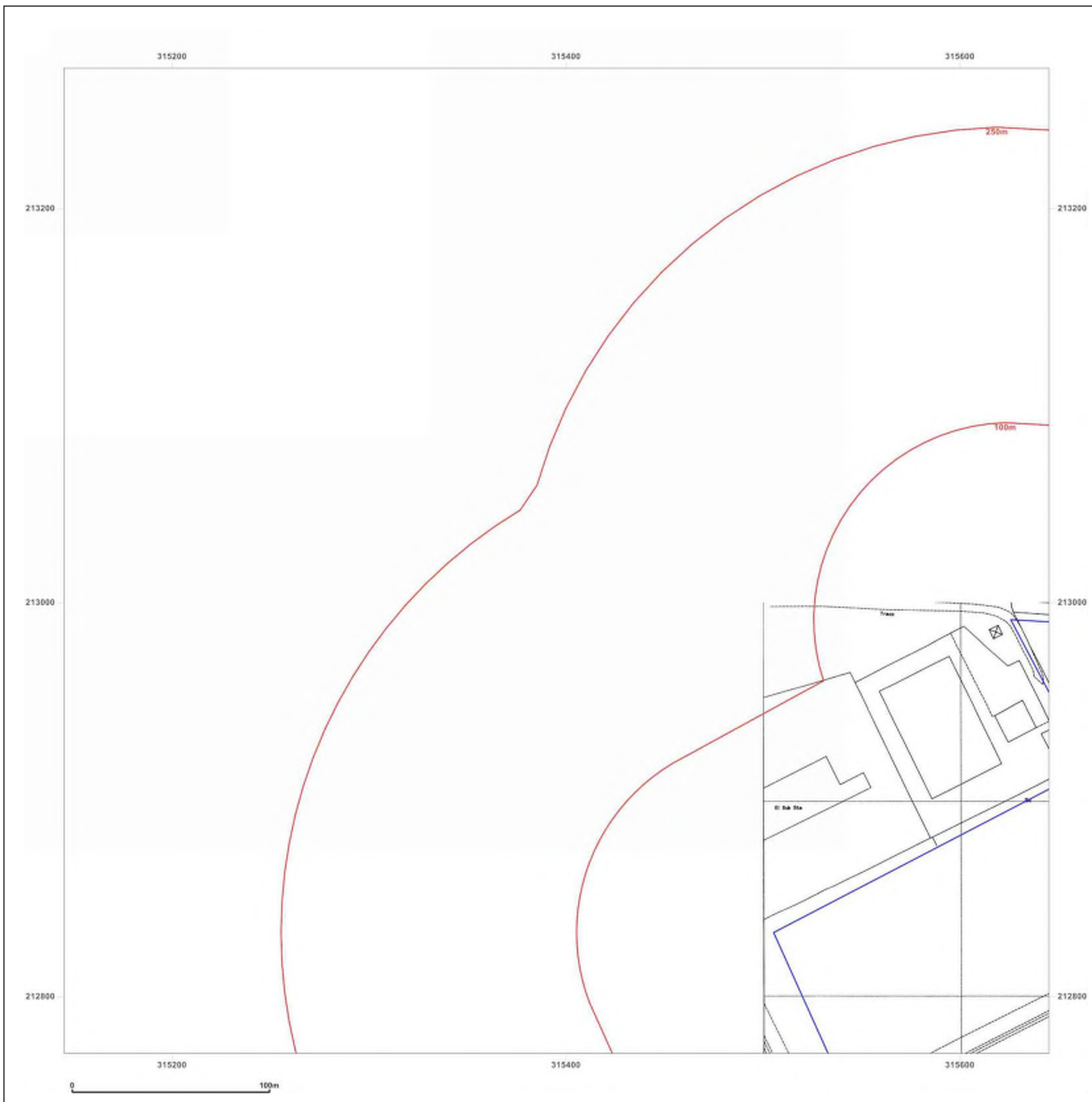


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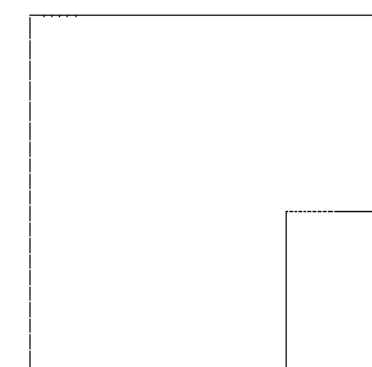
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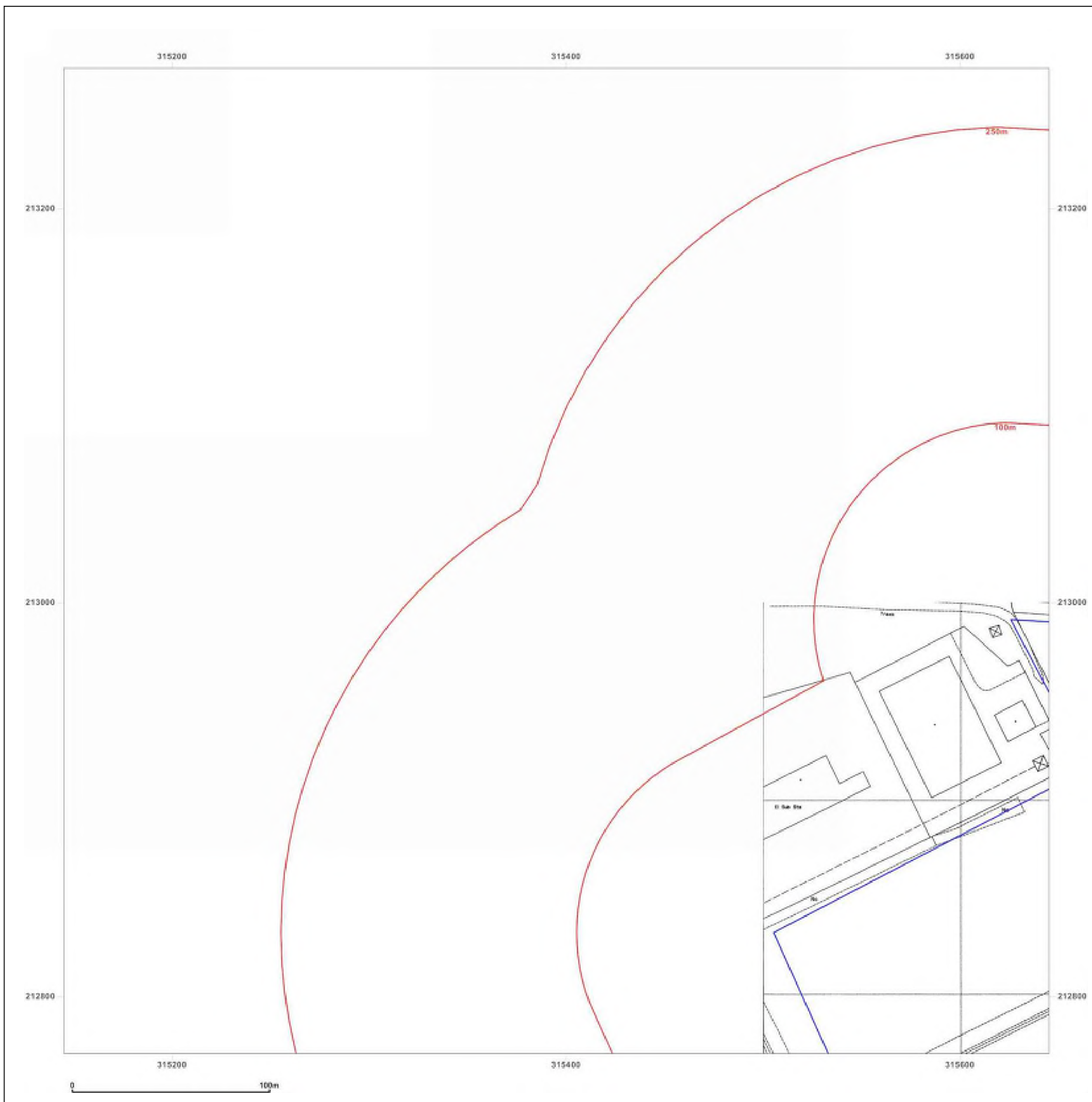


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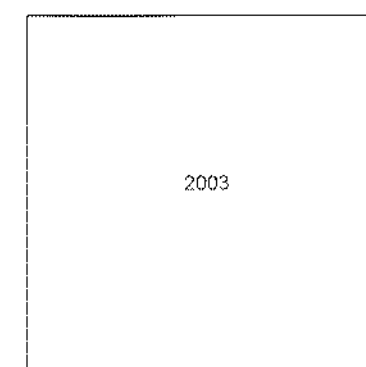
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Map Name: LandLine

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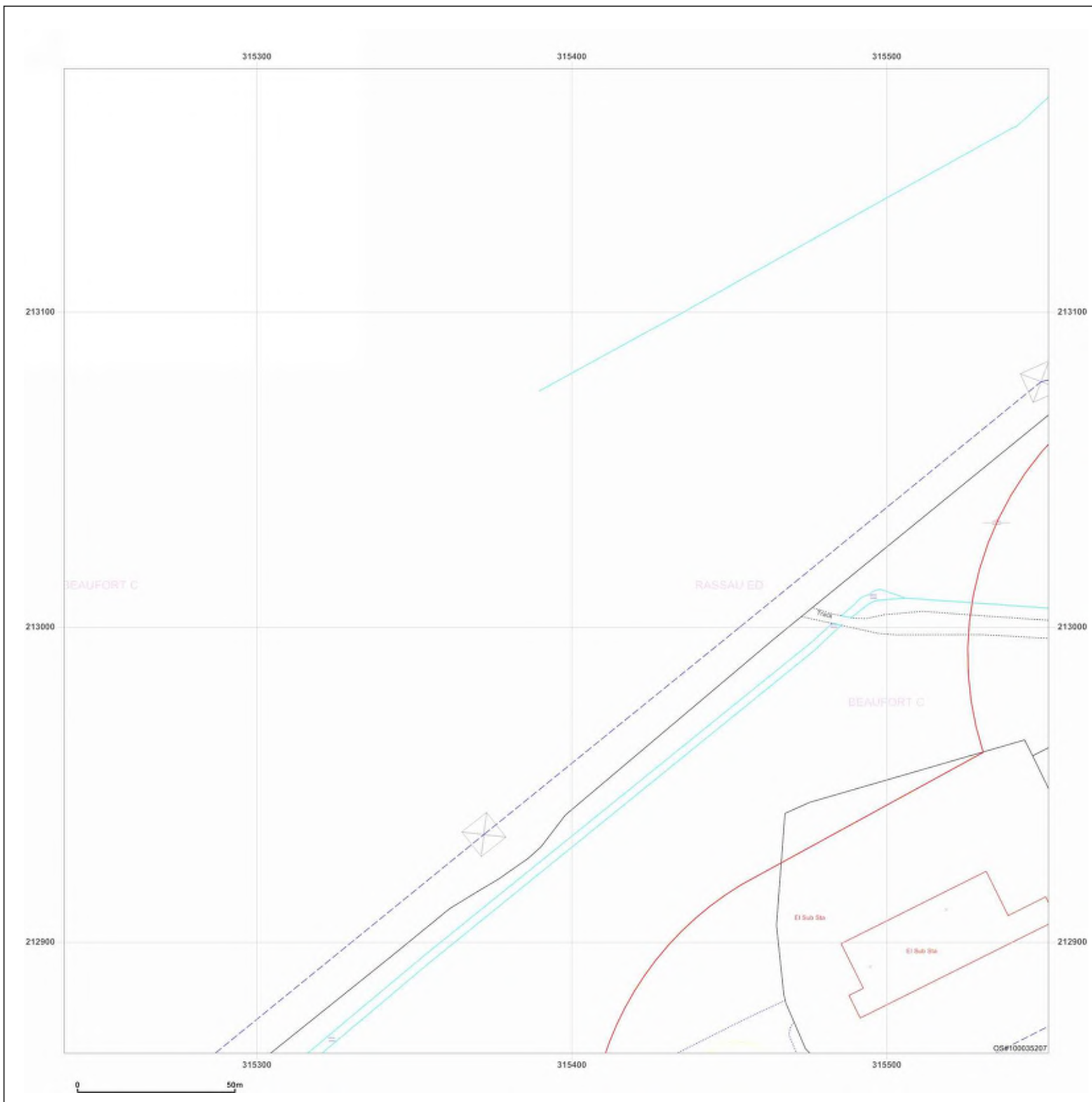


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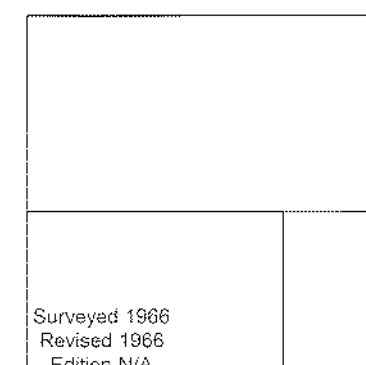
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Map Name: National Grid

Map date: 1967

Scale: 1:1,250

Printed at: 1:2,000



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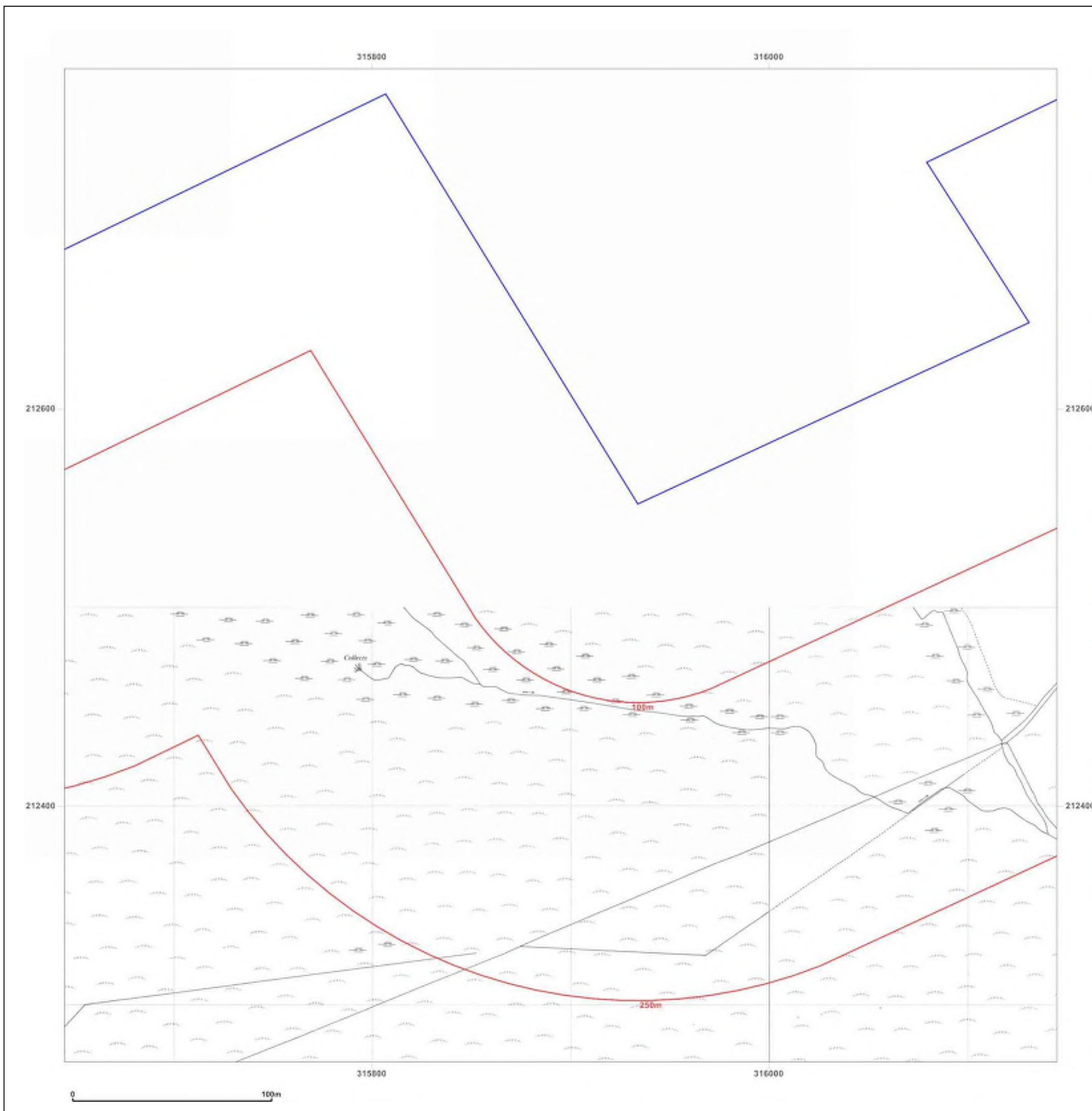


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Site Details:

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VALE, NP23 5SD

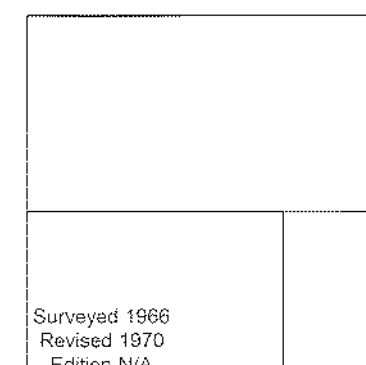
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Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

Map Name: National Grid

Map date: 1971-1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1966
Revised 1970
Edition N/A
Copyright 1971
Levelled 1952

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

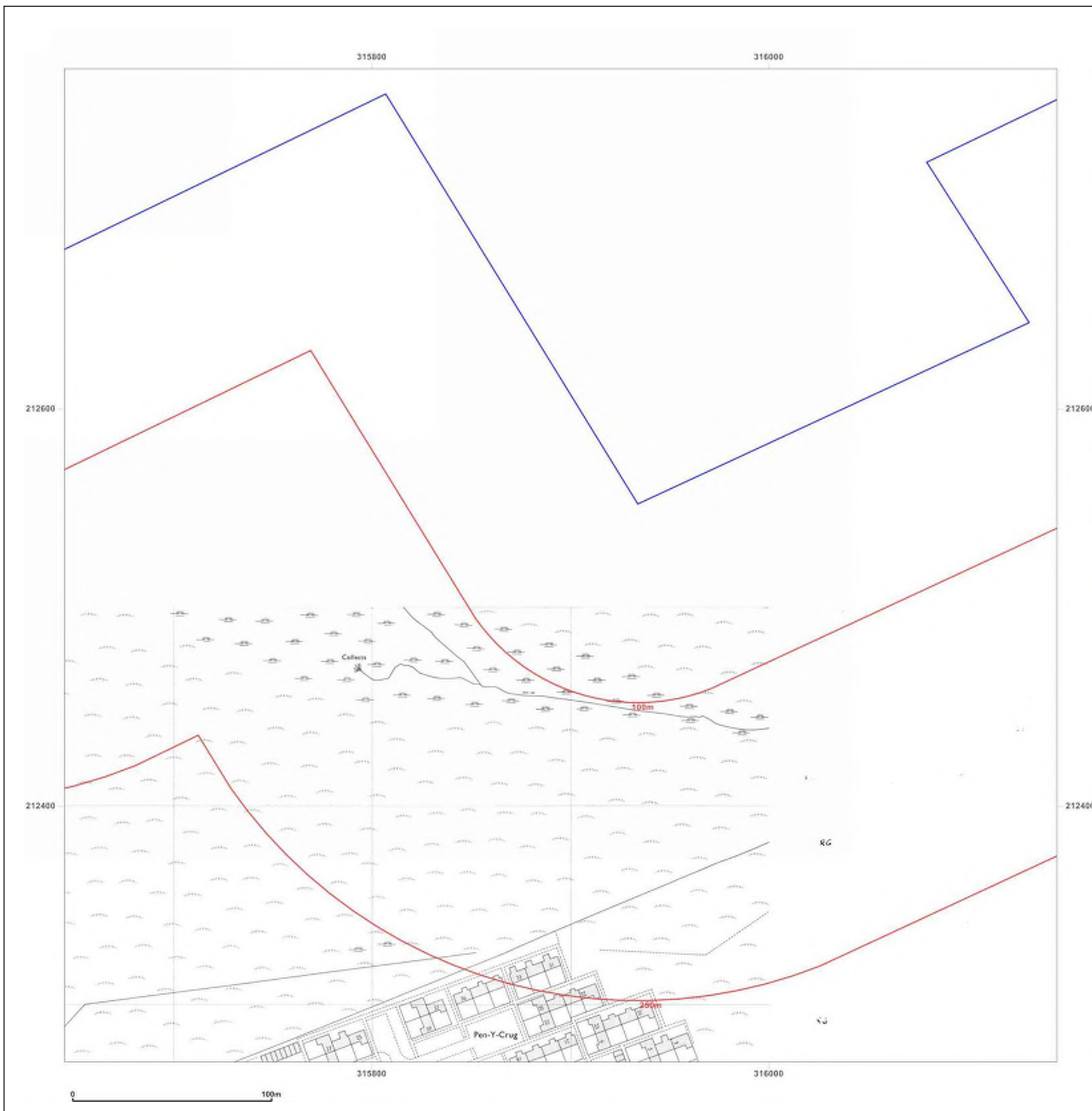


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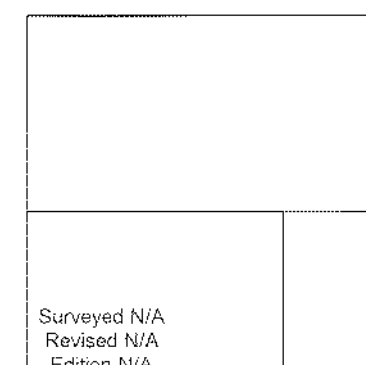
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Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

Map Name: National Grid

Map date: 1974-1977

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1966
Revised 1976
Edition N/A
Copyright 1977
Levelled 1952

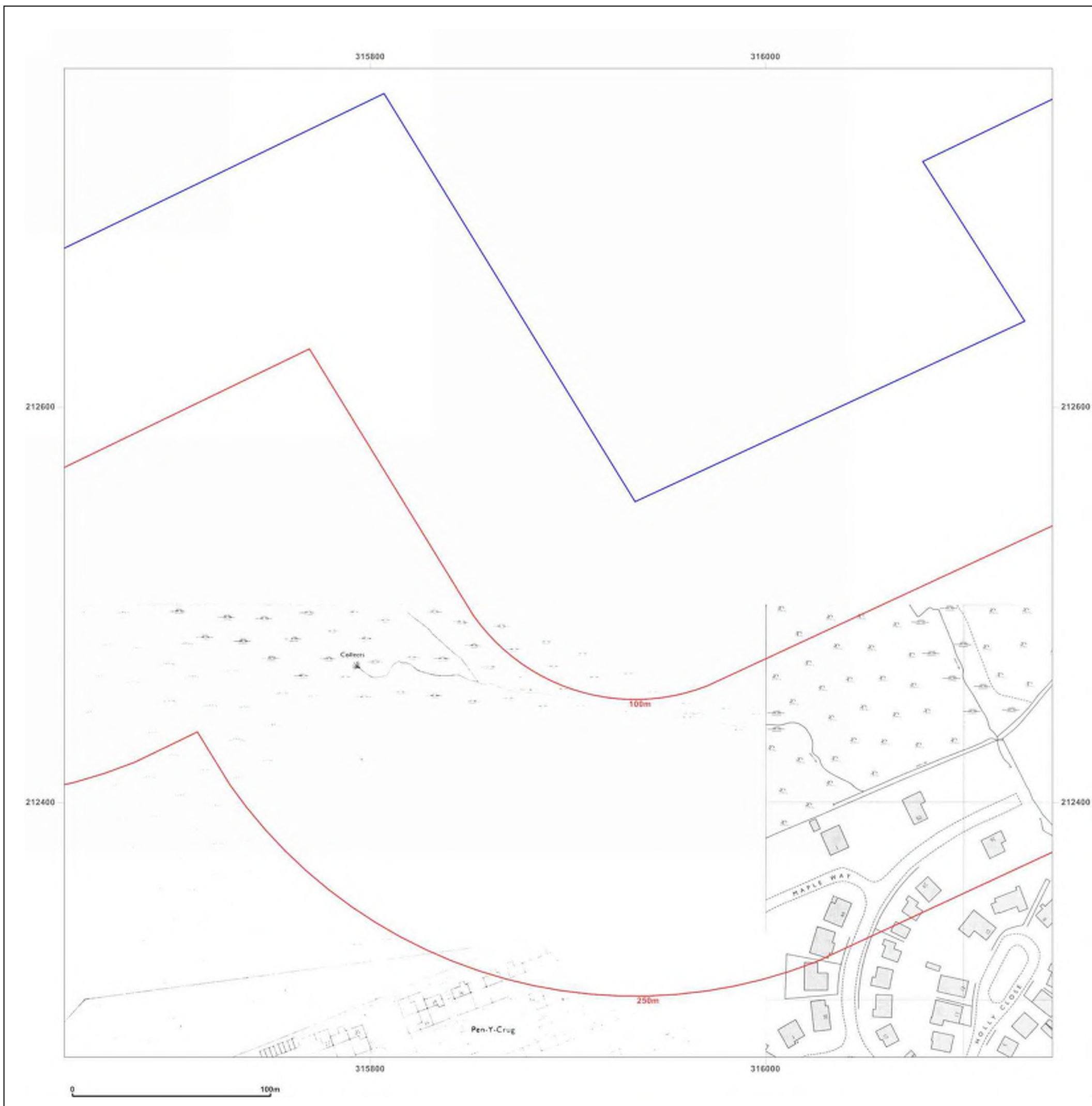


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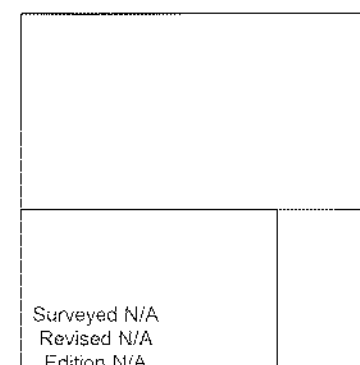
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Grid Ref: 315895, 212521

Map Name: National Grid

Map date: 1985-1990

Scale: 1:1,250

Printed at: 1:2,000



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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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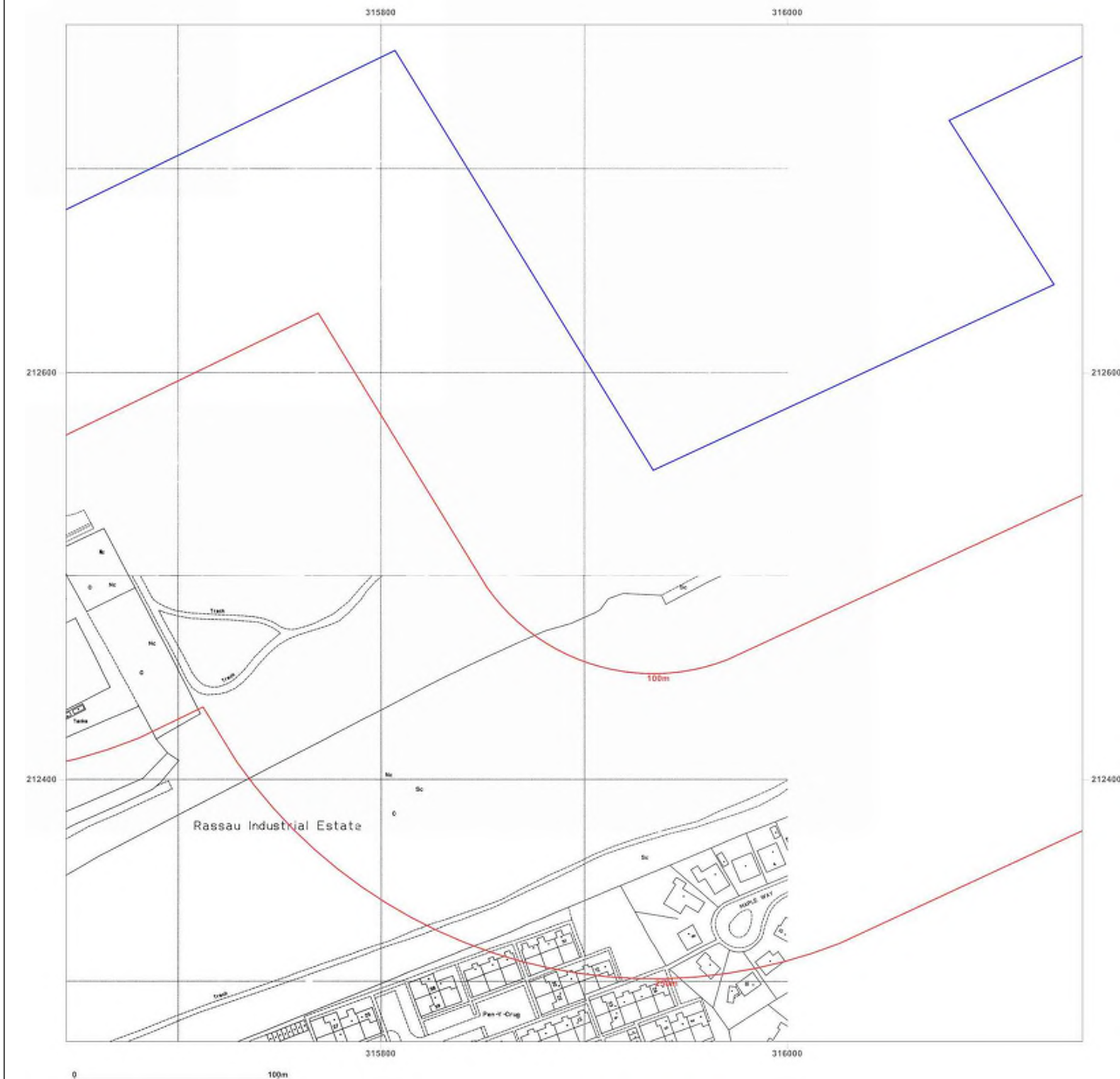


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
Revised 1994
Edition N/A
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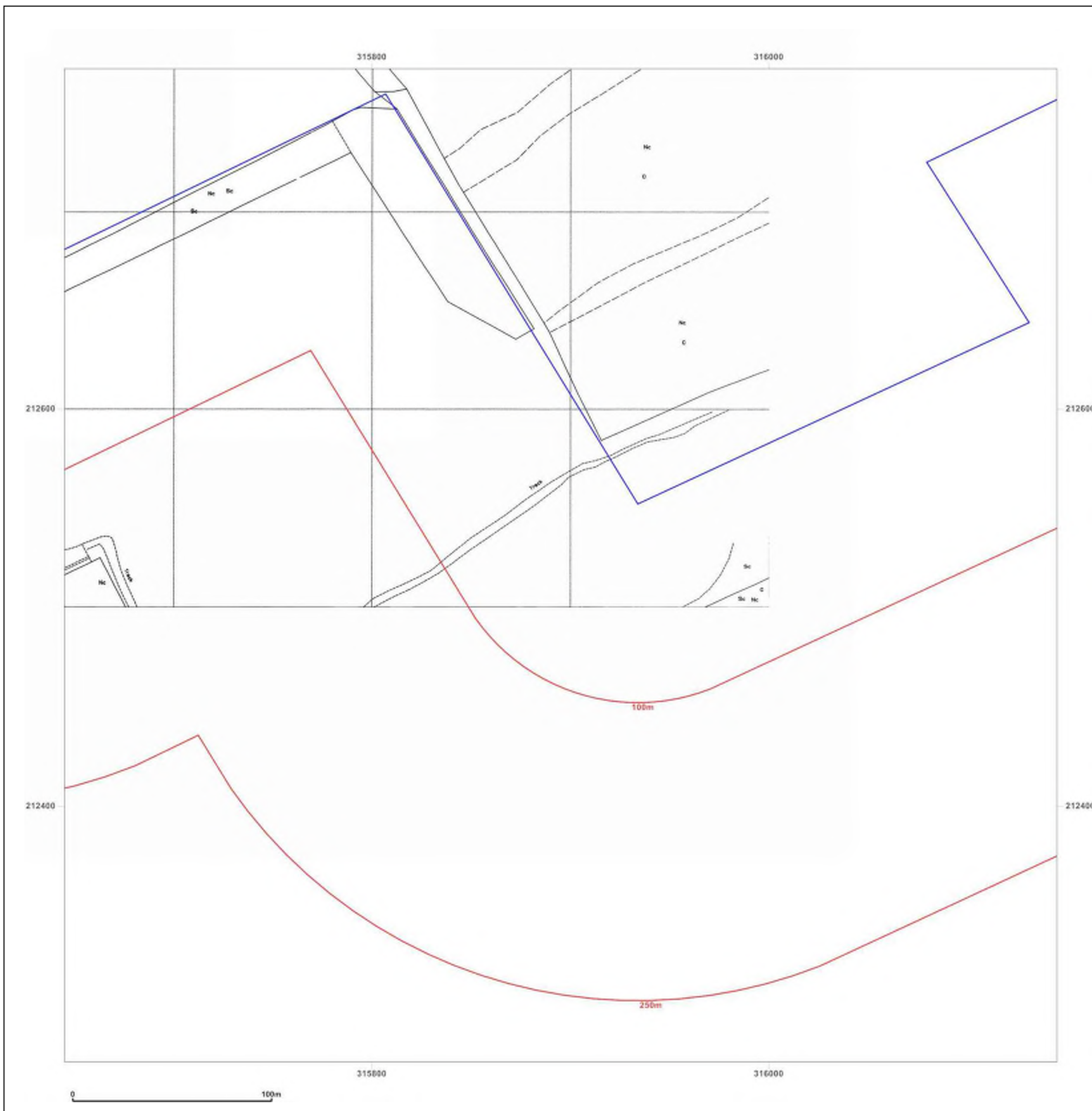


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

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Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Levelled N/A

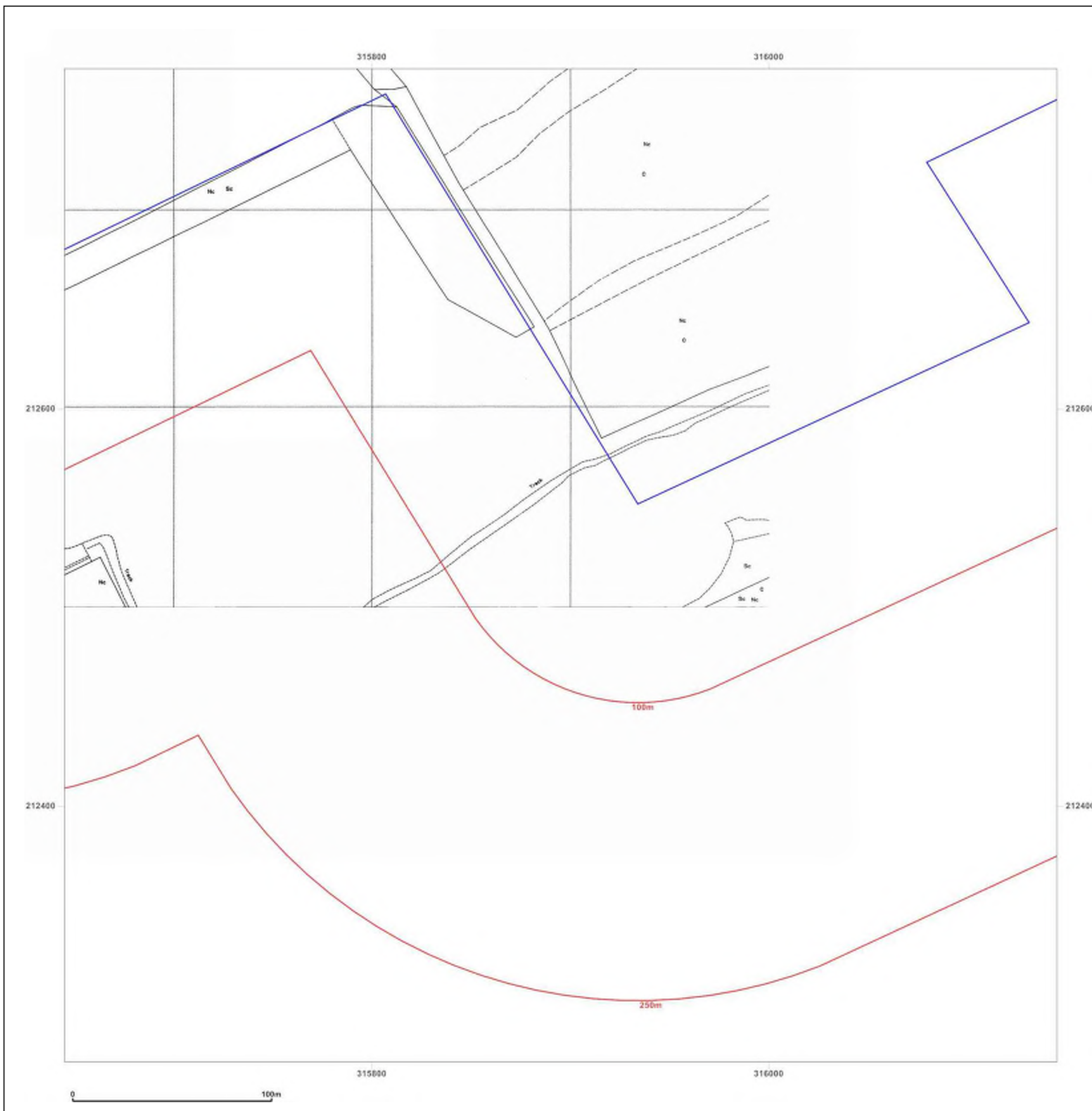


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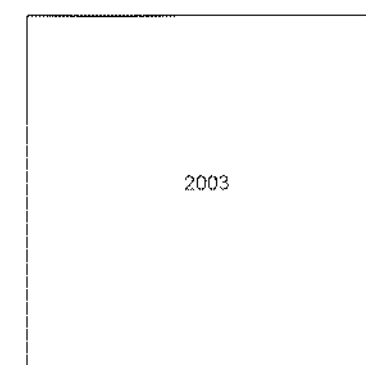
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Report Ref: GS-6719329_1250scale_2_1
Grid Ref: 315895, 212521

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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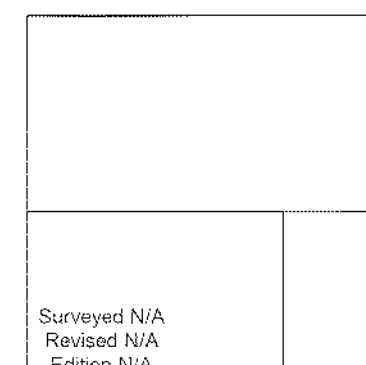
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Report Ref: GS-6719329_1250scale_2_2
Grid Ref: 315895, 213021

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

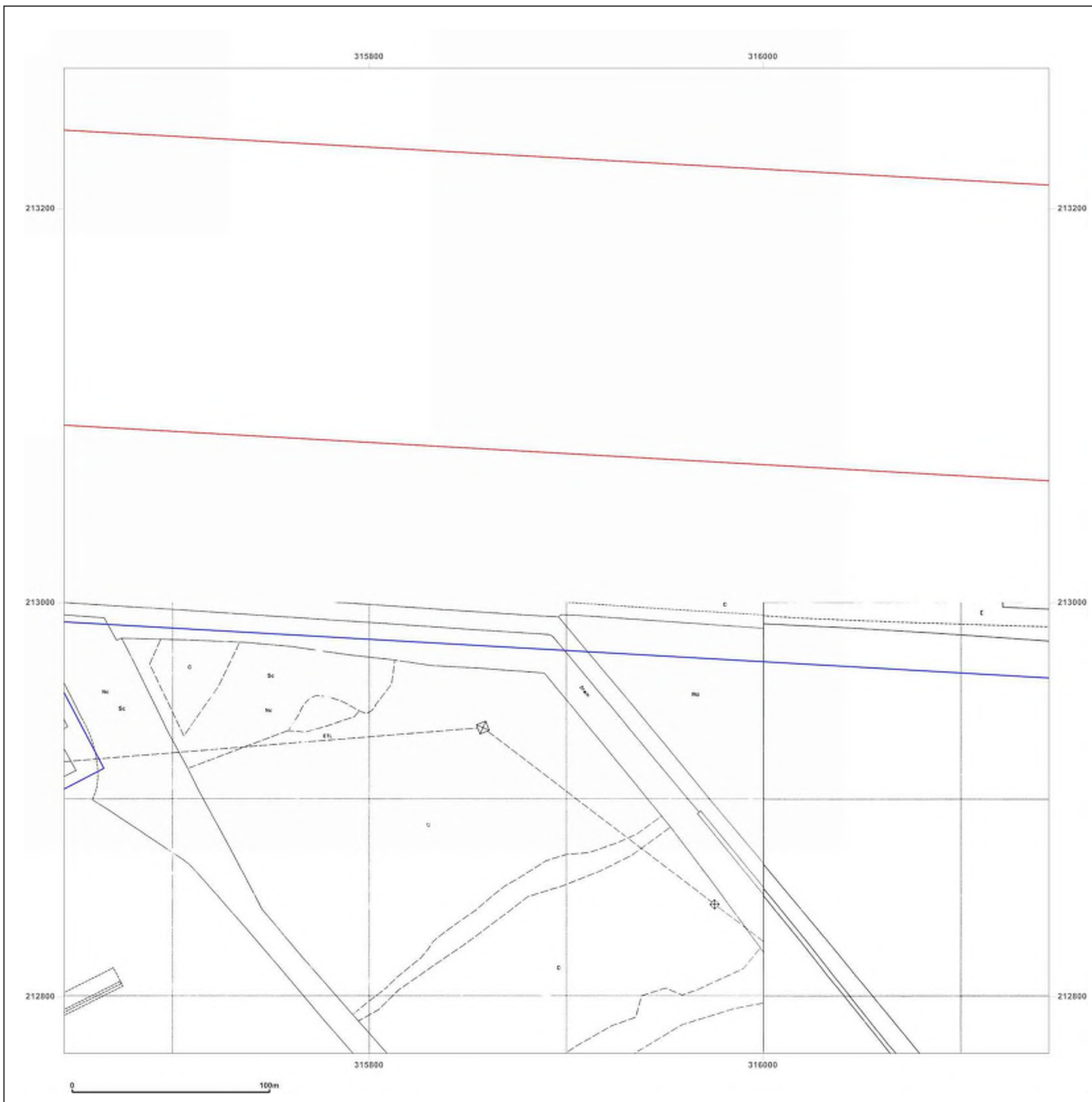


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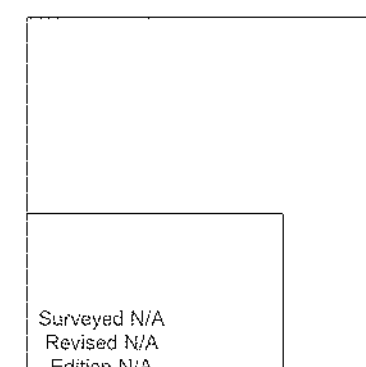
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Map Name: National Grid

Map date: 1994

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Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
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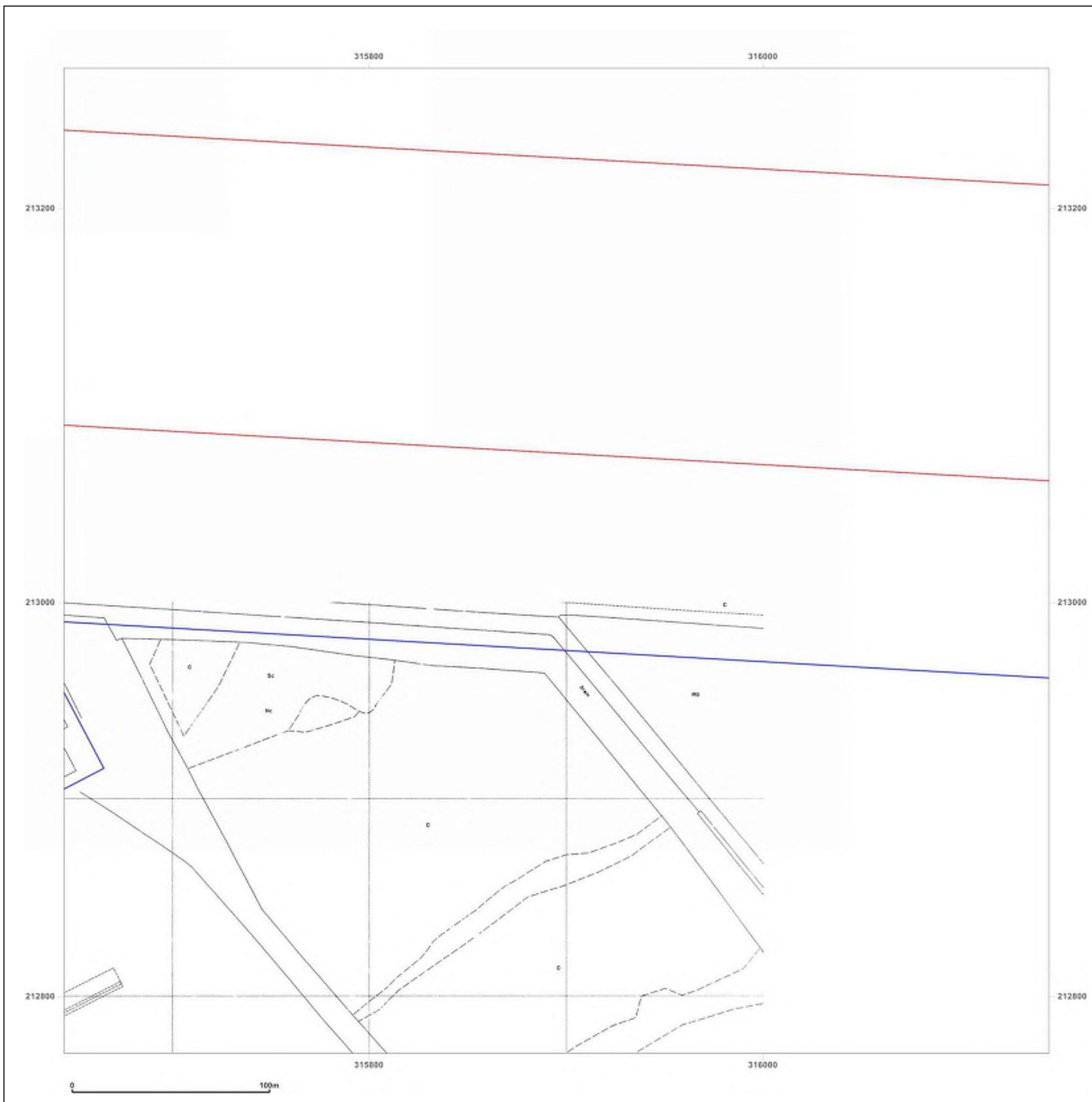


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_2
Grid Ref: 315895, 213021

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

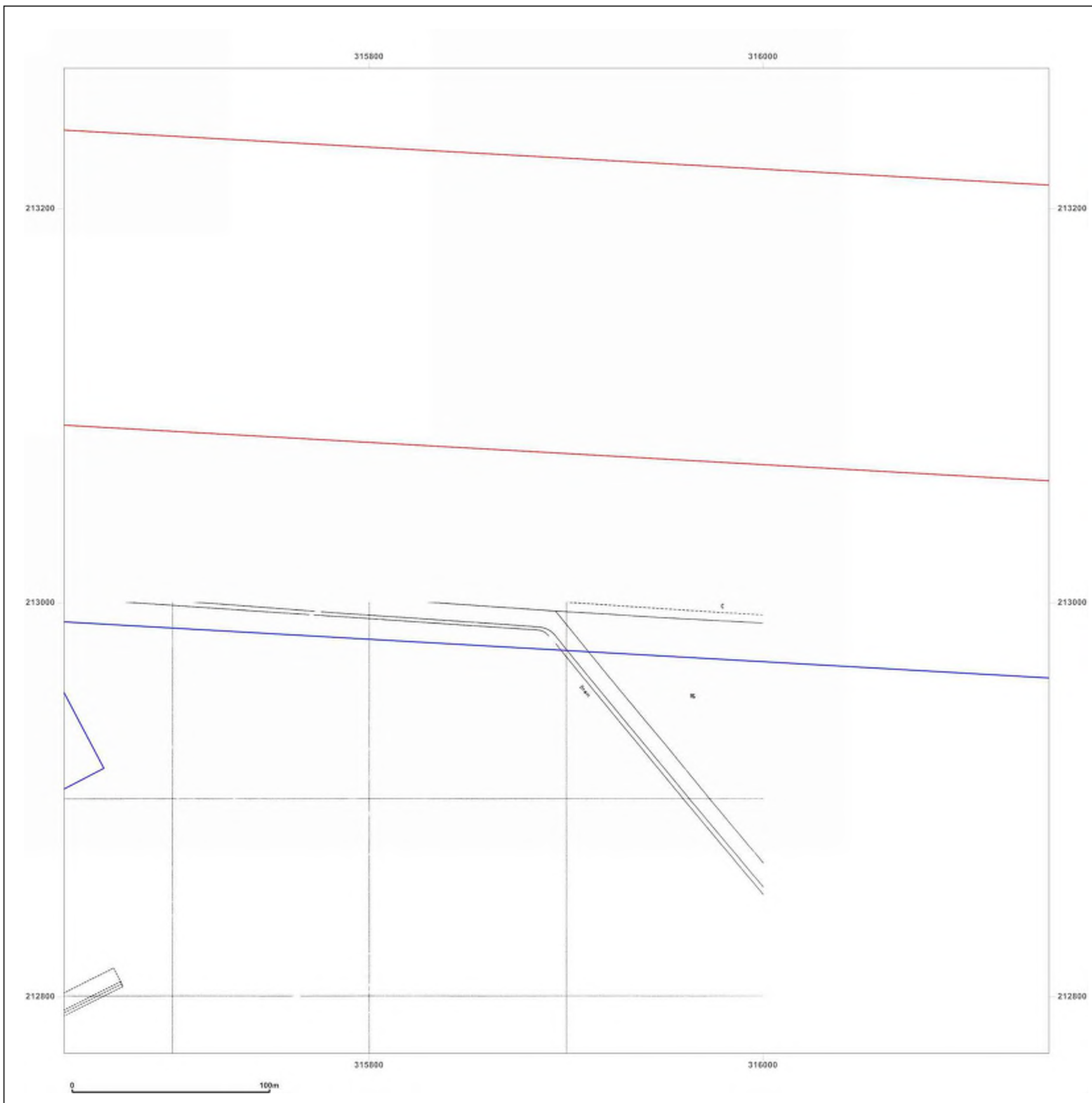


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_2
Grid Ref: 315895, 213021

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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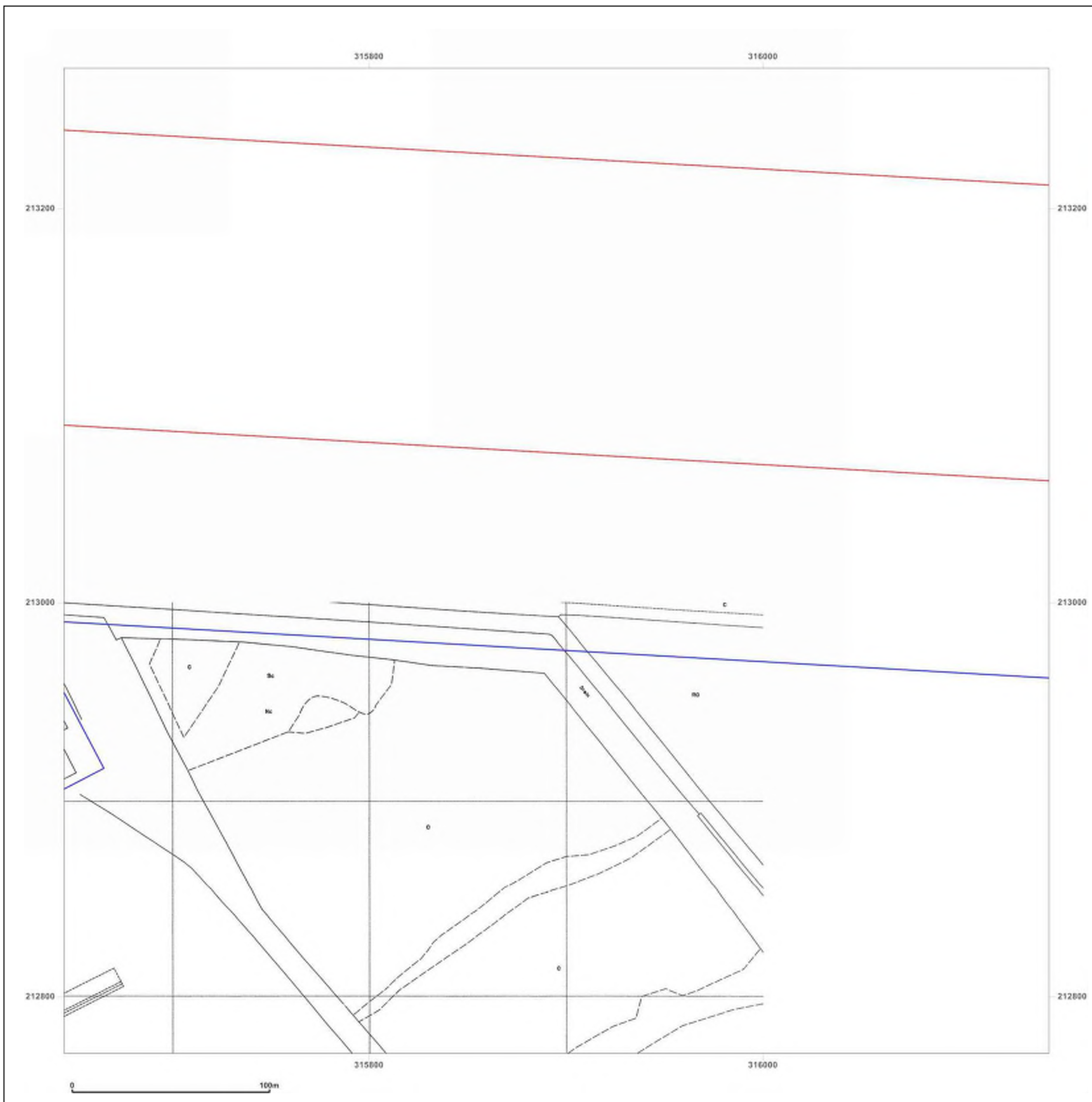


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_2_2
Grid Ref: 315895, 213021

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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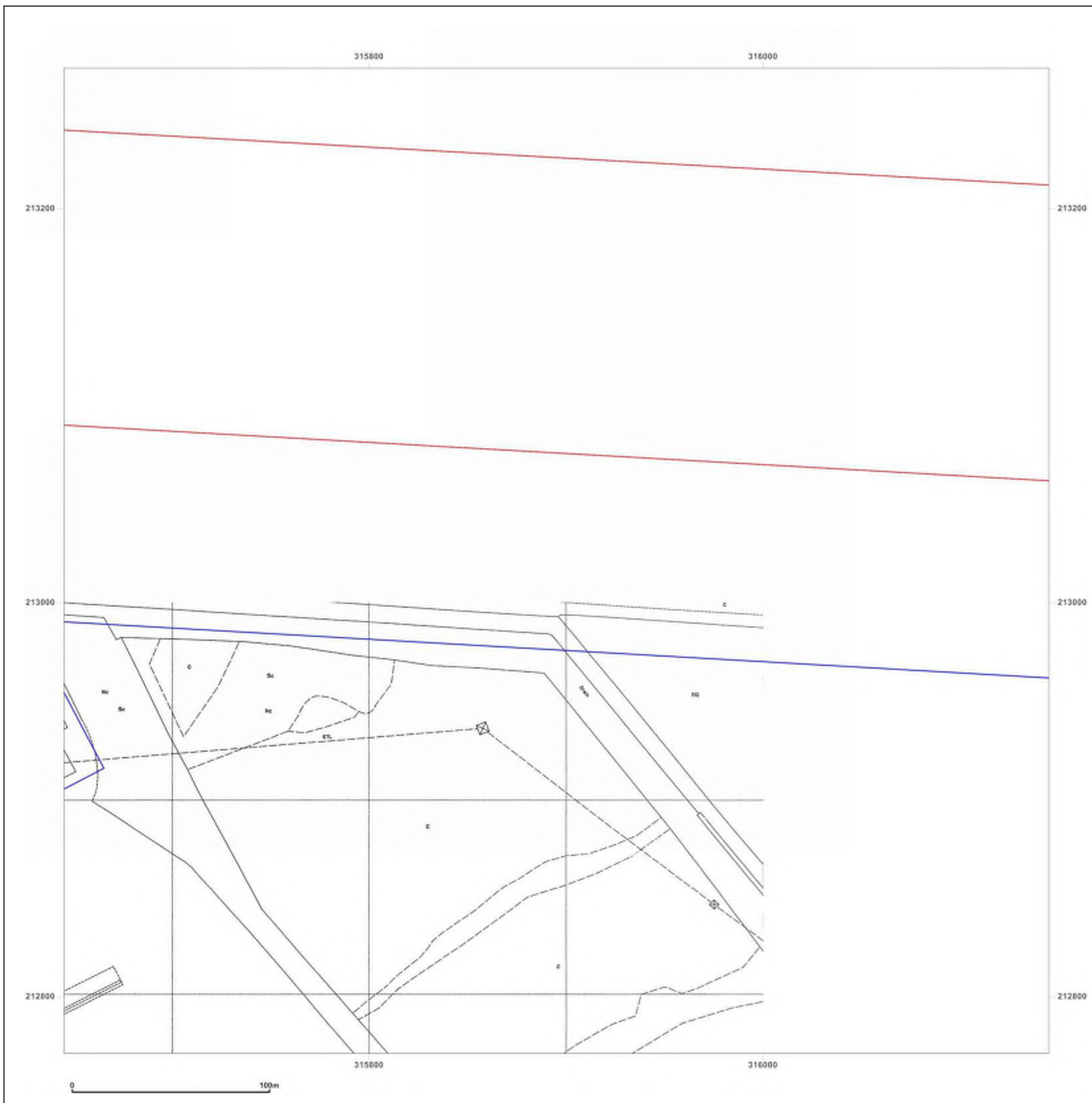


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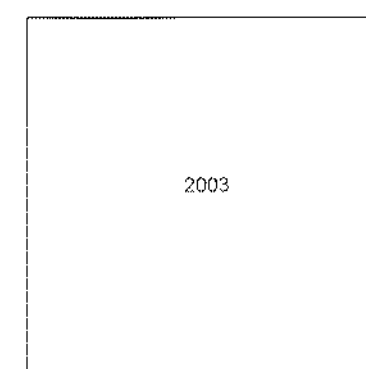
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Grid Ref: 315895, 213021

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

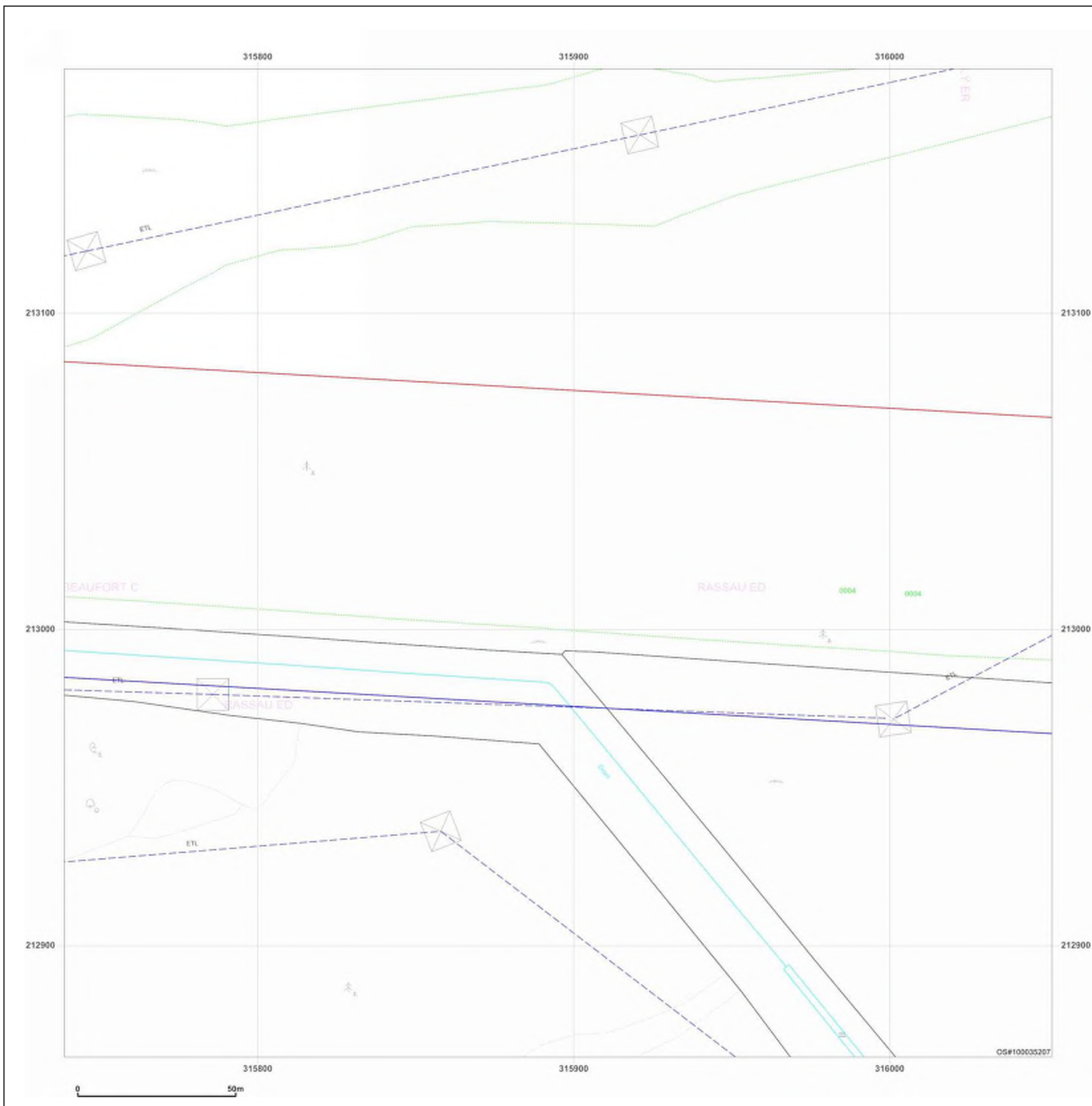


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_3_1
Grid Ref: 316395, 212521

Map Name: National Grid

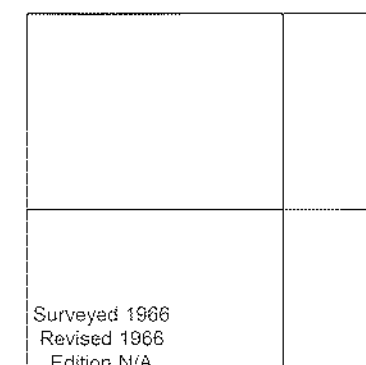
Map date: 1967

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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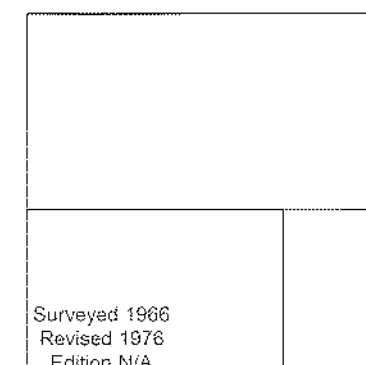
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Grid Ref: 316395, 212521

Map Name: National Grid

Map date: 1977-1982

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1977
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Surveyed 1952
Revised 1982
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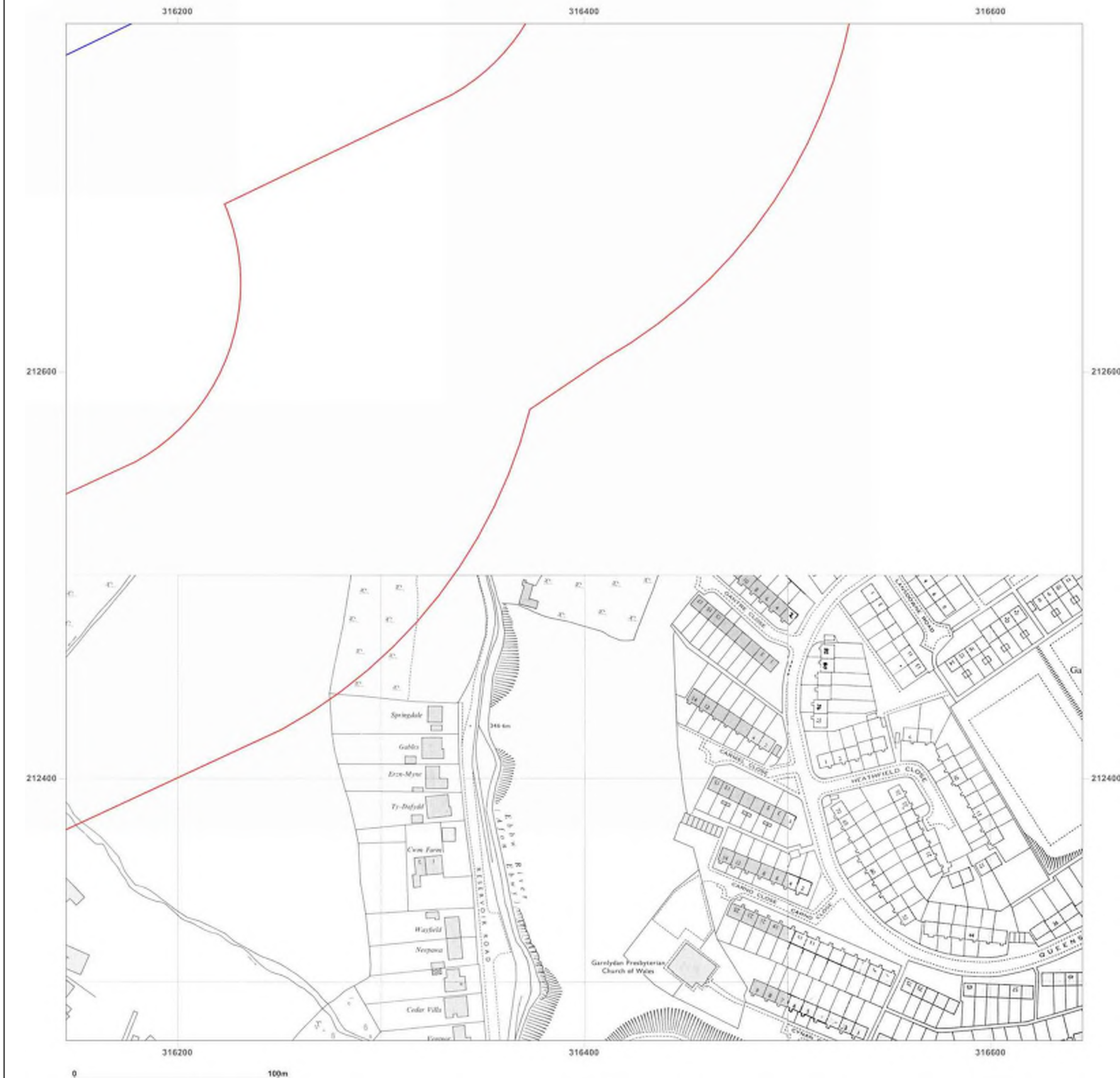


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_3_1
Grid Ref: 316395, 212521

Map Name: National Grid

Map date: 1985

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1952
Revised 1985
Edition N/A
Copyright 1985
Levelled 1952

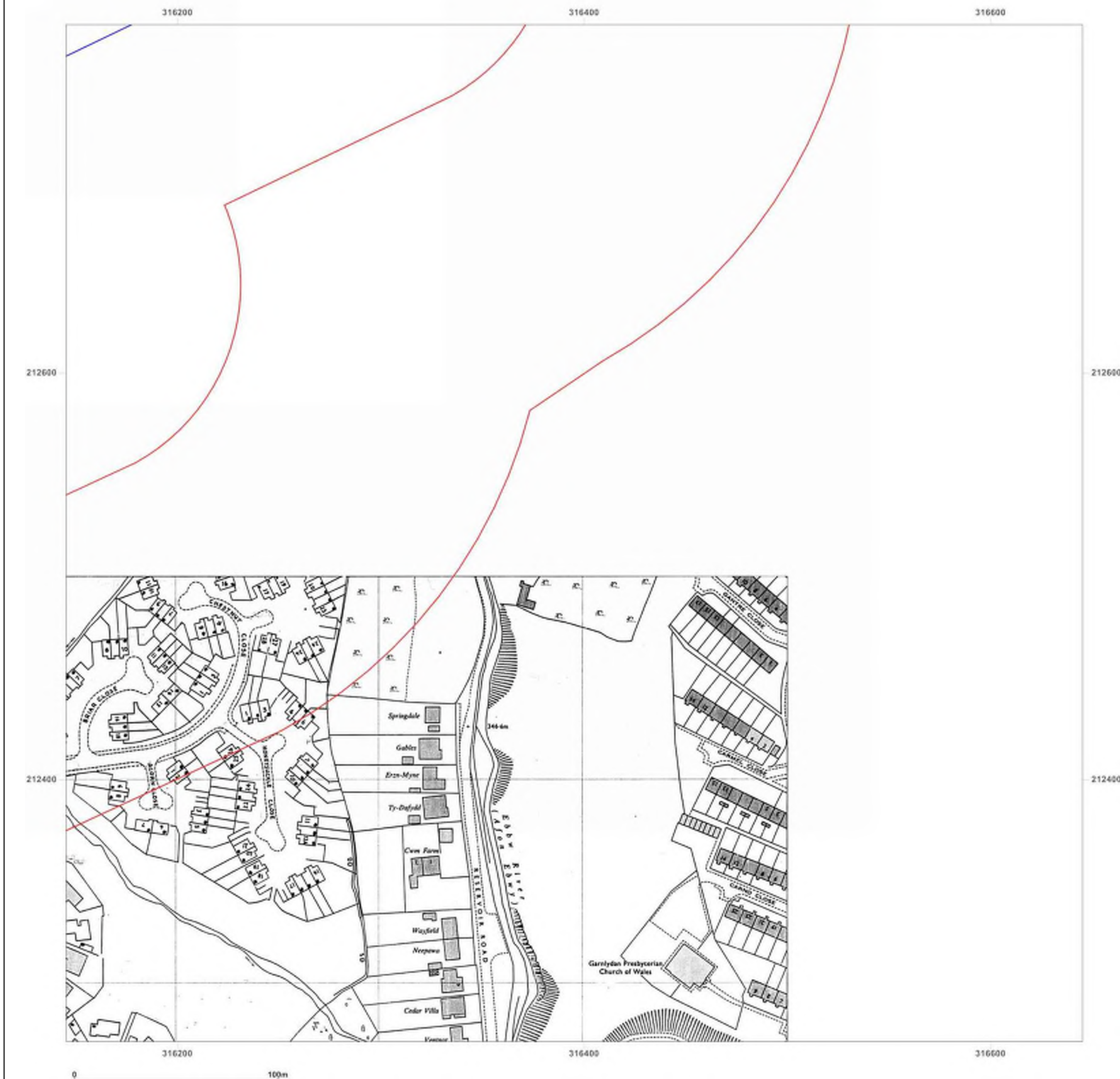


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_3_1
Grid Ref: 316395, 212521

Map Name: National Grid

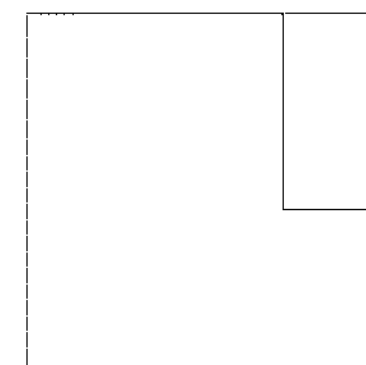
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Revised N/A
Edition N/A
Copyright 1994
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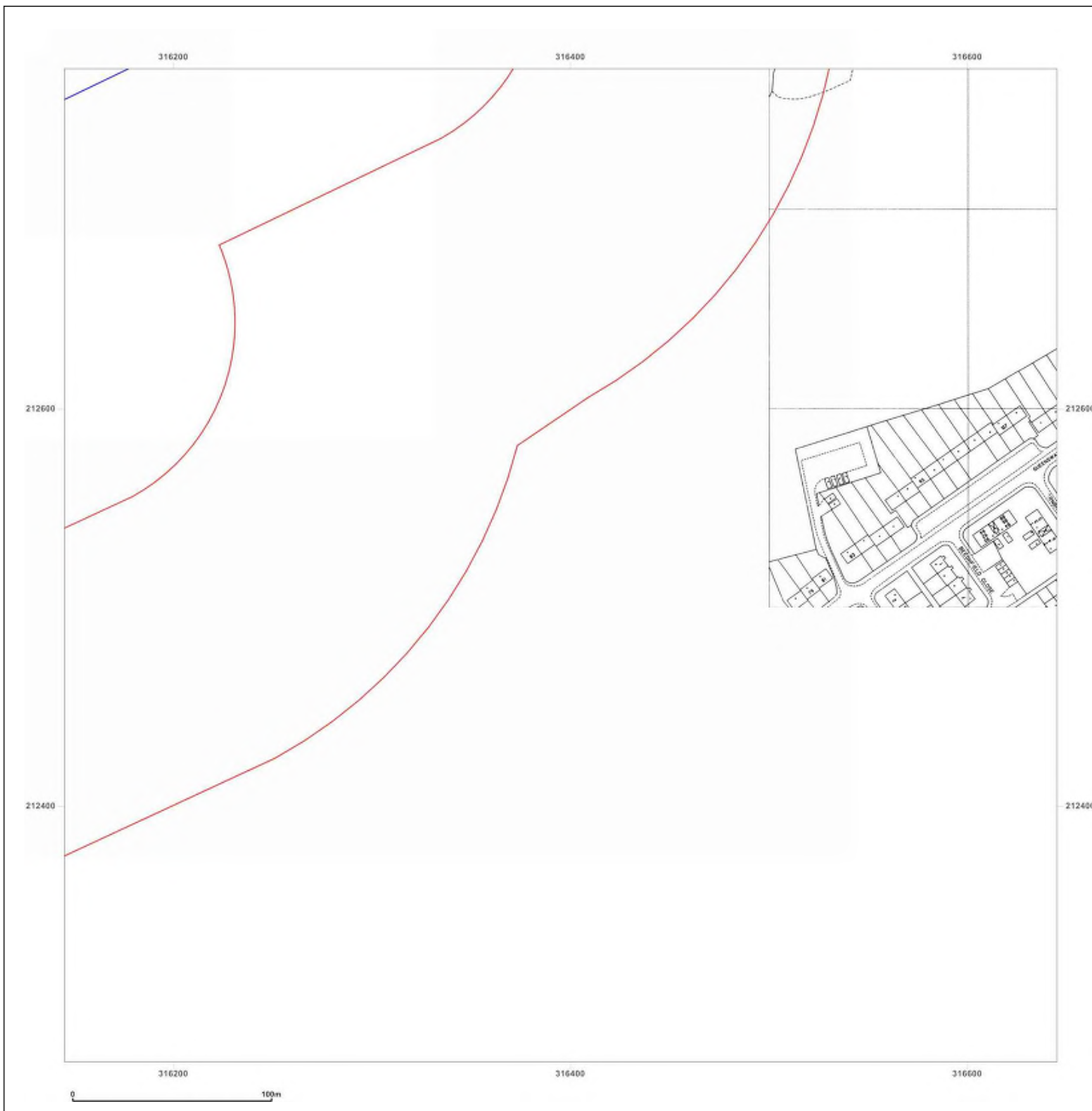


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_3_1
Grid Ref: 316395, 212521

Map Name: National Grid

Map date: 1994

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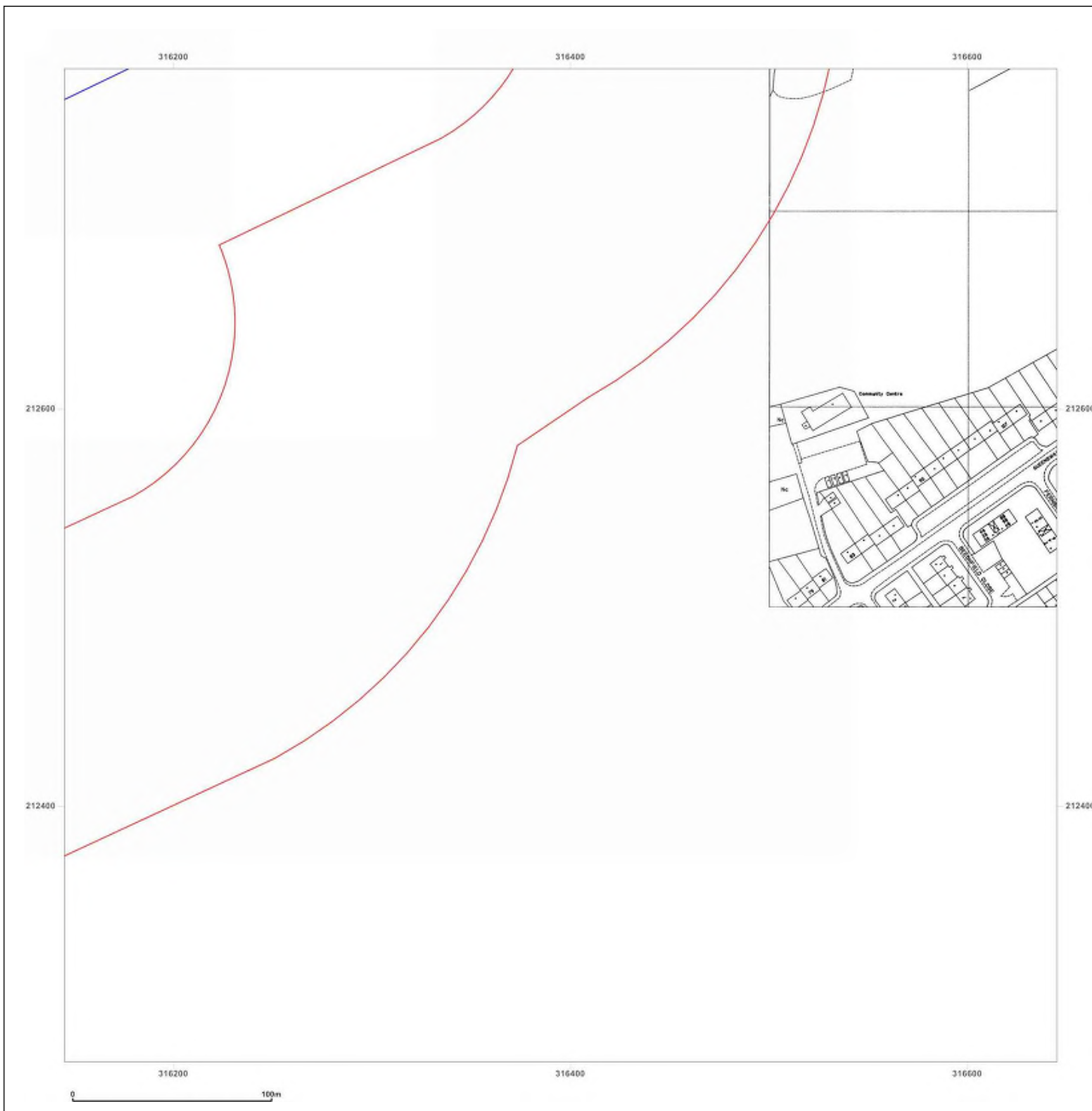


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_3_1
Grid Ref: 316395, 212521

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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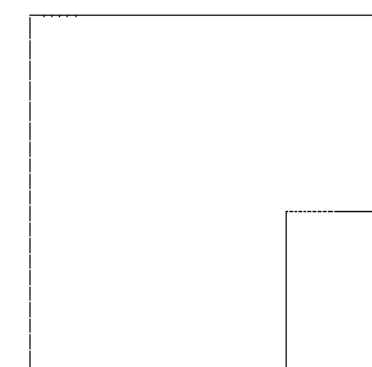
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Grid Ref: 316395, 213021

Map Name: National Grid

Map date: 1967

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1967
Levelled 1952

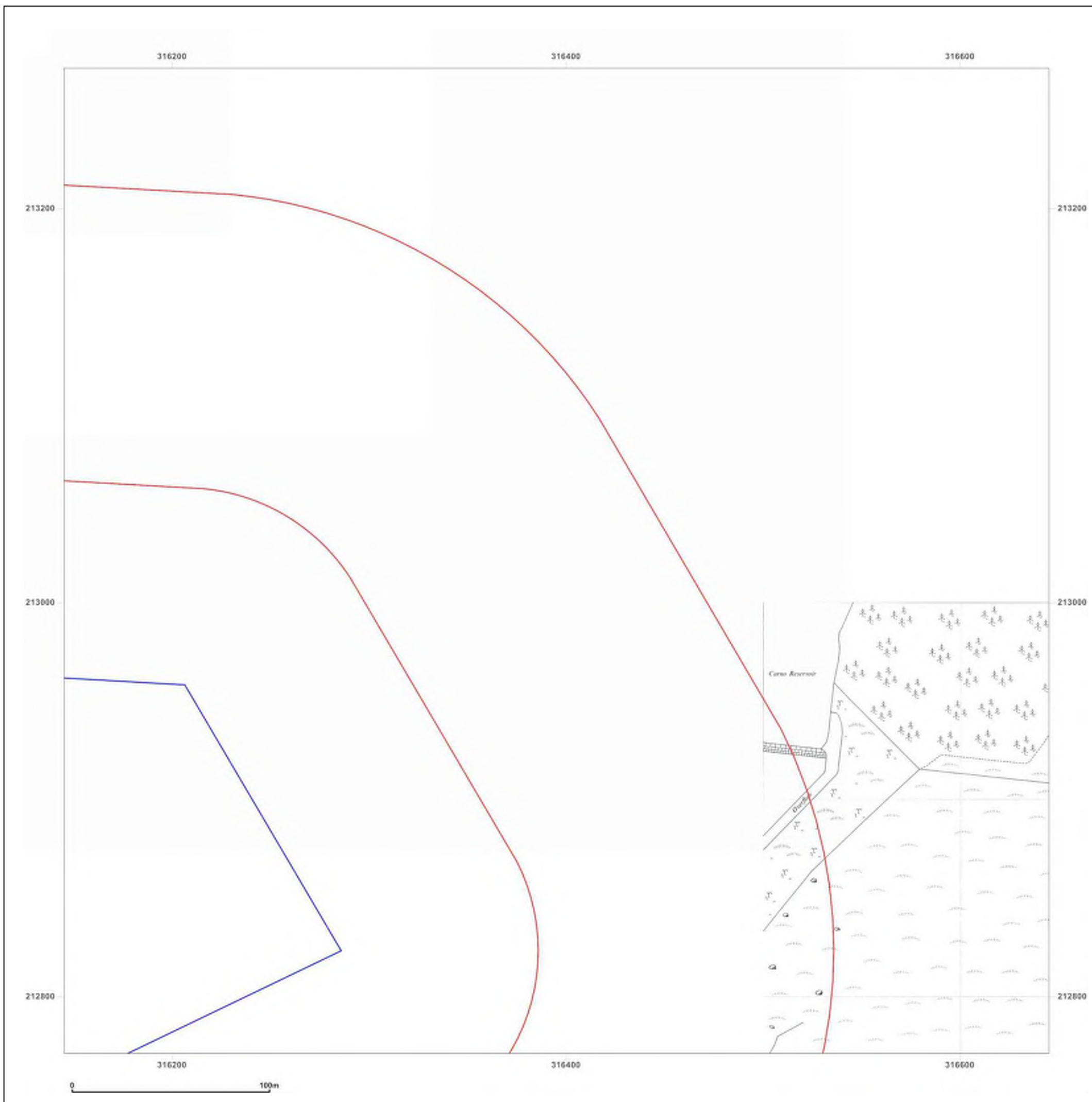


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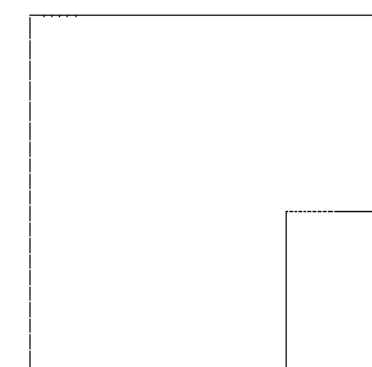
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Grid Ref: 316395, 213021

Map Name: National Grid

Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

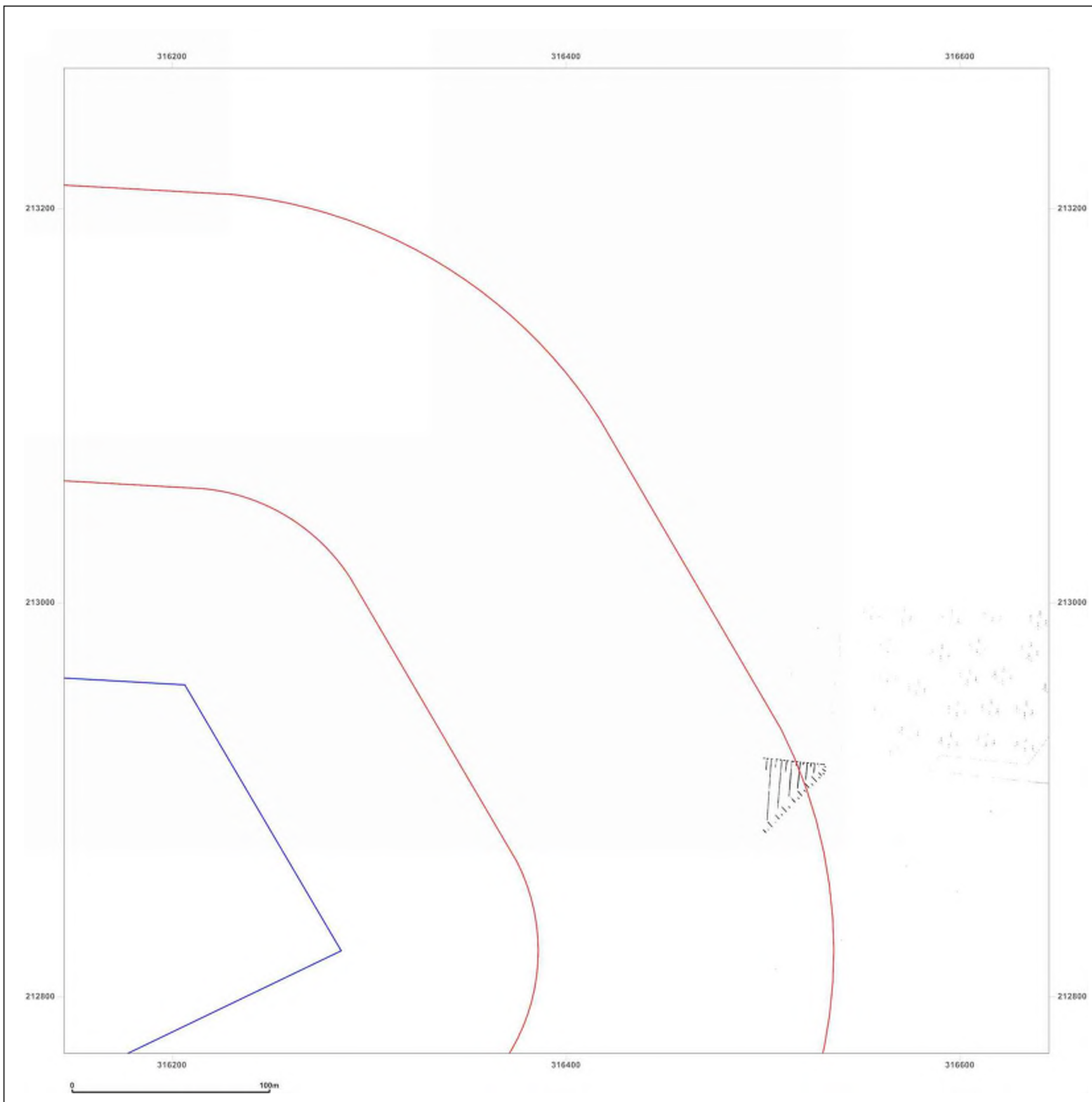


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

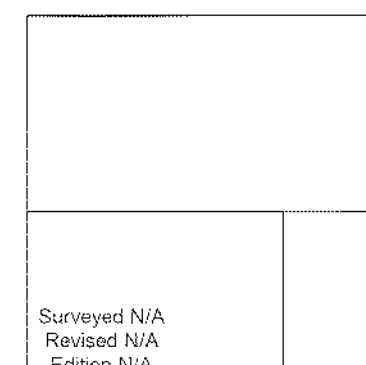
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Report Ref: GS-6719329_1250scale_3_2
Grid Ref: 316395, 213021

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
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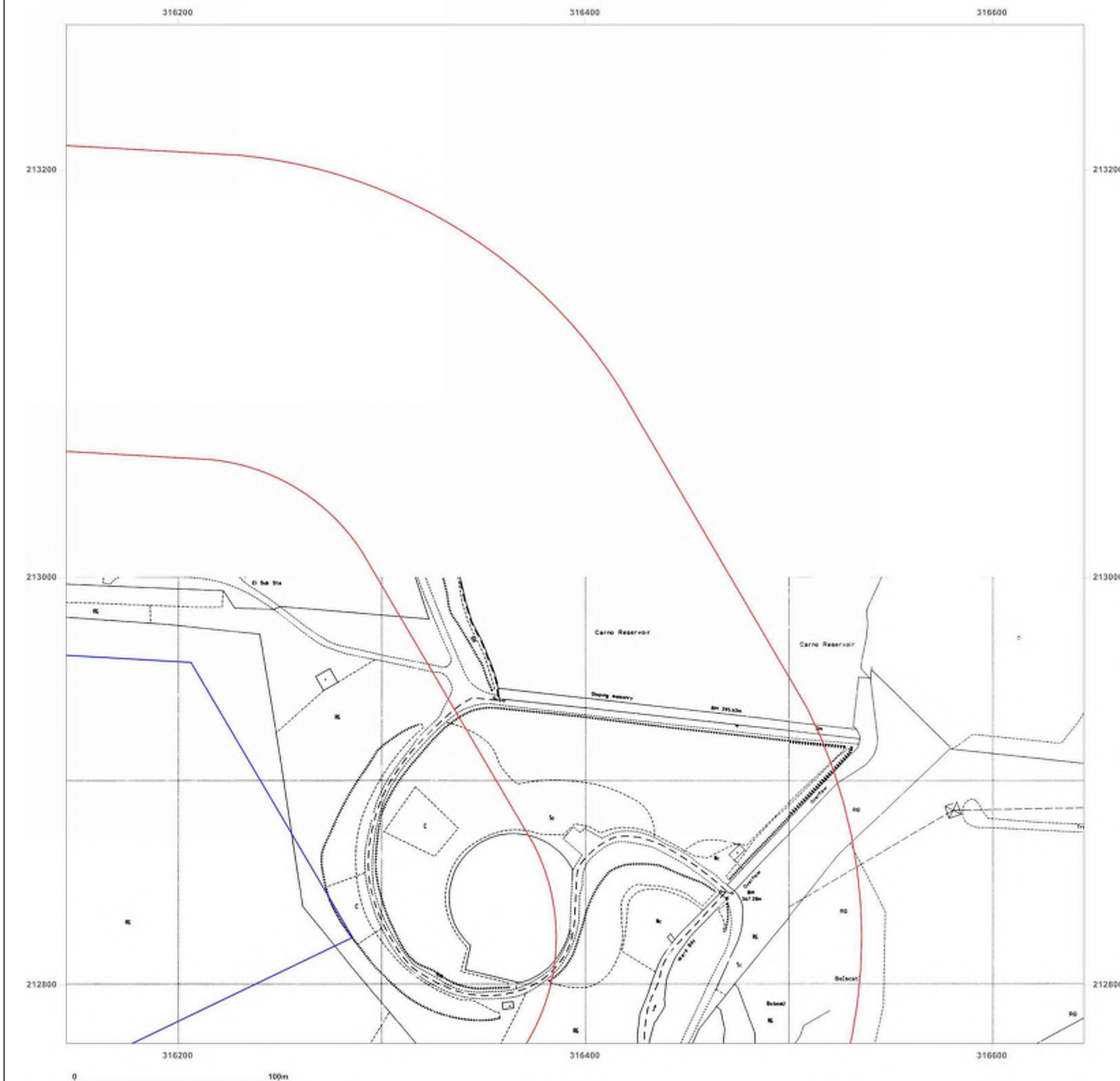


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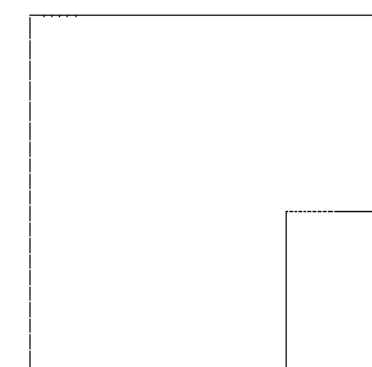
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Grid Ref: 316395, 213021

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

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Edition N/A
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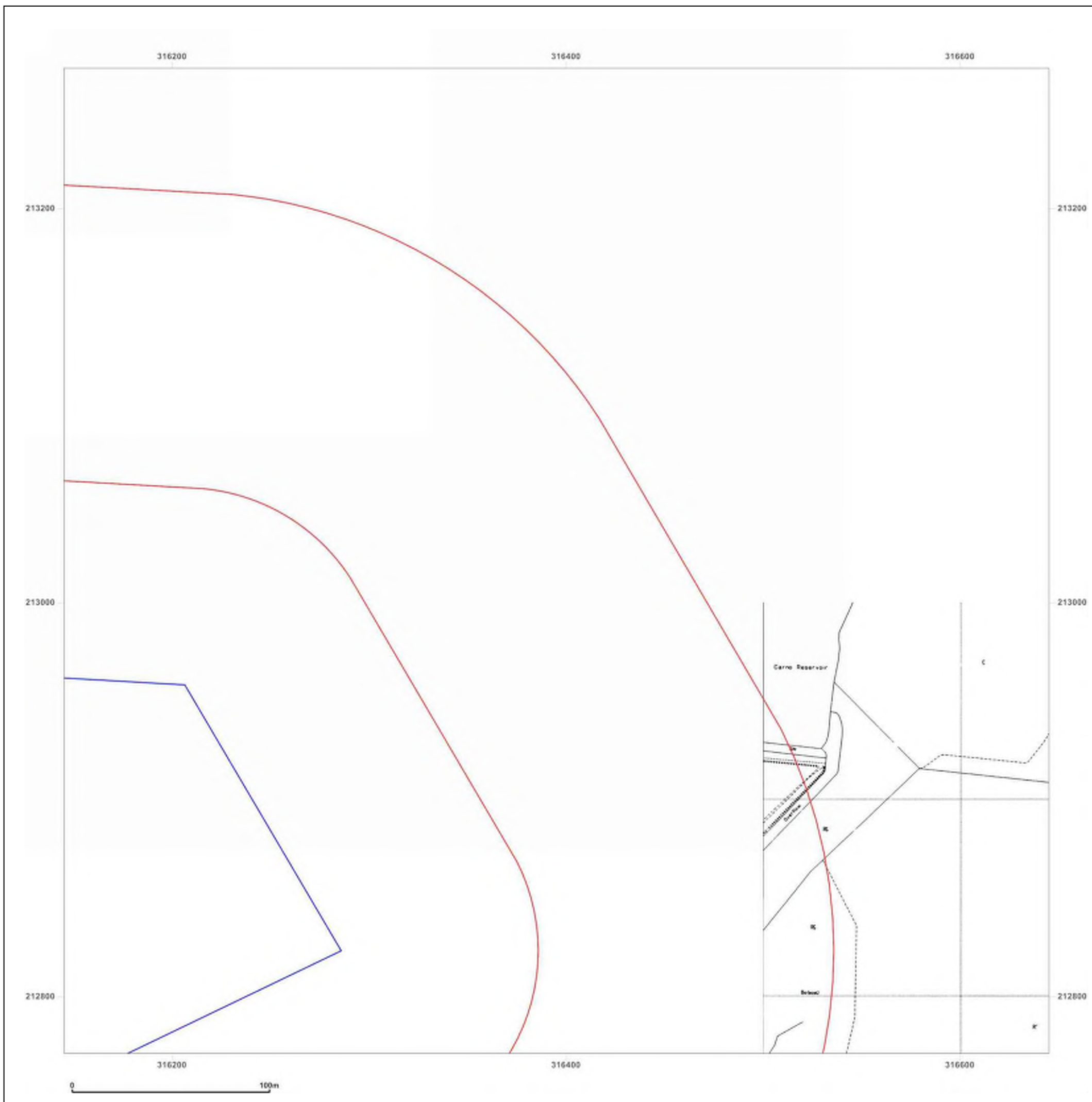


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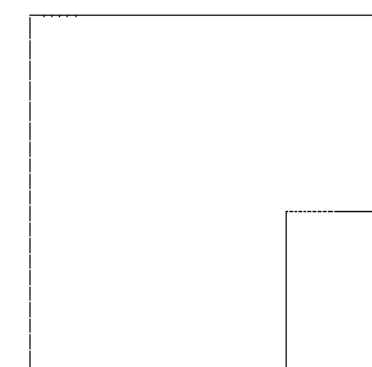
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Report Ref: GS-6719329_1250scale_3_2
Grid Ref: 316395, 213021

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
Revised 1994
Edition N/A
Copyright 1994
Levelled N/A

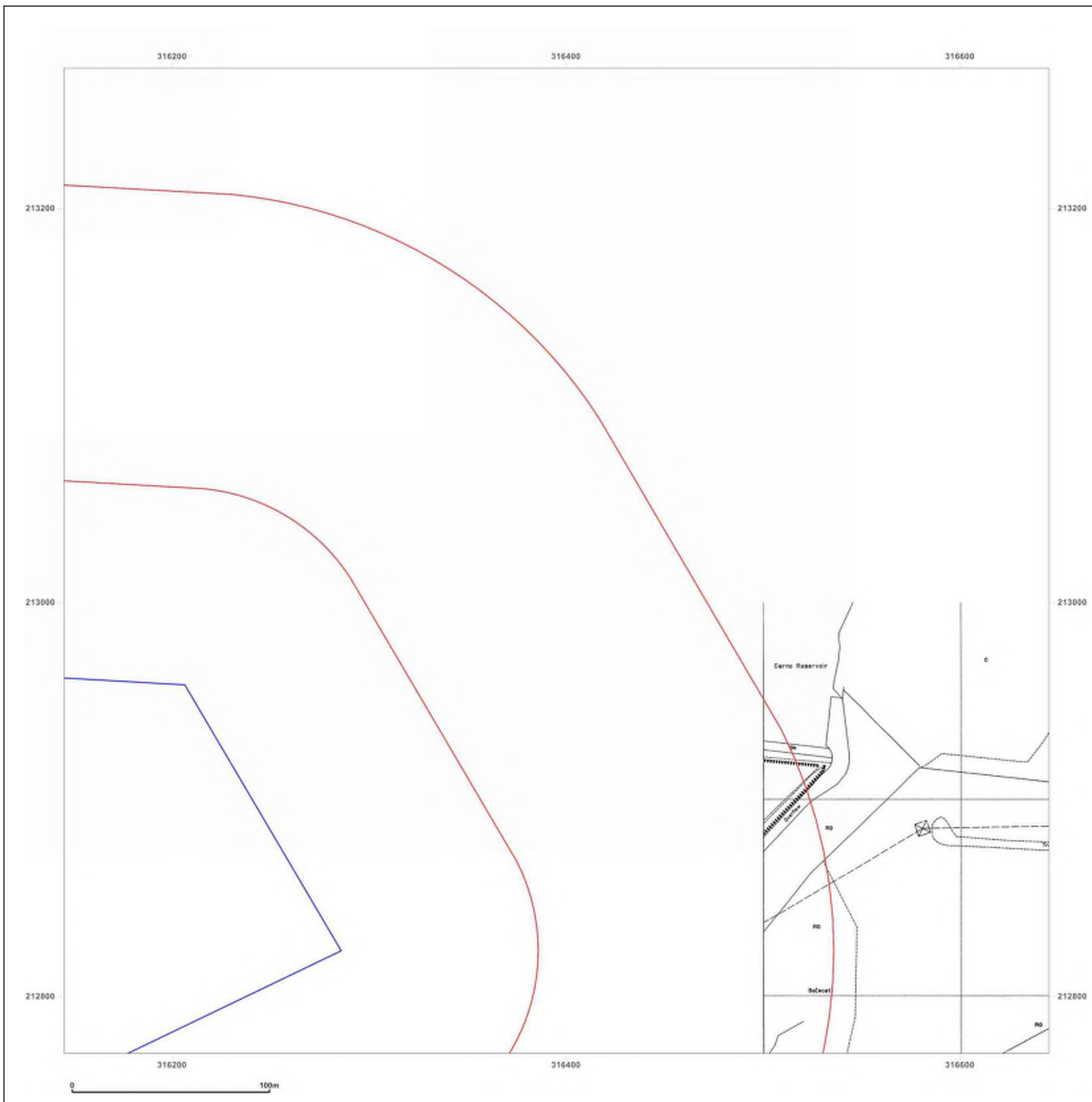


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_1250scale_3_2
Grid Ref: 316395, 213021

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003

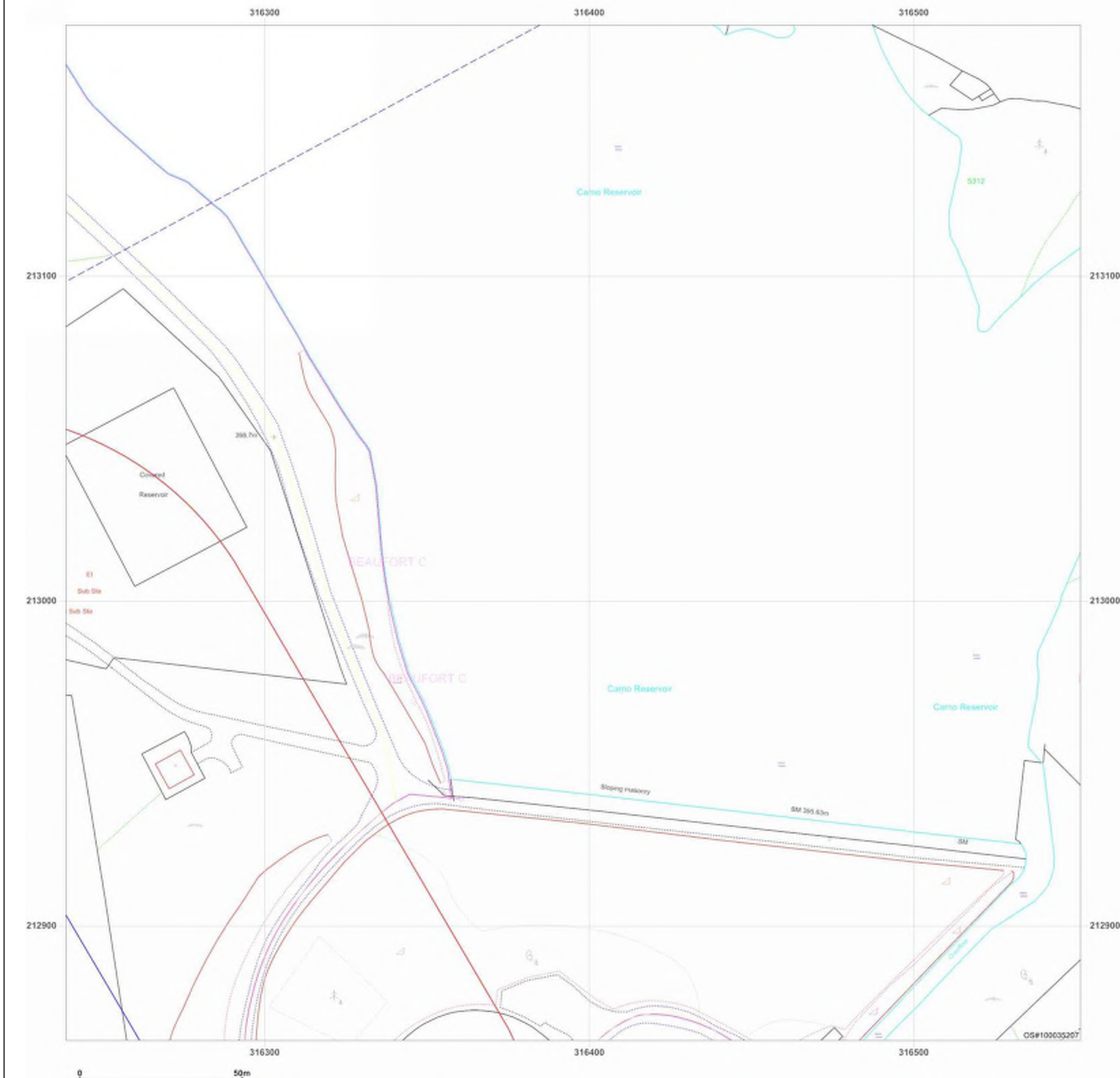


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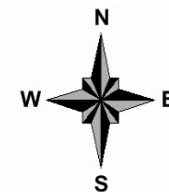
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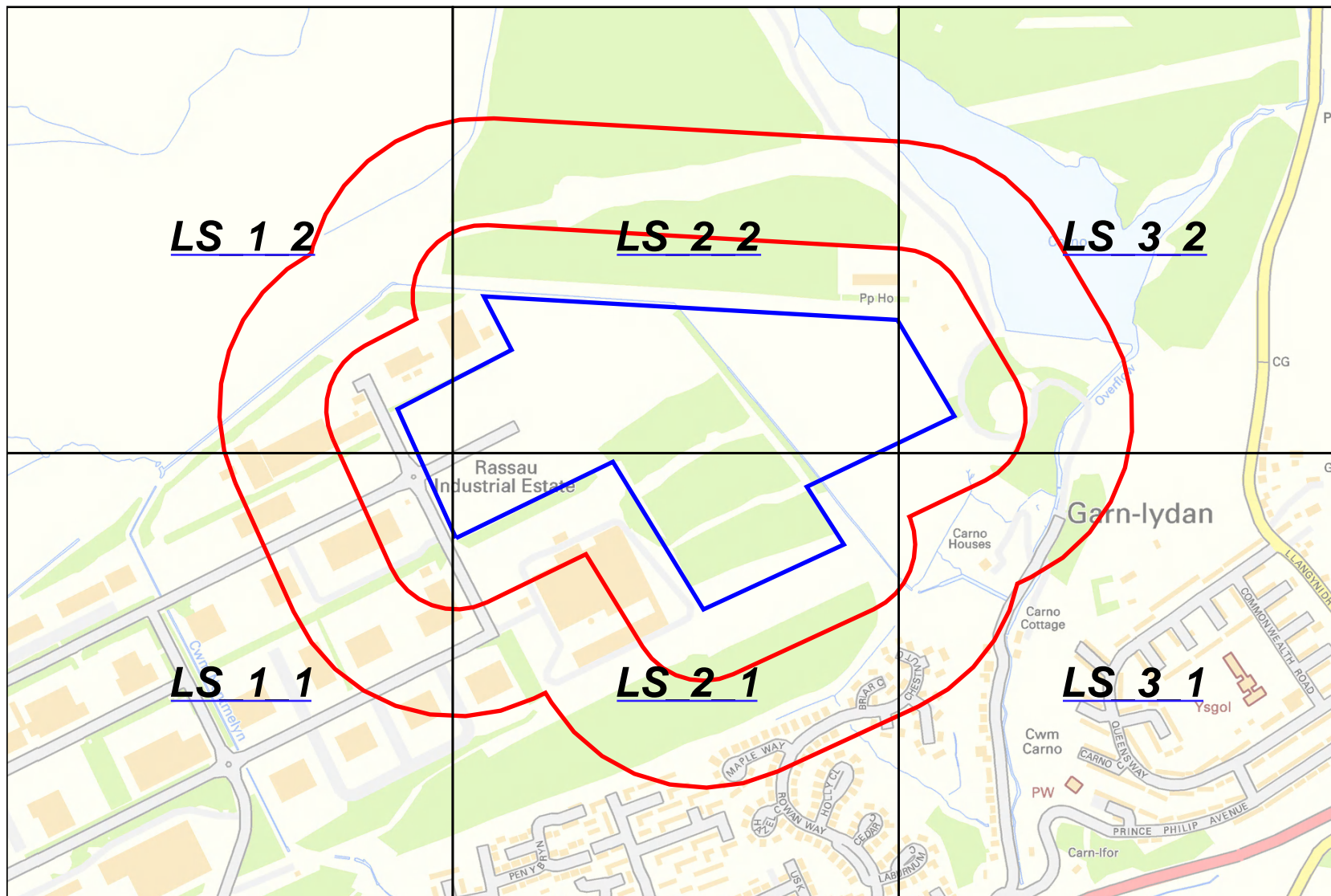


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1:2500 Scale Grid Index



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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
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Edition N/A
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Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
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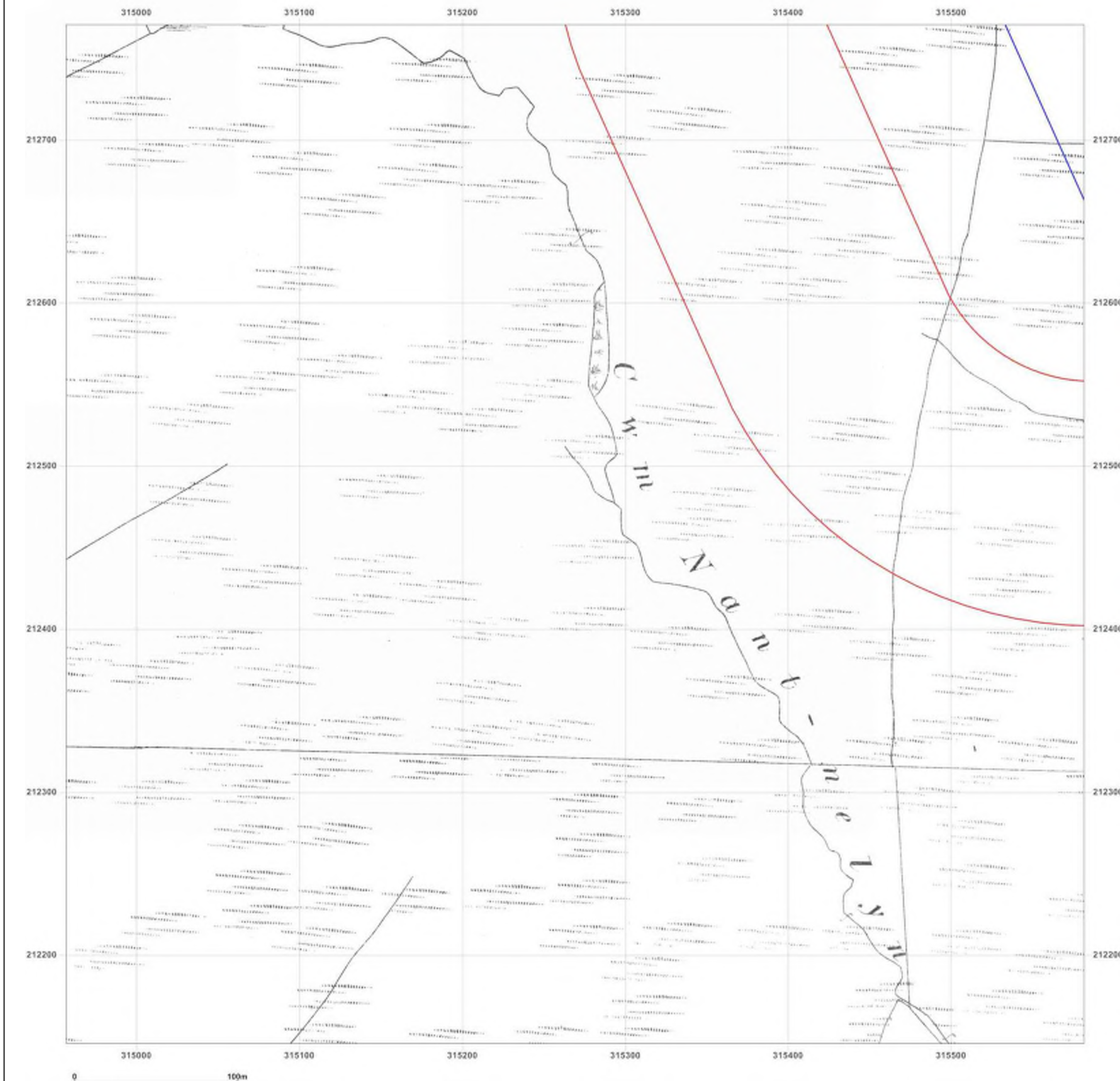


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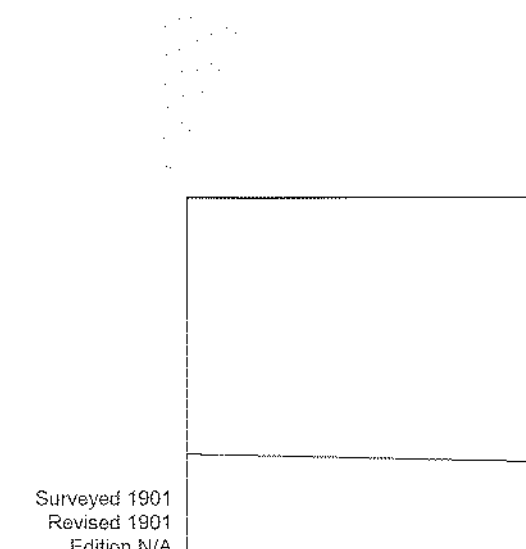
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Grid Ref: 315269, 212458

Map Name: County Series

Map date: 1901

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1901
Revised 1901
Edition N/A
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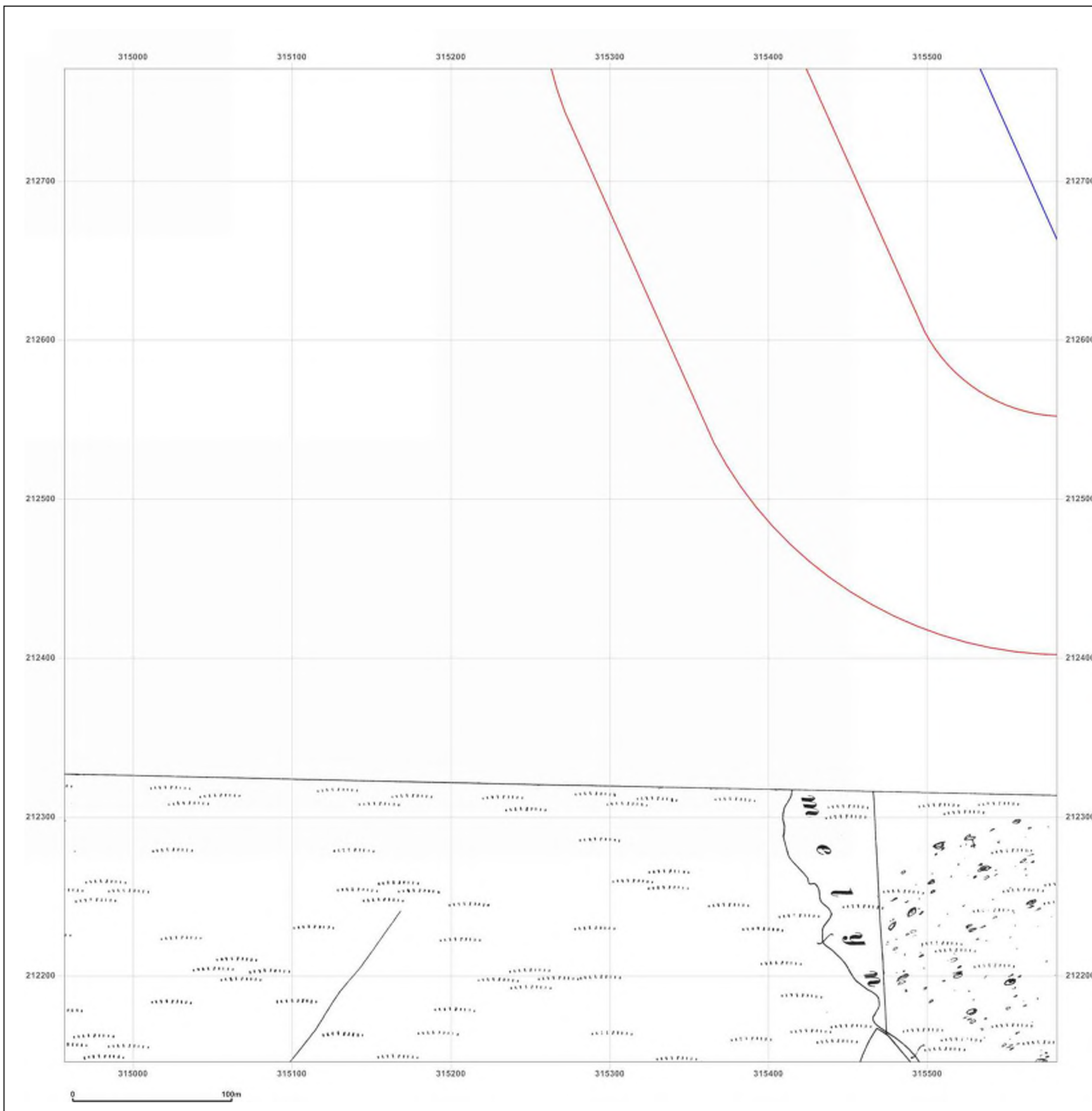


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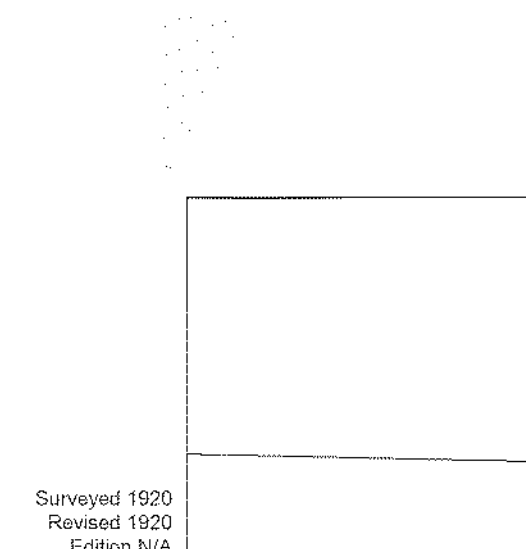
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Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: County Series

Map date: 1920

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

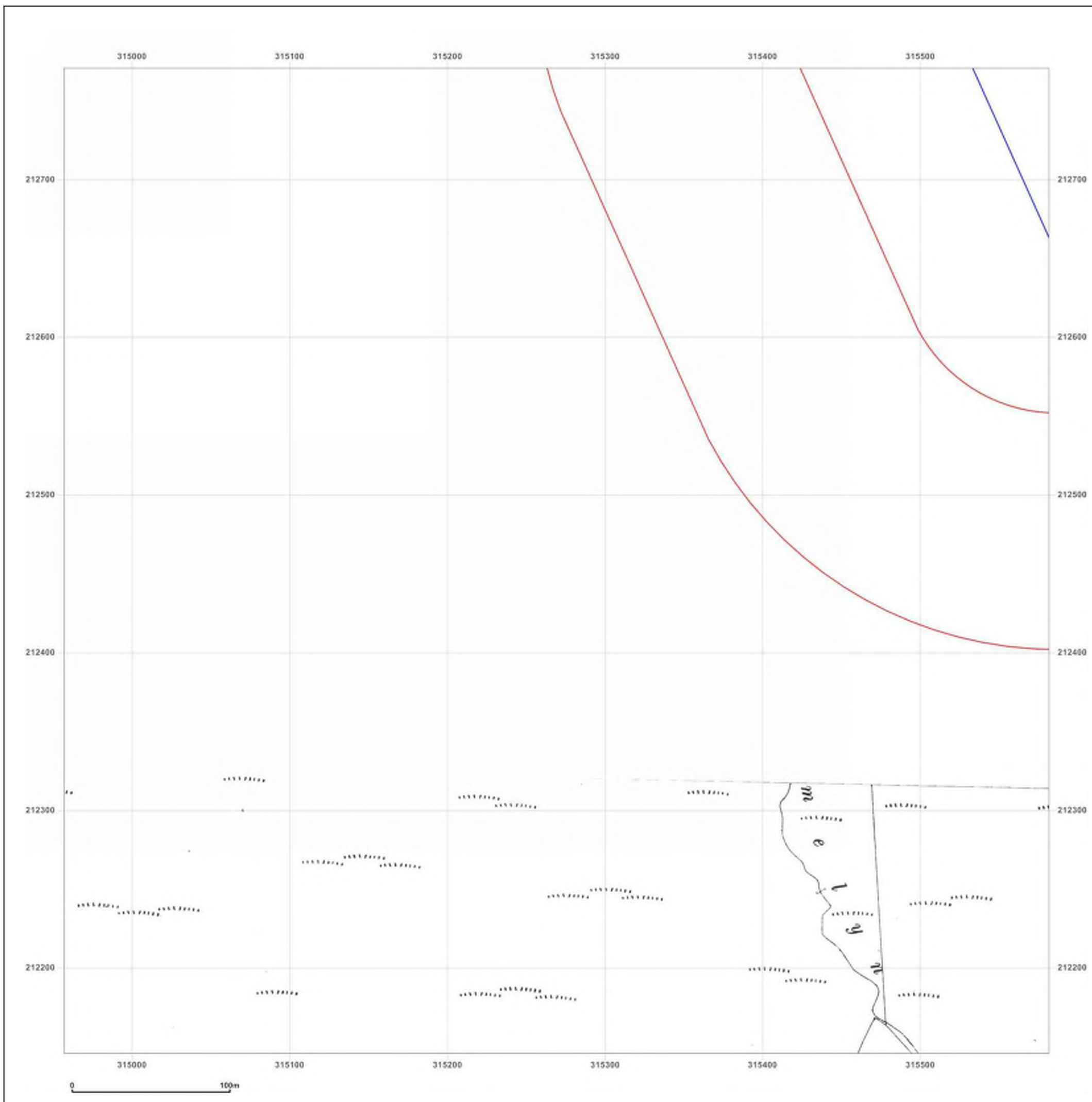


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

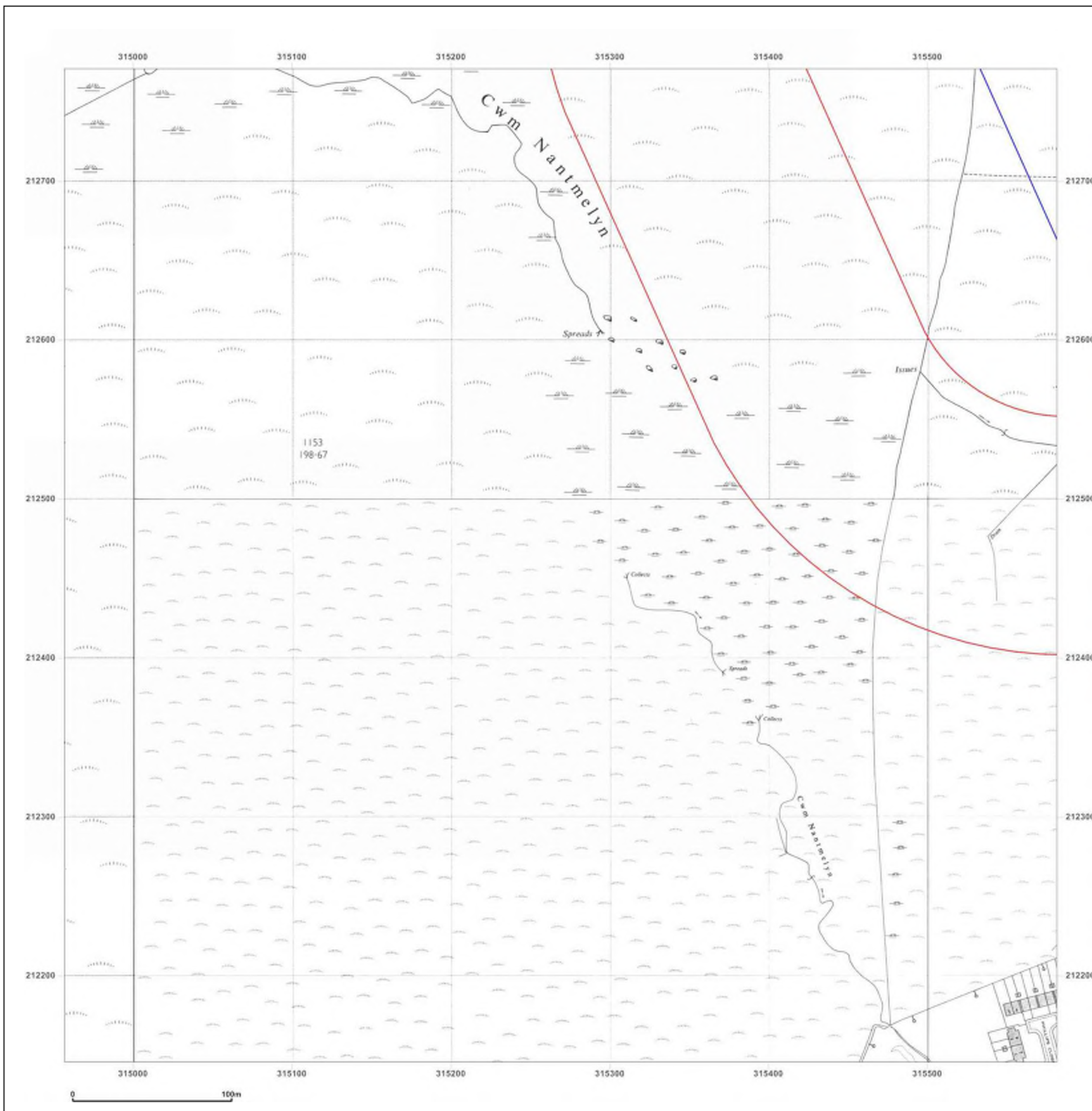


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
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Levelled N/A

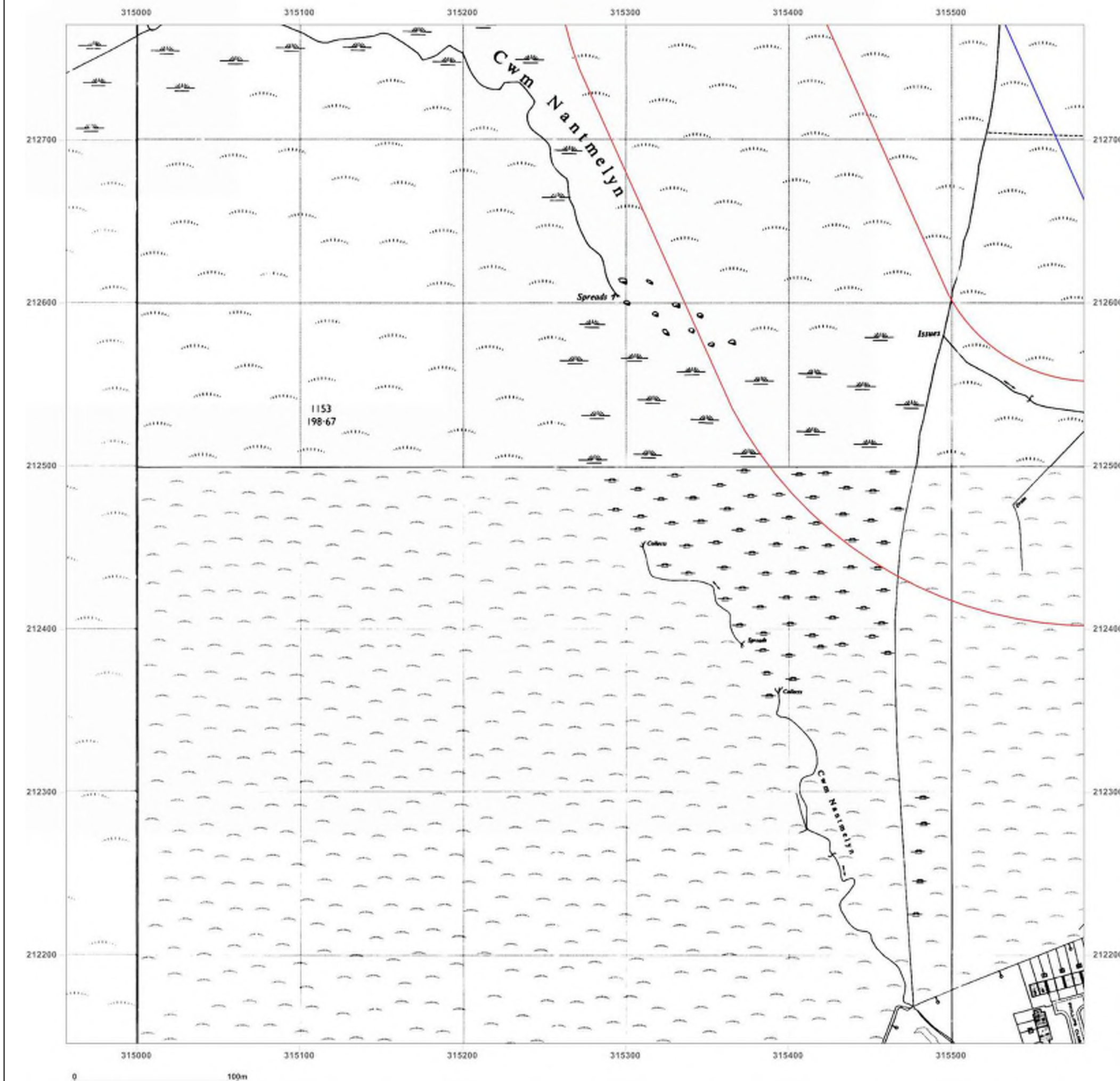


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1982

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1982
Revised 1982
Edition N/A
Copyright 1983
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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1983

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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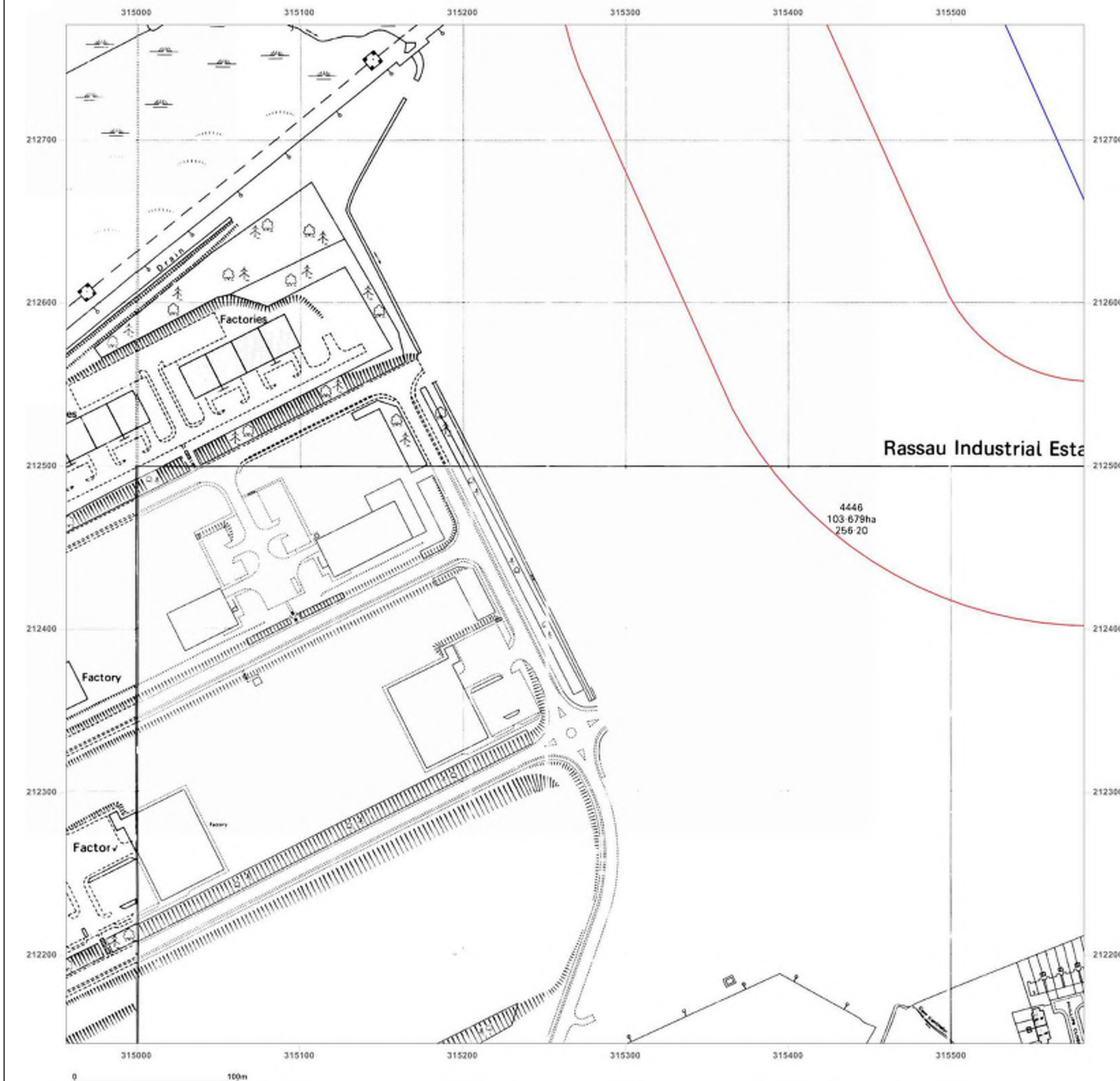


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1983-1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

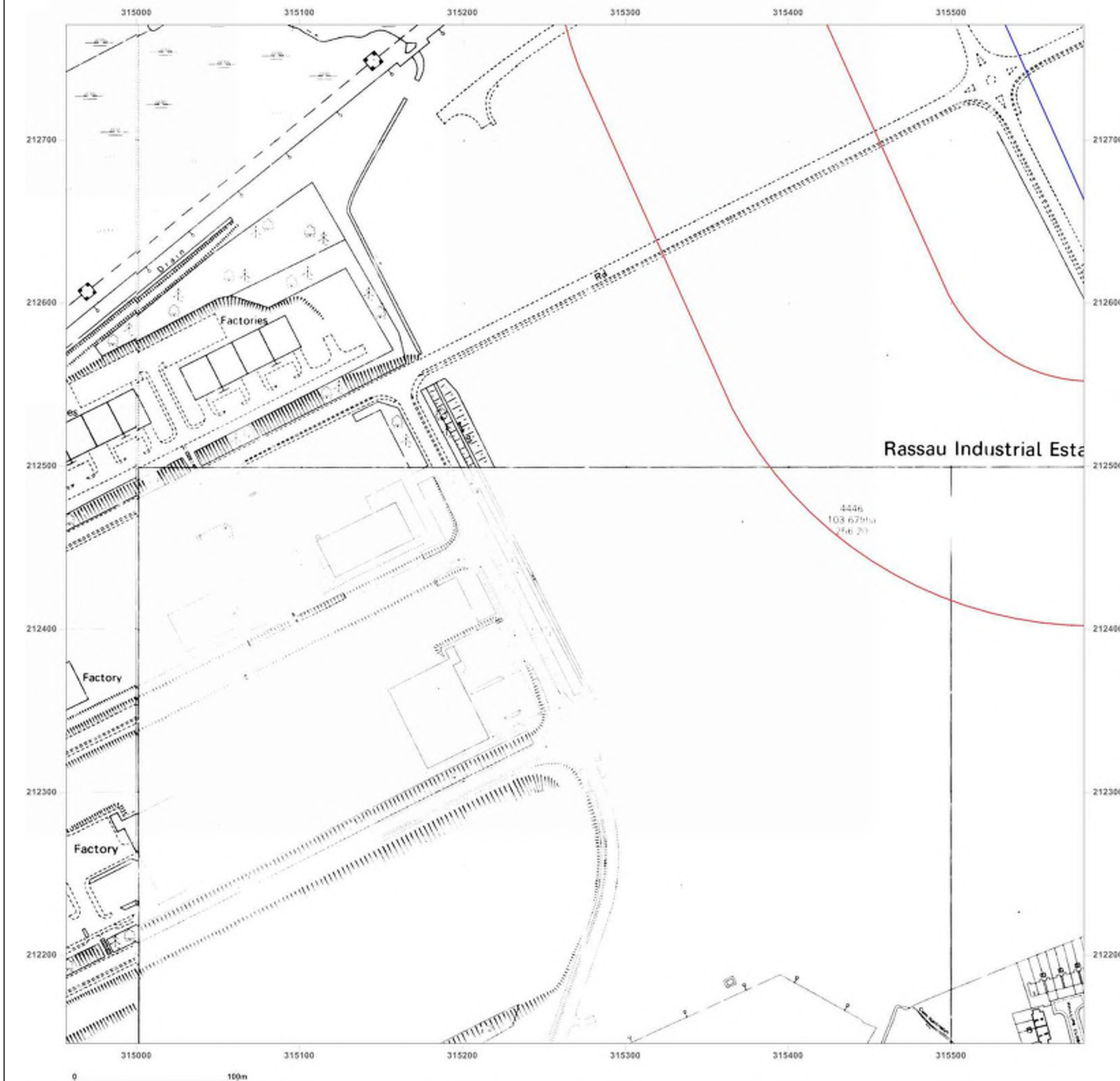


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1985
Revised 1985
Edition N/A
Copyright 1985
Levelled N/A

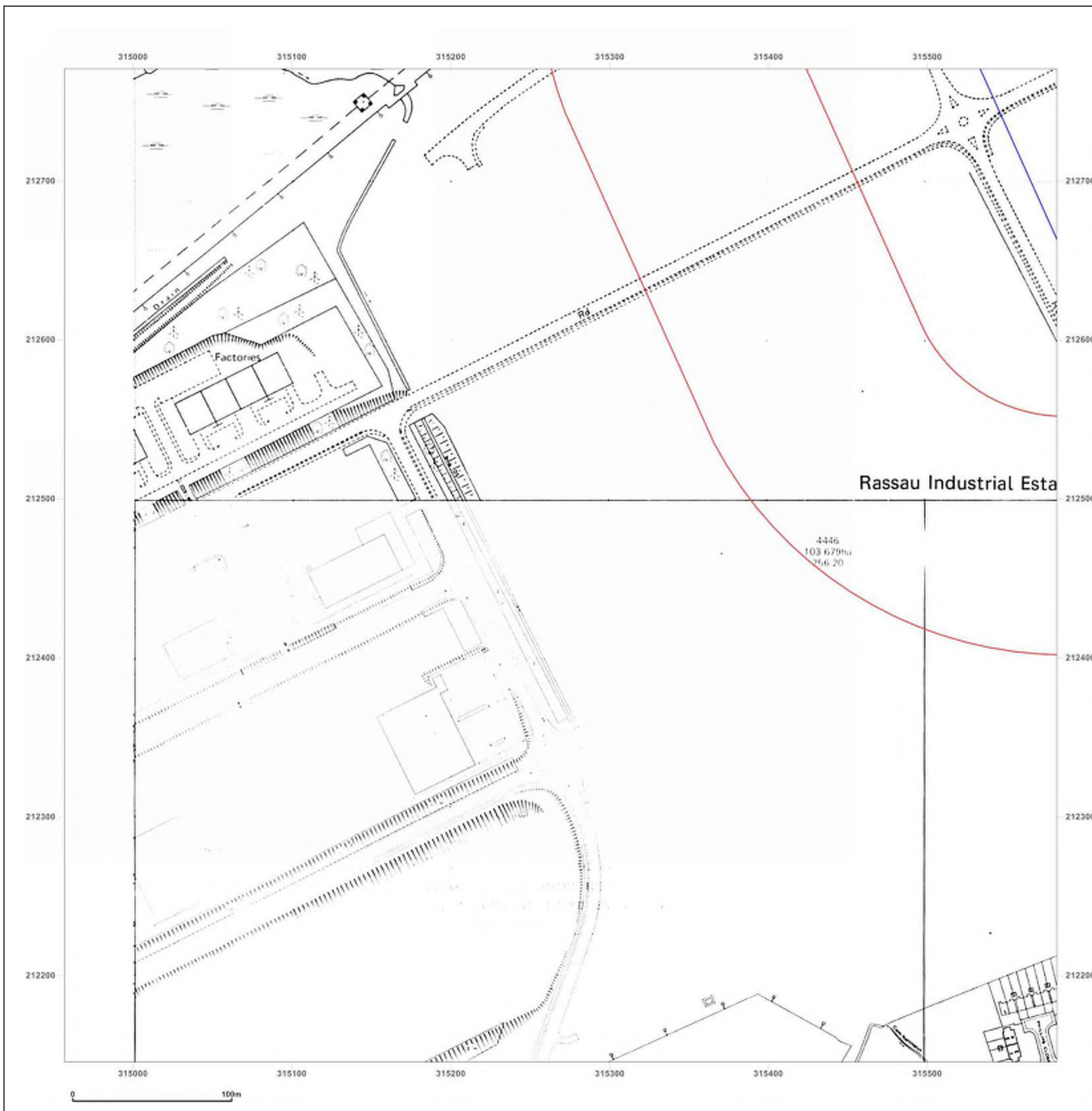


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1991

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1956
Revised 1982
Edition N/A
Copyright 1991
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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_1
Grid Ref: 315269, 212458

Map Name: National Grid

Map date: 1991-1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
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Levelled N/A

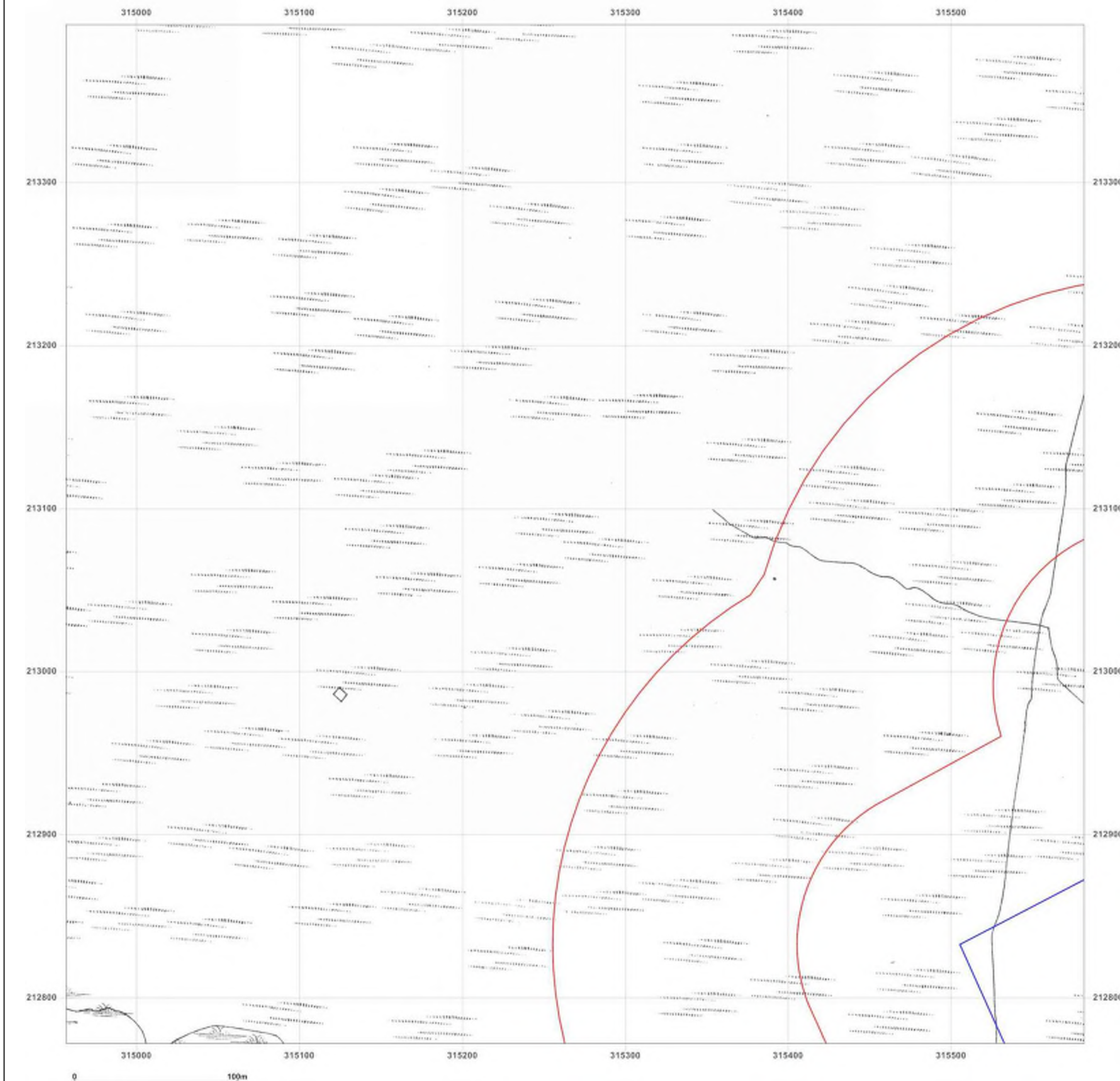


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: National Grid

Map date: 1964-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled 1952

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

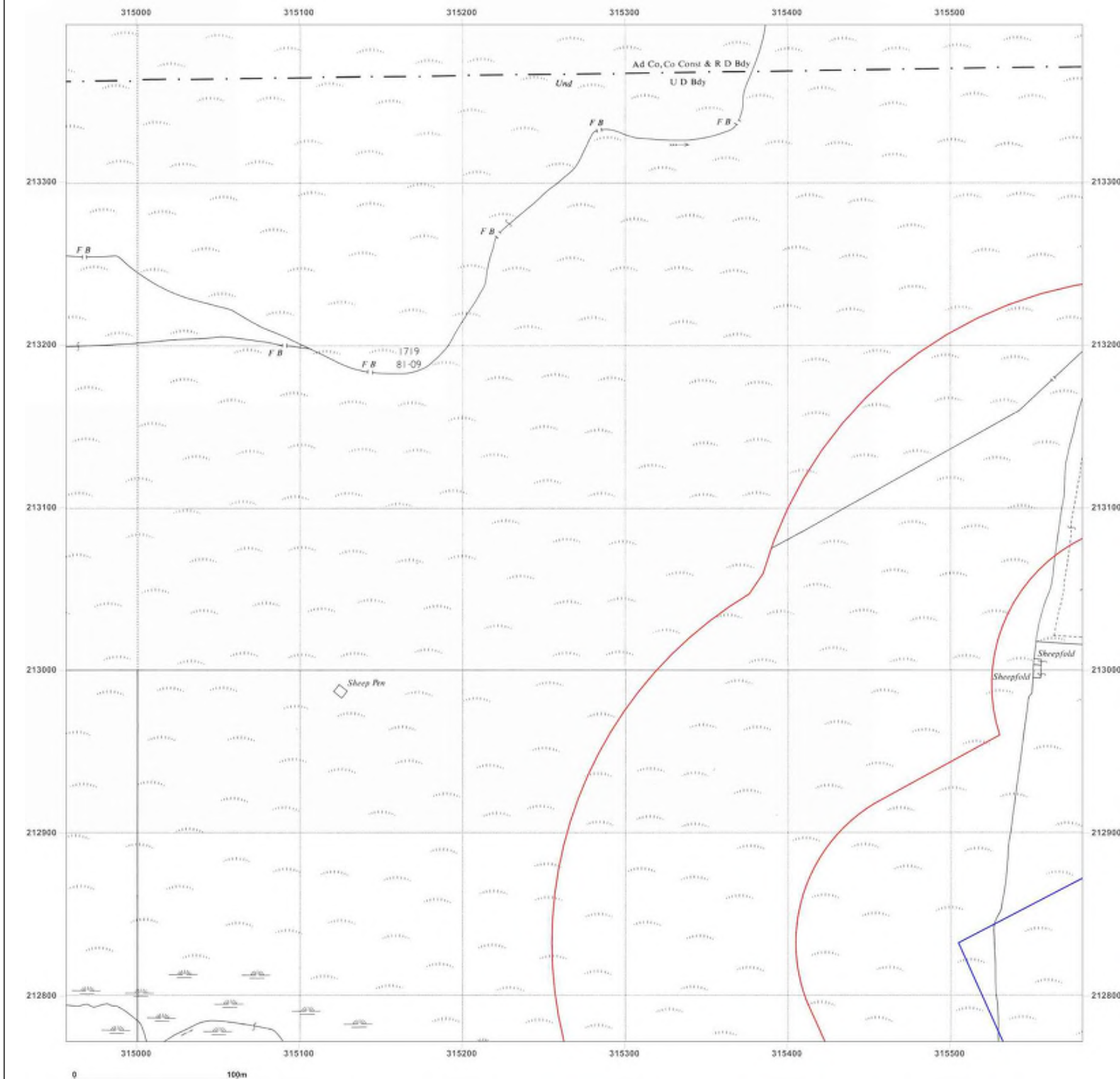


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: National Grid

Map date: 1965-1968

Scale: 1:2,500

Printed at: 1:2,500



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Revised N/A
Edition N/A
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Levelled N/A

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Revised N/A
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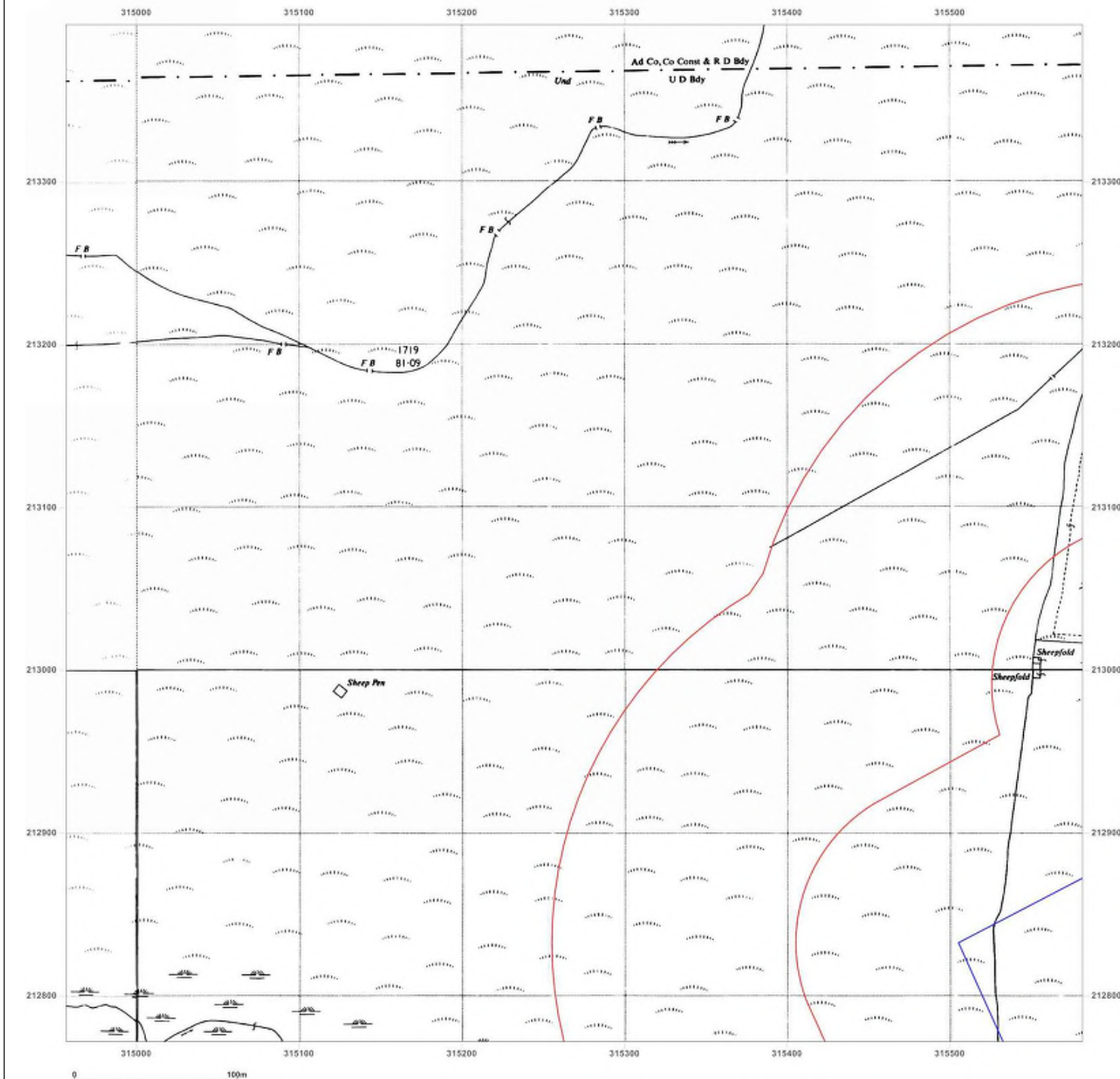


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Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: National Grid

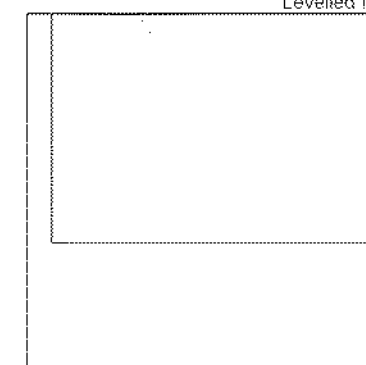
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Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

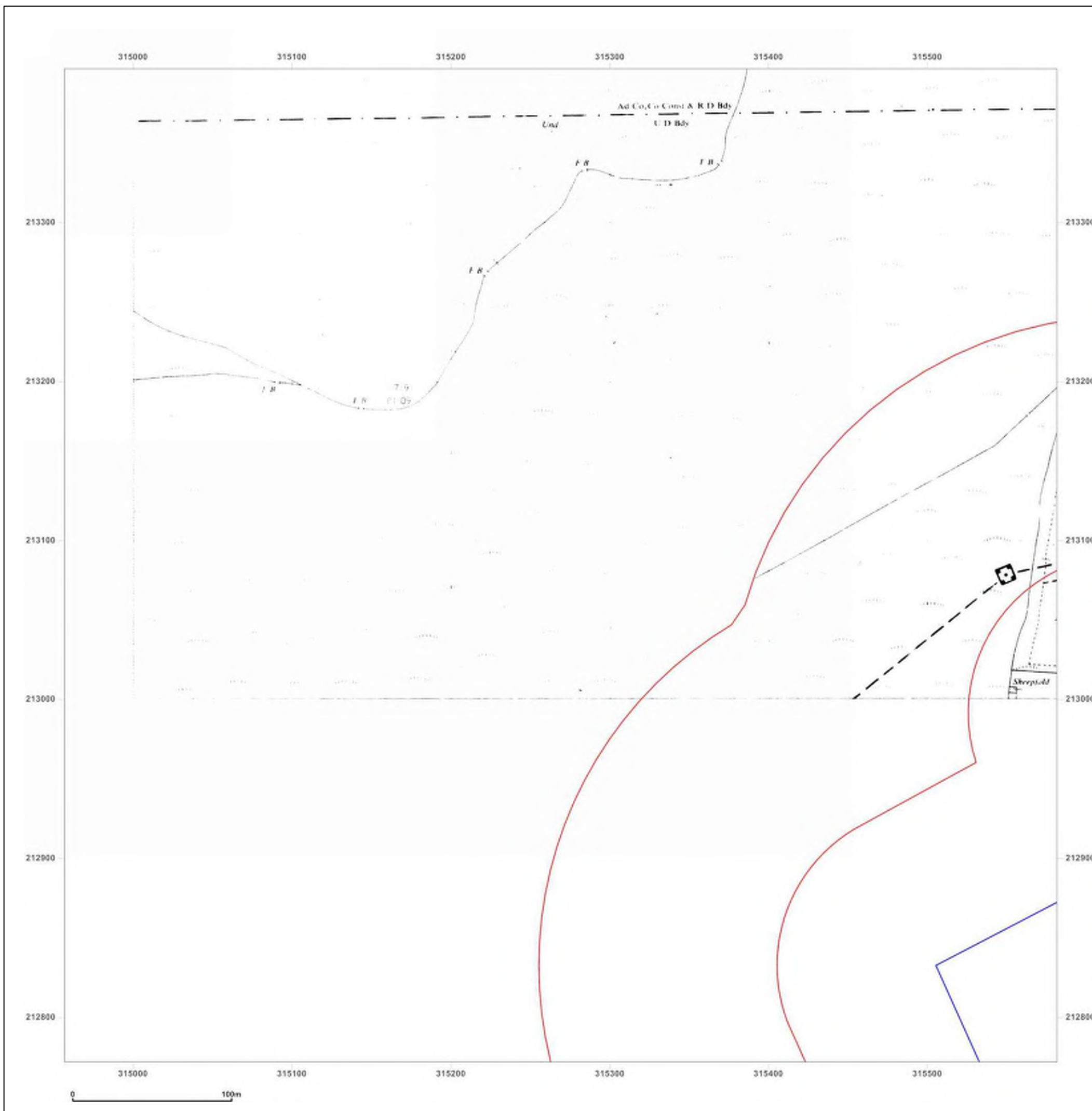


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: National Grid

Map date: 1982

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1982
Revised 1982
Edition N/A
Copyright 1983
Levelled 1952

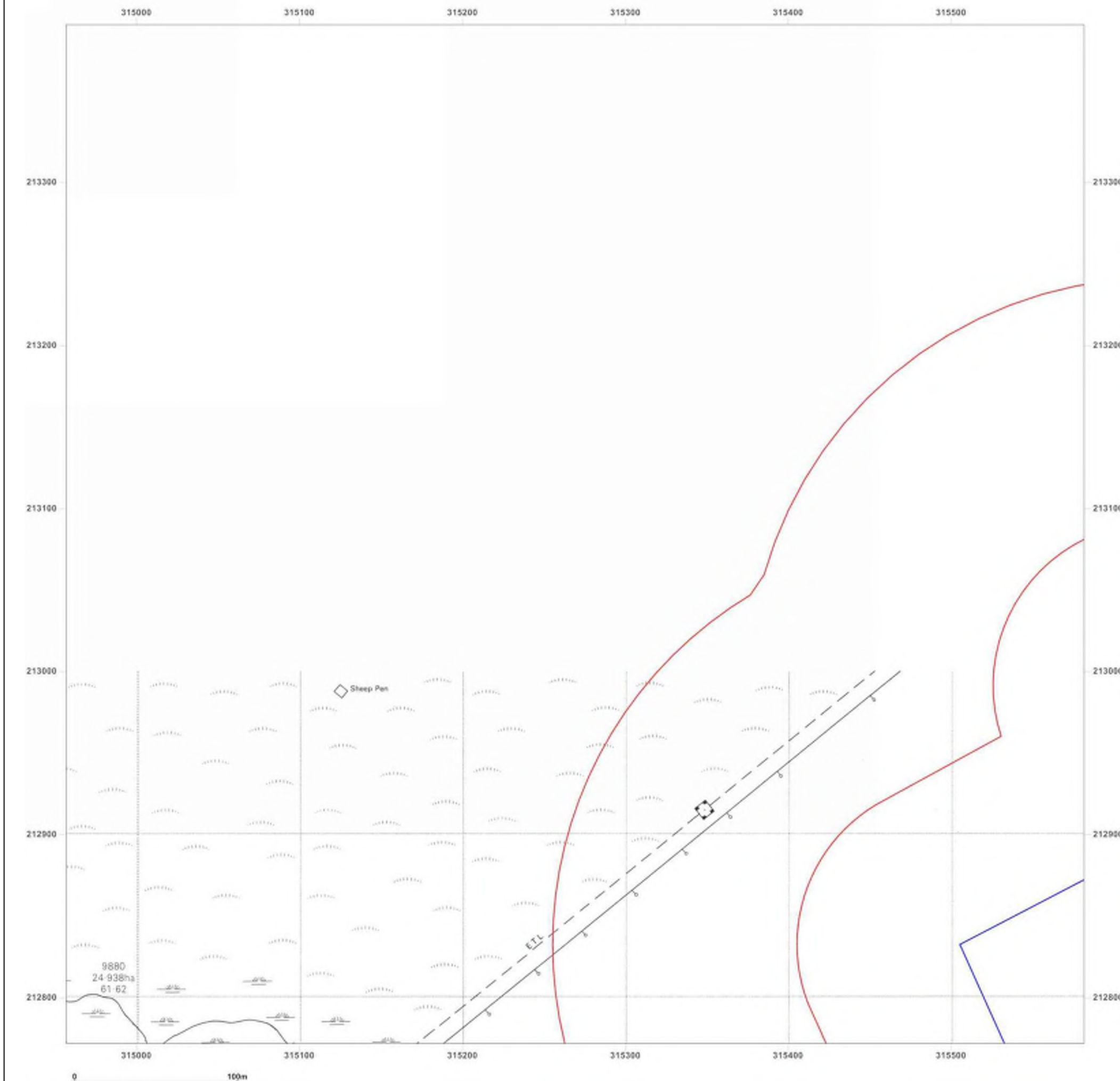


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Grid Ref: 315269, 213084

Map Name: National Grid

Map date: 1983

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

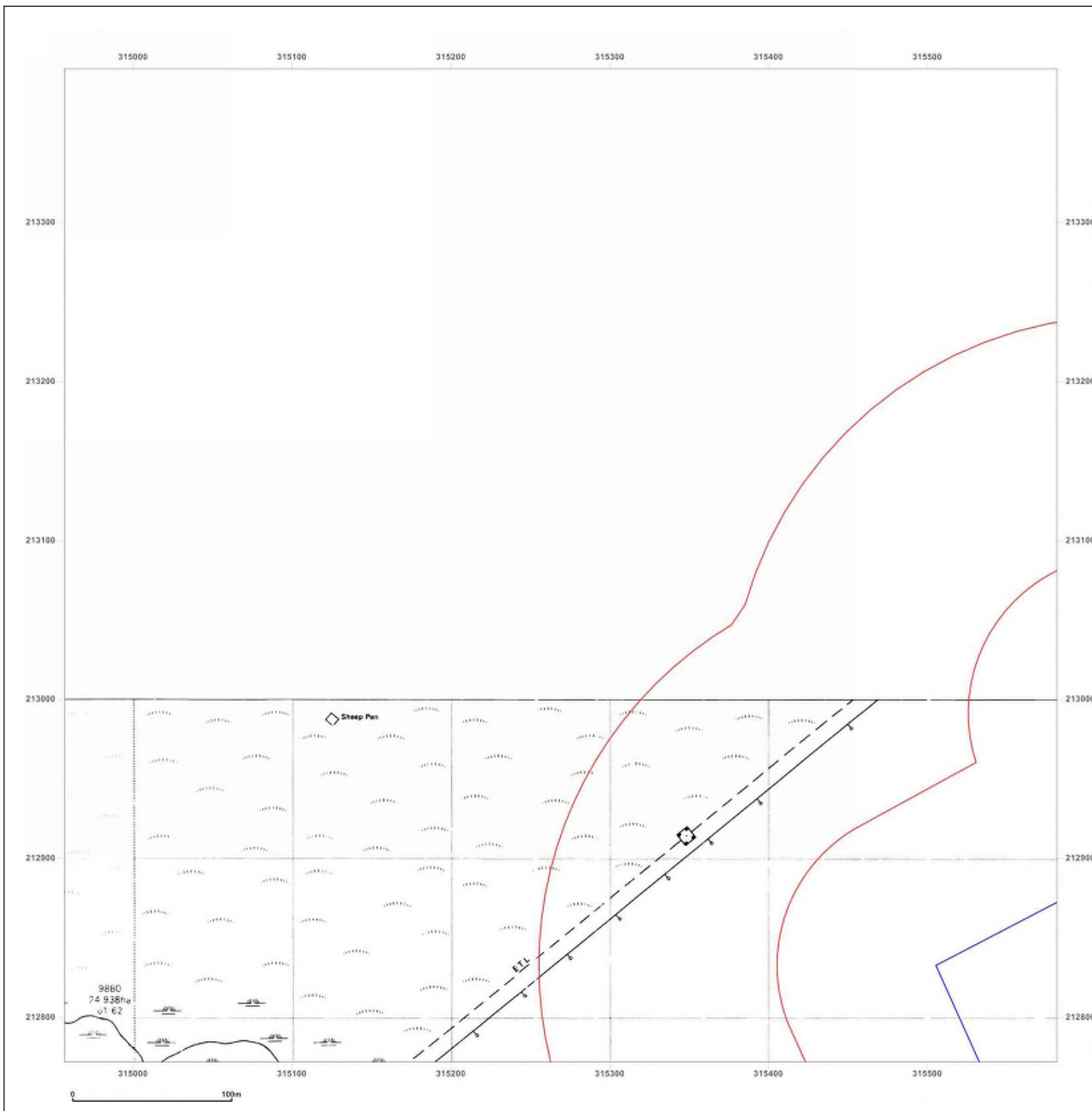


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Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: National Grid

Map date: 1983-1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

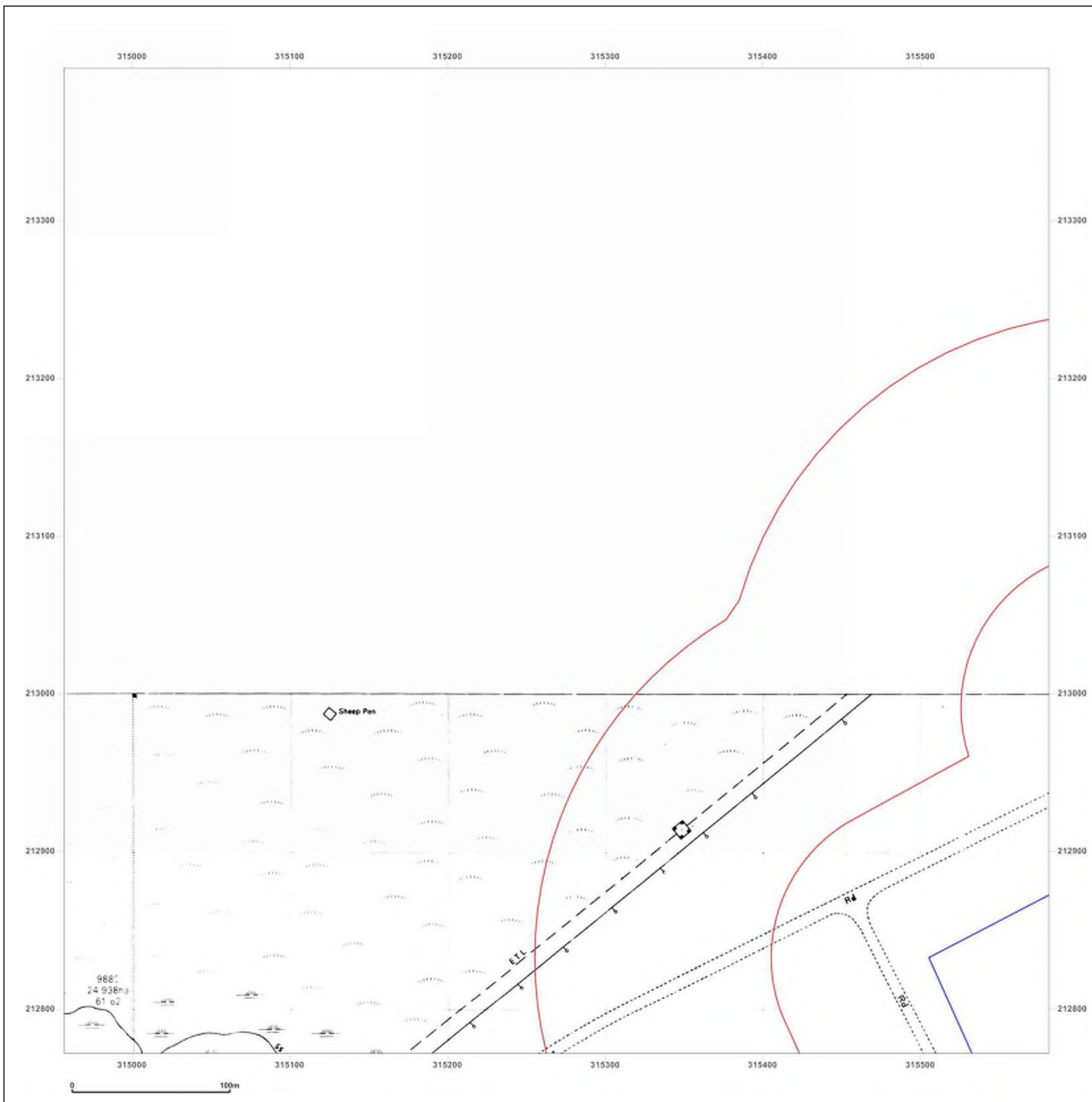


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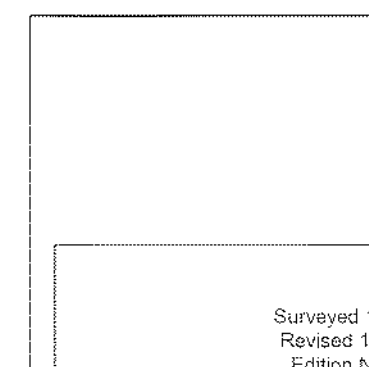
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Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1985
Revised 1985
Edition N/A
Copyright 1985
Levelled N/A

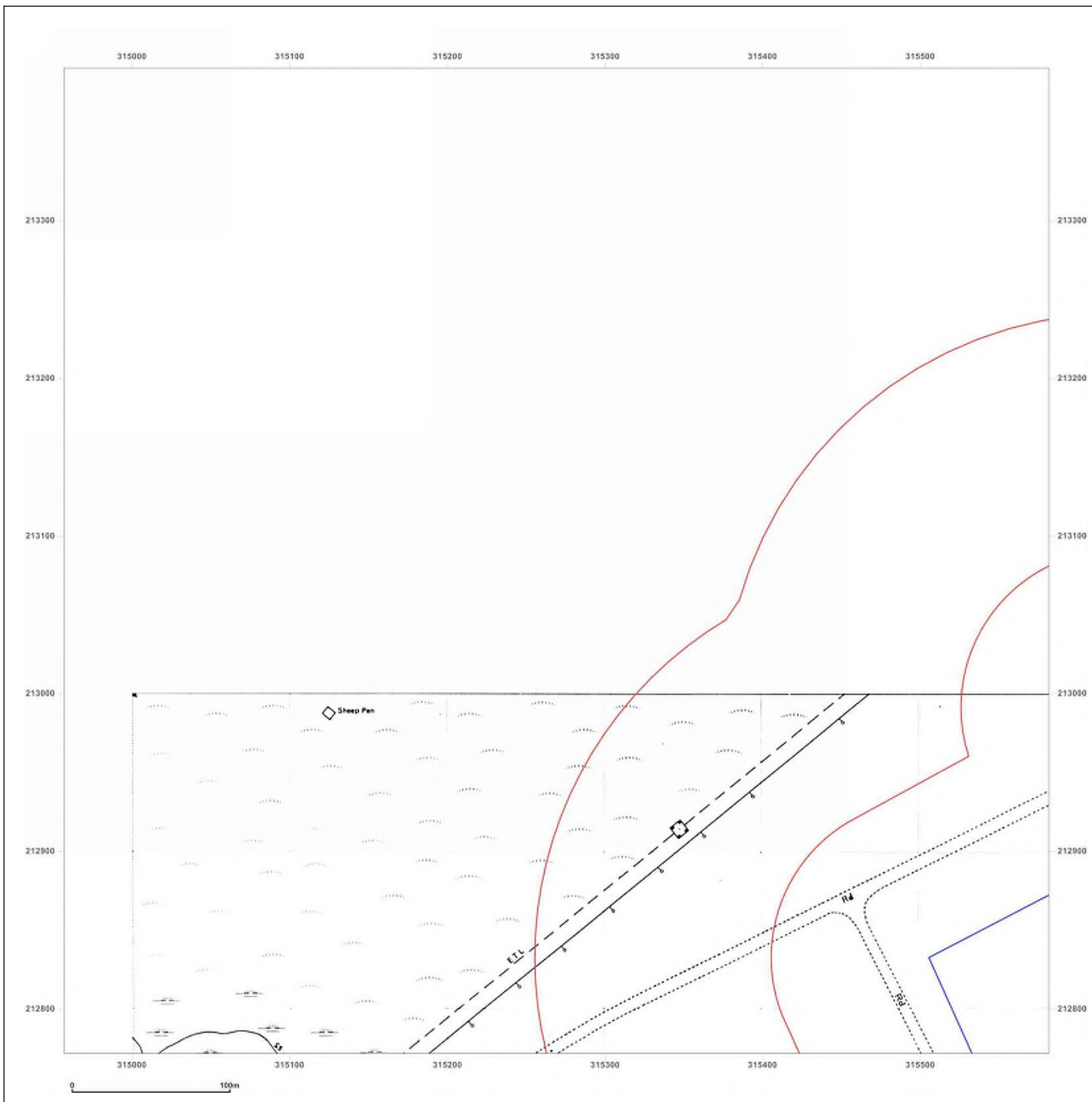


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_1_2
Grid Ref: 315269, 213084

Map Name: National Grid

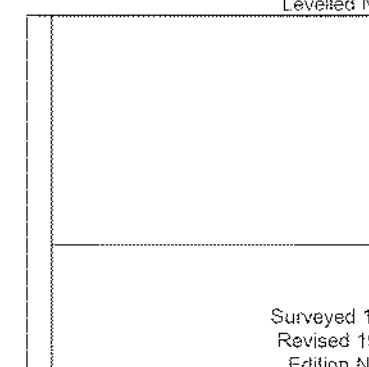
Map date: 1991-1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A



Surveyed 1966
Revised 1982
Edition N/A
Copyright 1991
Levelled 1952

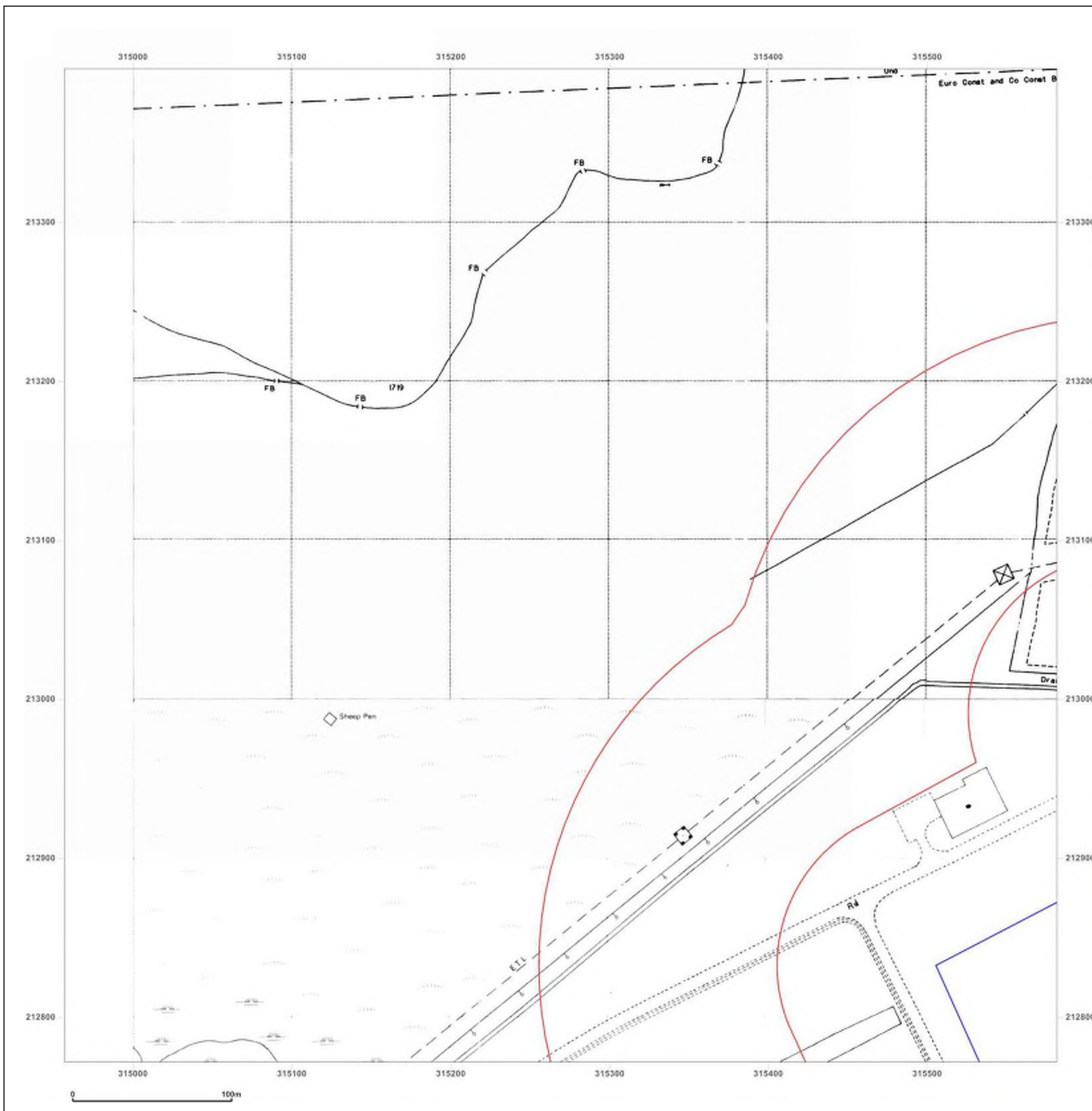


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1856
Revised N/A
Edition 1880
Copyright N/A
Levelled N/A

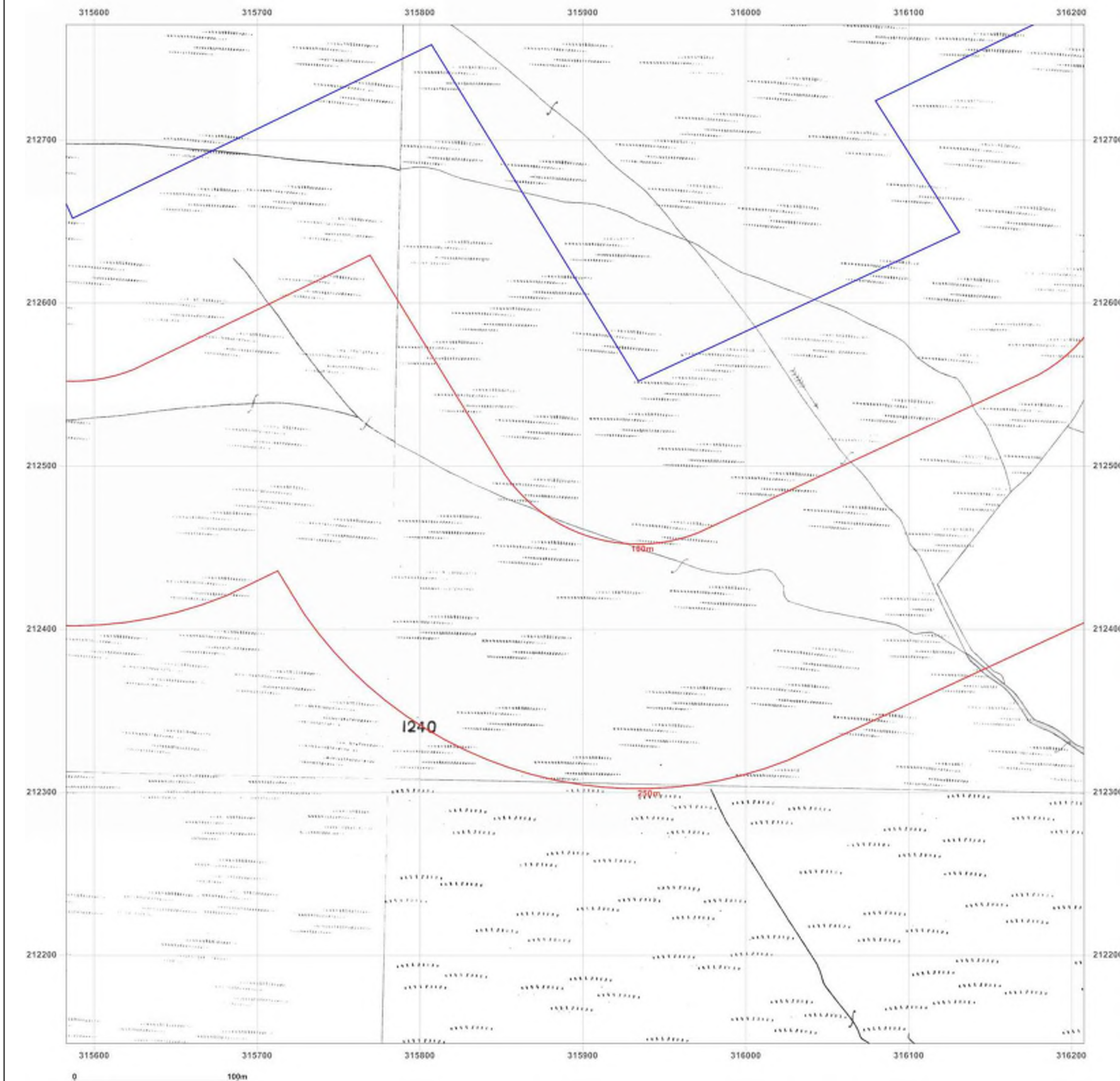


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VALE, NP23 5SD

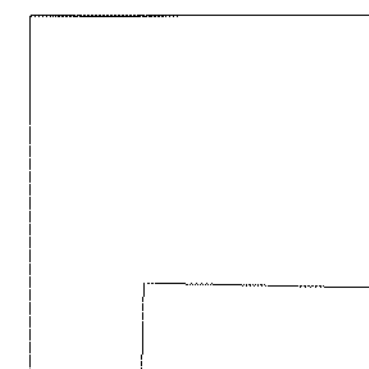
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Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

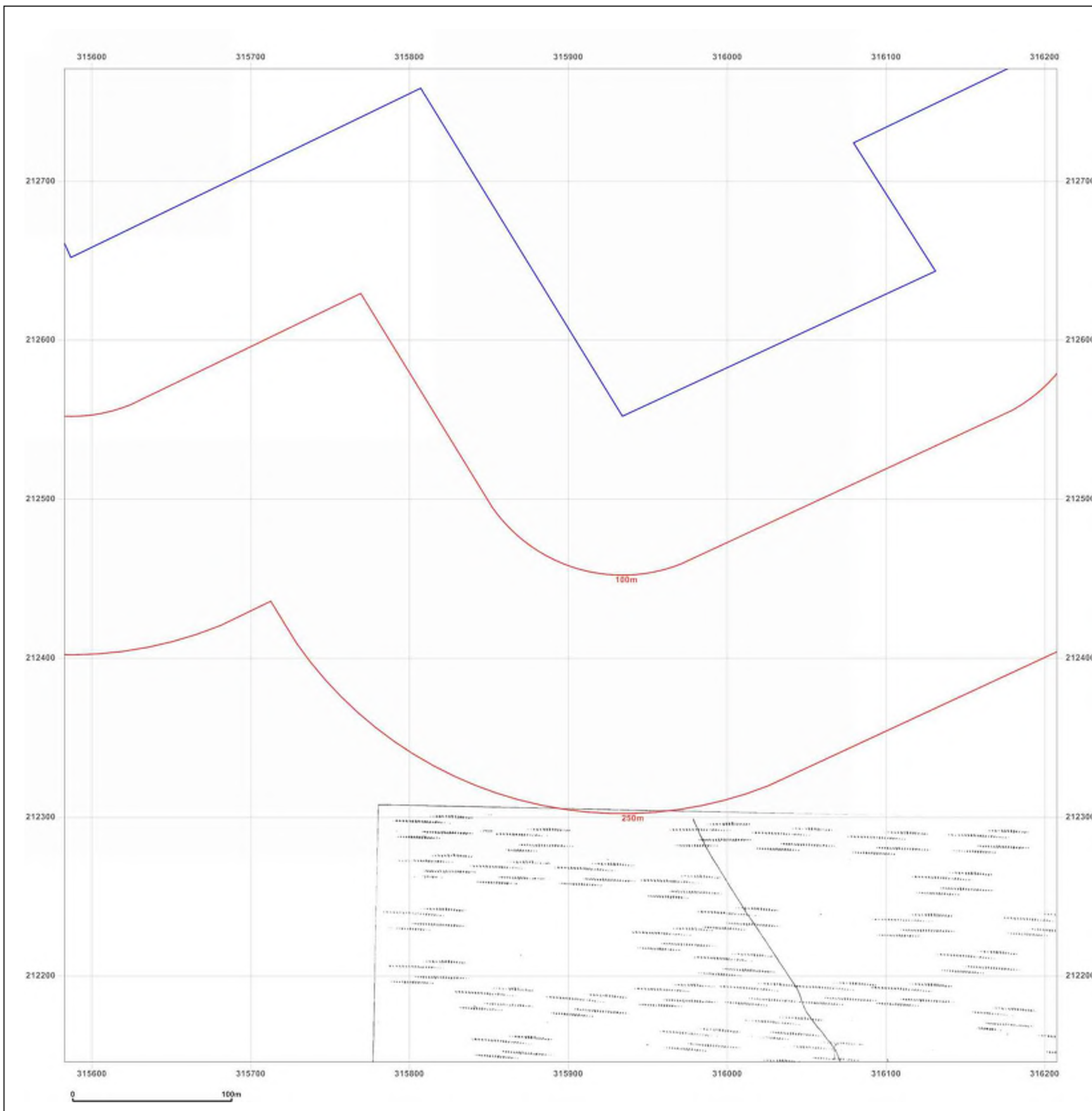


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: County Series

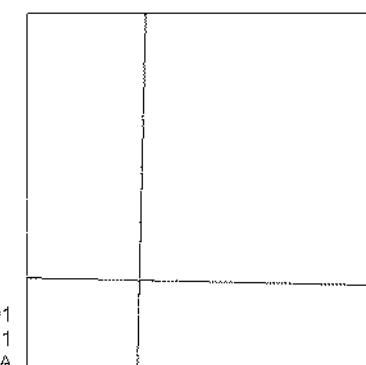
Map date: 1900-1901

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

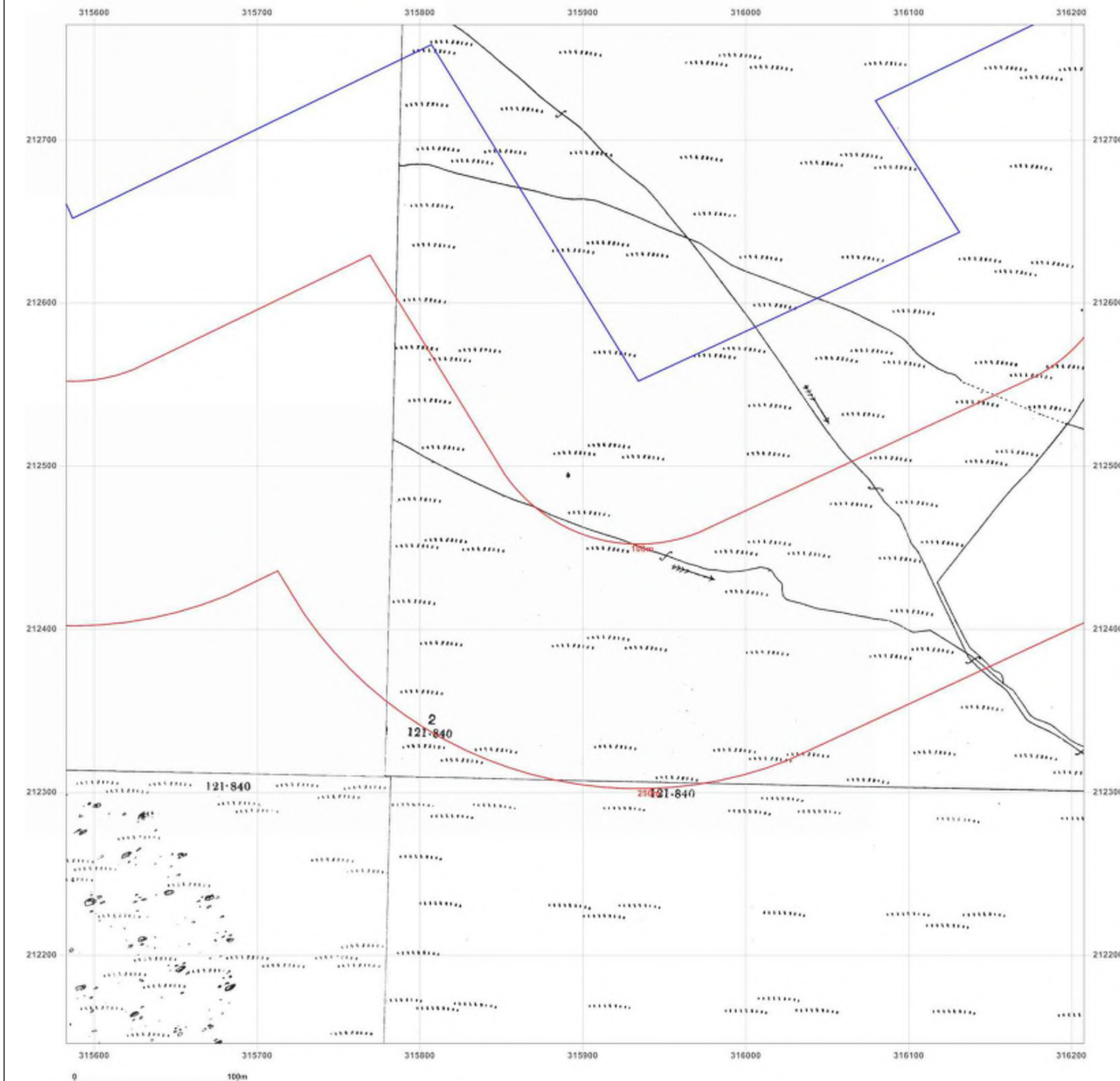


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: County Series

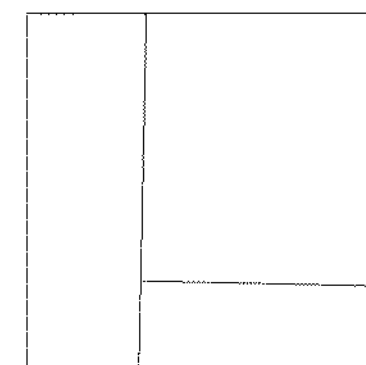
Map date: 1904

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

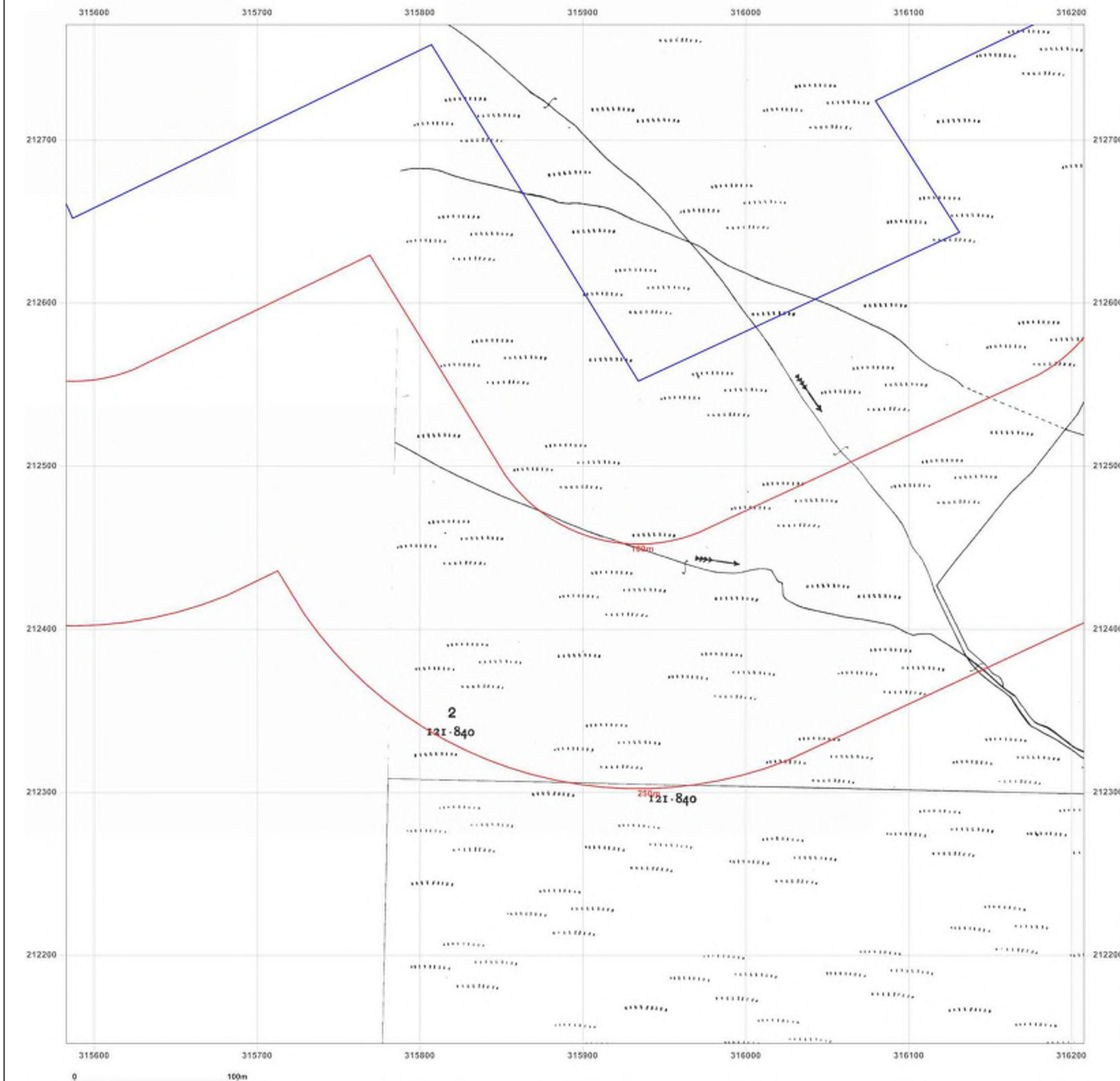


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: County Series

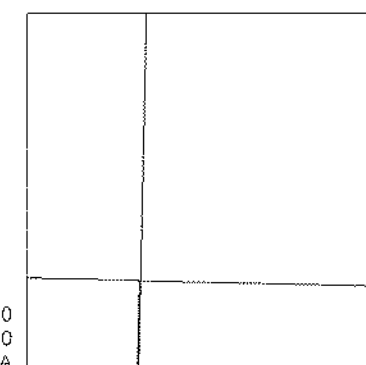
Map date: 1920

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

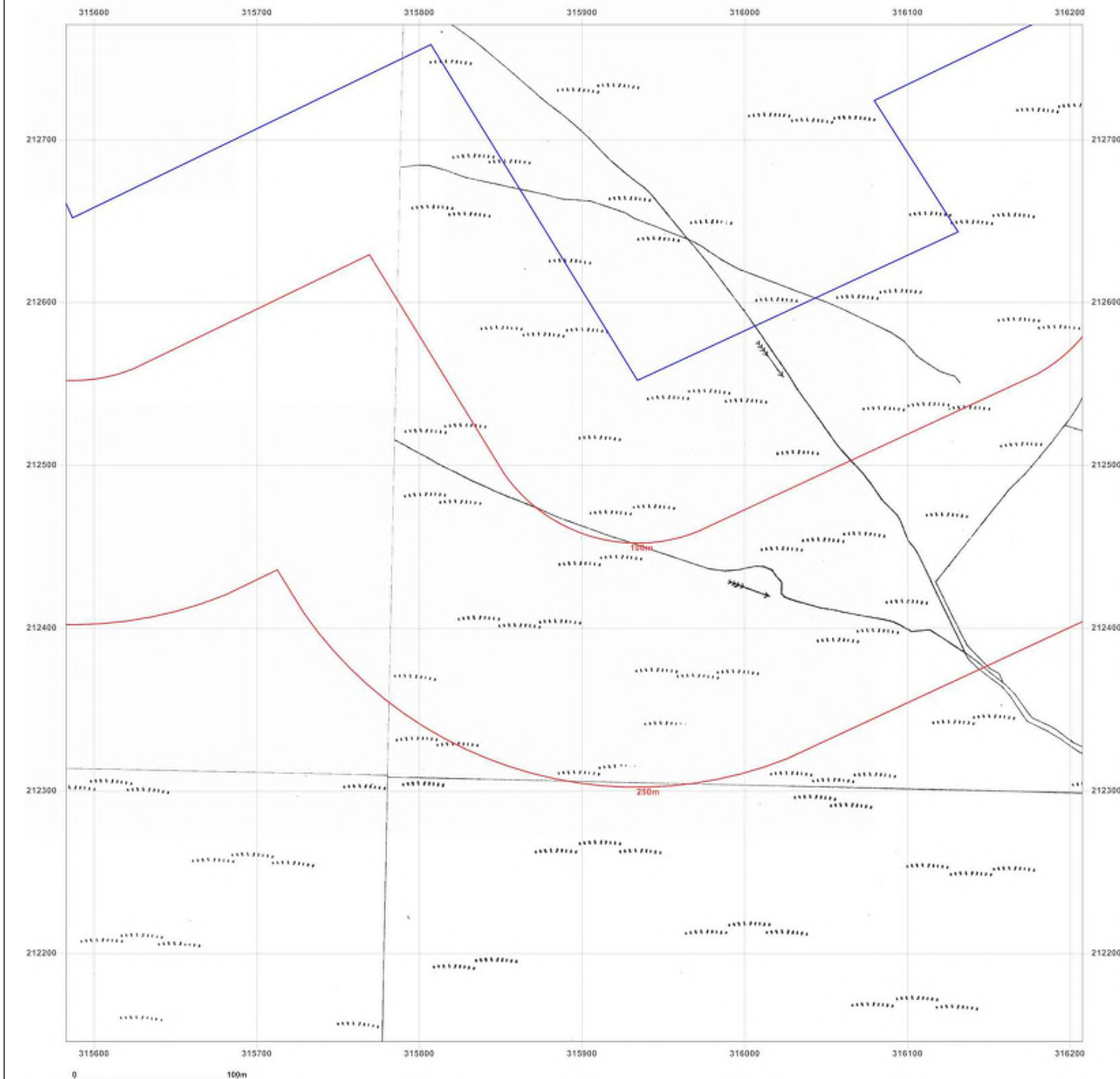


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

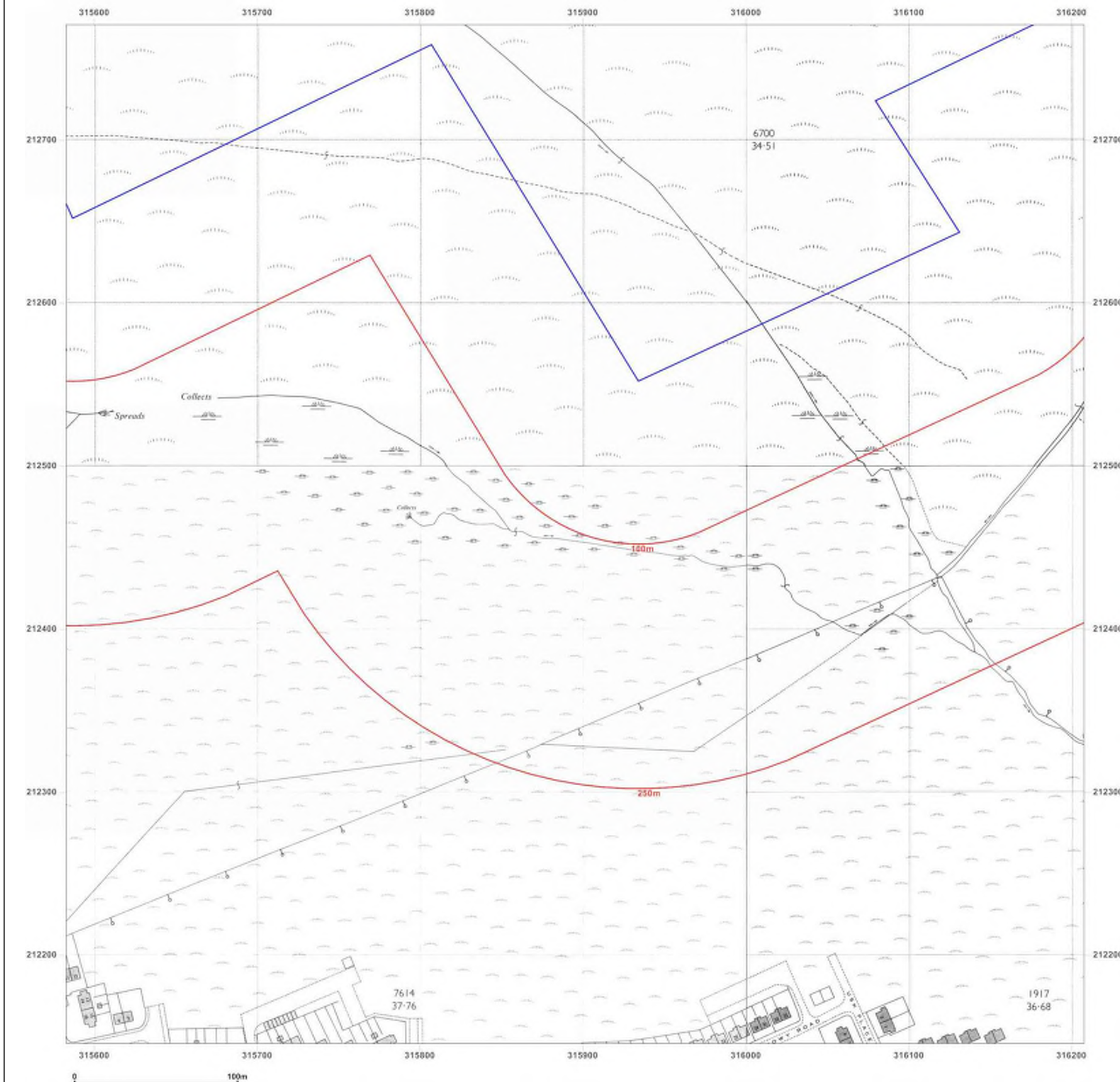


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

Map date: 1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

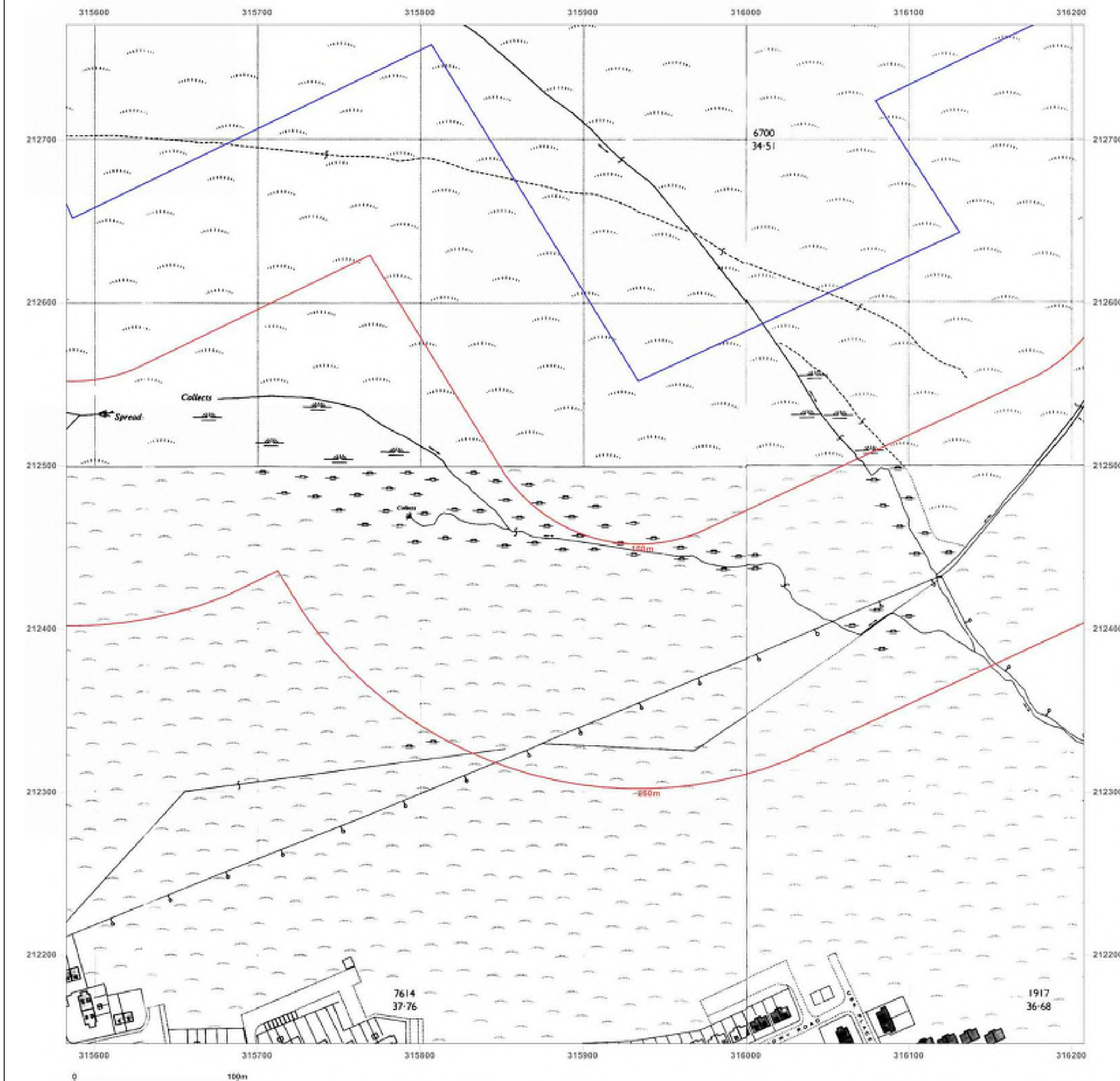


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

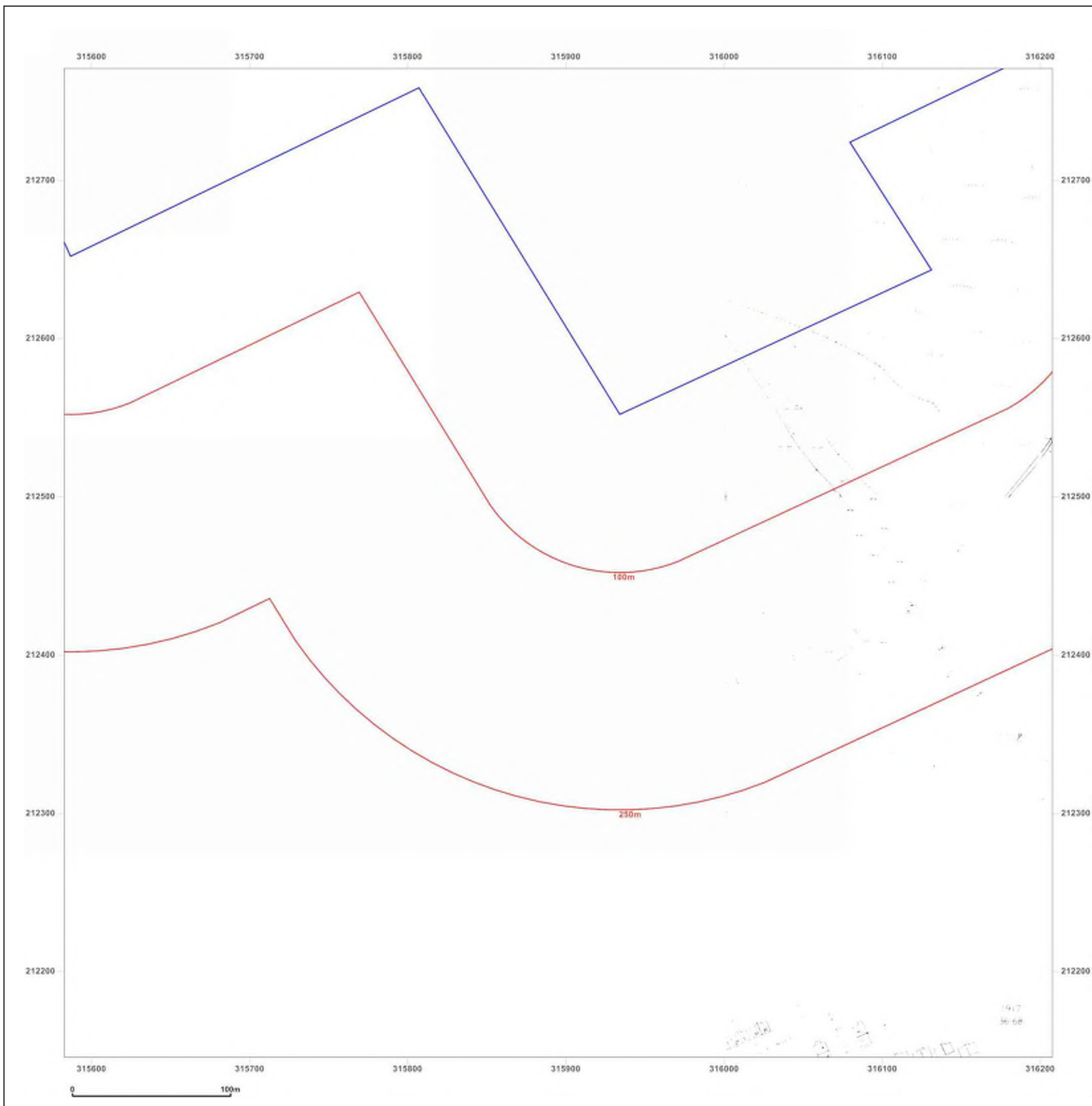


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

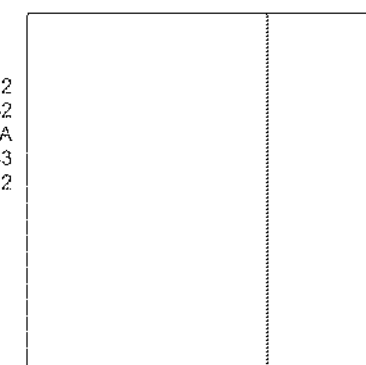
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Printed at: 1:2,500



Surveyed 1982
Revised 1982
Edition N/A
Copyright 1983
Levelled 1952

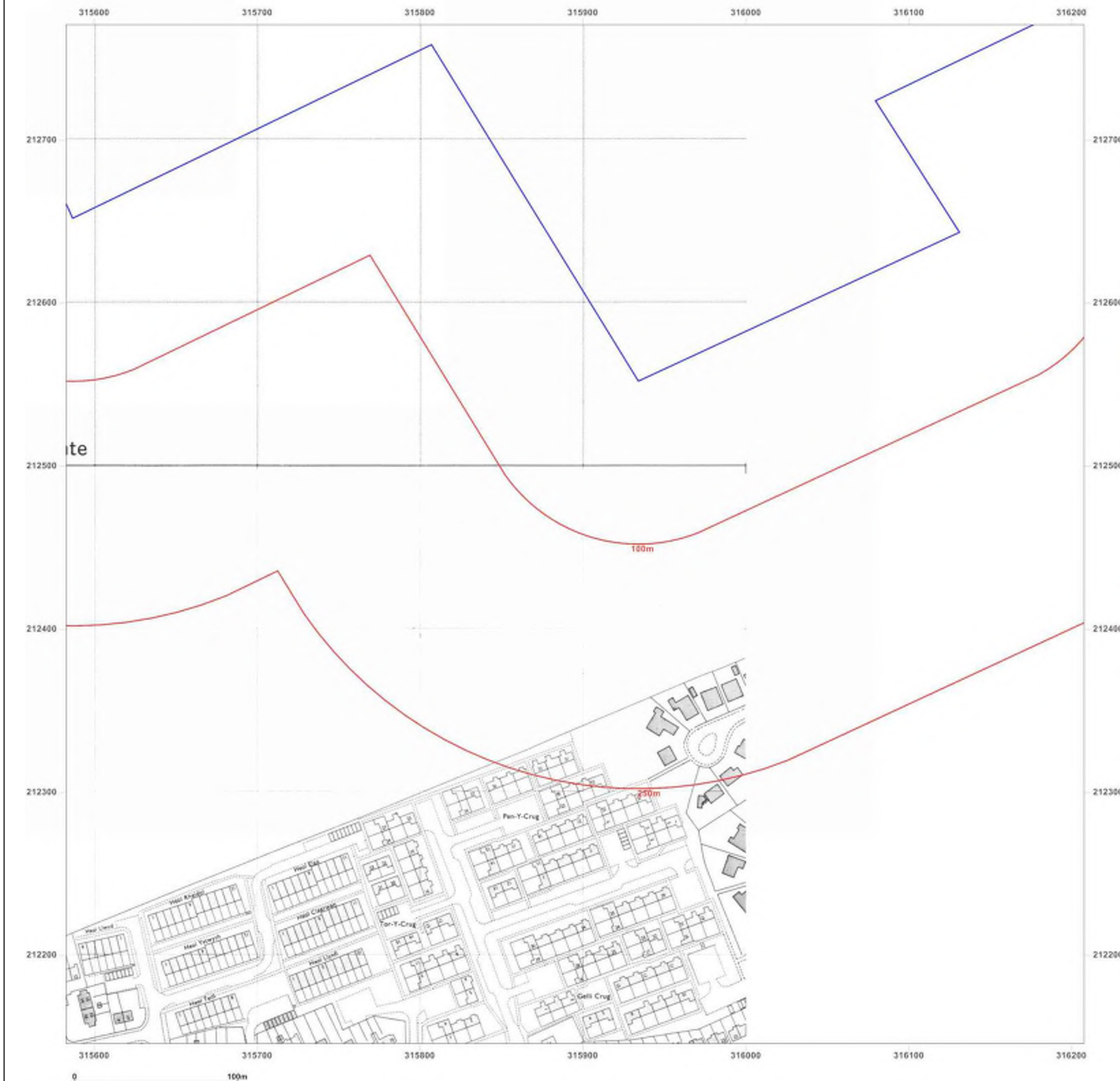


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

Map date: 1983

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

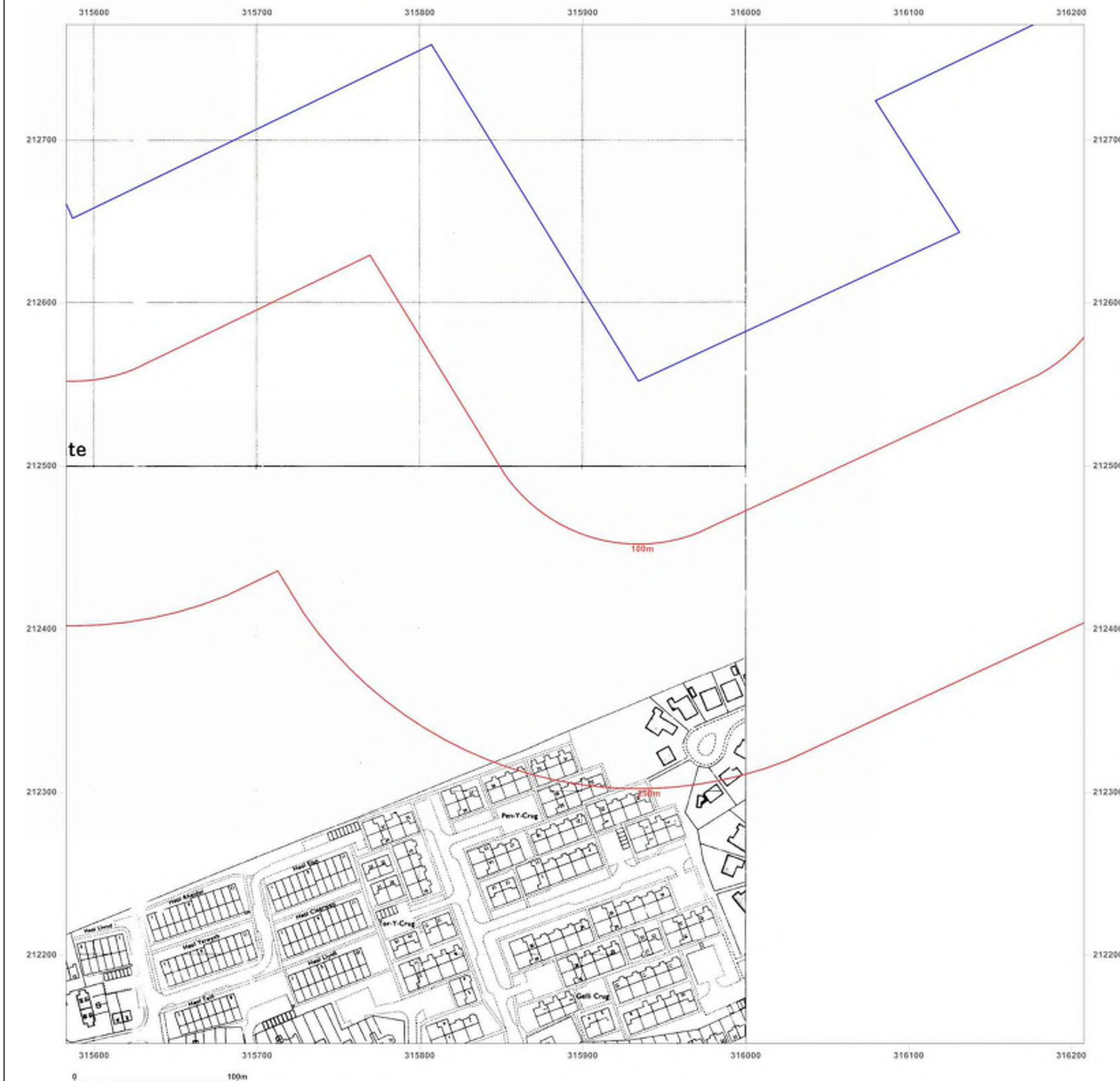


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

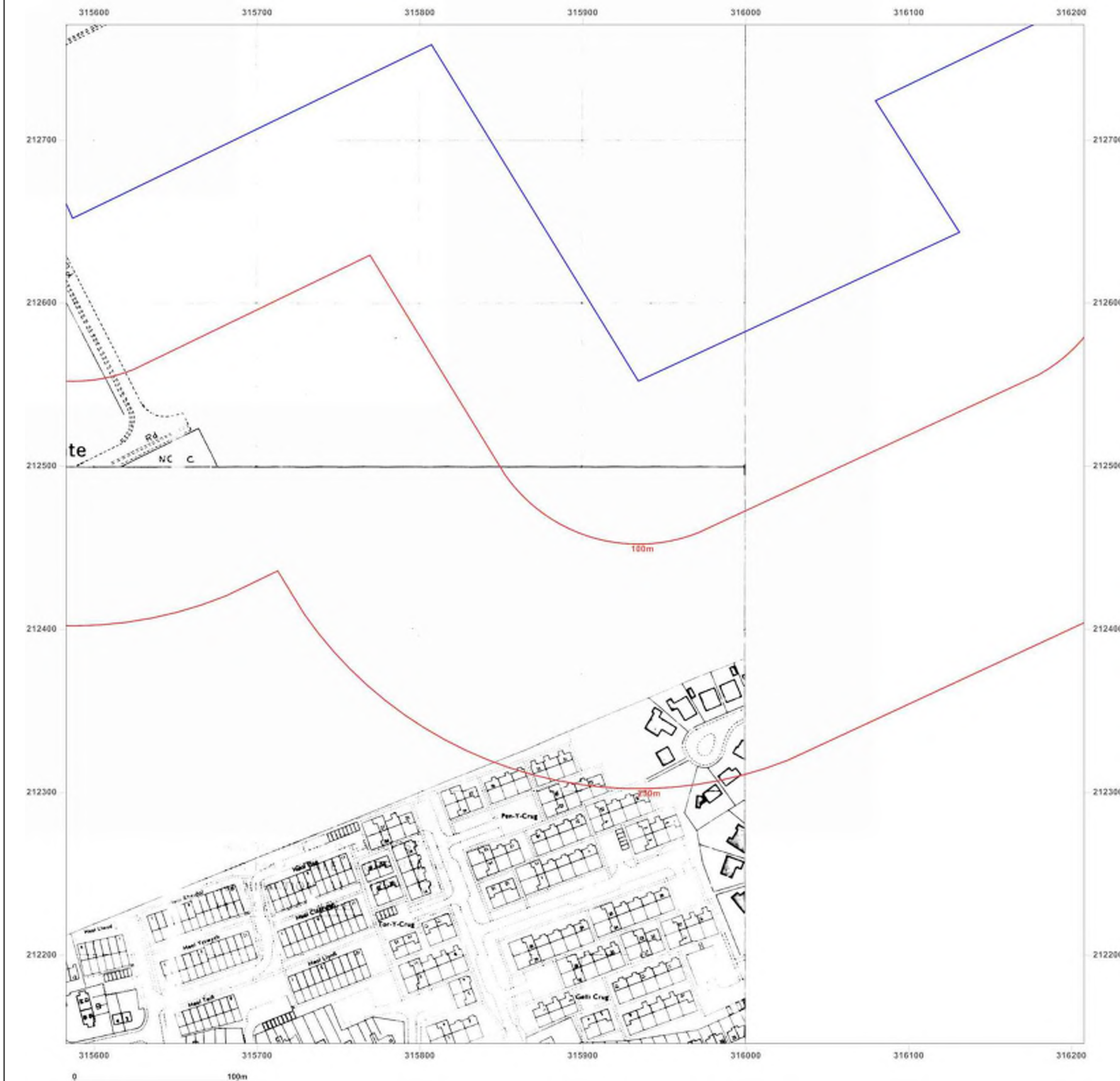


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1985
Revised 1985
Edition N/A
Copyright 1985
Levelled N/A

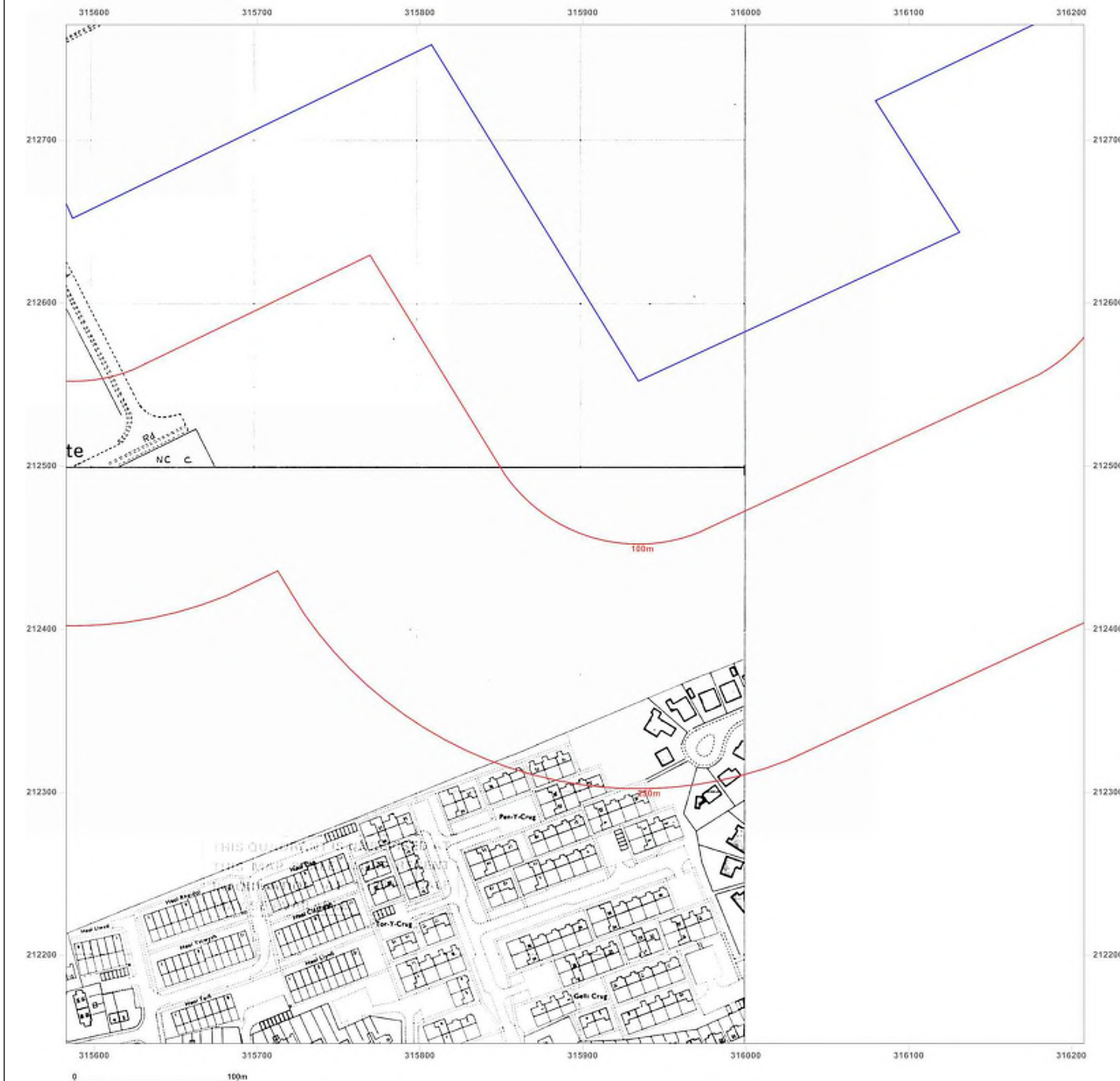


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_1
Grid Ref: 315895, 212458

Map Name: National Grid

Map date: 1991

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

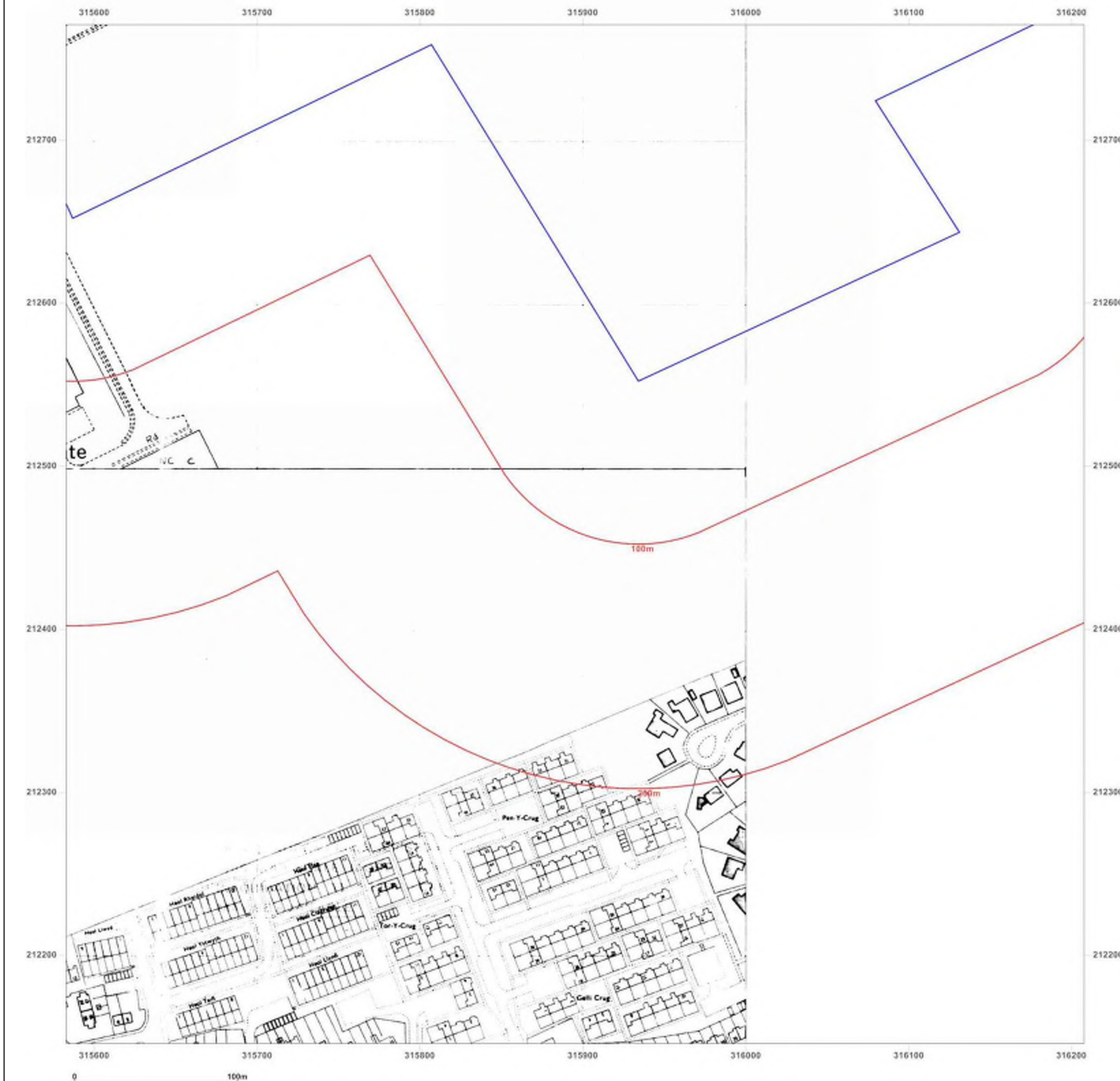


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

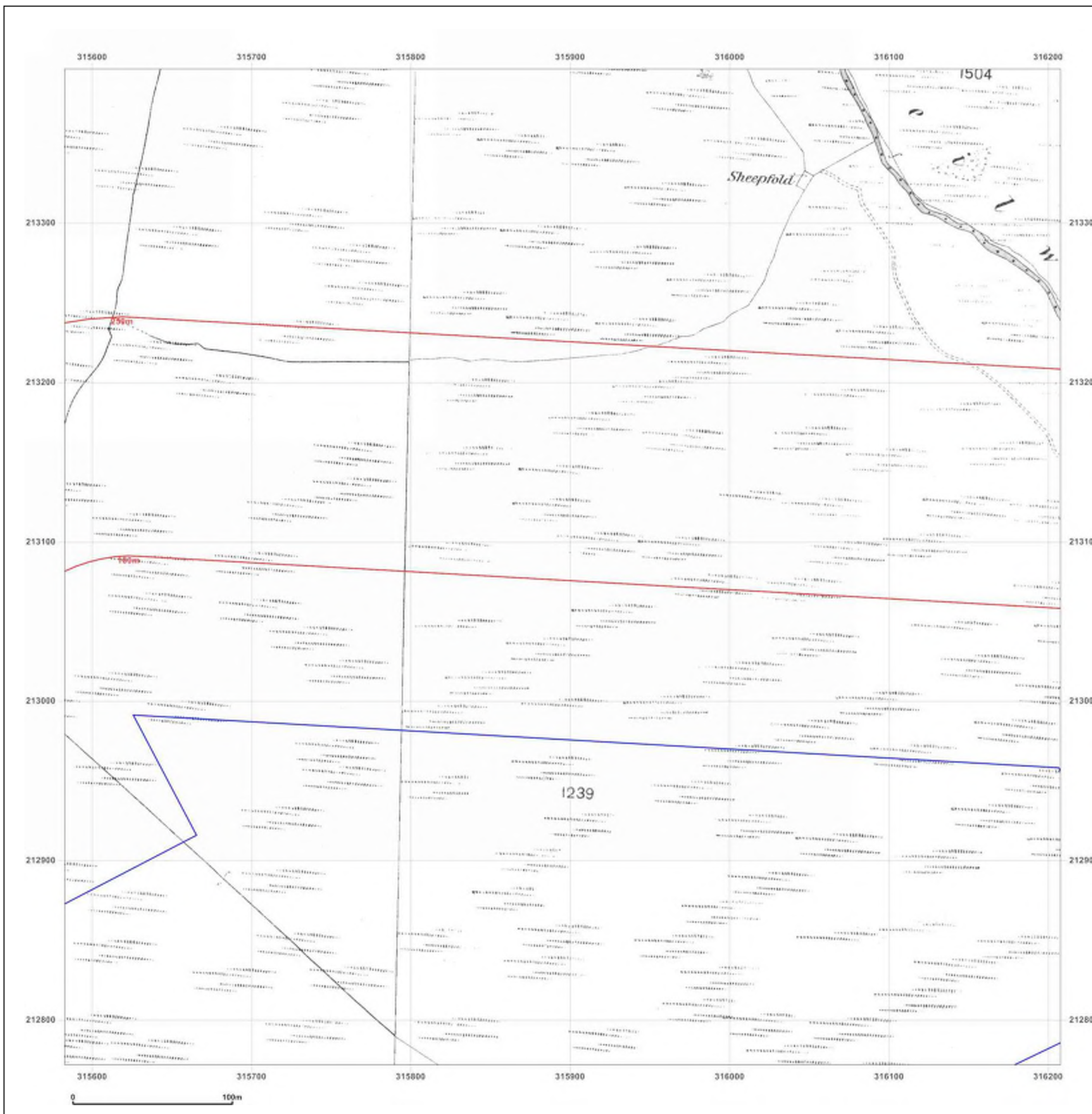


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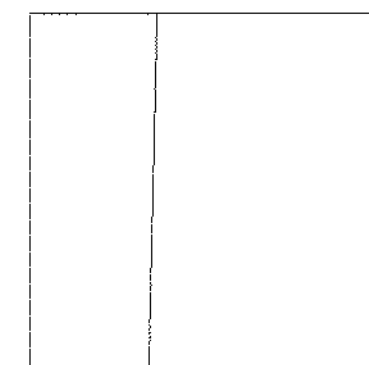
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Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: County Series

Map date: 1900

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

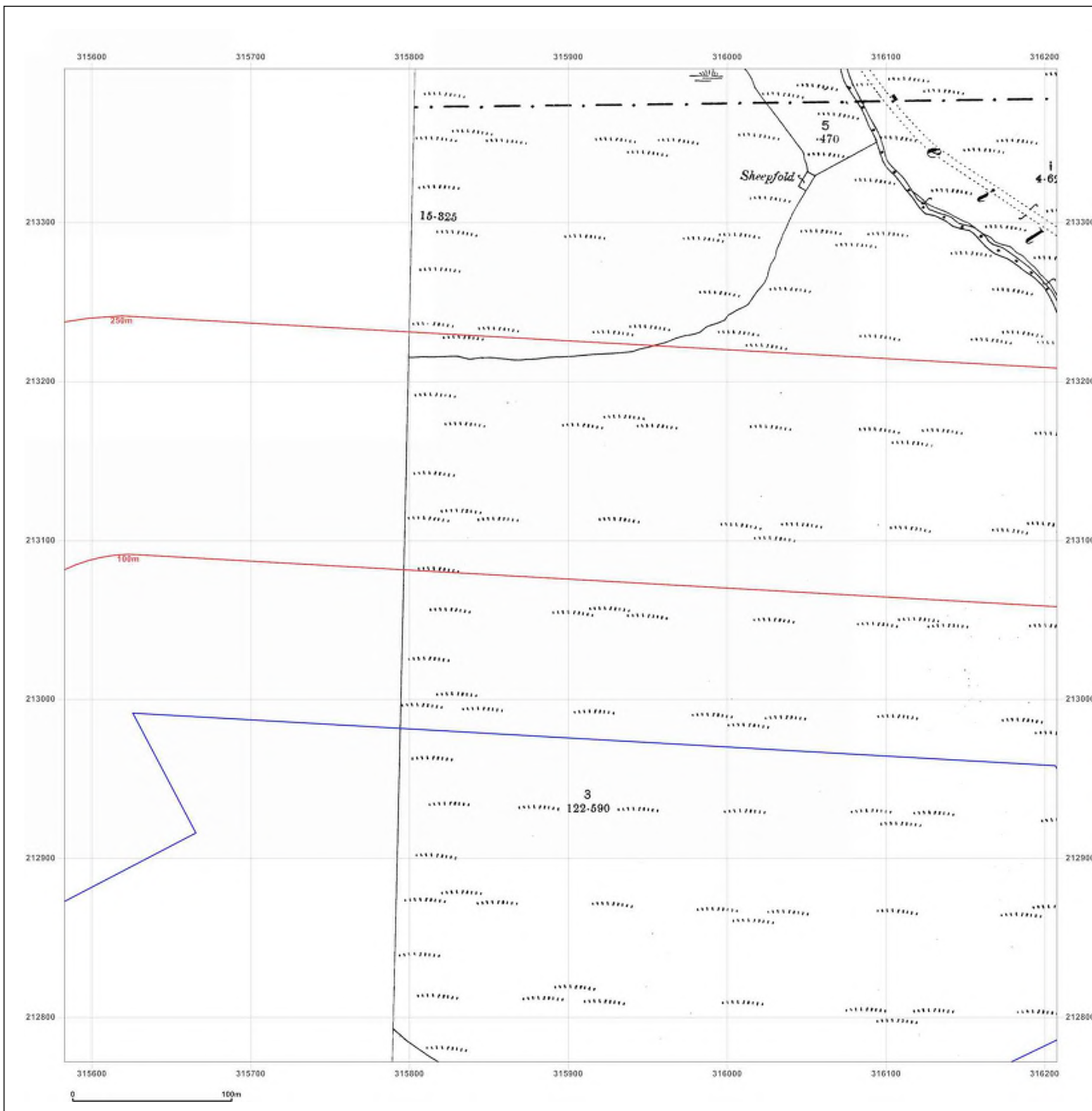


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VALE, NP23 5SD

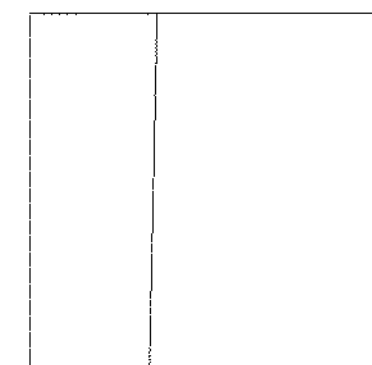
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Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: County Series

Map date: 1904

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

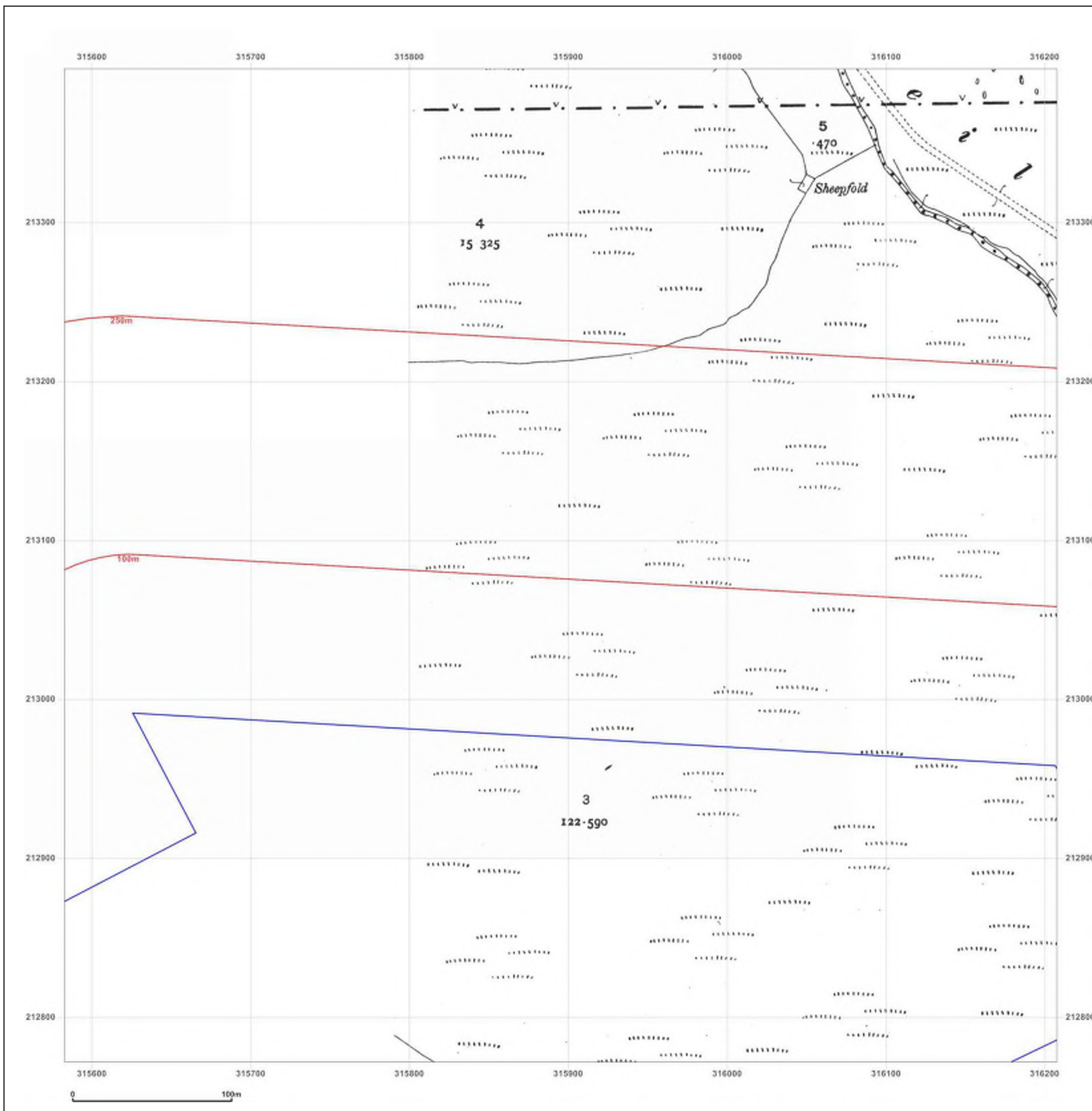


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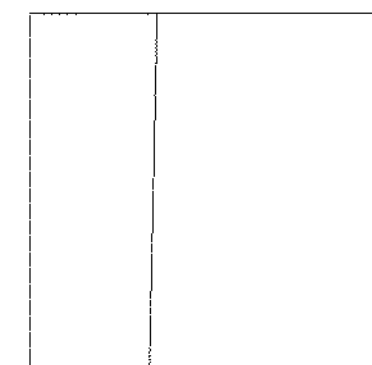
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Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: County Series

Map date: 1920

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

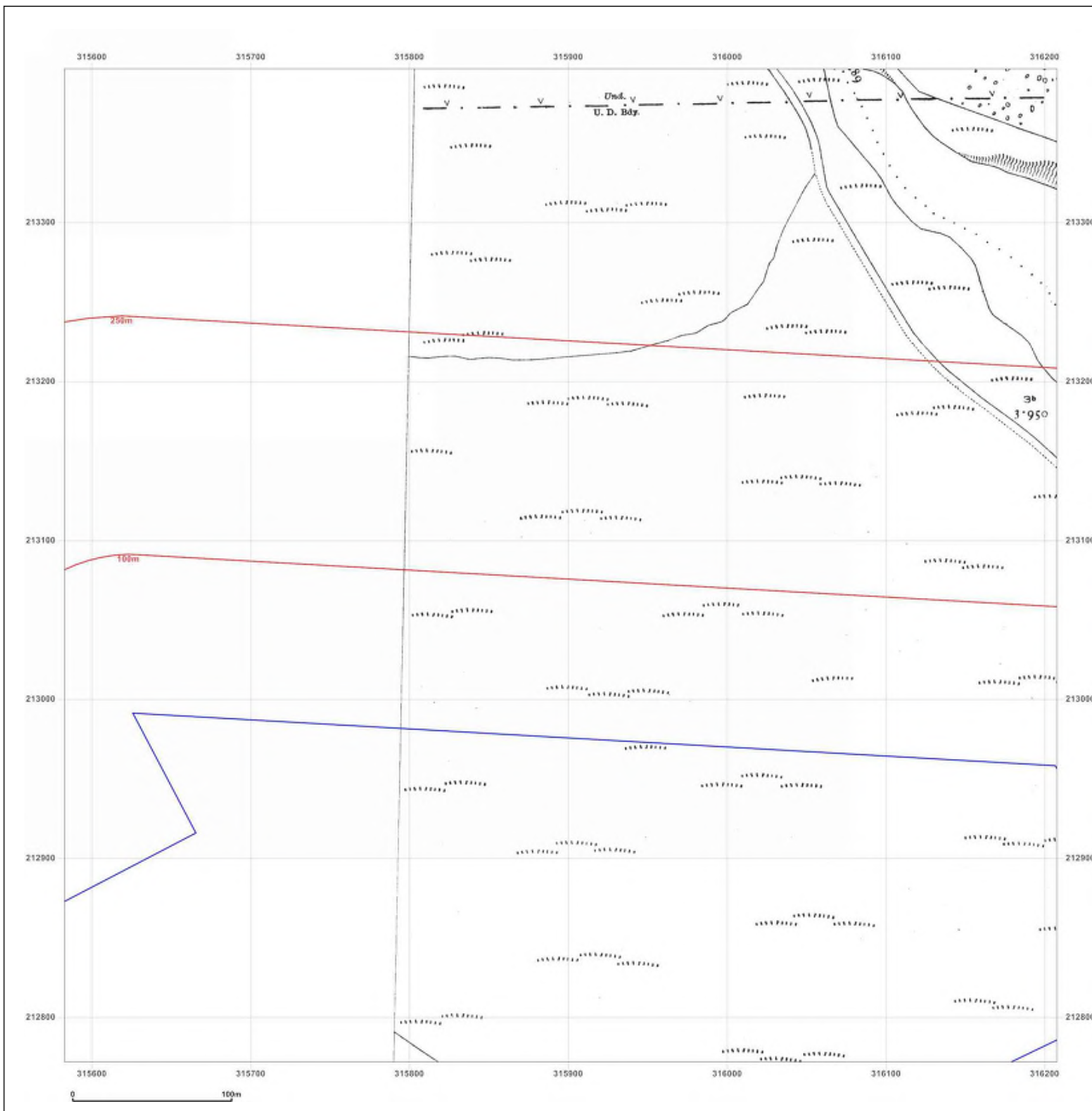


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Site Details:

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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1964-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled 1952

Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled 1952

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

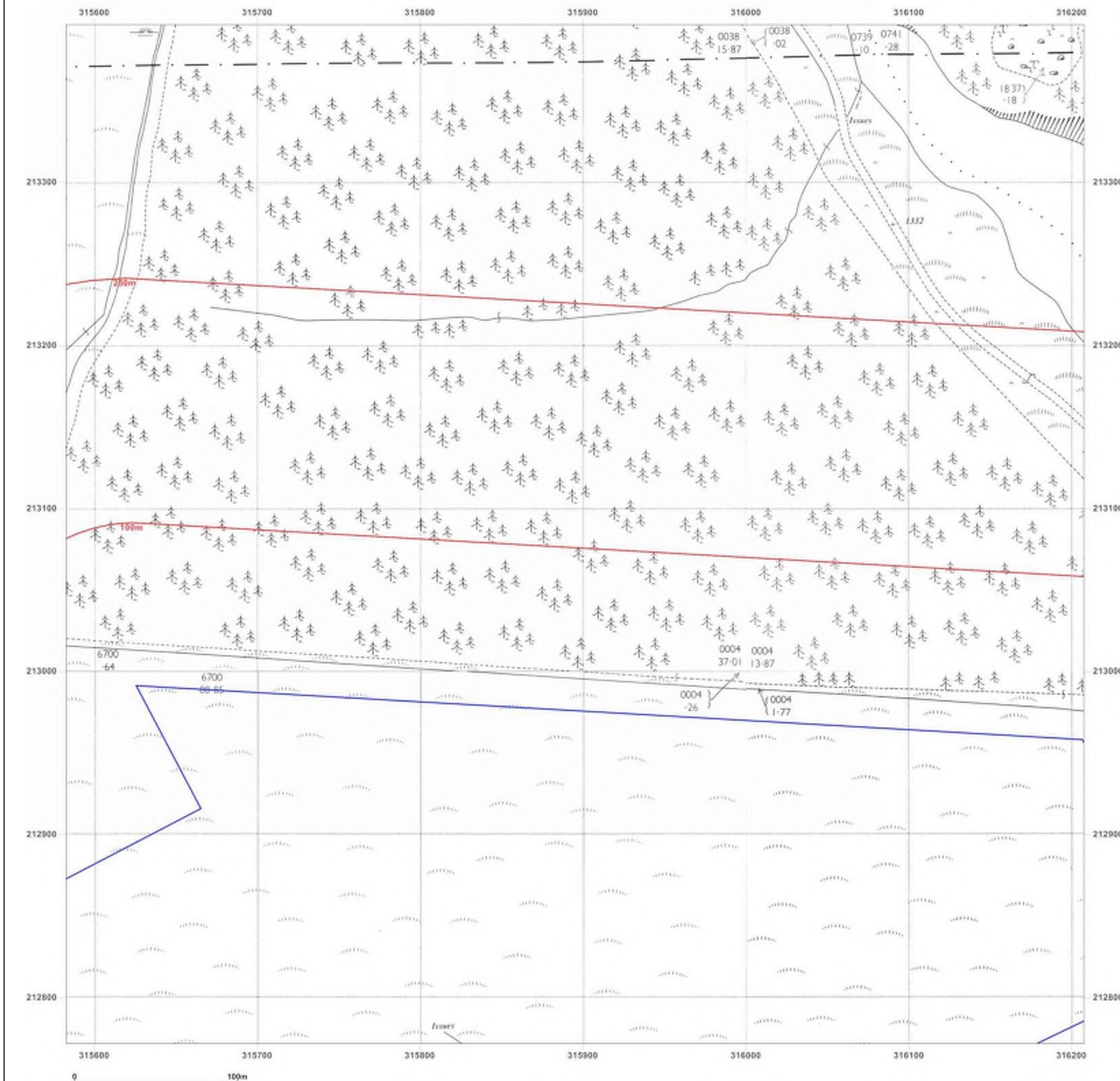


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Site Details:

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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1965-1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
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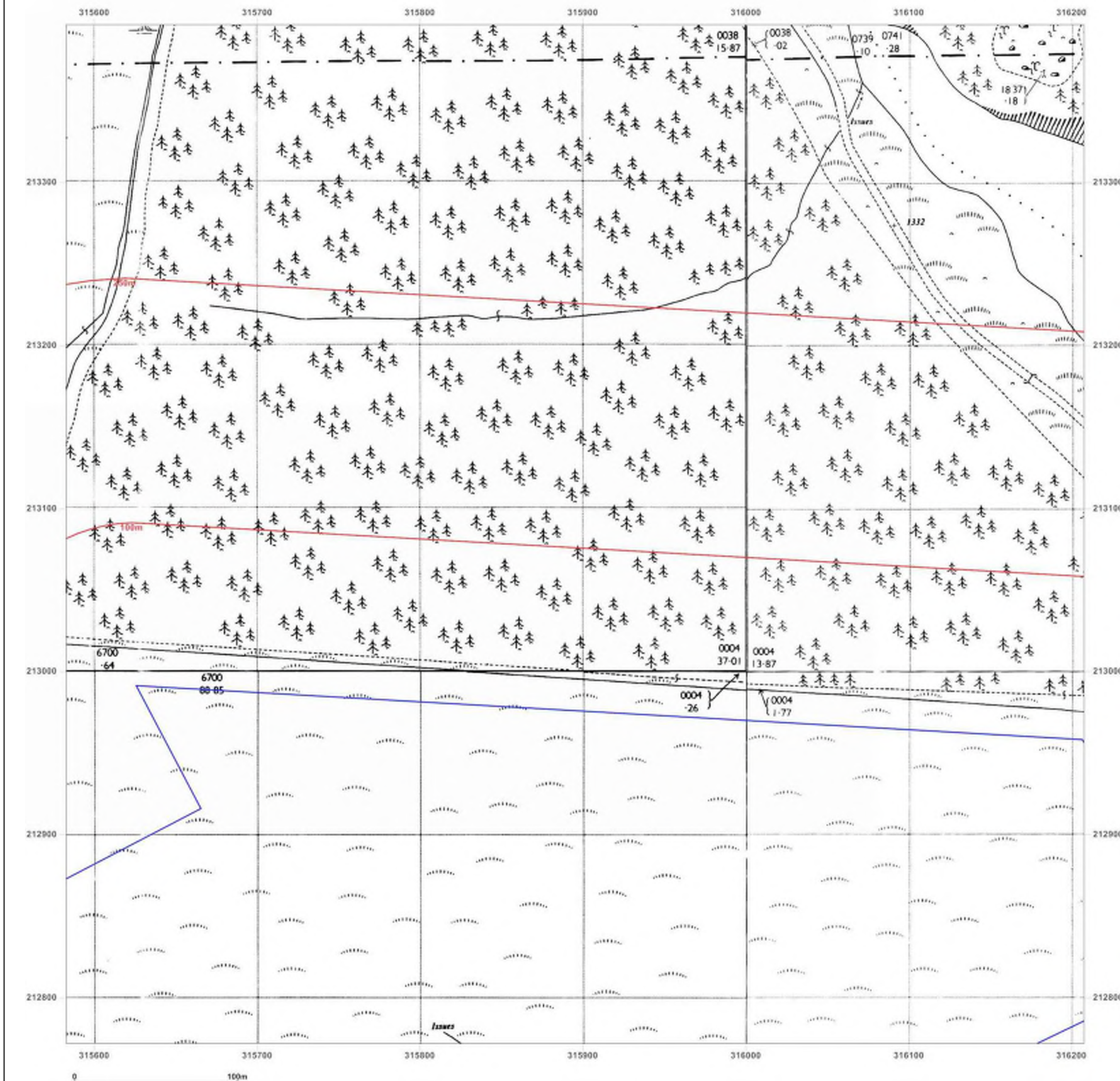


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1974

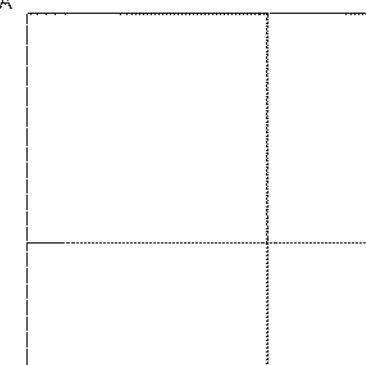
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
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Surveyed N/A
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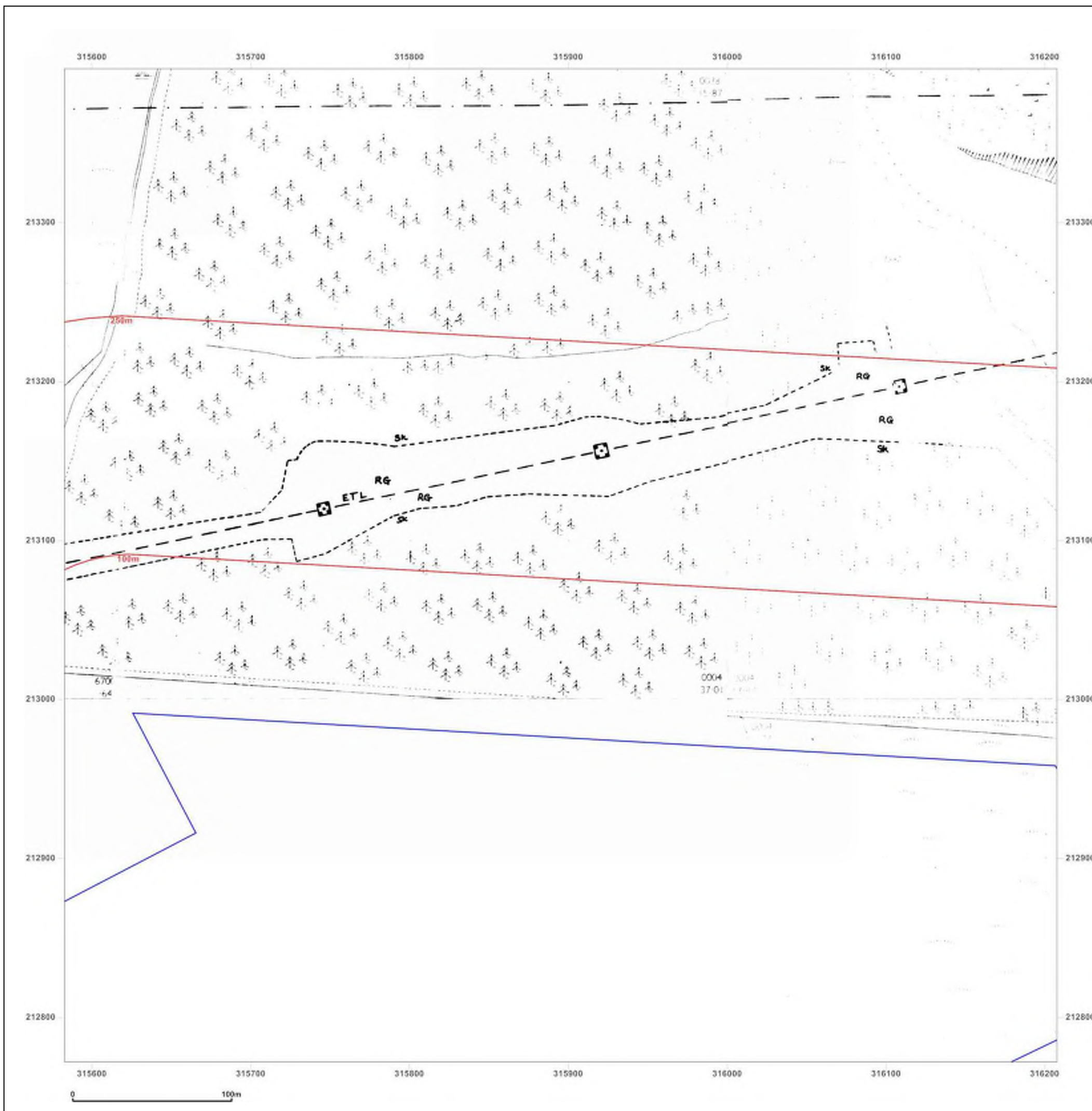


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

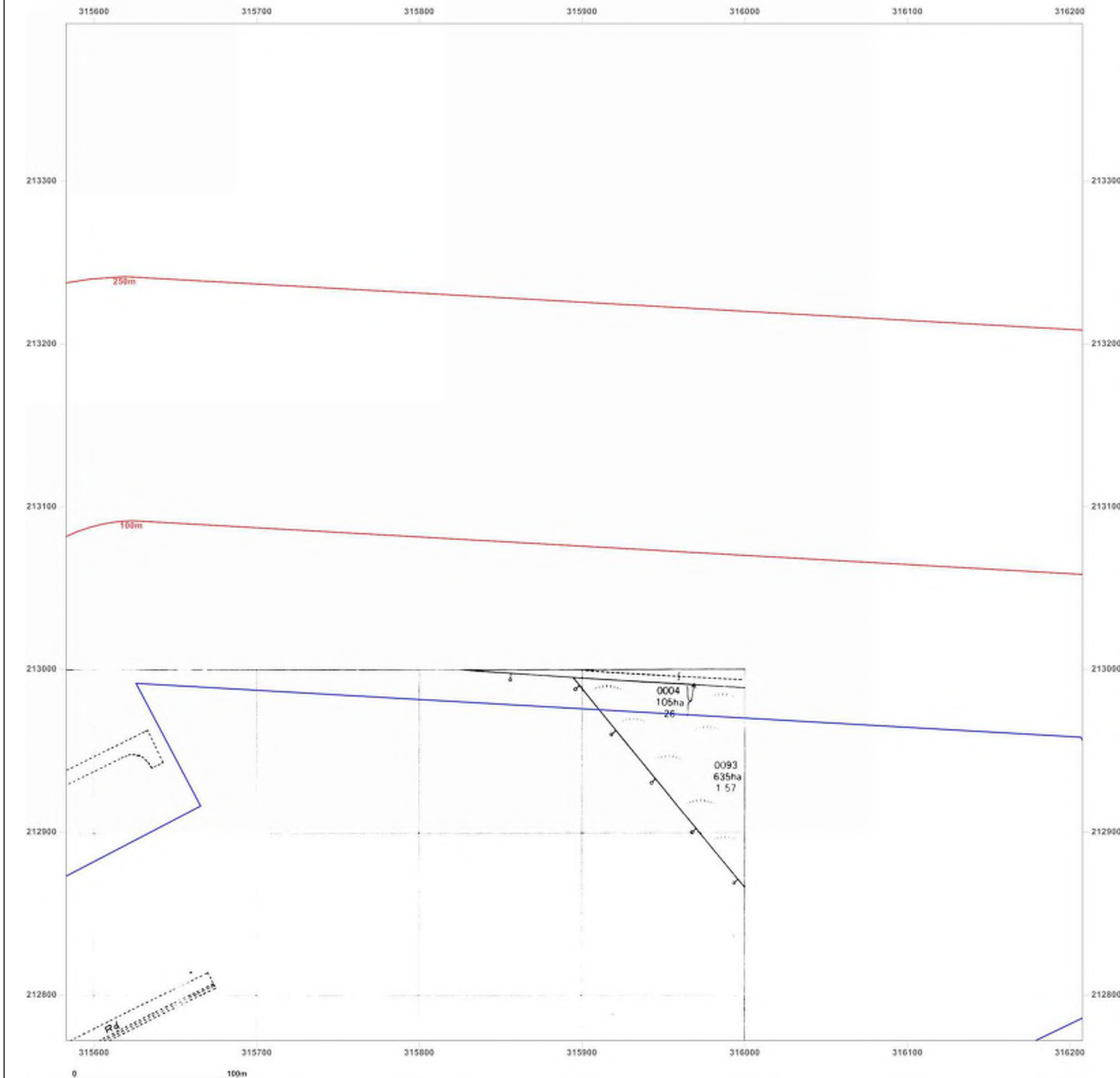


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Site Details:

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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1985

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1985
Revised 1985
Edition N/A
Copyright 1985
Levelled N/A

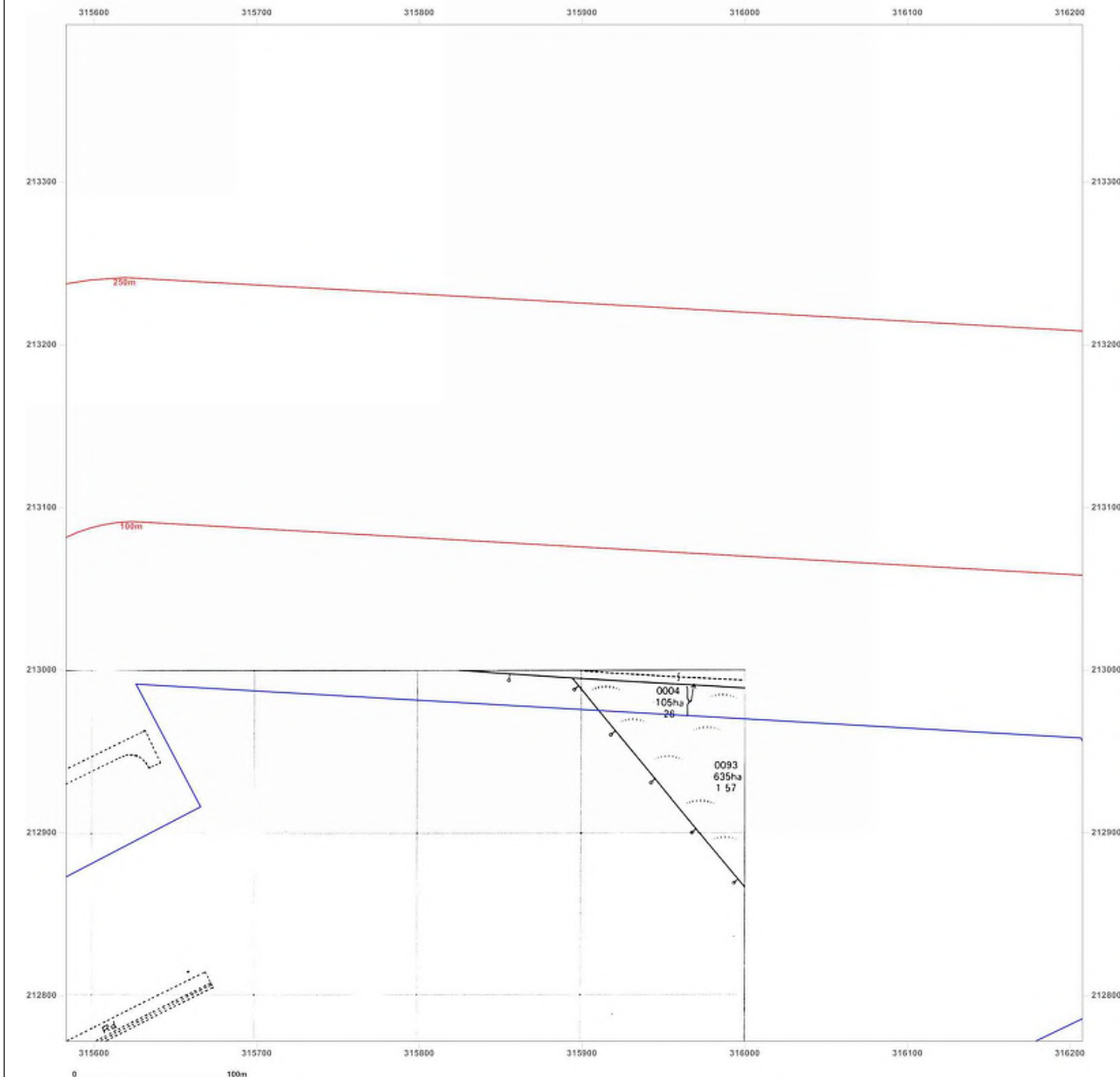


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1982-1987

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1982
Revised 1982
Edition N/A
Copyright 1983
Levelled 1952

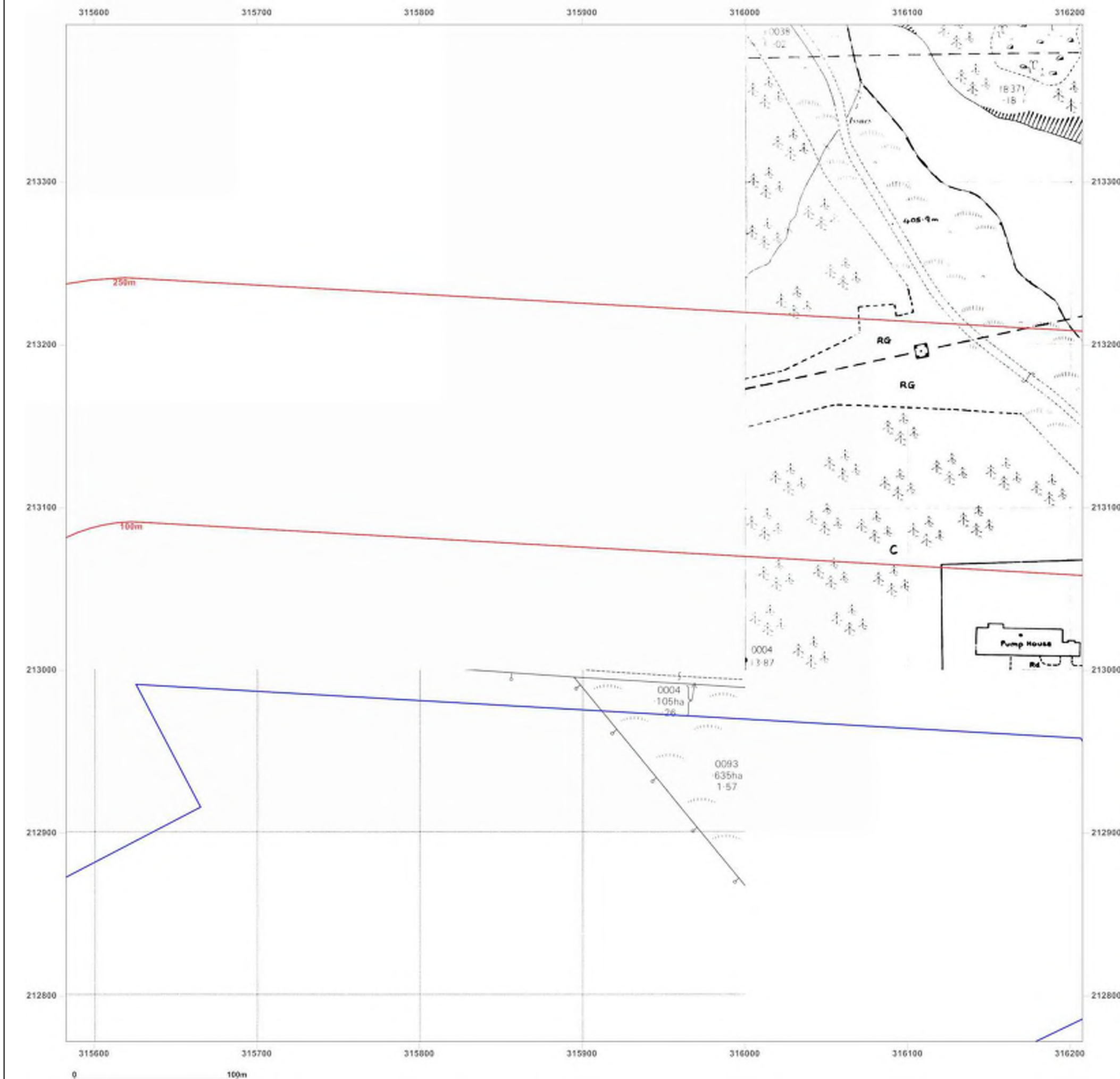


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1983-1987

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1952
Revised 1987
Edition N/A
Copyright 1987
Levelled 1952

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

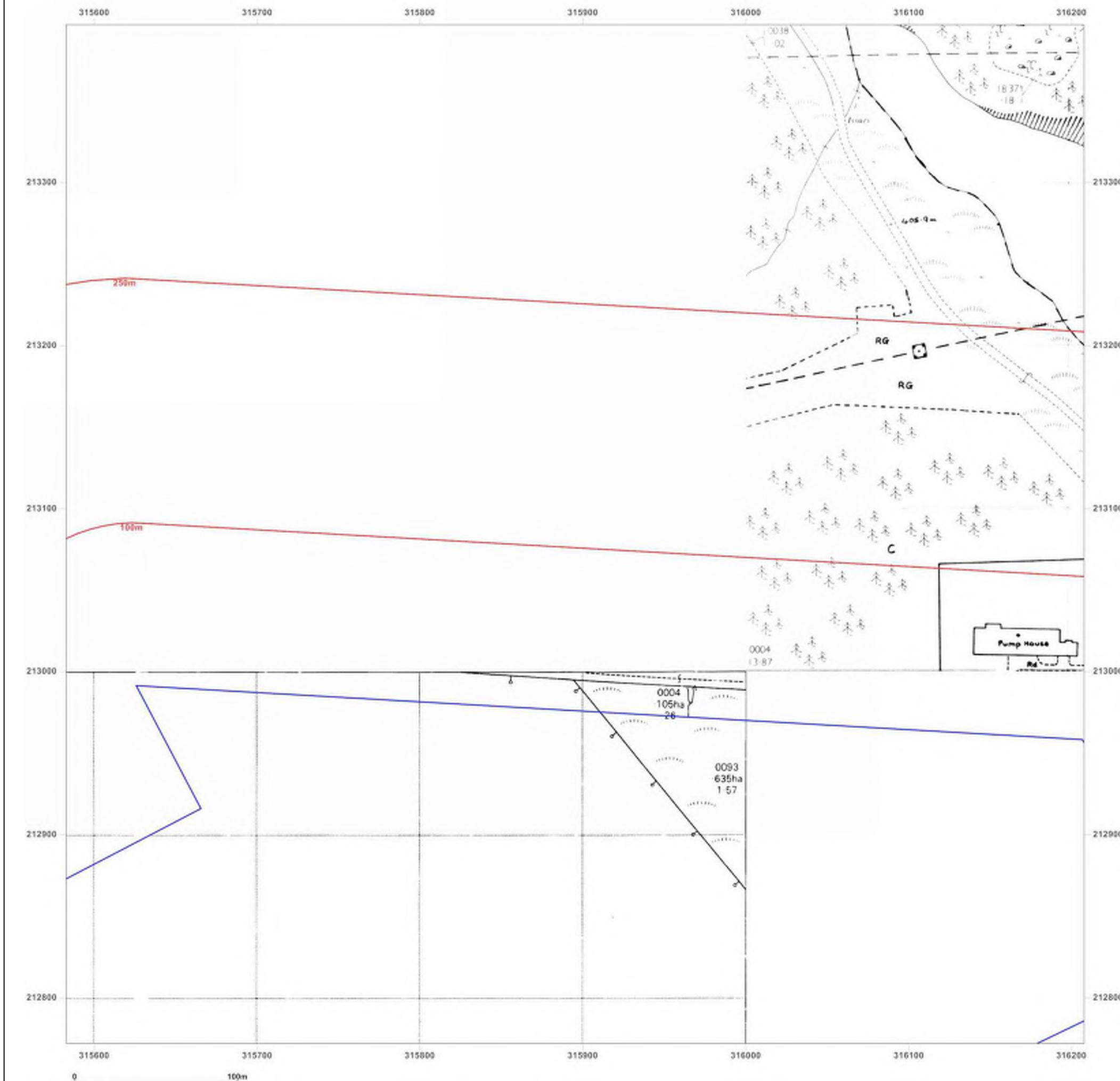


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

Map date: 1991-1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

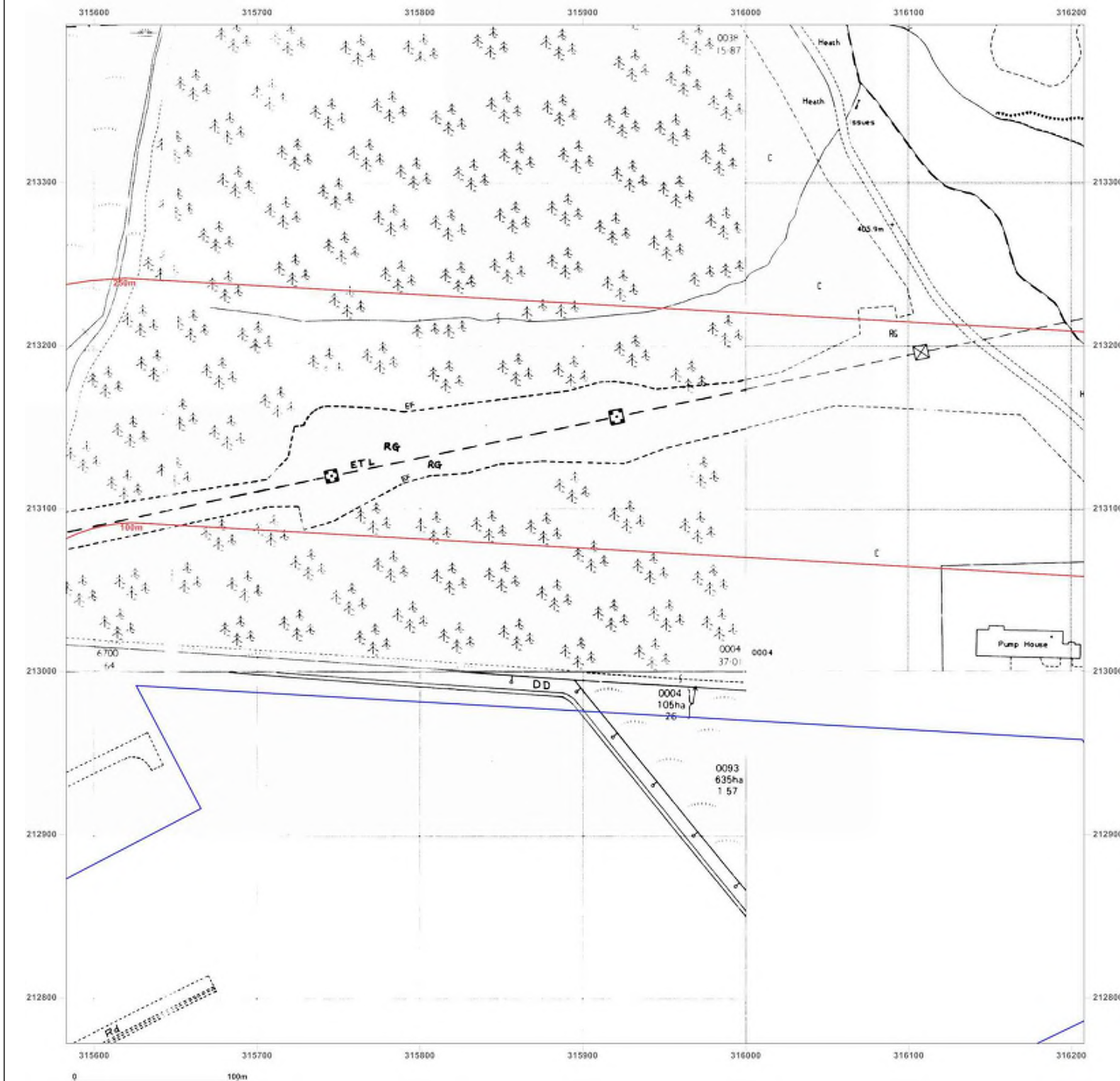


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_2_2
Grid Ref: 315895, 213084

Map Name: National Grid

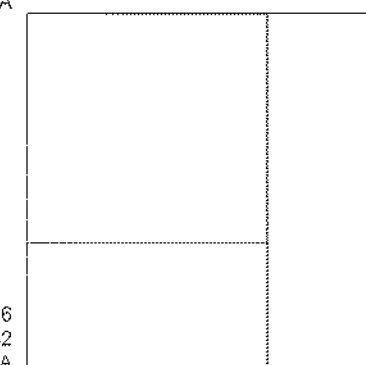
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Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A



Surveyed 1966
Revised 1982
Edition N/A
Copyright 1991
Levelled 1952

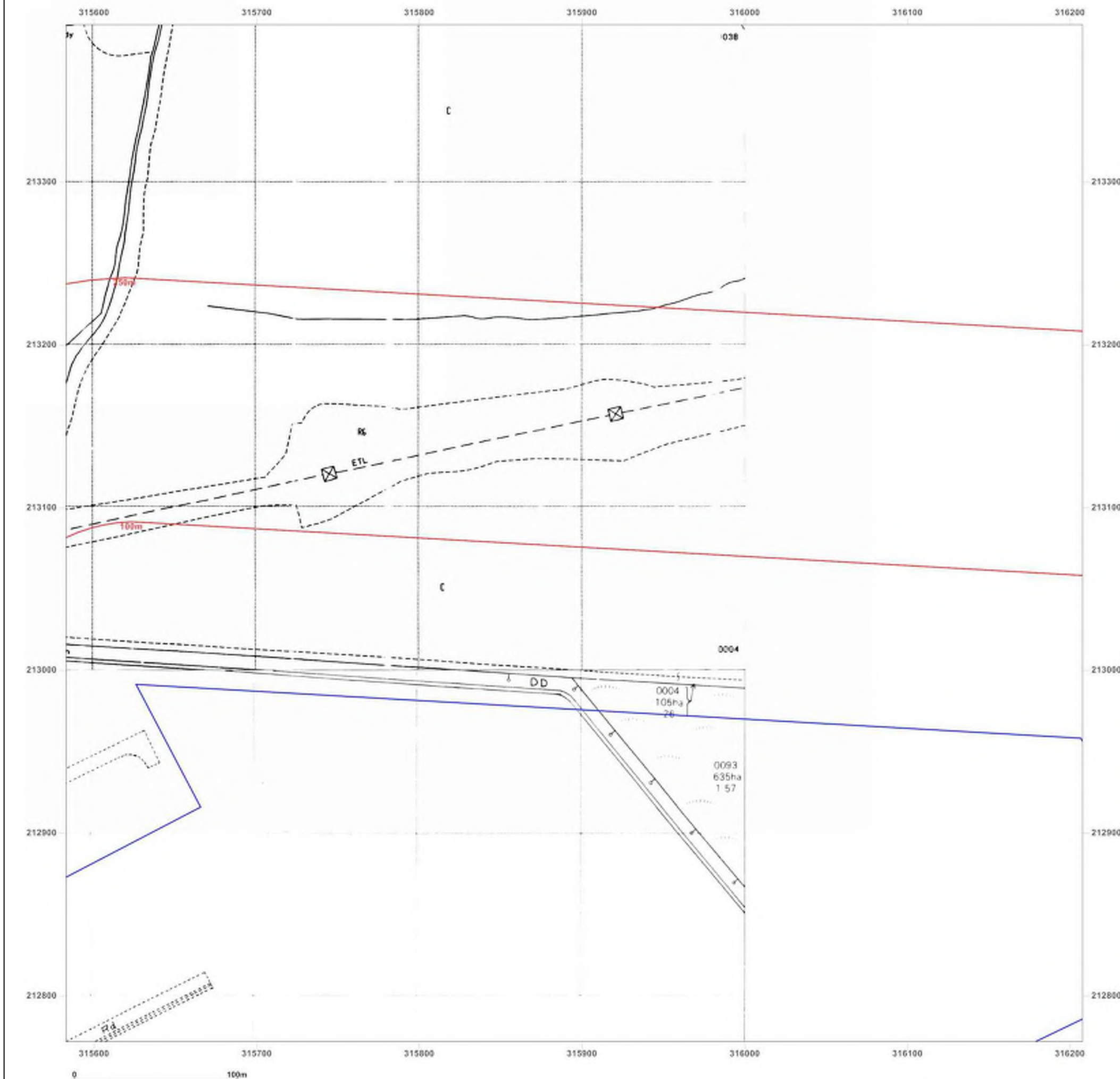


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_1
Grid Ref: 316520, 212458

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1856
Revised N/A
Edition 1880
Copyright N/A
Levelled N/A

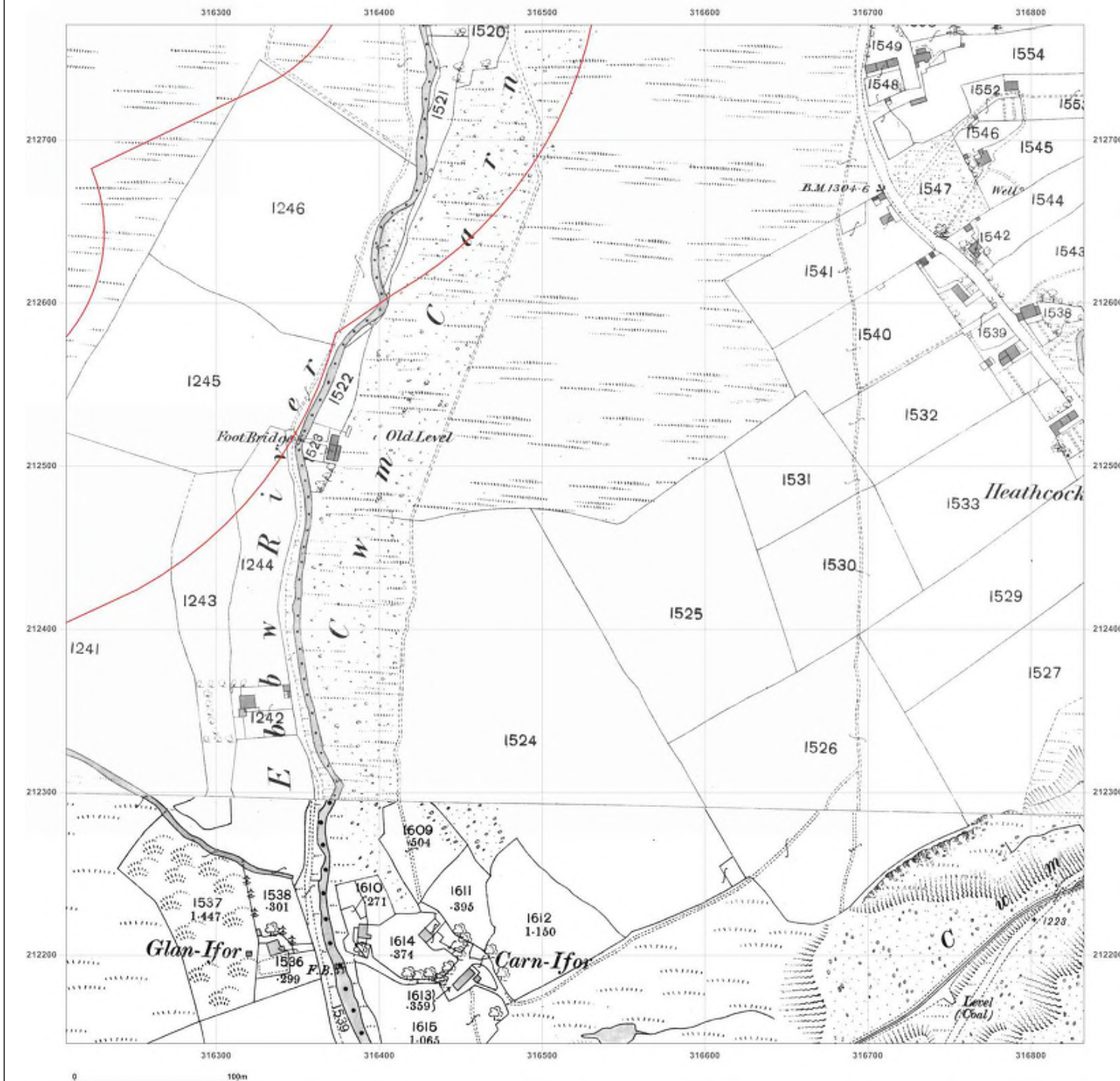


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Site Details:

RASSAU IND EST MAIN SPINE
ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_1
Grid Ref: 316520, 212458

Map Name: County Series

Map date: 1900

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

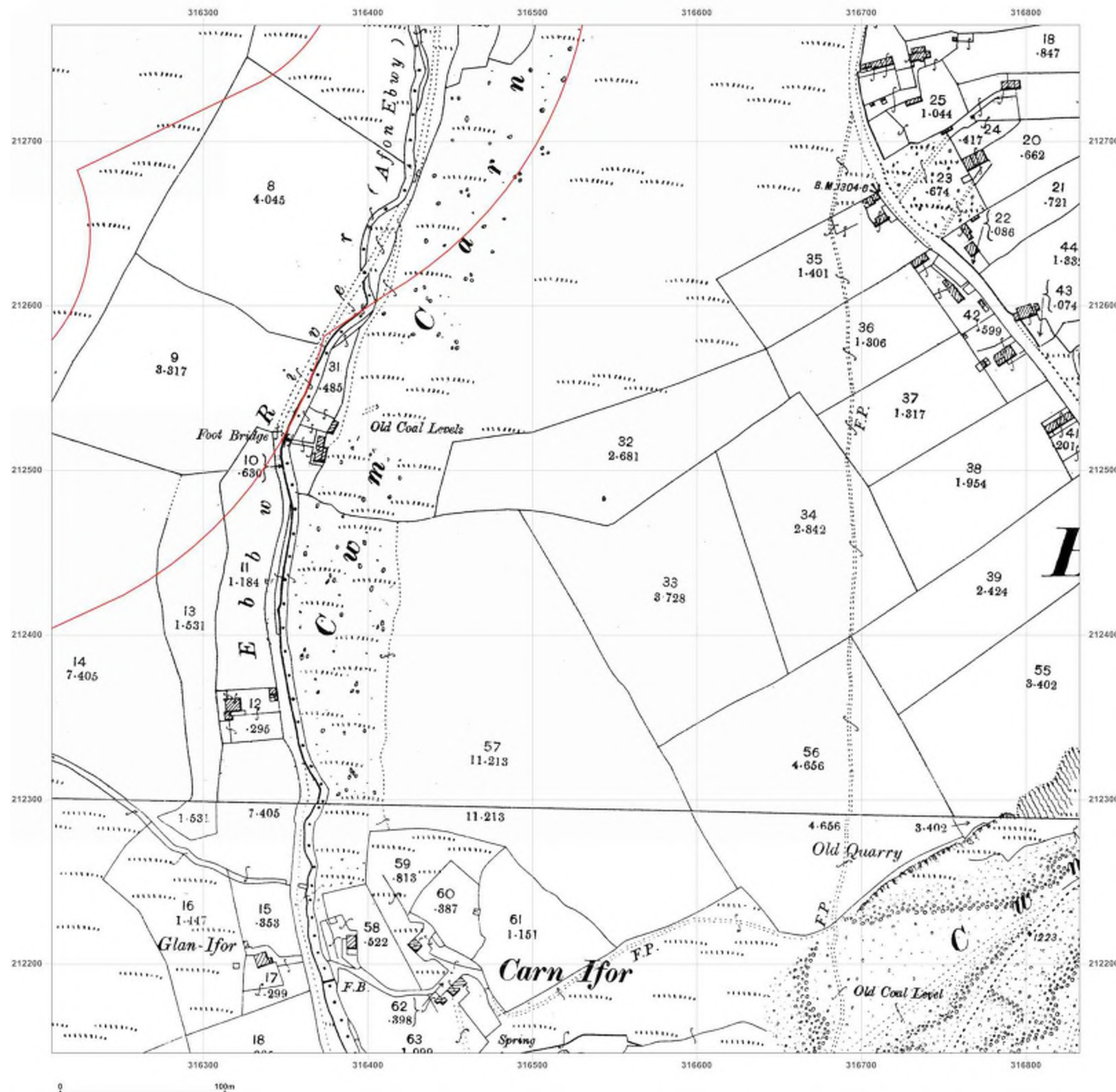


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Site Details:

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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_1
Grid Ref: 316520, 212458

Map Name: County Series

Map date: 1904

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1904
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

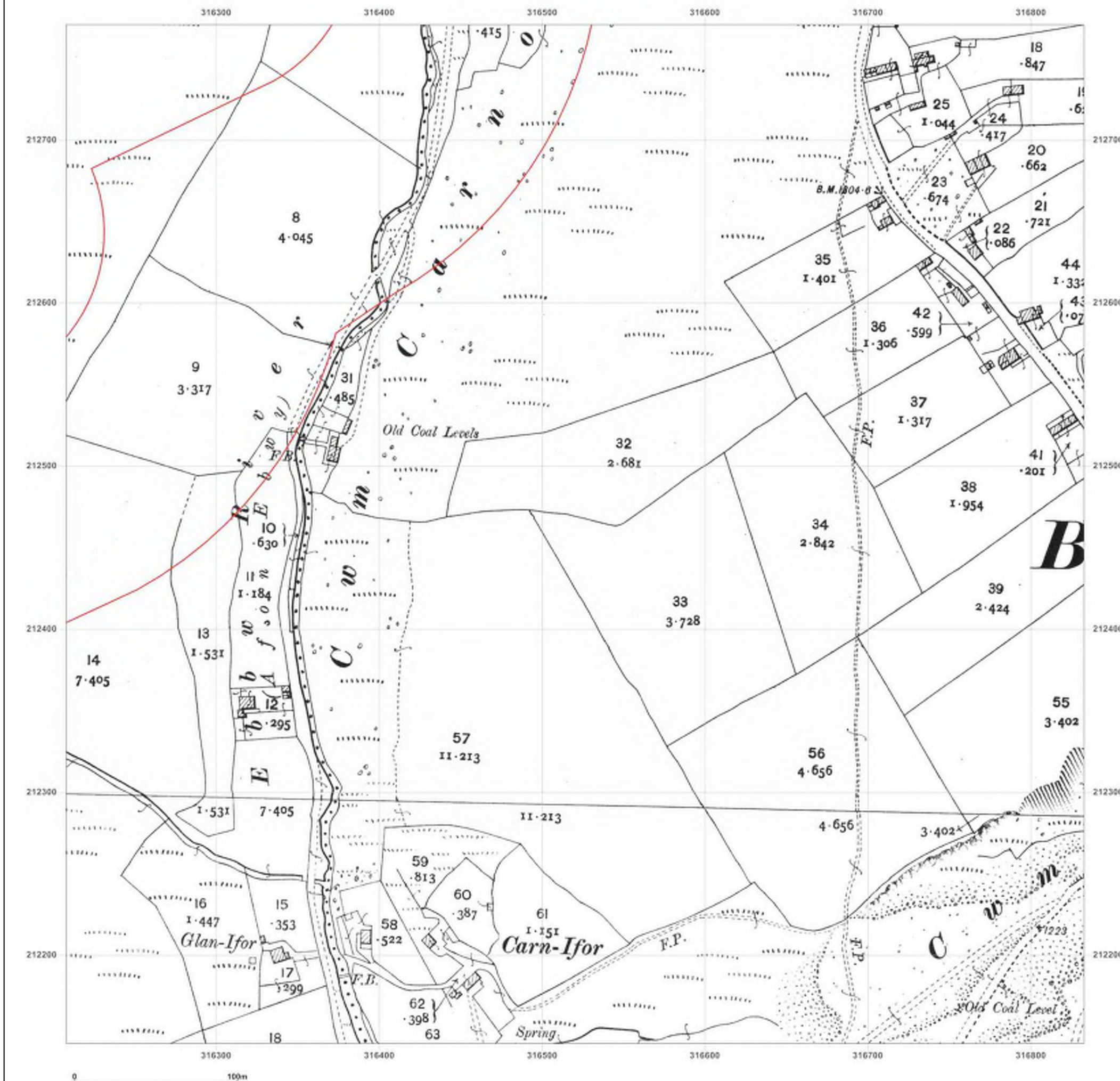


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_1
Grid Ref: 316520, 212458

Map Name: County Series

Map date: 1920

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

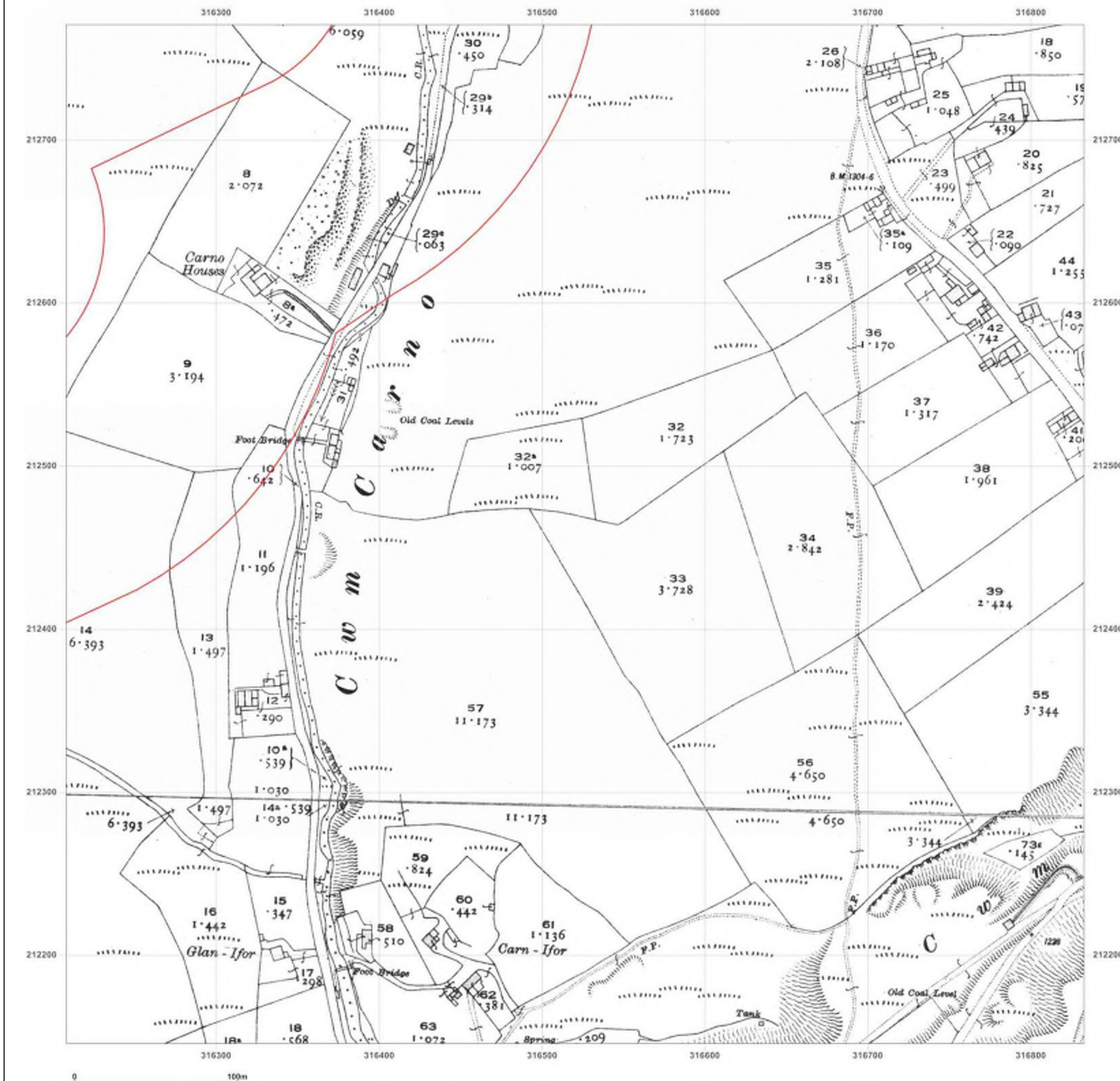


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_1
Grid Ref: 316520, 212458

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

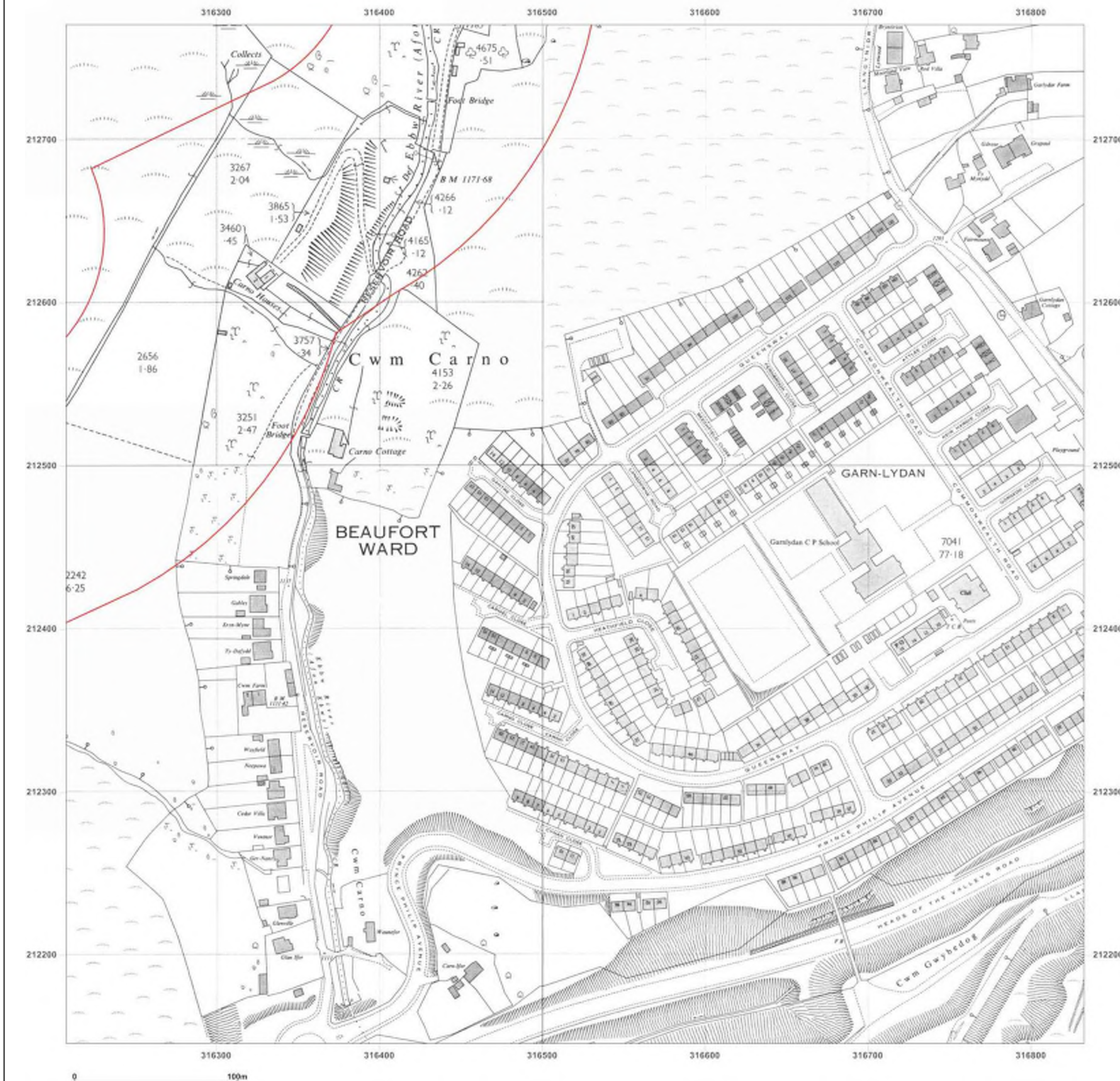


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_1
Grid Ref: 316520, 212458

Map Name: National Grid

Map date: 1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_1
Grid Ref: 316520, 212458

Map Name: National Grid

Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

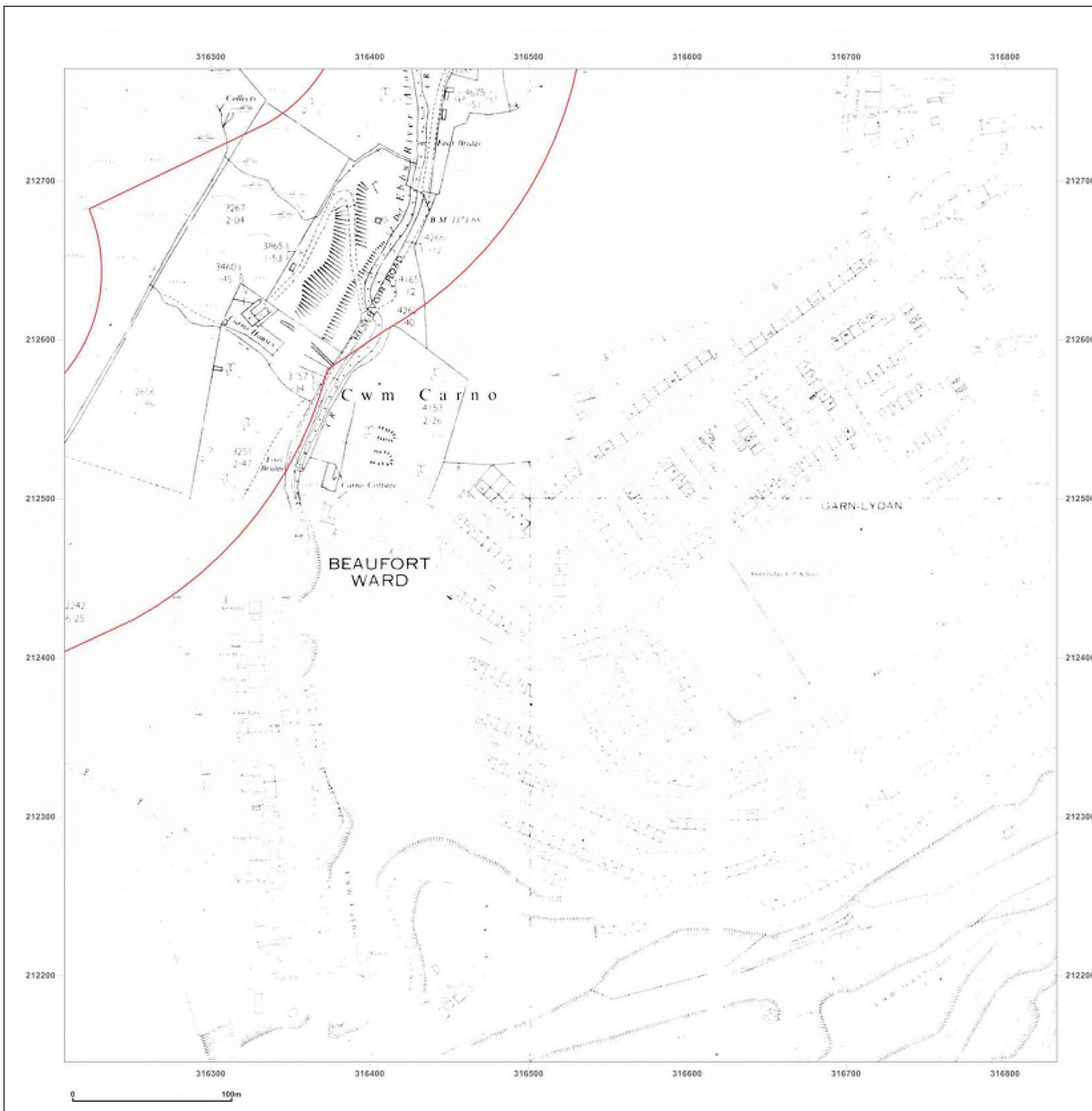


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: County Series

Map date: 1880

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

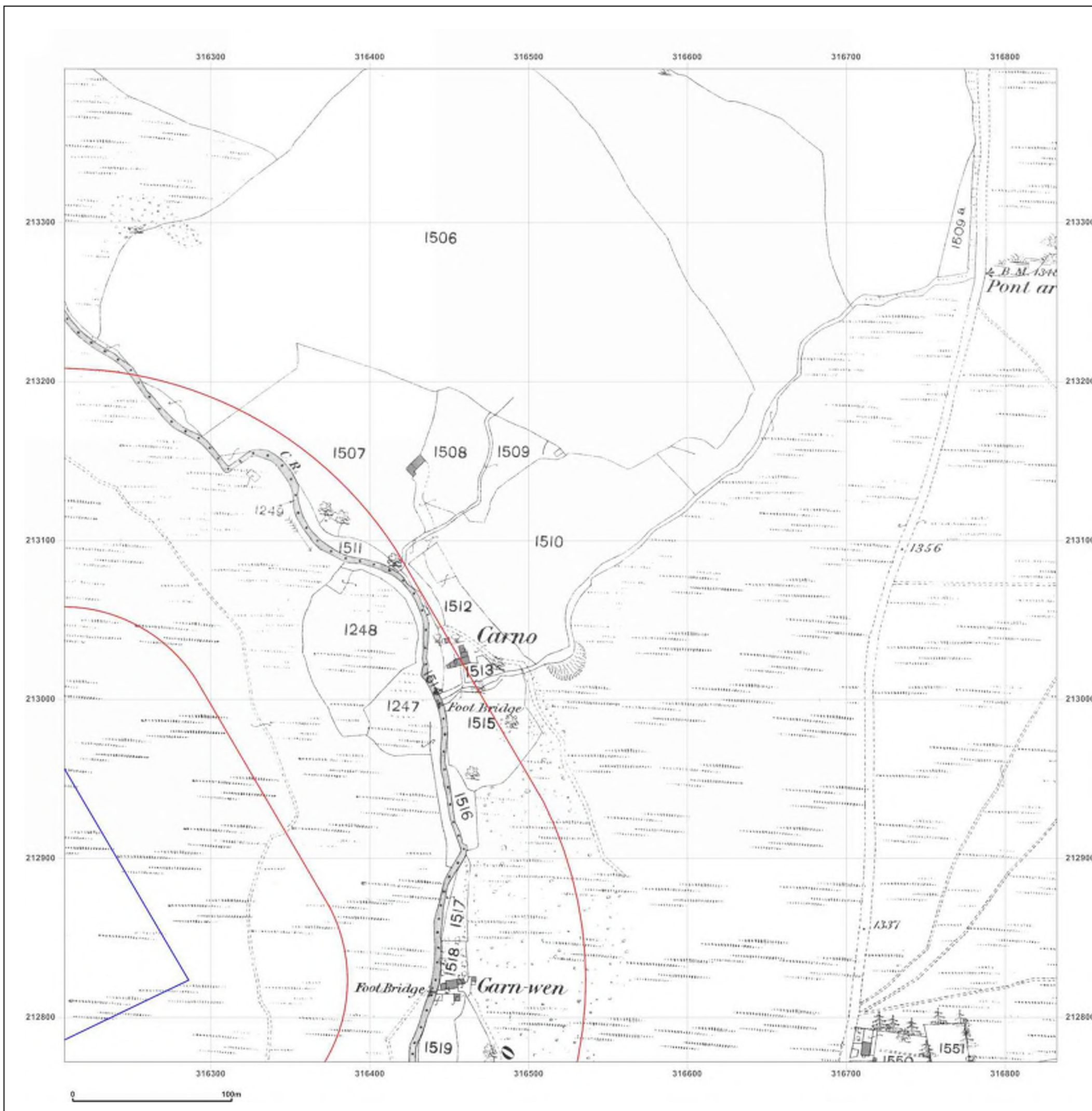


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: County Series

Map date: 1900

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

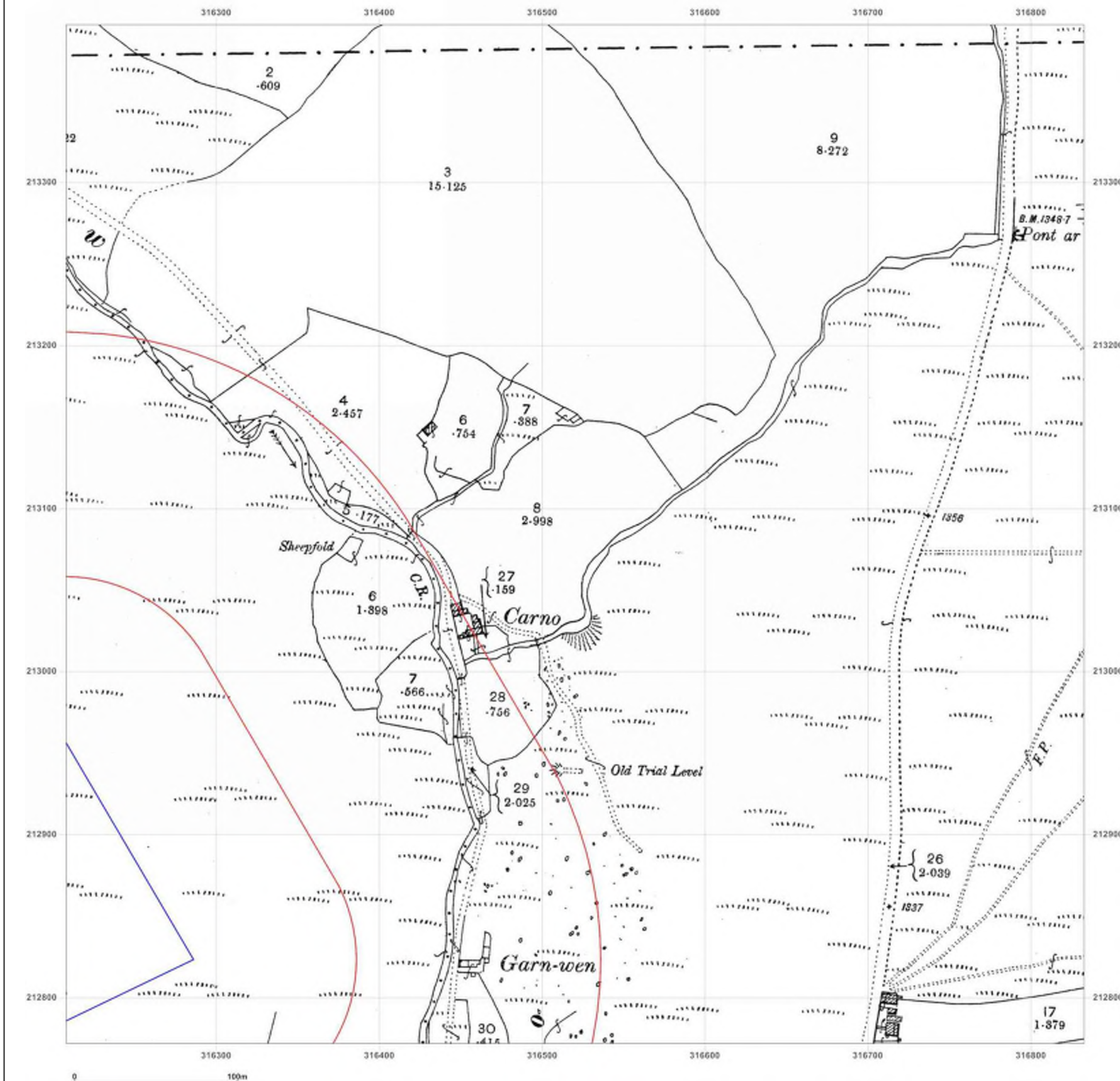


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: County Series

Map date: 1920

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

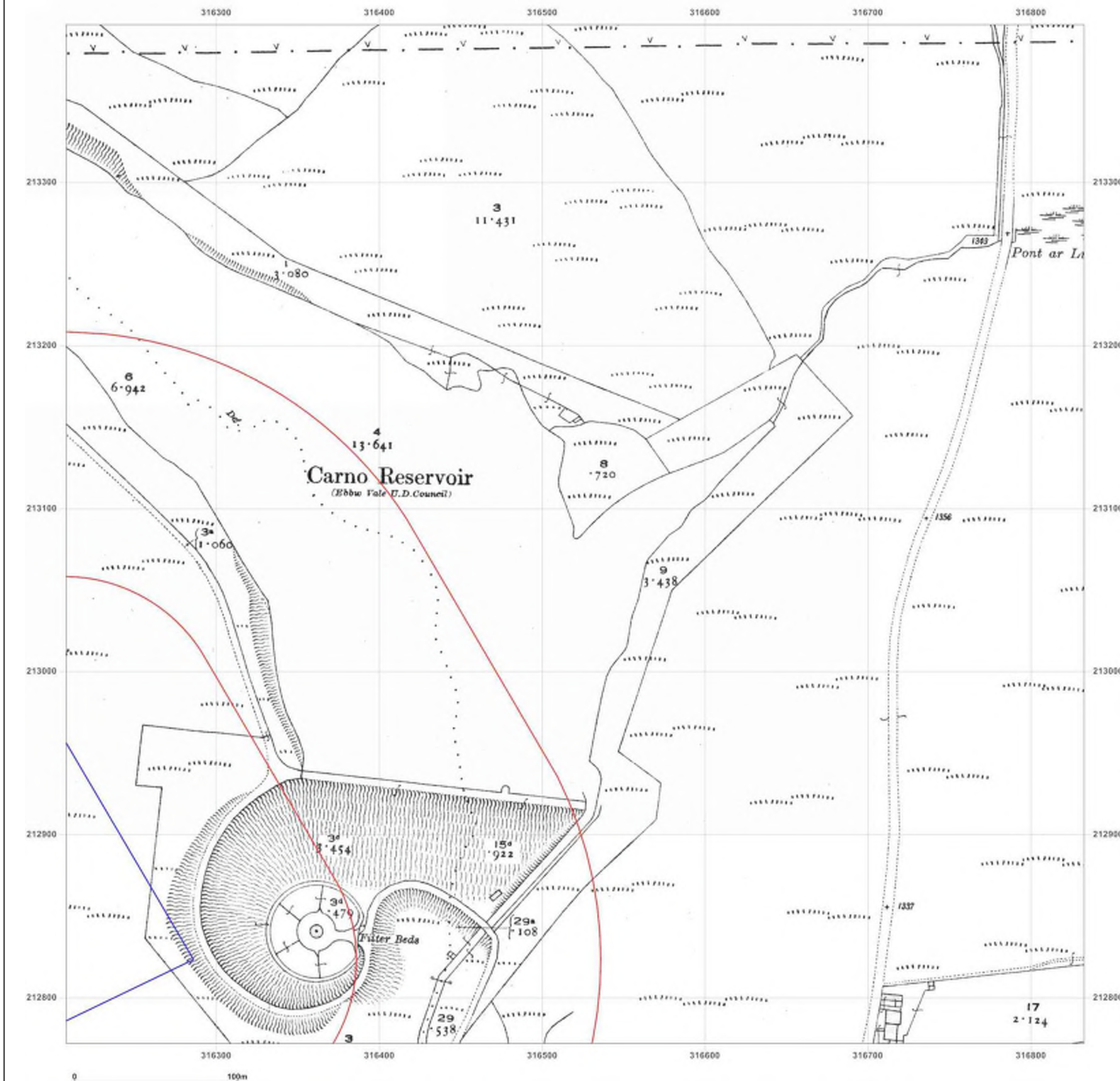


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: National Grid

Map date: 1964-1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1964
Revised 1964
Edition N/A
Copyright 1965
Levelled 1952

Surveyed 1966
Revised 1966
Edition N/A
Copyright 1968
Levelled 1952

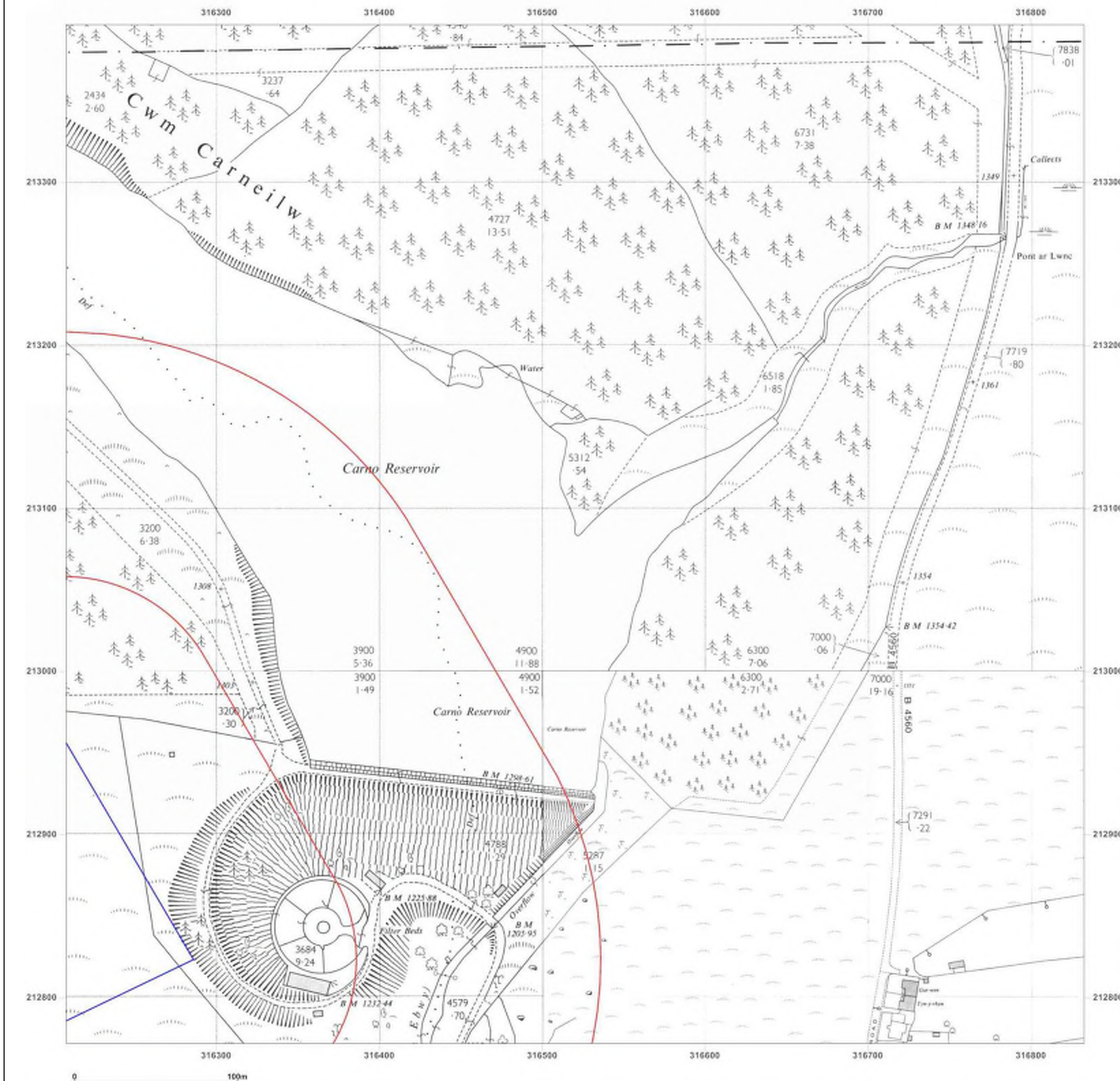


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: National Grid

Map date: 1965-1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

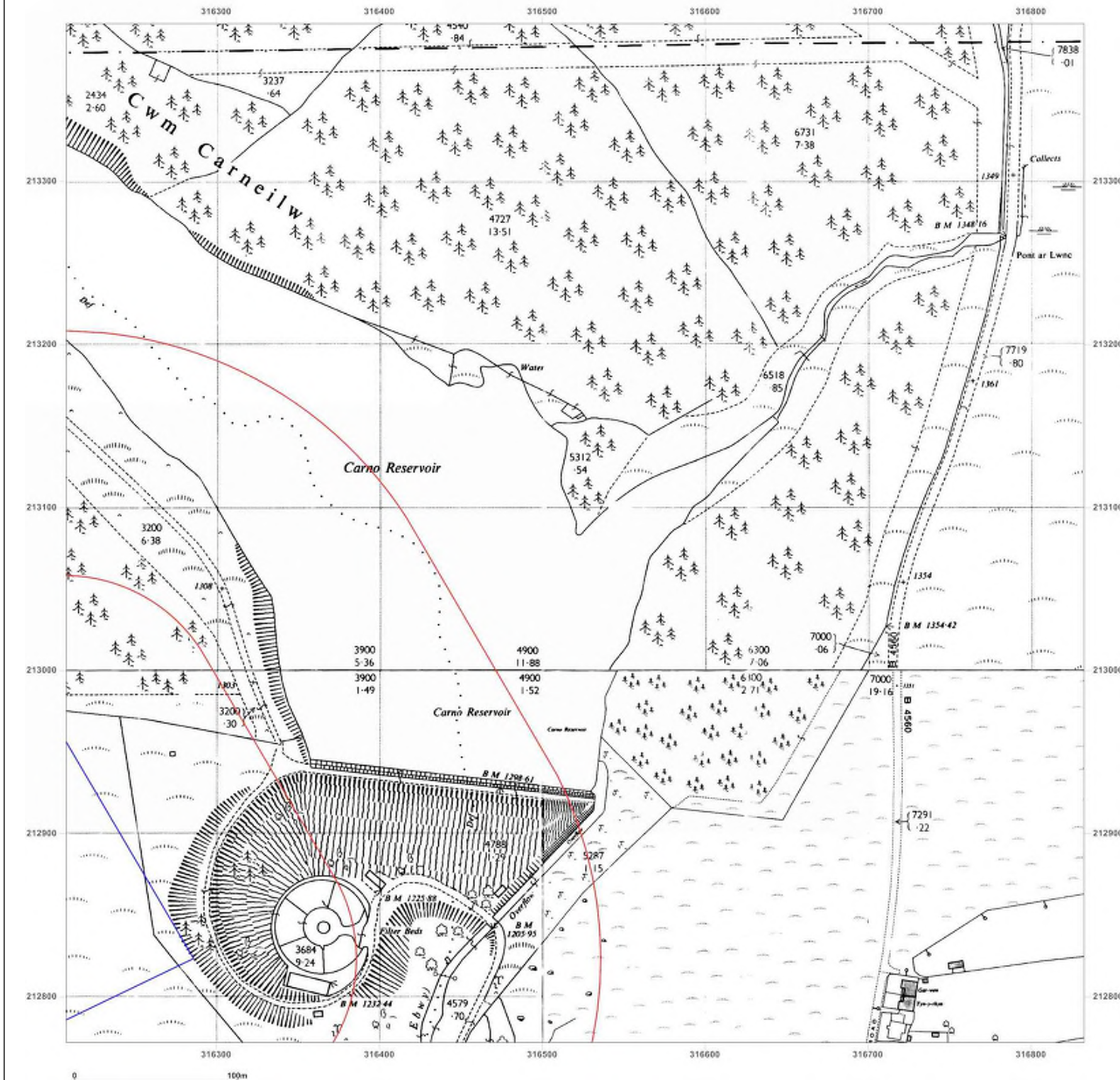


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: National Grid

Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

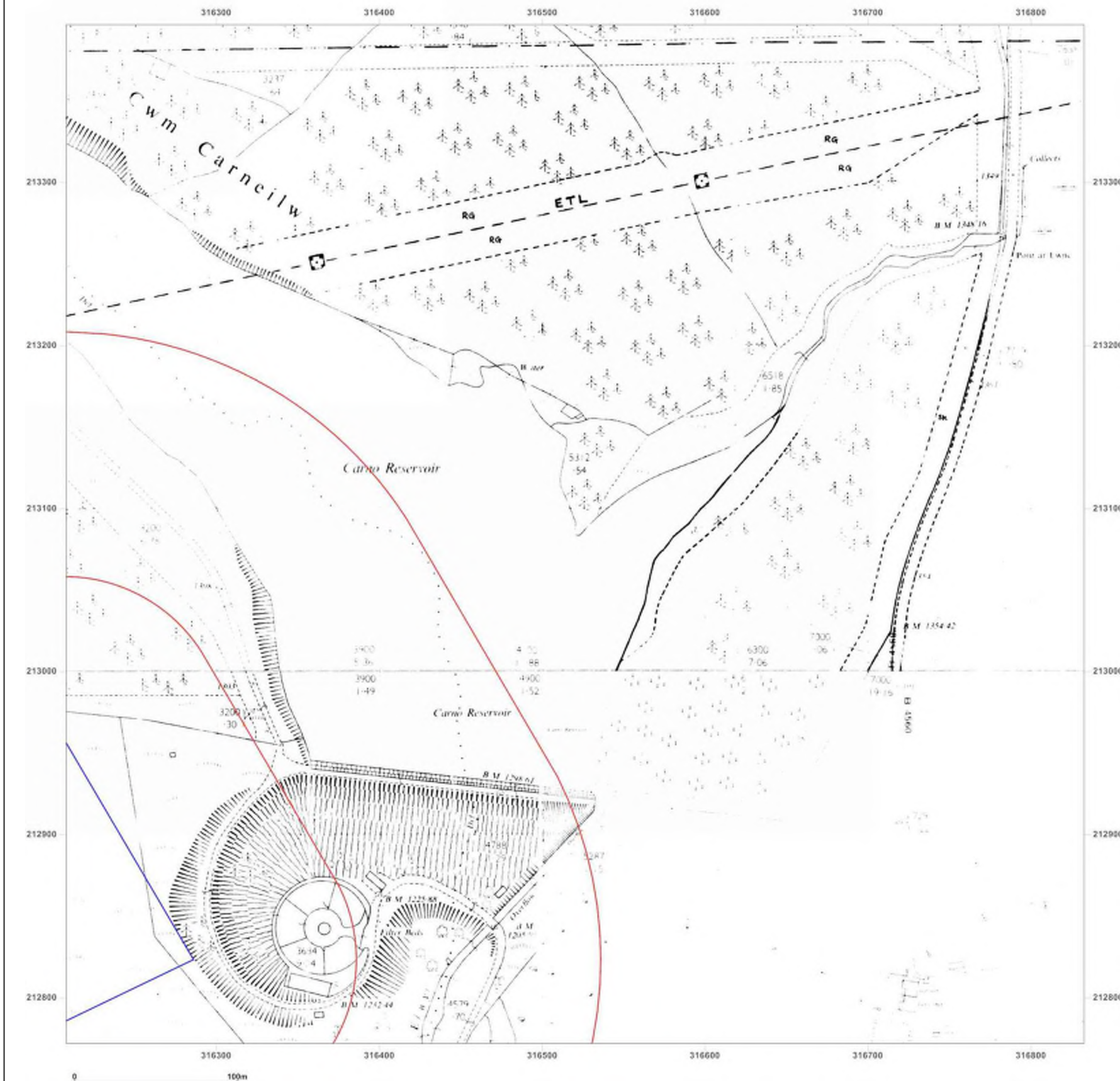


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: National Grid

Map date: 1987

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

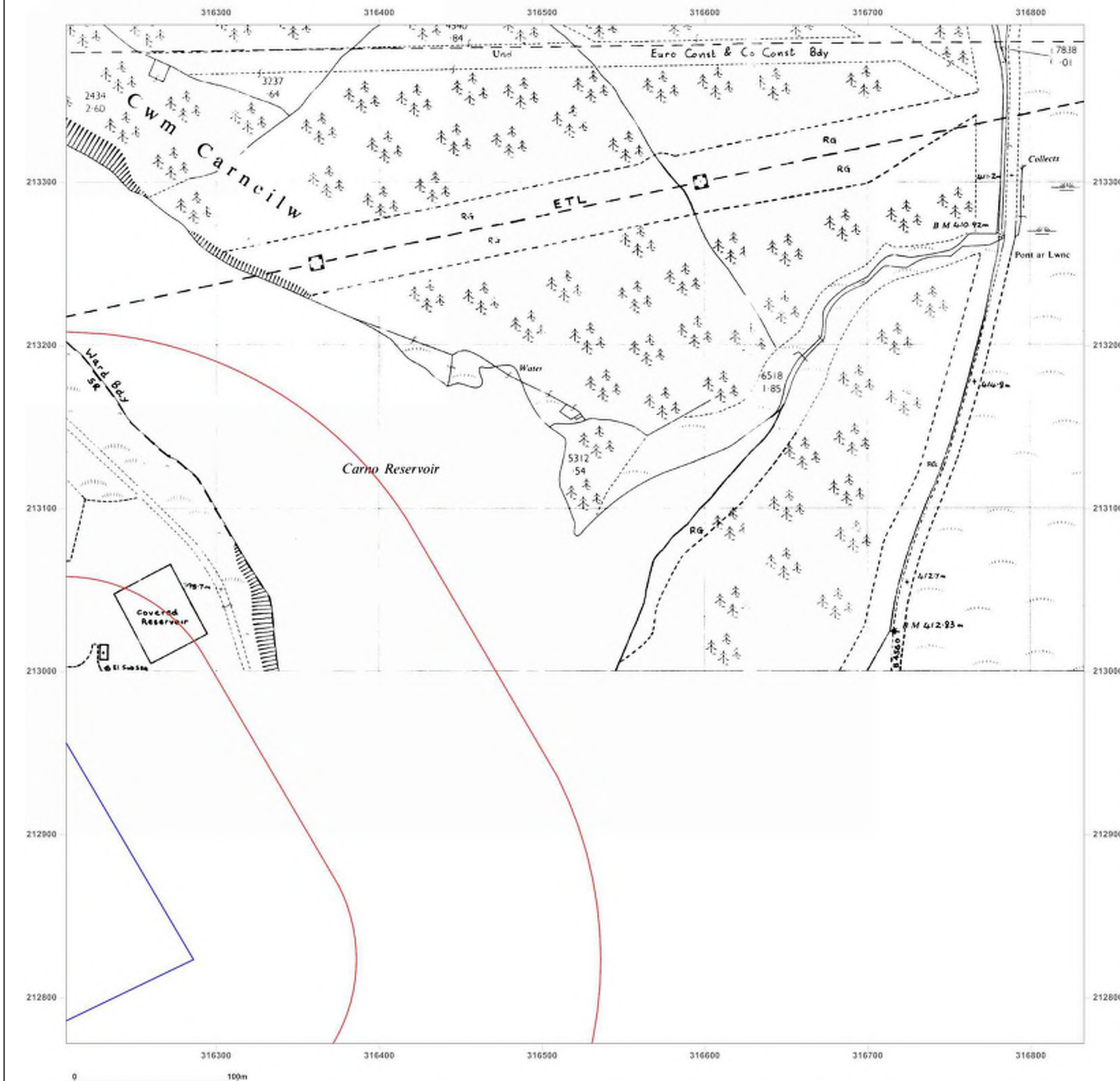


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Site Details:

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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: National Grid

Map date: 1987

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1952
Revised 1987
Edition N/A
Copyright 1987
Levelled 1952

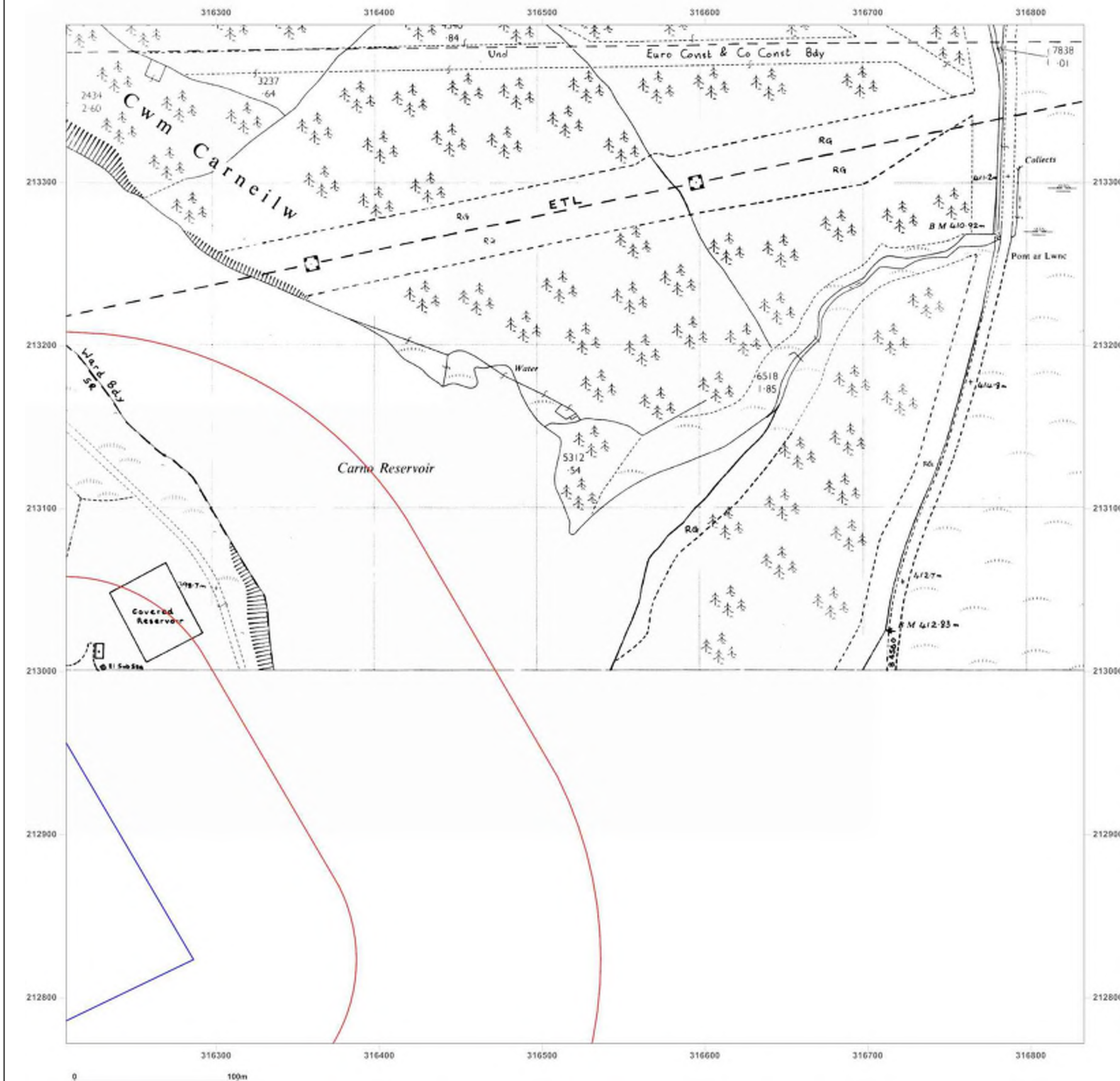


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VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329_LS_3_2
Grid Ref: 316520, 213084

Map Name: National Grid

Map date: 1994

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
Levelled N/A

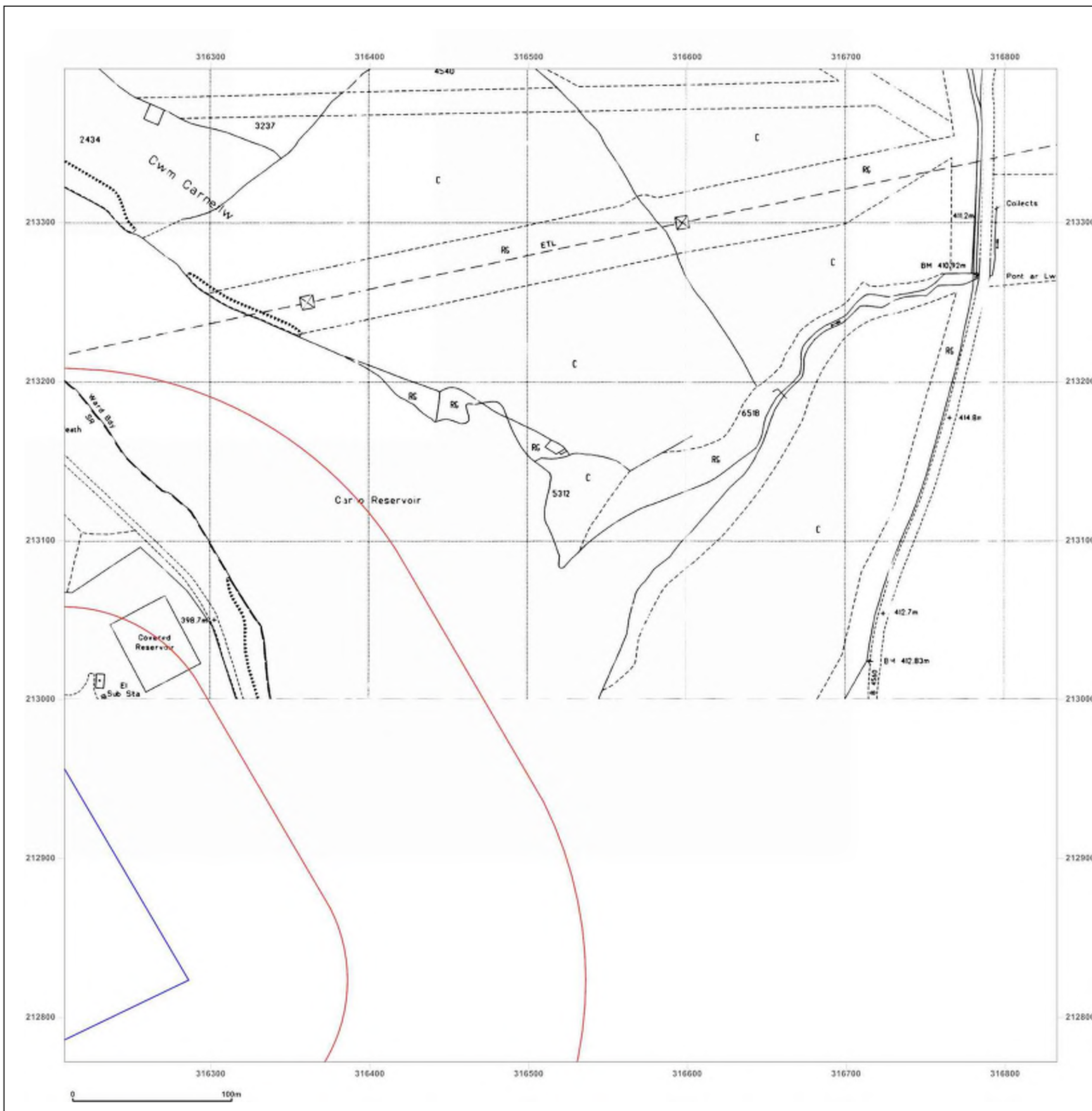


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VALE, NP23 5SD

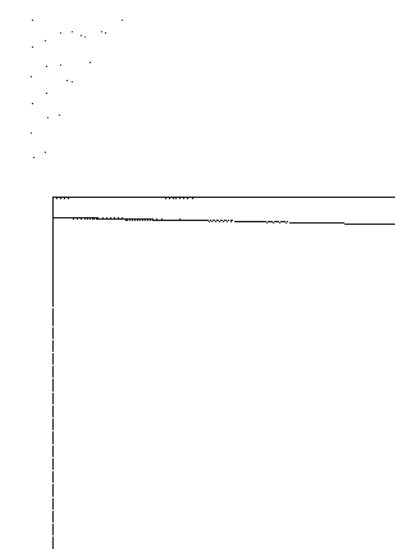
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Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1879

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

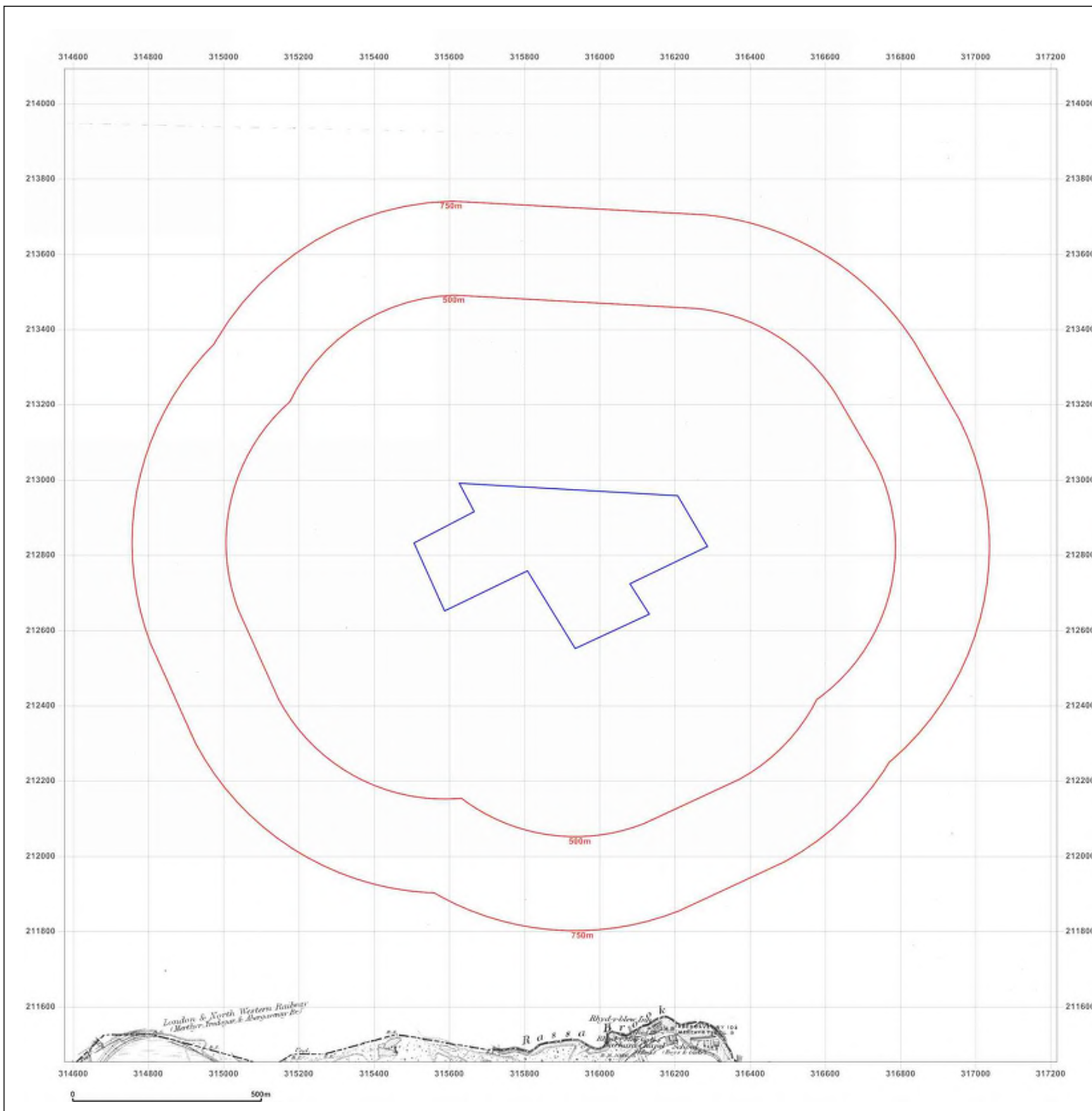


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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1879

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

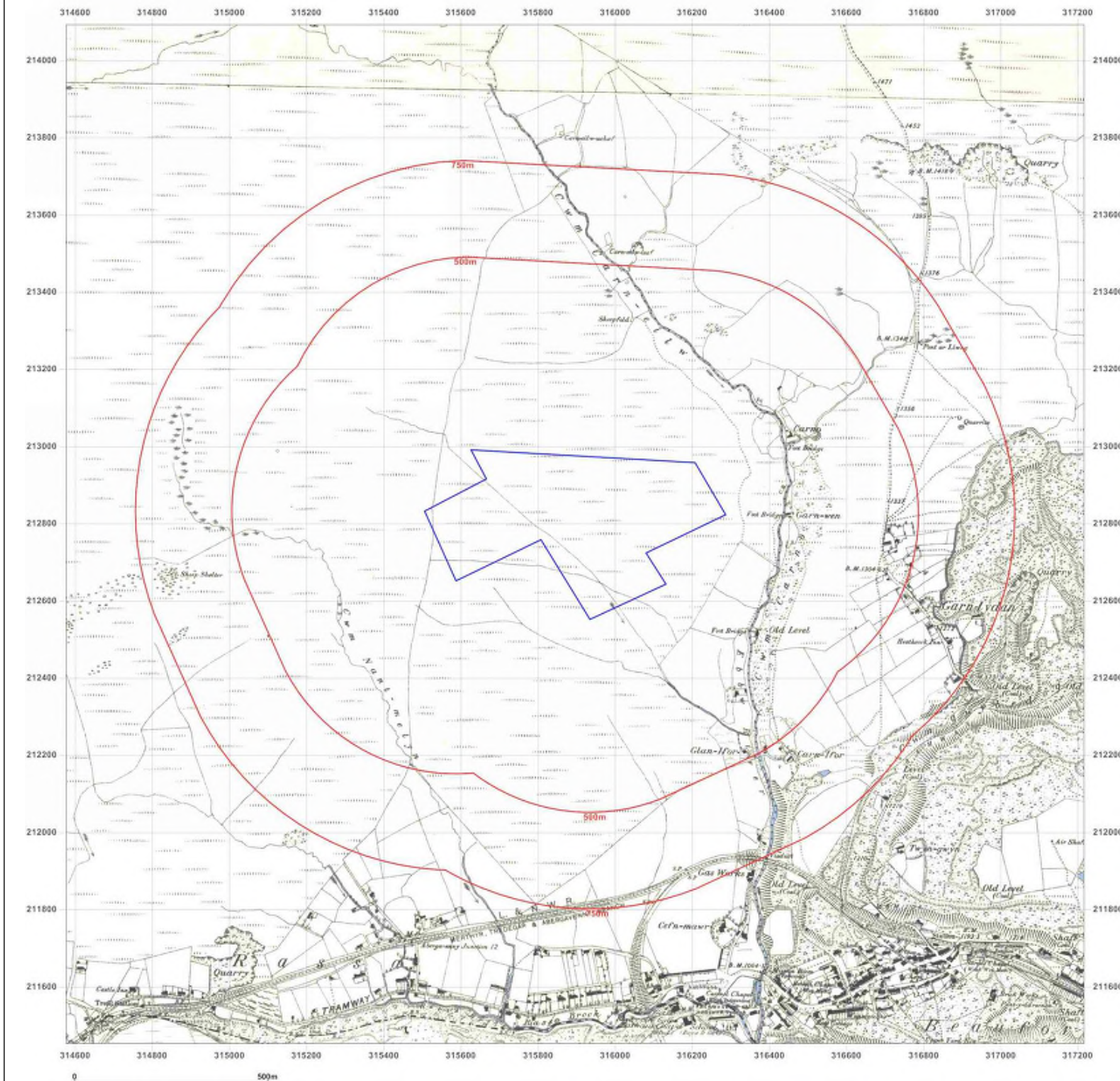


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Site Details:

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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1903

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

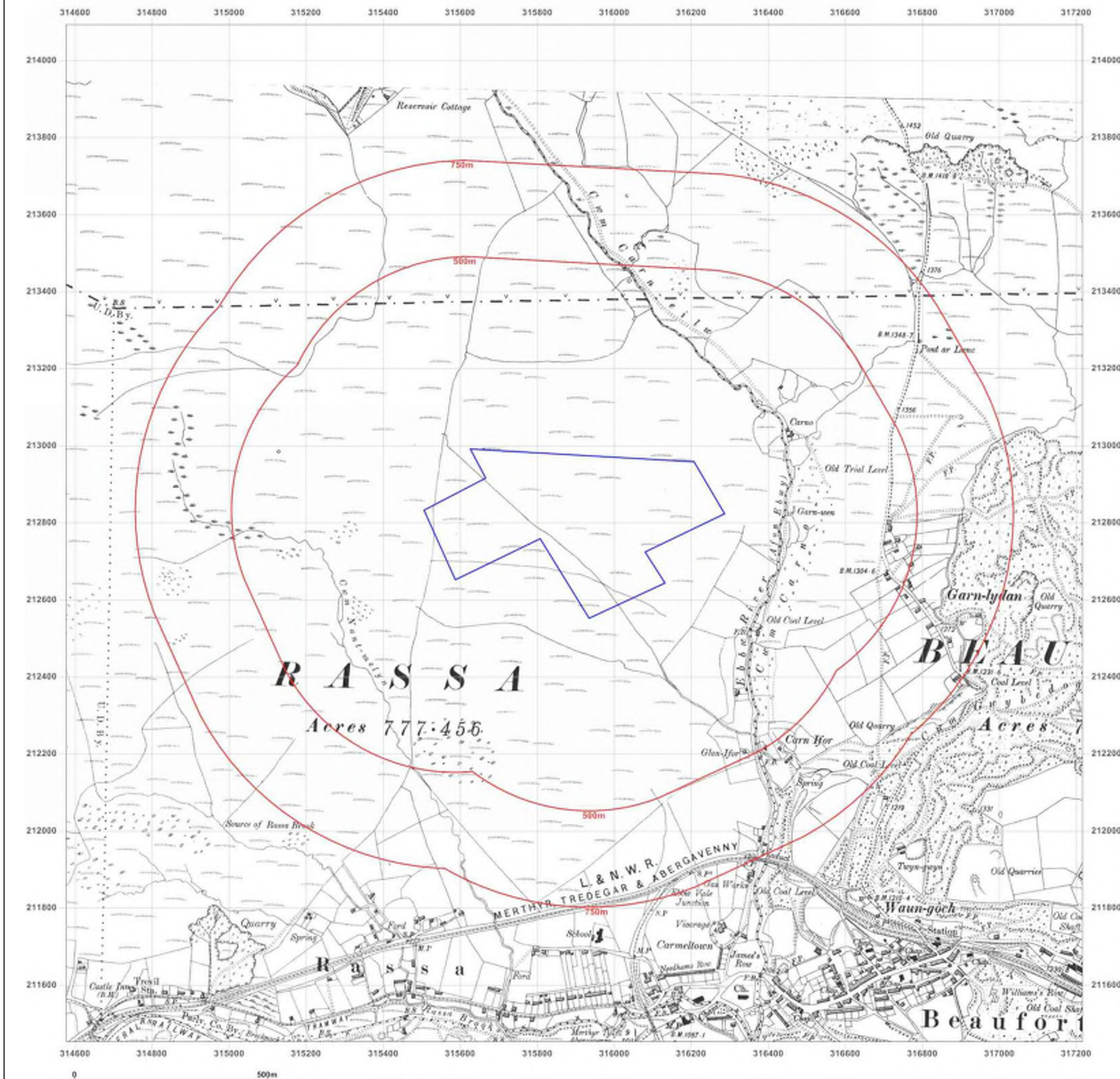


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Site Details:

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ROAD NORTH, RASSAU, EBBW
VALE, NP23 5SD

Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1902-1905

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1887
Revised 1905
Edition 1905
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Surveyed 1876
Revised 1902
Edition N/A
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Levelled N/A

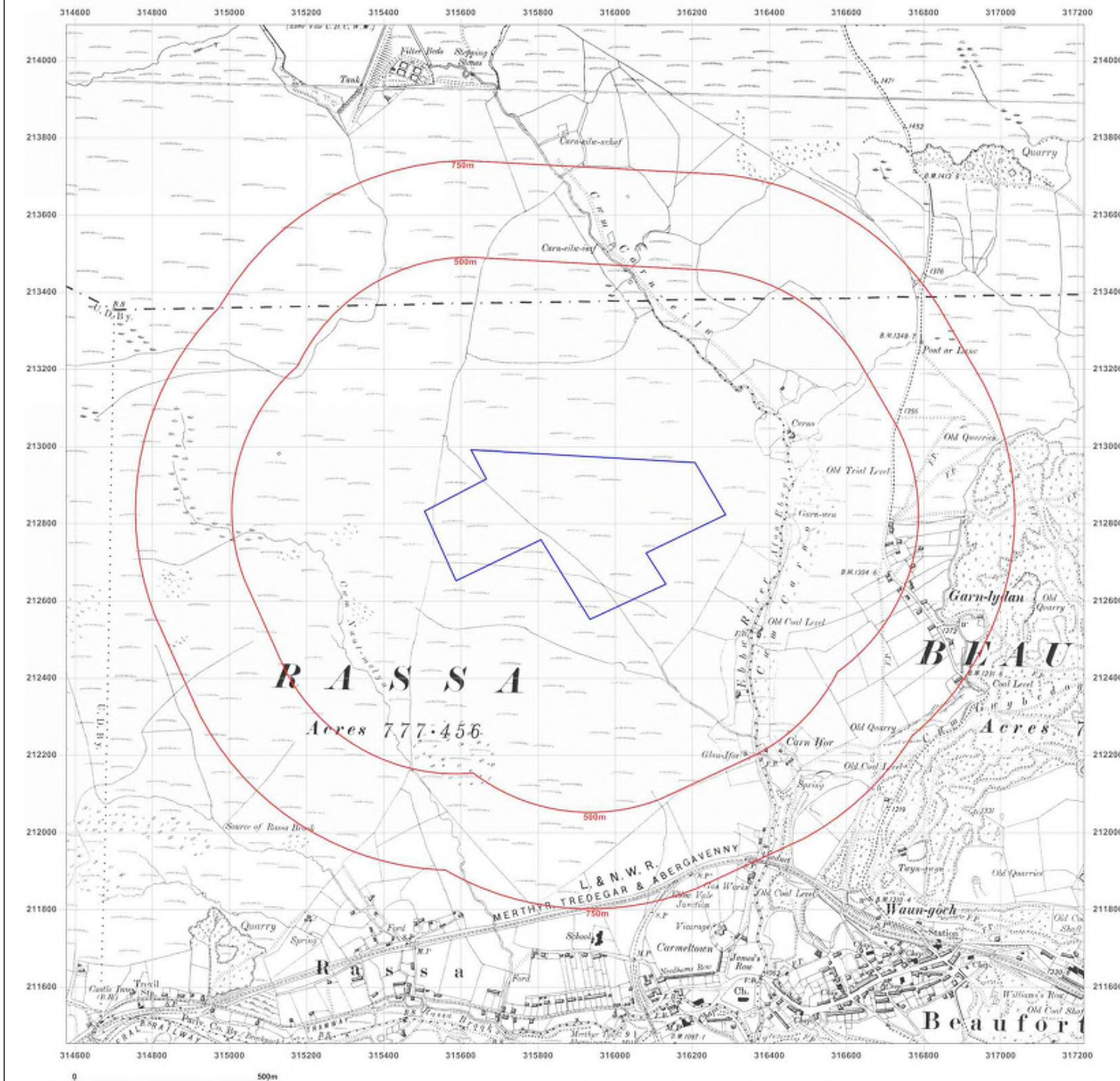


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1915

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1918
Edition 1922
Copyright N/A
Levelled N/A

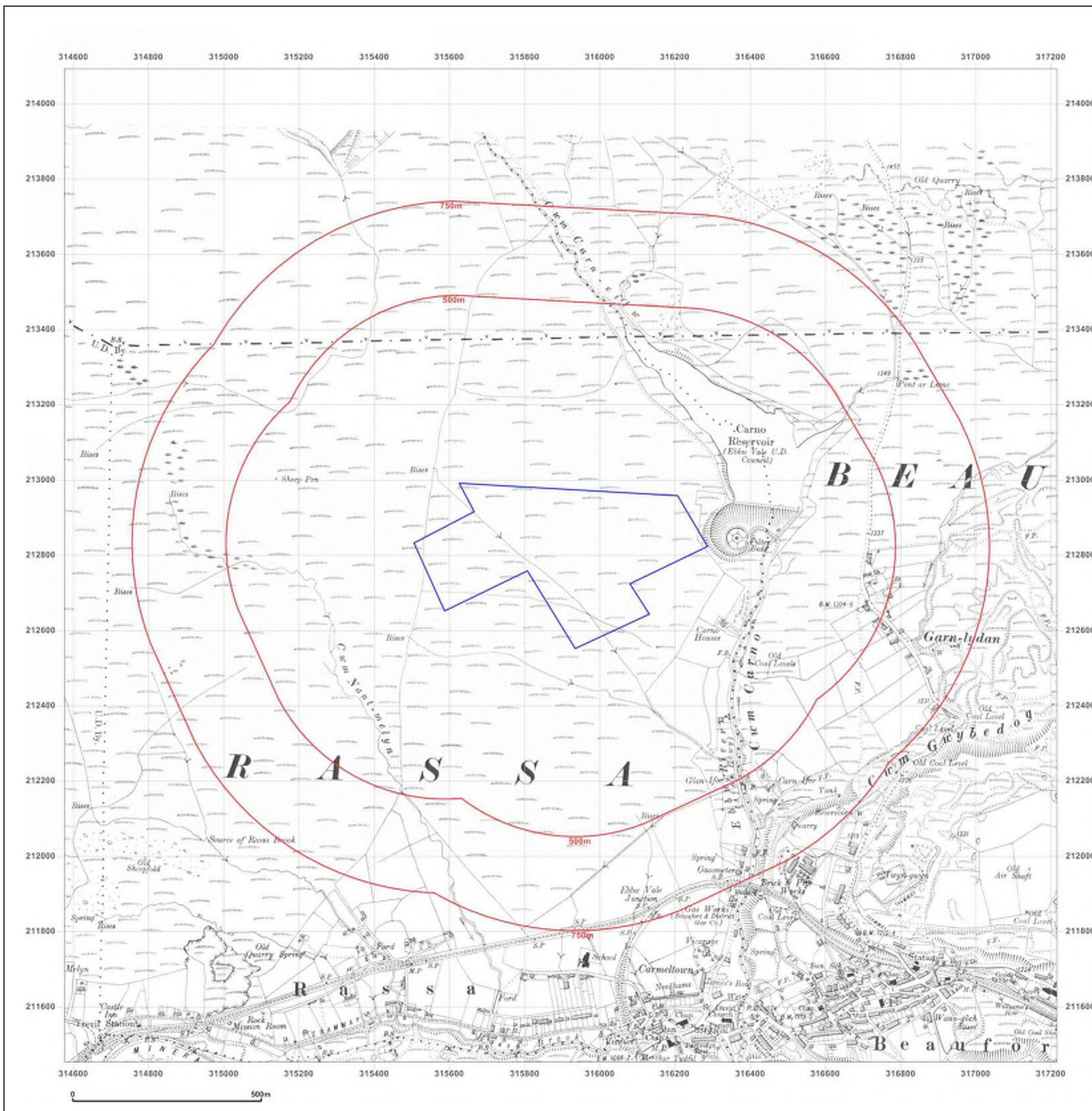


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised N/A
Edition N/A
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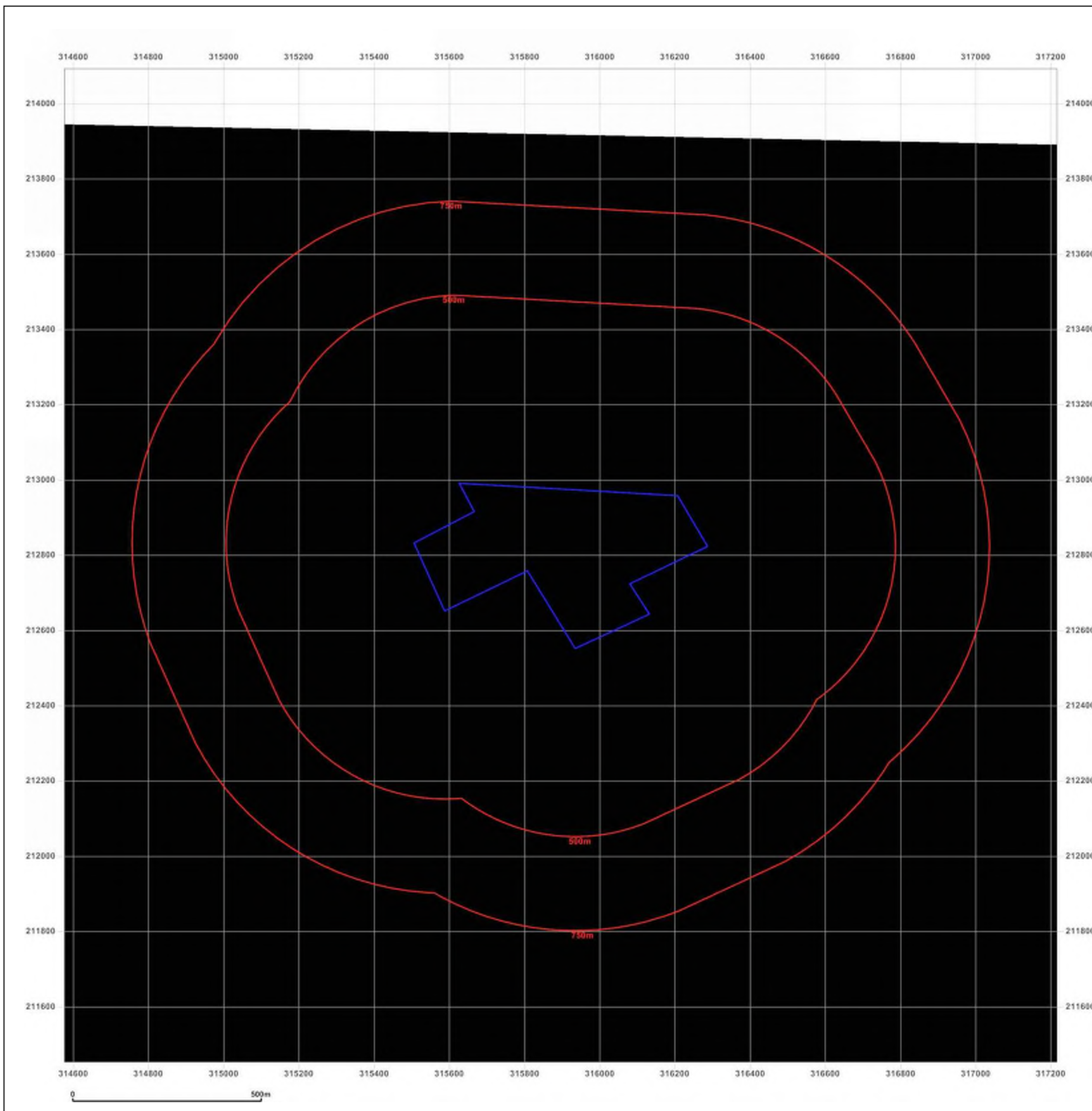


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

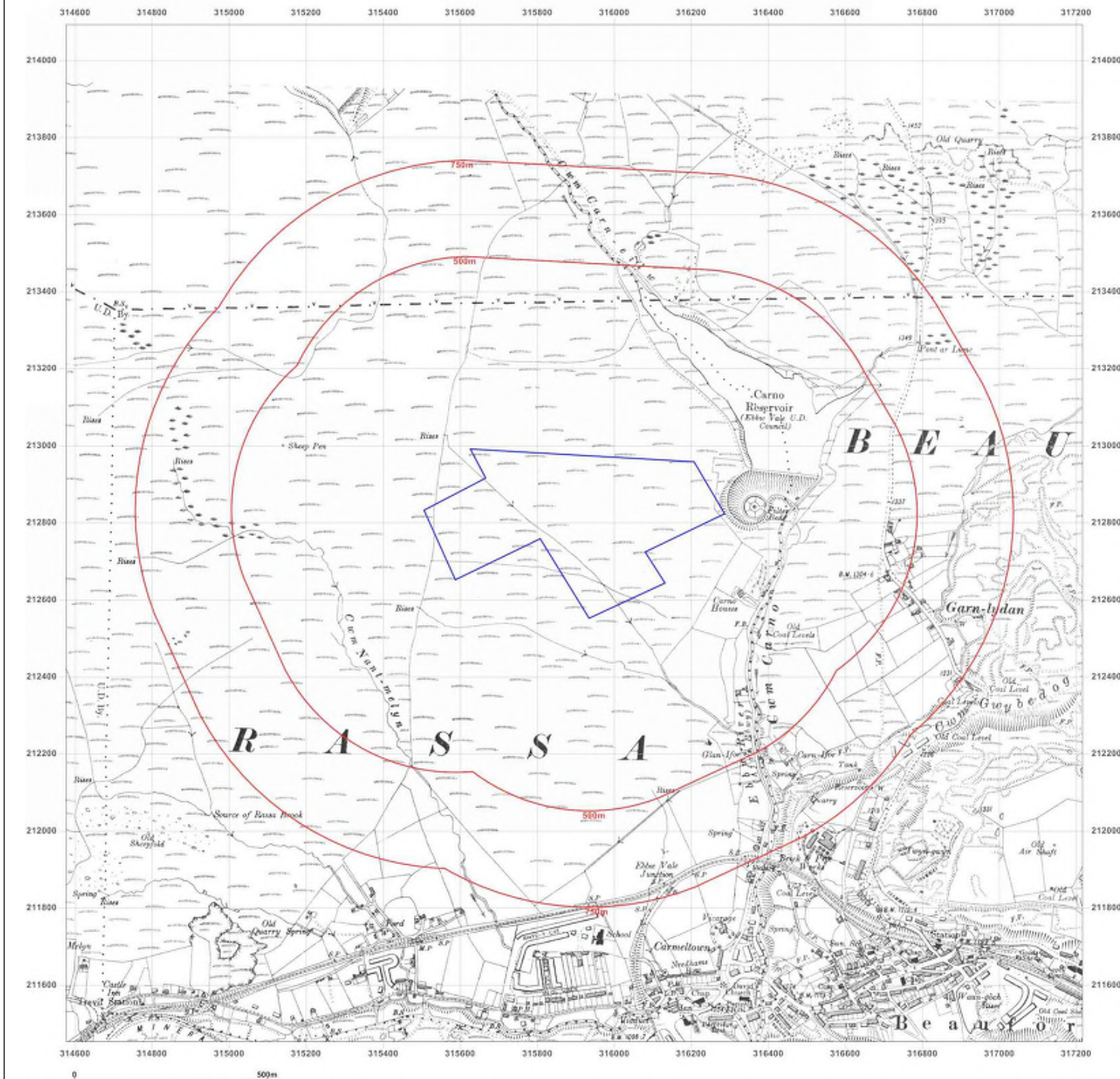


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1876
Revised 1938
Edition 1938
Copyright N/A
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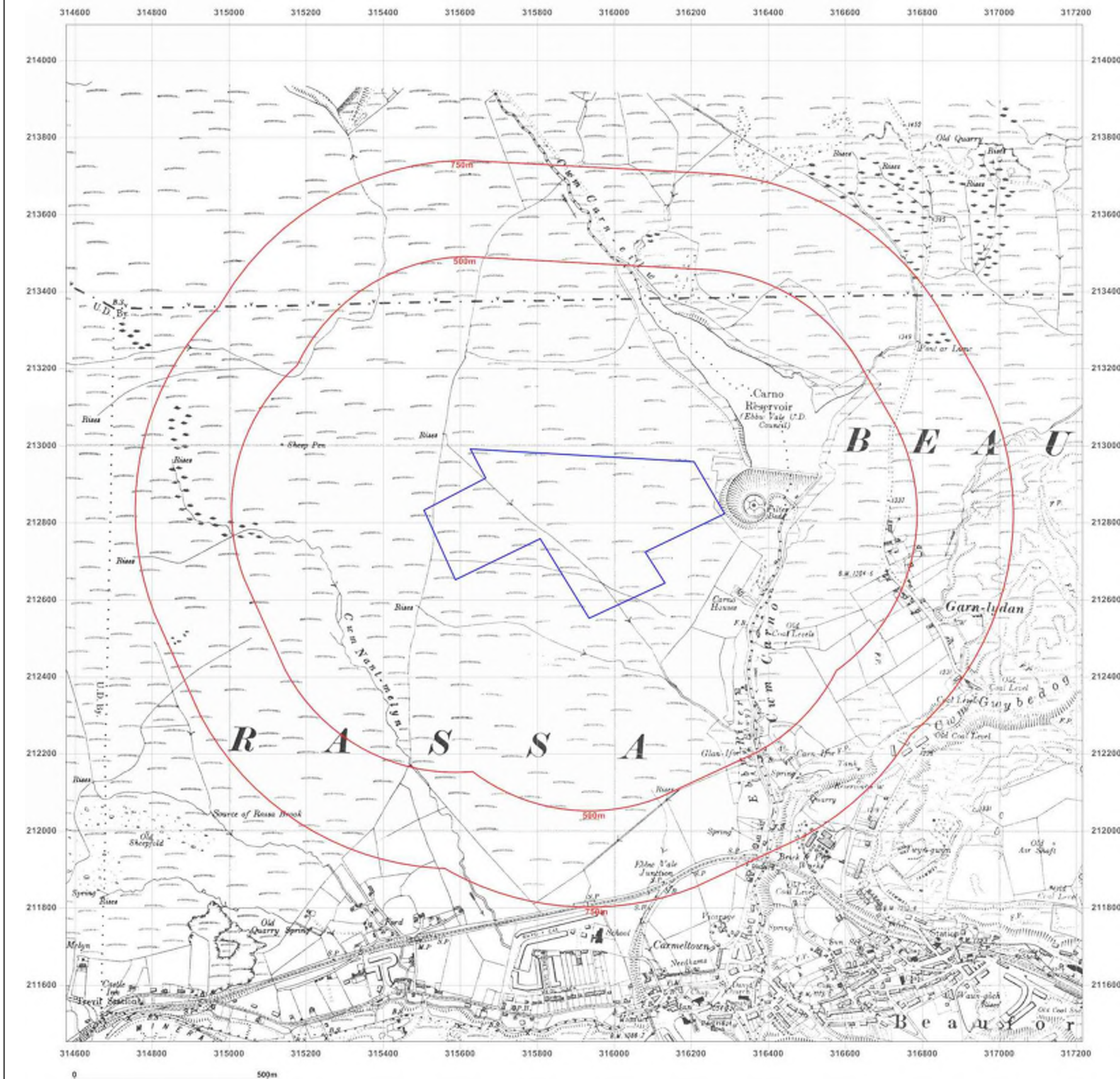


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: County Series

Map date: 1948-1949

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1877
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1876
Revised 1949
Edition N/A
Copyright N/A
Levelled N/A

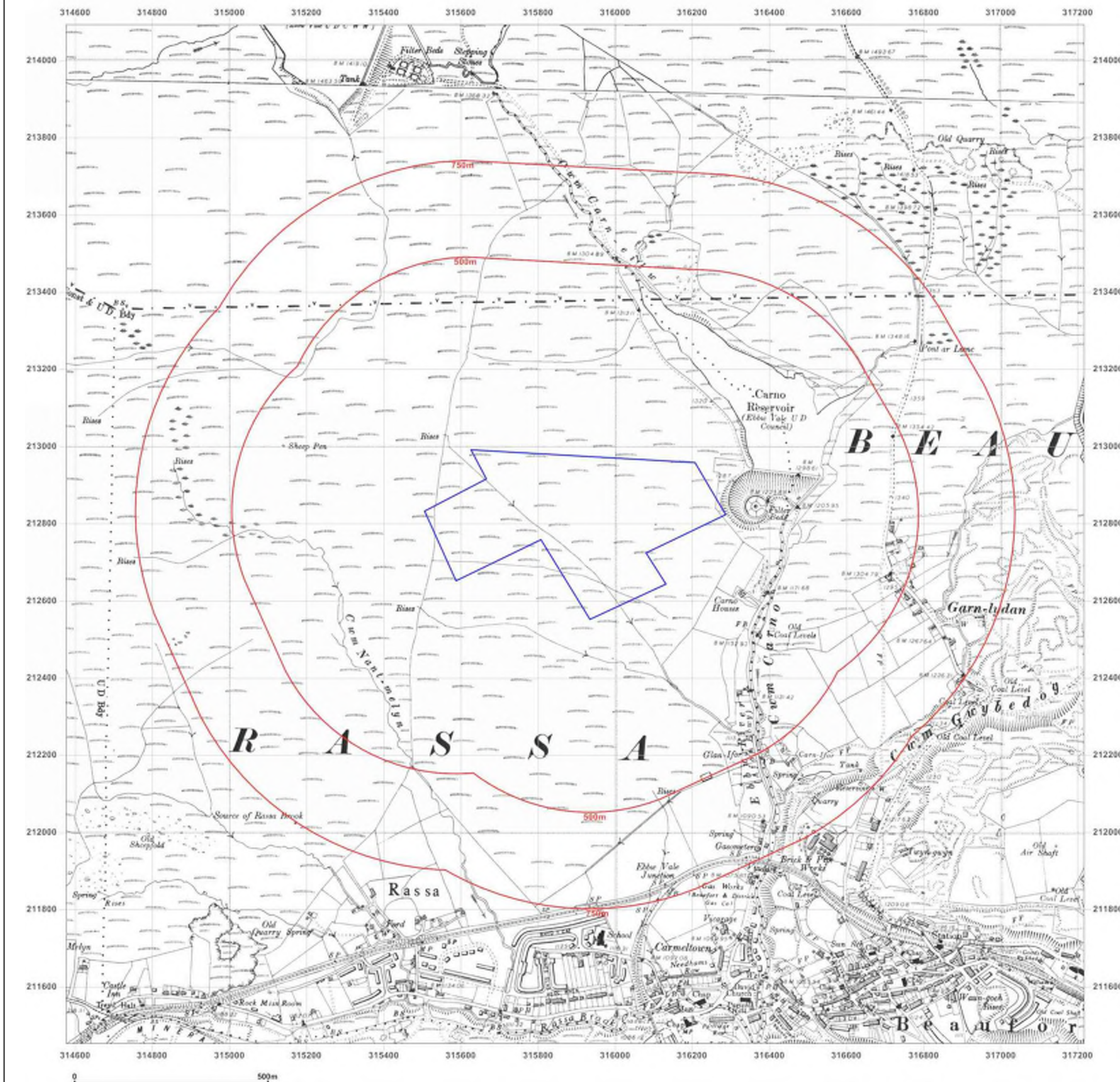


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: Provisional

Map date: 1960

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1960
Revised 1960
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1960
Revised 1960
Edition N/A
Copyright N/A
Levelled N/A

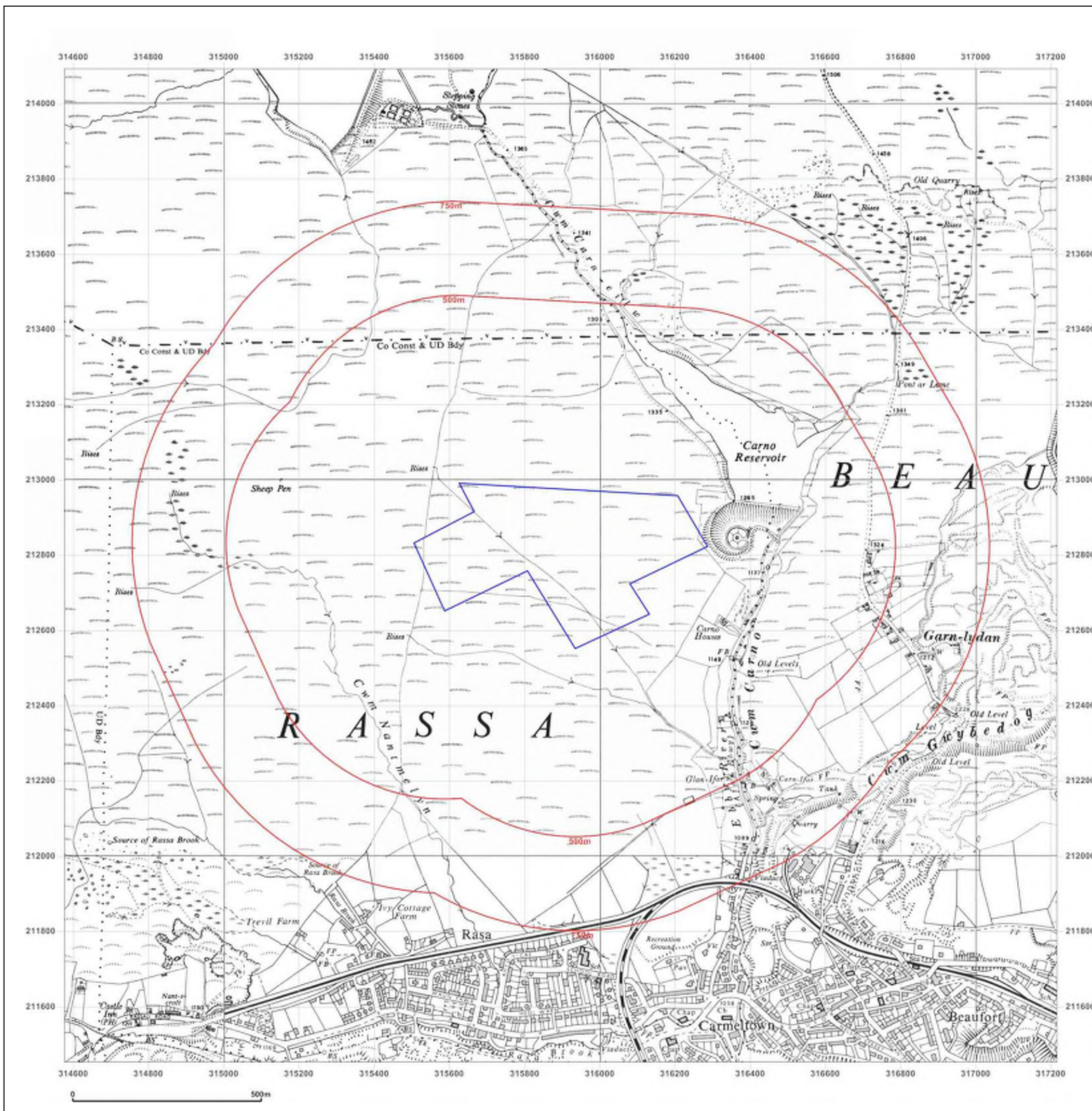


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: Provisional

Map date: 1967-1970

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1969
Revised 1970
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1967
Edition N/A
Copyright 1964
Levelled N/A

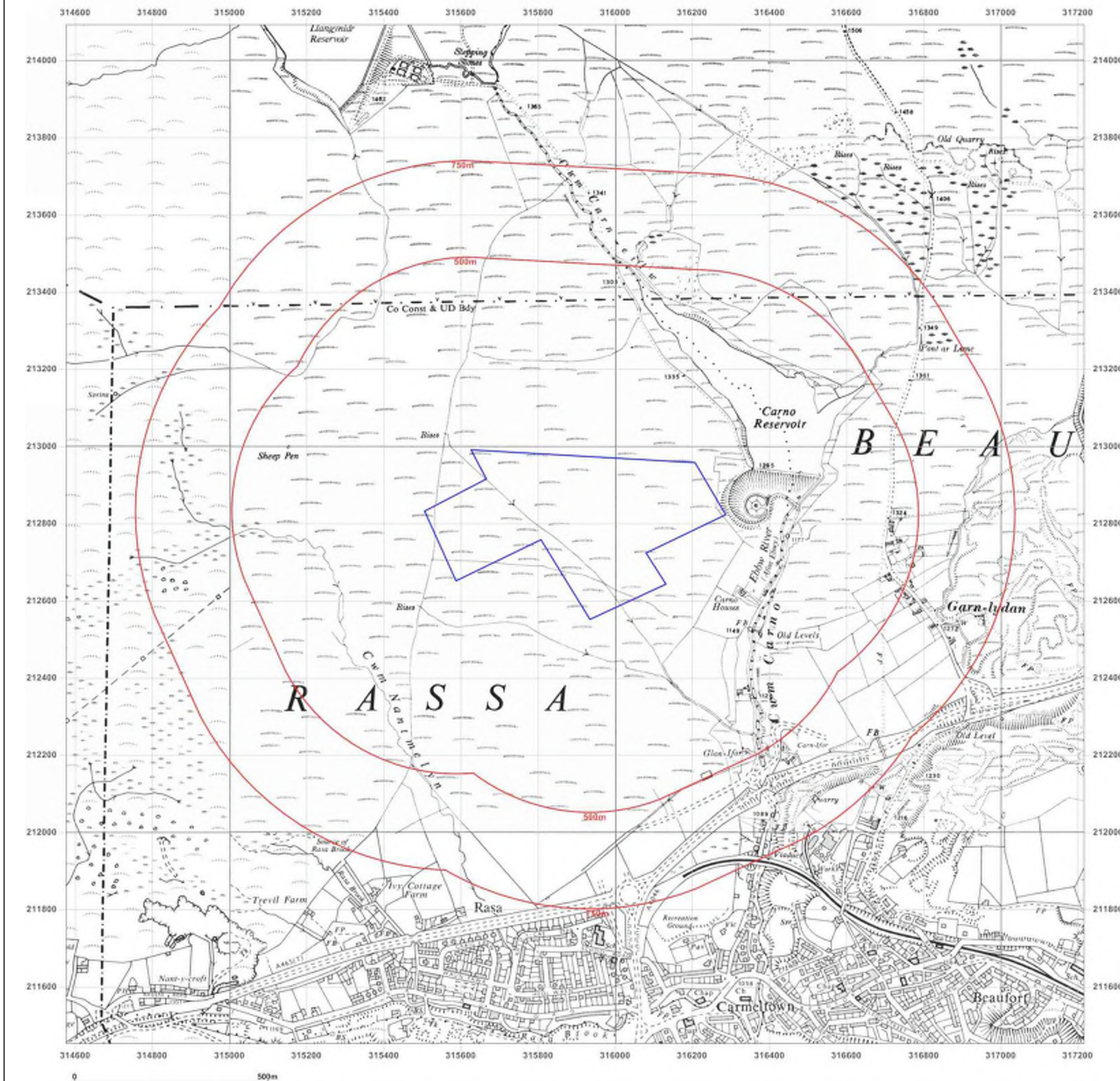


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: National Grid

Map date: 1977

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1973
Revised 1976
Edition N/A
Copyright 1977
Levelled 1975

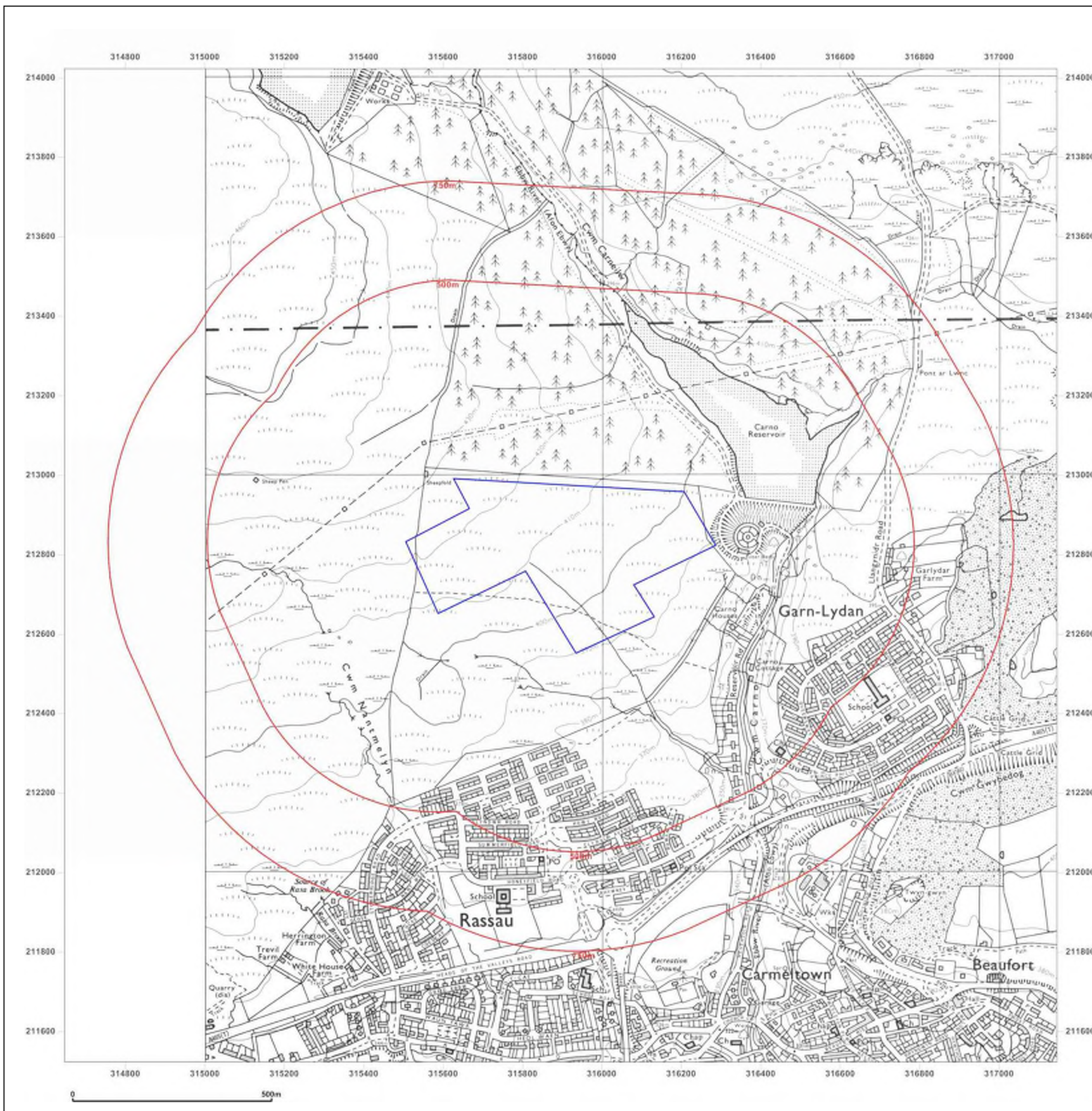


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Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: National Grid

Map date: 1986

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1986
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1985
Revised 1986
Edition N/A
Copyright N/A
Levelled N/A

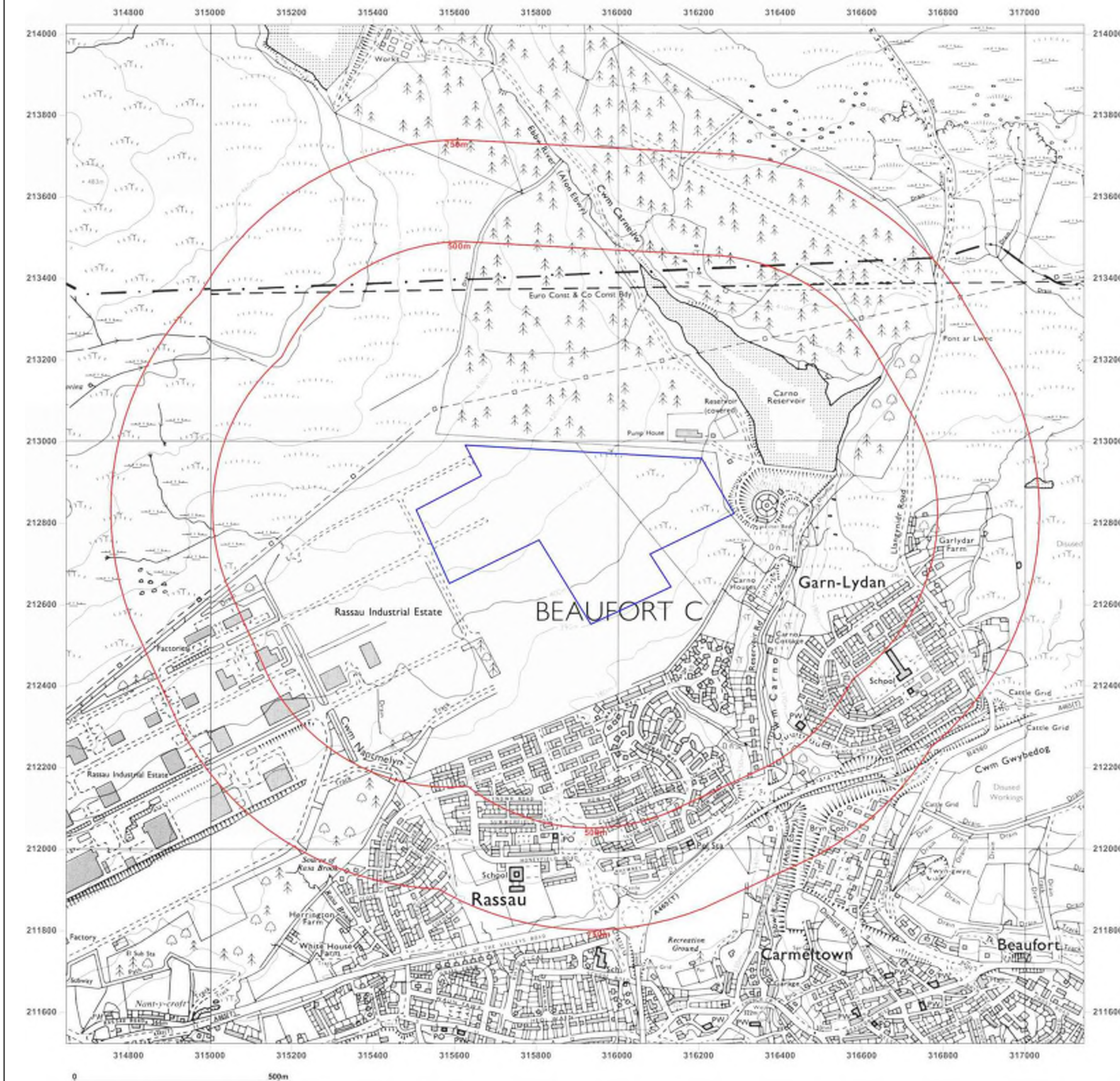


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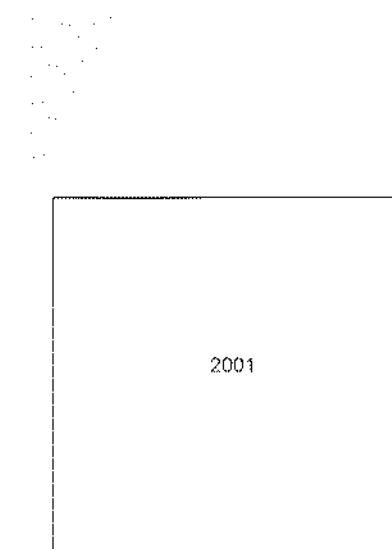
Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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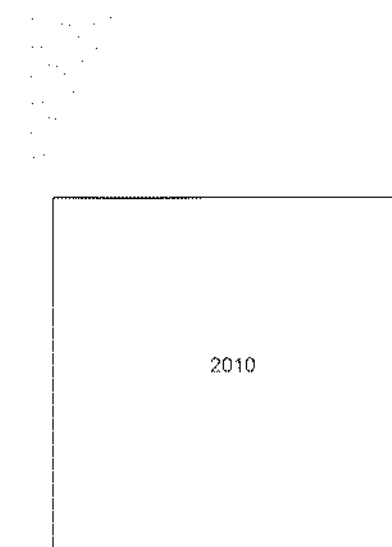
Client Ref: CiNER_Glass_Ltd
Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

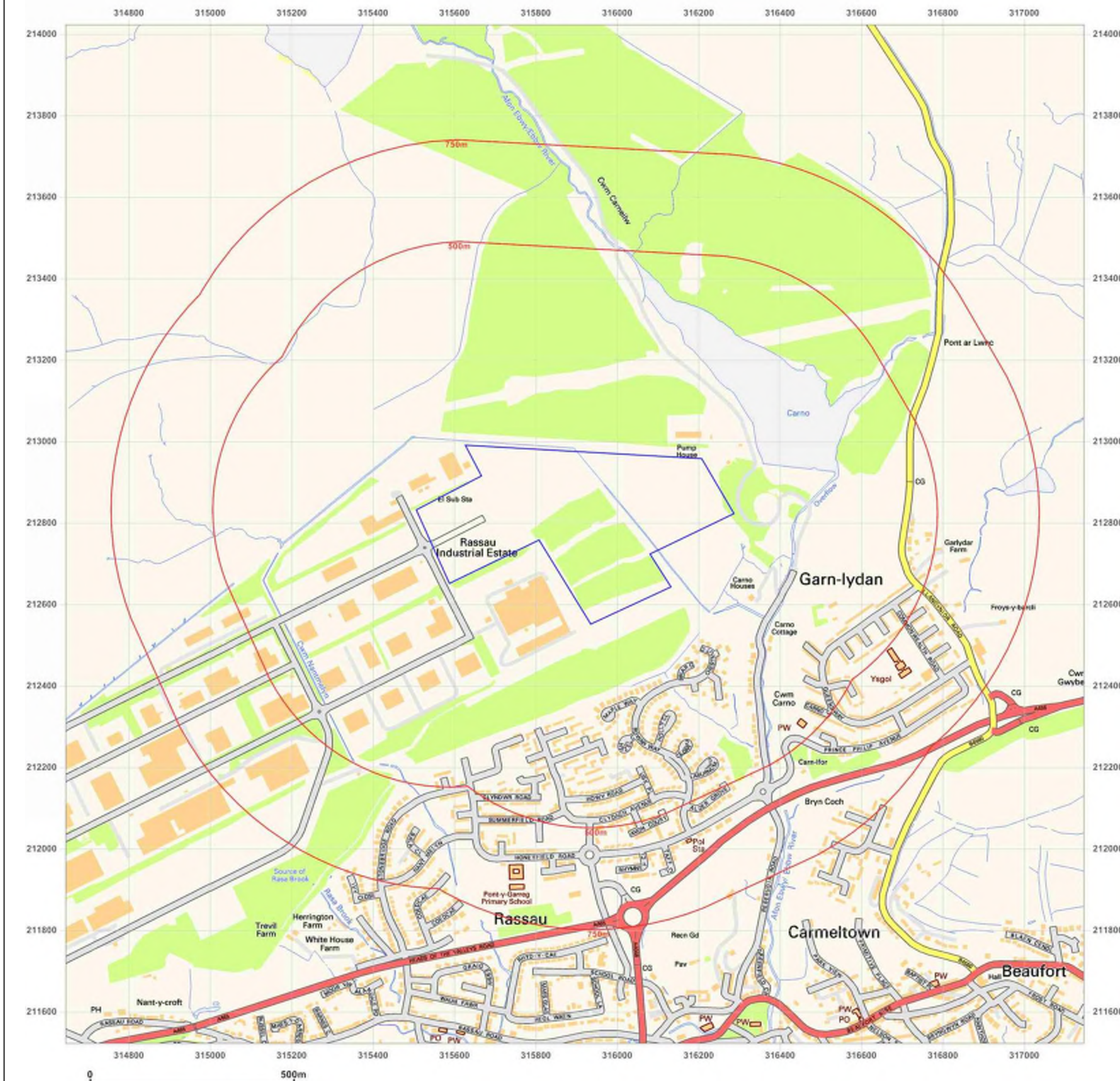


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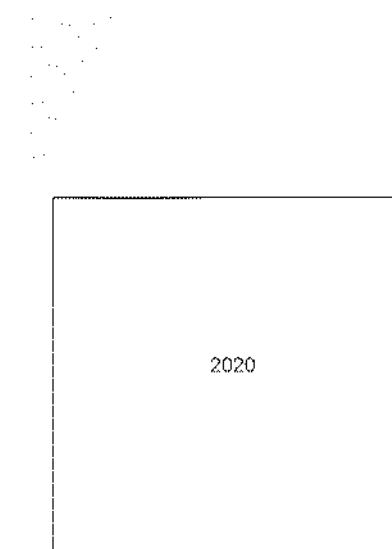
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Report Ref: GS-6719329
Grid Ref: 315895, 212772

Map Name: National Grid

Map date: 2020

Scale: 1:10,000

Printed at: 1:10,000

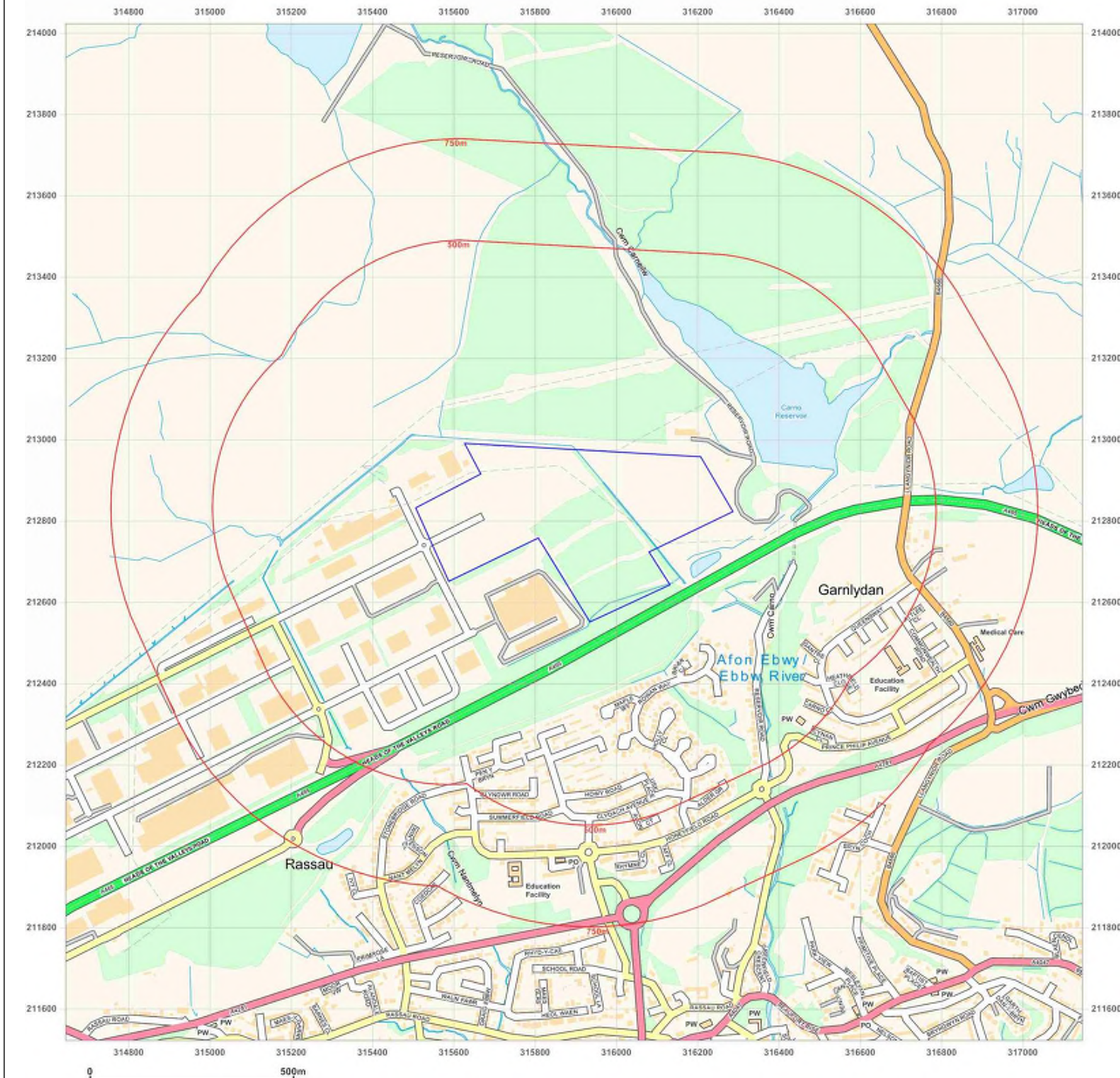


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Order Details

Date: 27/03/2020
Your ref: CiNER_Glass_Ltd
Our Ref: GS-6719330
Client: Ove Arup & Partners International Ltd

Site Details

Location: 315917 212827
Area: 19.77 ha



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

N/A: >10ha

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Contact us with any questions at:

info@groundsure.com

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>13</u>	<u>1.1</u>	<u>Historical industrial land uses</u>	1	7	7	12	-
<u>15</u>	<u>1.2</u>	<u>Historical tanks</u>	0	2	8	0	-
<u>15</u>	<u>1.3</u>	<u>Historical energy features</u>	0	4	3	2	-
16	1.4	Historical petrol stations	0	0	0	0	-
16	1.5	Historical garages	0	0	0	0	-
17	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<u>18</u>	<u>2.1</u>	<u>Historical industrial land uses</u>	1	8	9	16	-
<u>20</u>	<u>2.2</u>	<u>Historical tanks</u>	0	2	8	0	-
<u>20</u>	<u>2.3</u>	<u>Historical energy features</u>	0	6	4	3	-
21	2.4	Historical petrol stations	0	0	0	0	-
21	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
22	3.1	Active or recent landfill	0	0	0	0	-
22	3.2	Historical landfill (BGS records)	0	0	0	0	-
23	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
23	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
<u>23</u>	<u>3.5</u>	<u>Historical waste sites</u>	0	0	1	0	-
24	3.6	Licensed waste sites	0	0	0	0	-
24	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<u>25</u>	<u>4.1</u>	<u>Recent industrial land uses</u>	4	7	28	-	-
28	4.2	Current or recent petrol stations	0	0	0	0	-
28	4.3	Electricity cables	0	0	0	0	-
28	4.4	Gas pipelines	0	0	0	0	-
28	4.5	Sites determined as Contaminated Land	0	0	0	0	-



28	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	1	0	1	-
29	4.7	Regulated explosive sites	0	0	0	0	-
29	4.8	Hazardous substance storage/usage	0	0	0	0	-
29	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
30	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	32	-
35	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	3	0	-
35	4.12	Radioactive Substance Authorisations	0	0	0	0	-
36	4.13	<u>Licensed Discharges to controlled waters</u>	1	1	0	0	-
36	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
36	4.15	<u>Pollutant release to public sewer</u>	0	0	1	0	-
37	4.16	<u>List 1 Dangerous Substances</u>	0	0	2	0	-
37	4.17	List 2 Dangerous Substances	0	0	0	0	-
37	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	3	11	-
39	4.19	Pollution inventory substances	0	0	0	0	-
39	4.20	Pollution inventory waste transfers	0	0	0	0	-
39	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
40	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
42	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
43	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
45	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
45	5.5	Groundwater vulnerability- local information	None (within 0m)				
46	5.6	<u>Groundwater abstractions</u>	0	0	2	0	9
49	5.7	<u>Surface water abstractions</u>	0	0	6	0	17
54	5.8	<u>Potable abstractions</u>	0	0	4	0	6
56	5.9	<u>Source Protection Zones</u>	1	0	0	0	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
58	6.1	<u>Water Network (OS MasterMap)</u>	3	4	27	-	-



61	6.2	<u>Surface water features</u>	1	1	21	-	-
61	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
62	6.4	<u>WFD Surface water bodies</u>	0	0	2	-	-
62	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
63	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
63	7.2	Historical Flood Events	0	0	0	-	-
63	7.3	Flood Defences	0	0	0	-	-
63	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
64	7.5	Flood Storage Areas	0	0	0	-	-
65	7.6	Flood Zone 2	None (within 50m)				
65	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
66	8.1	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
68	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
69	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	3
70	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
70	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	1
71	10.4	Special Protection Areas (SPA)	0	0	0	0	0
71	10.5	National Nature Reserves (NNR)	0	0	0	0	0
71	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	3
71	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	2
72	10.8	Biosphere Reserves	0	0	0	0	0
72	10.9	Forest Parks	0	0	0	0	0
72	10.10	Marine Conservation Zones	0	0	0	0	0
72	10.11	Green Belt	0	0	0	0	0
73	10.12	Proposed Ramsar sites	0	0	0	0	0



73	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
73	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
73	10.15	Nitrate Sensitive Areas	0	0	0	0	0
74	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
75	10.17	SSSI Impact Risk Zones	0	-	-	-	-
75	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
76	11.1	World Heritage Sites	0	0	0	-	-
76	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
76	11.3	National Parks	0	0	0	-	-
76	11.4	Listed Buildings	0	0	0	-	-
77	11.5	Conservation Areas	0	0	0	-	-
77	11.6	Scheduled Ancient Monuments	0	0	0	-	-
77	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
78	<u>12.1</u>	<u>Agricultural Land Classification</u>	Grade 5 (within 250m)				
79	<u>12.2</u>	<u>Open Access Land</u>	0	0	4	-	-
79	12.3	Tree Felling Licences	0	0	0	-	-
80	12.4	Environmental Stewardship Schemes	0	0	0	-	-
80	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
81	13.1	Priority Habitat Inventory	0	0	0	-	-
81	13.2	Habitat Networks	0	0	0	-	-
81	13.3	Open Mosaic Habitat	0	0	0	-	-
81	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
82	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
83	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	0	0	1	0	-
84	<u>14.3</u>	<u>Superficial geology (10k)</u>	2	0	4	5	-

85	14.4	<u>Landslip (10k)</u>	0	0	2	2	-
86	14.5	<u>Bedrock geology (10k)</u>	2	0	2	5	-
87	14.6	<u>Bedrock faults and other linear features (10k)</u>	6	0	3	12	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
89	15.1	<u>50k Availability</u>	Identified (within 500m)				
90	15.2	Artificial and made ground (50k)	0	0	0	0	-
90	15.3	Artificial ground permeability (50k)	0	0	-	-	-
91	15.4	<u>Superficial geology (50k)</u>	2	0	3	2	-
92	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
92	15.6	Landslip (50k)	0	0	0	0	-
92	15.7	Landslip permeability (50k)	None (within 50m)				
93	15.8	<u>Bedrock geology (50k)</u>	2	0	1	3	-
94	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
94	15.10	<u>Bedrock faults and other linear features (50k)</u>	4	0	2	7	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
96	16.1	<u>BGS Boreholes</u>	2	10	62	-	-
Page	Section	Natural ground subsidence					
101	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
102	17.2	<u>Running sands</u>	Very low (within 50m)				
103	17.3	<u>Compressible deposits</u>	High (within 50m)				
104	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
105	17.5	<u>Landslides</u>	Moderate (within 50m)				
107	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
109	18.1	<u>Natural cavities</u>	1	0	0	1	-
110	18.2	<u>BritPits</u>	0	0	0	2	-
111	18.3	<u>Surface ground workings</u>	0	7	17	-	-
112	18.4	<u>Underground workings</u>	0	0	1	4	6
112	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<u>113</u>	<u>18.6</u>	<u>Non-coal mining</u>	1	0	1	0	1
113	18.7	Mining cavities	0	0	0	0	0
113	18.8	JPB mining areas	None (within 0m)				
<u>114</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
114	18.10	Brine areas	None (within 0m)				
114	18.11	Gypsum areas	None (within 0m)				
114	18.12	Tin mining	None (within 0m)				
114	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>115</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>116</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	7	11	-	-	-
117	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
117	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
118	21.1	Underground railways (London)	0	0	0	-	-
118	21.2	Underground railways (Non-London)	0	0	0	-	-
118	21.3	Railway tunnels	0	0	0	-	-
118	21.4	Historical railway and tunnel features	0	0	0	-	-
118	21.5	Royal Mail tunnels	0	0	0	-	-
119	21.6	Historical railways	0	0	0	-	-
119	21.7	Railways	0	0	0	-	-
119	21.8	Crossrail 1	0	0	0	0	-
119	21.9	Crossrail 2	0	0	0	0	-
119	21.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 26/05/2017

Site Area: 19.77ha



Recent site history - 2013 aerial photograph



Capture Date: 14/07/2013

Site Area: 19.77ha



Recent site history - 2010 aerial photograph



Capture Date: 22/05/2010

Site Area: 19.77ha



Recent site history - 2009 aerial photograph



Capture Date: 08/10/2009

Site Area: 19.77ha



Recent site history - 2001 aerial photograph

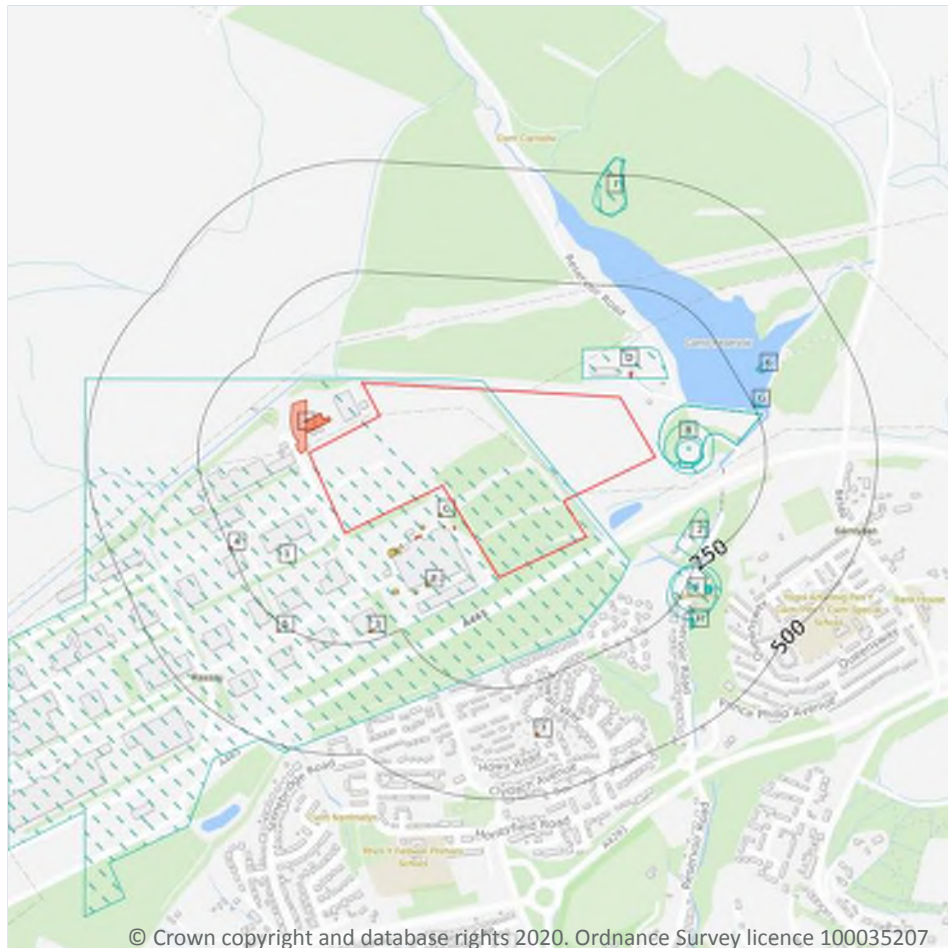


Capture Date: 27/08/2001

Site Area: 19.77ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m

27

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
1	On site	Industrial Estate	1986	1138463



ID	Location	Land use	Dates present	Group ID
B	18m NE	Unspecified Pit	1960	1046907
B	18m NE	Unspecified Pit	1986	1117156
B	18m NE	Unspecified Pit	1974	1149721
B	24m E	Filter Beds	1949	1093364
D	37m N	Pump House	1986	1033518
B	47m E	Filter Beds	1915 - 1938	1039345
B	50m E	Filter Bed	1938	996006
B	57m E	Filter Beds	1974	1034477
B	57m E	Filter Beds	1986	1073674
B	74m E	Unspecified Tank	1938	1017008
2	154m SE	Refuse Heap	1938	1019706
F	214m SE	Unspecified Old Level	1879	1004967
F	221m SE	Old Coal Level	1903	1067357
G	249m NE	Old Trial Level	1903	1071276
F	254m SE	Old Coal Level	1902	1102857
G	257m NE	Old Trial Level	1902	1047034
F	289m SE	Old Coal Levels	1938	1083434
F	290m SE	Old Coal Levels	1949	1154042
F	291m E	Unspecified Old Levels	1960	1003963
F	293m SE	Old Coal Level	1915	1089572
F	293m SE	Old Coal Level	1938	1136129
H	295m SE	Unspecified Ground Workings	1915	997489
6	297m NE	Unspecified Pit	1902 - 1903	1052445
H	297m SE	Old Coal Levels	1938	1090005
I	405m N	Refuse Heap	1960	1113942
I	411m N	Refuse Heap	1938	1063597

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

10

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
C	34m SW	Unspecified Tank	1996	151180
C	42m SW	Unspecified Tank	1996	151181
C	61m SE	Unspecified Tank	1996	151188
C	78m SE	Tanks	1996	156648
C	78m SE	Tanks	1996	156650
C	82m SE	Tanks	1996	156649
E	139m SW	Unspecified Tank	1996	151189
E	163m SE	Unspecified Tank	1996	151183
E	173m SW	Unspecified Tank	1996	151184
3	226m S	Tanks	1994	156636

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

9

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	8m NW	Electricity Substation	1994	92343



ID	Location	Land use	Dates present	Group ID
C	26m SW	Electricity Substation	1996	86123
A	42m NW	Electricity Substation	1996	95134
D	49m NE	Electricity Substation	1987	86125
D	54m NE	Electricity Substation	1996	86124
C	77m SE	Electricity Substation	1996	86122
4	244m SW	Electricity Substation	1991 - 1994	95968
5	262m SW	Electricity Substation	1989	86121
7	361m S	Electricity Substation	1977 - 1985	89152

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

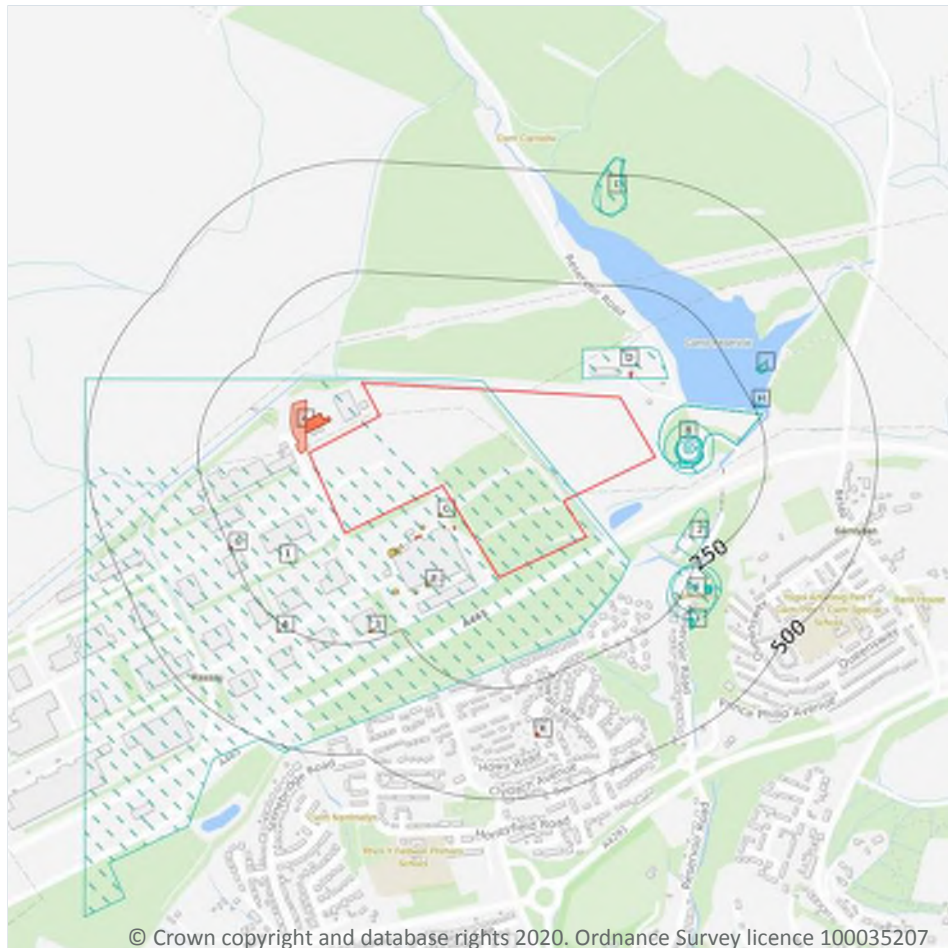
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

34

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
1	On site	Industrial Estate	1986	1138463
B	18m NE	Unspecified Pit	1960	1046907
B	18m NE	Unspecified Pit	1974	1149721

ID	Location	Land Use	Date	Group ID
B	18m NE	Unspecified Pit	1986	1117156
B	24m E	Filter Beds	1949	1093364
D	37m N	Pump House	1986	1033518
B	47m E	Filter Beds	1915	1039345
B	47m E	Filter Beds	1915	1039345
B	50m E	Filter Bed	1938	996006
B	52m E	Filter Beds	1938	1039345
B	52m E	Filter Beds	1938	1039345
B	57m E	Filter Beds	1974	1034477
B	57m E	Filter Beds	1986	1073674
B	74m E	Unspecified Tank	1938	1017008
2	154m SE	Refuse Heap	1938	1019706
F	214m SE	Unspecified Old Level	1879	1004967
F	221m SE	Old Coal Level	1903	1067357
H	249m NE	Old Trial Level	1903	1071276
F	254m SE	Old Coal Level	1902	1102857
H	257m NE	Old Trial Level	1902	1047034
F	289m SE	Old Coal Levels	1938	1083434
F	289m SE	Old Coal Levels	1938	1083434
F	290m SE	Old Coal Levels	1949	1154042
F	291m E	Unspecified Old Levels	1960	1003963
F	293m SE	Old Coal Level	1915	1089572
F	293m SE	Old Coal Level	1915	1089572
F	293m SE	Old Coal Level	1938	1136129
I	295m SE	Unspecified Ground Workings	1915	997489
J	297m NE	Unspecified Pit	1903	1052445
J	297m NE	Unspecified Pit	1902	1052445
I	297m SE	Old Coal Levels	1938	1090005

ID	Location	Land Use	Date	Group ID
I	297m SE	Old Coal Levels	1938	1090005
L	405m N	Refuse Heap	1960	1113942
L	411m N	Refuse Heap	1938	1063597

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

10

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
C	34m SW	Unspecified Tank	1996	151180
C	42m SW	Unspecified Tank	1996	151181
C	61m SE	Unspecified Tank	1996	151188
C	78m SE	Tanks	1996	156648
C	78m SE	Tanks	1996	156650
C	82m SE	Tanks	1996	156649
E	139m SW	Unspecified Tank	1996	151189
E	163m SE	Unspecified Tank	1996	151183
E	173m SW	Unspecified Tank	1996	151184
3	226m S	Tanks	1994	156636

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

13

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



Features are displayed on the Past land use - un-grouped map on **page 18**

ID	Location	Land Use	Date	Group ID
A	8m NW	Electricity Substation	1994	92343
C	26m SW	Electricity Substation	1996	86123
A	42m NW	Electricity Substation	1996	95134
A	42m NW	Electricity Substation	1994	92343
A	42m NW	Electricity Substation	1994	92343
D	49m NE	Electricity Substation	1987	86125
D	54m NE	Electricity Substation	1996	86124
C	77m SE	Electricity Substation	1996	86122
G	244m SW	Electricity Substation	1994	95968
G	246m SW	Electricity Substation	1991	95968
4	262m SW	Electricity Substation	1989	86121
K	361m S	Electricity Substation	1977	89152
K	361m S	Electricity Substation	1985	89152

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



— Site Outline
Search buffers in metres (m)
■ Historical waste sites

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m**1**

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 22**

ID	Location	Address	Further Details	Date
1	94m W	Site Address: Rassau Industrial Estate, EBBW VALE, Gwent, NP23 5SD	Type of Site: Car Battery Recycling Facility Planning application reference: C2005/0158 Description: Scheme comprises construction of a battery/metal recycling plant of 7,820 sqm. Scheme provides 7,400 sqm of industrial floor space including storage of 1,800 sqm and a vehicle workshop building of 324 sqm and a two storey office building of 340 sqm. Scheme includes changing rooms totalling 360 sqm, 2 canteens totalling 119 sqm, laboratory of 70 sqm, overhead gantry crane, 10 roller shutter doors, 76 parking spaces and infrastructure with access and associated works. Construction - block, profiled metal cladding, red architectural masonry stone cladding walls; insitu concrete floor; pitched, profiled metal cladding roof; 10 roller shutter, fire doors; hoist lifts; pad foundations; steel frame; black top surfacing, gravel, road drainage site works; , fire alarm system fittings. An application (ref: C2005/0158) for Detailed Planning permission was granted by Blaenau Gwent B.C. Works commenced November 2005 for phase 1 and phase 2 is to commence early August 2006. Data source: Historic Planning Application Data Type: Point	14/11/2005

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	0
----------------------------	----------

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	0
----------------------------	----------

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



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4.1 Recent industrial land uses

Records within 250m

39

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Company	Address	Activity	Category
1	On site	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
2	On site	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
4	On site	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
5	On site	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
6	2m N	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
8	9m SW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
9	13m NW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
A	19m NW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
10	42m SW	Electricity Sub Station	Gwent, NP23	Electrical Features	Infrastructure and Facilities
C	45m SE	Electricity Sub Station	Gwent, NP23	Electrical Features	Infrastructure and Facilities
D	46m SW	Chimney	Gwent, NP23	Chimneys	Industrial Features
11	50m NE	Electricity Sub Station	Gwent, NP23	Electrical Features	Infrastructure and Facilities
A	51m W	Gas Governor	Gwent, NP23	Gas Features	Infrastructure and Facilities
12	56m NW	Electricity Sub Station	Gwent, NP23	Electrical Features	Infrastructure and Facilities
A	59m W	Enviro Wales	Plateau 1-2, Rassau Industrial Estate, Rassau, Ebbw Vale, Gwent, NP23 5SD	Recycling, Reclamation and Disposal	Recycling Services
13	67m N	Pumping Station	Gwent, NP23	Water Pumping Stations	Industrial Features
D	84m SE	Electricity Sub Station	Gwent, NP23	Electrical Features	Infrastructure and Facilities
C	86m SE	Tank	Gwent, NP23	Tanks (Generic)	Industrial Features
C	86m SE	Tanks	Gwent, NP23	Tanks (Generic)	Industrial Features
A	93m NW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
E	99m SW	Chimney	Gwent, NP23	Chimneys	Industrial Features



ID	Location	Company	Address	Activity	Category
14	100m SE	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
F	100m SW	Sears Manufacturing	Unit 42, Rassau Industrial Estate, Rassau, Ebbw Vale, Gwent, NP23 5SD	Furniture	Consumer Products
A	107m NW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
15	114m NW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
16	120m S	Box Litho	Unit 34 Rassau Industrial Estate, Rassau, Ebbw Vale, Gwent, NP23 5SD	Luggage, Bags, Umbrellas and Travel Accessories	Consumer Products
A	124m NW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
17	133m N	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
E	144m SW	Chimney	Gwent, NP23	Chimneys	Industrial Features
18	145m N	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
19	166m NW	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
20	180m N	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
G	205m S	G T S Flexible Materials Ltd	Unit 41, Rassau Industrial Estate, Rassau, Ebbw Vale, Gwent, NP23 5SD	Industrial Coatings and Finishings	Industrial Products
B	211m W	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
H	229m SE	Pumping Station	Gwent, NP23	Water Pumping Stations	Industrial Features
G	229m S	Tank	Gwent, NP23	Tanks (Generic)	Industrial Features
23	231m N	Pylon	Gwent, NP23	Electrical Features	Infrastructure and Facilities
24	233m SW	James Town Industries	Unit 45, Rassau Industrial Estate, Rassau, Ebbw Vale, Gwent, NP23 5SD	General Construction Supplies	Industrial Products



ID	Location	Company	Address	Activity	Category
26	243m SW	Electricity Sub Station	Gwent, NP23	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
----------------------------	----------

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
----------------------------	----------

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
----------------------------	----------

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
----------------------------	----------

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	2
----------------------------	----------

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Company	Address	Operational status	Tier
B	31m SW	EnviroWales Limited	EnviroWales Limited, Rassau Industrial Estate, Plateaux 1 and 2, Rassau Industrial Estate, Ebbw Vale, Gwent, NP23 5SD	Current COMAH Site	COMAH Upper Tier Operator
30	492m SW	GS Yuasa Battery Manufacturing UK Limited	GS Yuasa Battery Manufacturing UK Limited, Rassau Industrial Estate, Unit 22 & 28, Rassau Industrial Estate, Ebbw Vale, Blaenau Gwent, NP23 5SD	Current COMAH Site	COMAH Lower Tier Operator

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m **0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m **0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m **0**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.10 Licensed industrial activities (Part A(1))

Records within 500m

32

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Details	
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; REFINING (NOT ELECTROLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: DP3534UB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 02/07/2008 Status: DETERMINATION
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: MELTING, INCLUDING MAKING ALLOYS, OF NON-FERROUS METALS, INCLUDING RECOVERED PRO... Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 02/11/2017 Effective Date: 02/11/2017 Last date noted as effective: 30/01/2020 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: UNLESS FALLING WITHIN PART A (2) OF THIS SECTION, PRODUCING NONFERROUS METALS FR... Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 02/11/2017 Effective Date: 02/11/2017 Last date noted as effective: 30/01/2020 Status: EFFECTIVE
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 26/04/2005 Effective Date: 26/04/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 26/04/2005 Effective Date: 26/04/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 26/04/2005 Effective Date: 26/04/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; REFINING (NOT ELECTRLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 26/04/2005 Effective Date: 26/04/2005 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: EP3439LB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 28/04/2006 Effective Date: 28/04/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: EP3439LB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 28/04/2006 Effective Date: 28/04/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: EP3439LB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 28/04/2006 Effective Date: 28/04/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIRO WALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; REFINING (NOT ELECTRLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: EP3439LB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 28/04/2006 Effective Date: 28/04/2006 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: - Permit Number: EP3230BW Original Permit Number: VP3630EY	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 01/12/2016 Status: EFFECTIVE



ID	Location	Details	
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: DP3534UB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 02/07/2008 Status: DETERMINATION
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: - Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 02/11/2017 Effective Date: 02/11/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: - Permit Number: EP3230BW Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 02/11/2017 Effective Date: 02/11/2017 Last date noted as effective: 01/04/2018 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: DP3534UB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 02/07/2008 Status: DETERMINATION
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: DP3534UB Original Permit Number: EP3230BW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 02/07/2008 Status: DETERMINATION
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: - Permit Number: EP3230BW Original Permit Number: VP3630EY	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 30/11/2017 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: - Permit Number: EP3230BW Original Permit Number: VP3630EY	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 30/11/2017 Status: EFFECTIVE



ID	Location	Details	
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: - Permit Number: EP3230BW Original Permit Number: VP3630EY	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 30/11/2017 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V004 Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: GP3938GX Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/01/2009 Effective Date: 09/01/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V004 Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: GP3938GX Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/01/2009 Effective Date: 09/01/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V004 Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: GP3938GX Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/01/2009 Effective Date: 09/01/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V004 Process: NON-FERROUS METALS; REFINING (NOT ELECTRLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: GP3938GX Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/01/2009 Effective Date: 09/01/2009 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: VP3630EY Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE

ID	Location	Details	
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: VP3630EY Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: VP3630EY Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EPR/EP3230BW Process: NON-FERROUS METALS; REFINING (NOT ELECTRLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: VP3630EY Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 15/04/2014 Effective Date: 15/04/2014 Last date noted as effective: 17/11/2015 Status: EFFECTIVE
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V005 Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: WP3037TE Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/07/2010 Effective Date: 09/07/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V005 Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: WP3037TE Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/07/2010 Effective Date: 09/07/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V005 Process: NON-FERROUS METALS; PRODUCING ETC LEAD AND ALLOYS WITH RELEASE TO AIR Permit Number: WP3037TE Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/07/2010 Effective Date: 09/07/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED



ID	Location	Details	
I	373m SW	Operator: ENVIROWALES LTD Installation Name: RASSAU RECYCLING FACILITY EA/EPR/EP3230BW/V005 Process: NON-FERROUS METALS; REFINING (NOT ELECTRLYTIC COPPER) (UNLESS 2.2 A (2) (A) OR 2.2 B (A), (D) OR (E)) Permit Number: WP3037TE Original Permit Number: EP3230BW	EPR Reference: - Issue Date: 09/07/2010 Effective Date: 09/07/2010 Last date noted as effective: 17/11/2015 Status: SUPERCEDED

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

3

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Address	Details	
F	116m SW	Sears Manufacturing Company Ltd, Unit 42, Rassau Industrial Estate, Ebbw Vale, NP23 5SD	Process: Di-isocyanate Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
G	200m S	GTS Flexible Materials Ltd, Unit 41, Rassau Industrial Estate, Ebbw Vale, Blaenau, Gwent, NP23 5SD	Process: Coating Processes Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
G	206m S	Gts Flexible Materials Ltd, Unit 41, Rassau Industrial Estate, Ebbw Vale, NP23 5SD	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.13 Licensed Discharges to controlled waters

Records within 500m

2

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Address	Details	
3	On site	CARNO LOWER	Effluent Type: UNSPECIFIED Permit Number: AM0001401 Permit Version: 1 Receiving Water: SOAKAWAY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 02/10/1989 Effective Date: 02/10/1989 Revocation Date: 14/03/1994
7	8m NW	RASSAU 400KV SUBSTATION RASSAU IND, RASSAU 400KV SUBSTATION, RASSAU INDUSTRIAL ESTATE, EBBW VALE, BLAENAU GWENT, NP3 5SD	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: AN0335601 Permit Version: 1 Receiving Water: A TRIB OF THE RIVER EBBW	Status: REVOKED UNDER EPR 2010 Issue date: 02/07/2003 Effective Date: 02/07/2003 Revocation Date: 08/11/2010

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Address	Details	
G	202m S	GTS FLEXIBLE MATERIALS LTD, UNIT 41, RASSAU INDUSTRIAL ESTATE, UNIT 41,RASSAU INDUSTRIAL ESTATE, EBBW VALE, GWENT, NP23 5SD	Permission reference: BZ6635 Local Authority: COUNTY BOROUGH OF BLAENAU GWENT First received date: 01/07/2010	Last received date: 01/07/2017 Status: RECEIVED

This data is sourced from the Environment Agency and Natural Resources Wales.



4.16 List 1 Dangerous Substances

Records within 500m

2

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Name	Status	Receiving Water	Authorised Substances
G	205m S	Gts Flexible Materials Ltd, Unit 41, Rassau Ind Estate, Ebbw	Active	-	Perchlorethylene
25	238m SW	Envirowales Ltd., Raussau Industrial Estate, Ebbw Vale	Active	-	Mercury (other), Cadmium

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

14

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 25**

ID	Location	Details	
21	194m SE	Incident Date: 24/02/2003 Incident Identification: 139007 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
22	226m SE	Incident Date: 26/02/2014 Incident Identification: 1212389 Pollutant: Inert Materials and Wastes Pollutant Description: Rocks and Gravel	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
H	244m SE	Incident Date: 02/11/2002 Incident Identification: 118347 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
27	326m SE	Incident Date: 11/10/2013 Incident Identification: 1166925 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: - Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	407m SW	Incident Date: 16/04/2015 Incident Identification: 1329353 Pollutant: Sewage Materials Pollutant Description: Process Effluent	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	408m SW	Incident Date: 14/12/2005 Incident Identification: 366050 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
J	413m SW	Incident Date: 25/07/2015 Incident Identification: 1358550 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
28	418m SW	Incident Date: 11/11/2014 Incident Identification: 1293627 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
29	437m S	Incident Date: 14/06/2003 Incident Identification: 165866 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
K	485m SE	Incident Date: 22/05/2013 Incident Identification: 1114977 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	486m S	Incident Date: 01/09/2003 Incident Identification: 186439 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	492m S	Incident Date: 12/08/2014 Incident Identification: 1268007 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: - Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)



ID	Location	Details	
K	496m SE	Incident Date: 07/07/2016 Incident Identification: 1603732 Pollutant: Sewage Material Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details
K	496m SE	Incident Date: 07/07/2016 Incident Identification: 1603732 Pollutant: - Pollutant Description: -	Water Impact: Category 3 (Minor) Land Impact: No Details Air Impact: No Details

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

Records within 500m

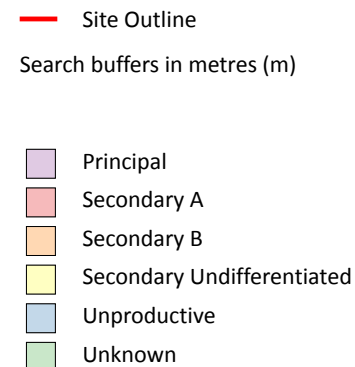
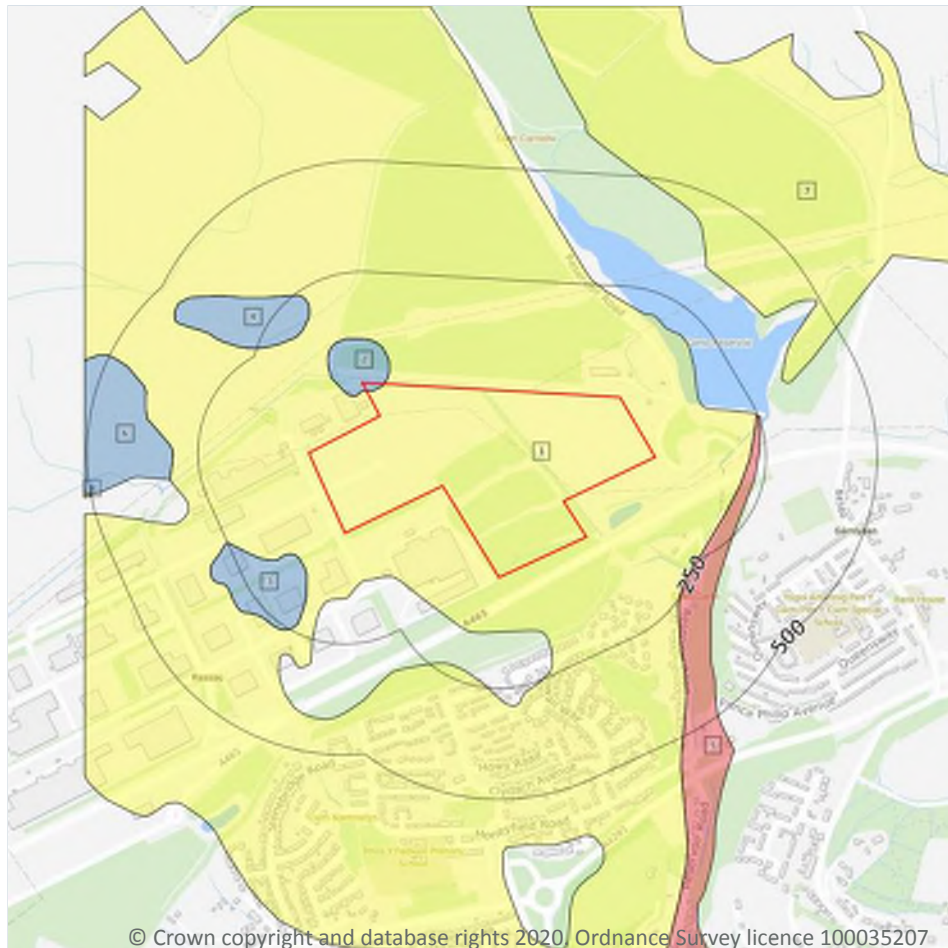
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

8

Aquifer status of groundwater held within superficial geology.

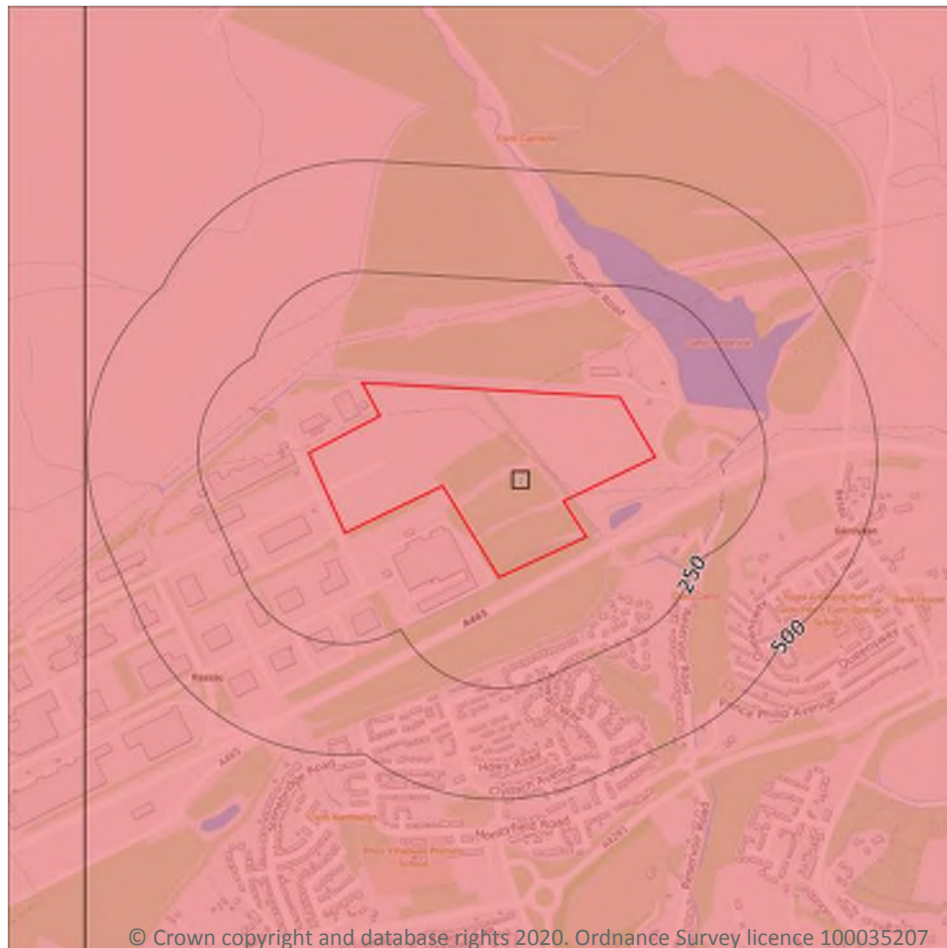
Features are displayed on the Hydrogeology map on **page 40**

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	118m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	178m NW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	199m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	306m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	335m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	497m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

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5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

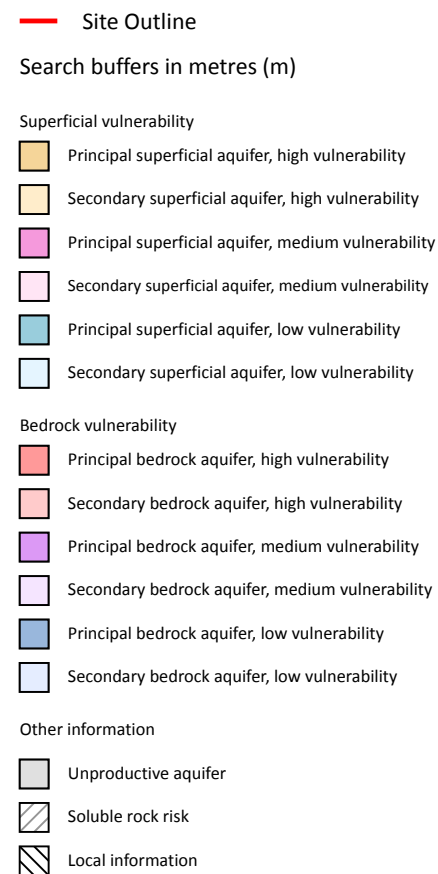
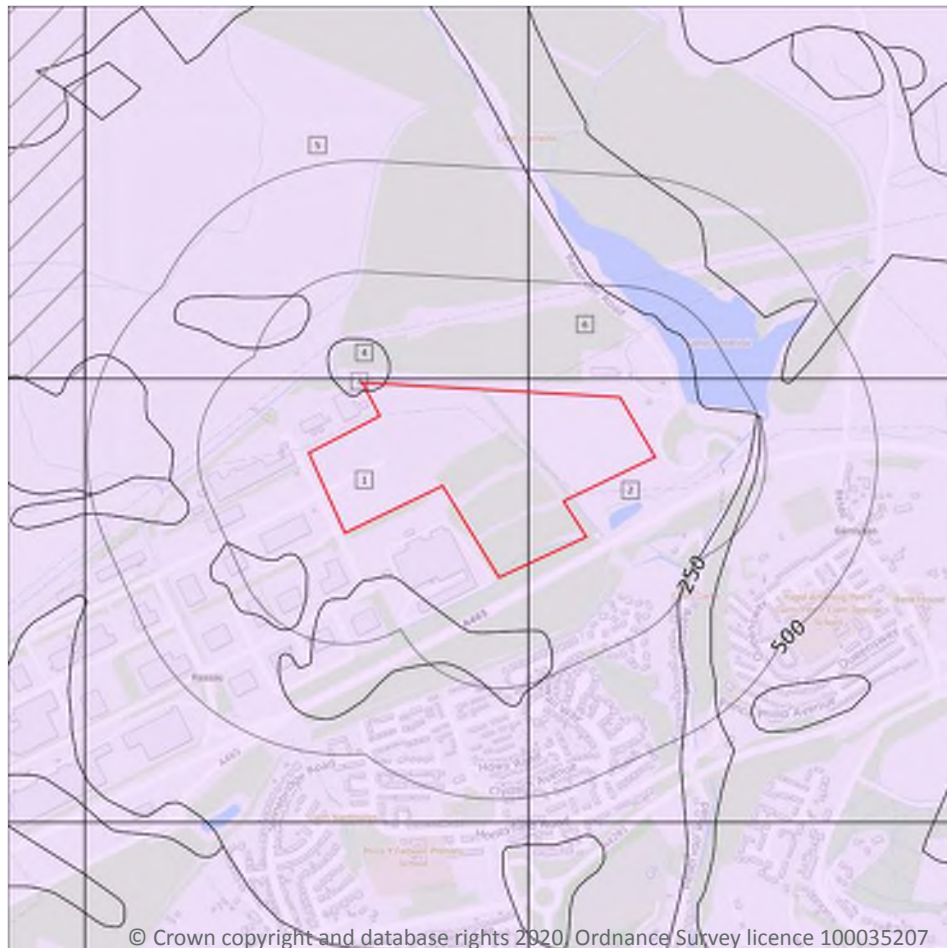
Features are displayed on the Bedrock aquifer map on **page 42**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

6

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 43**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
4	8m N	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
5	11m N	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
6	29m N	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

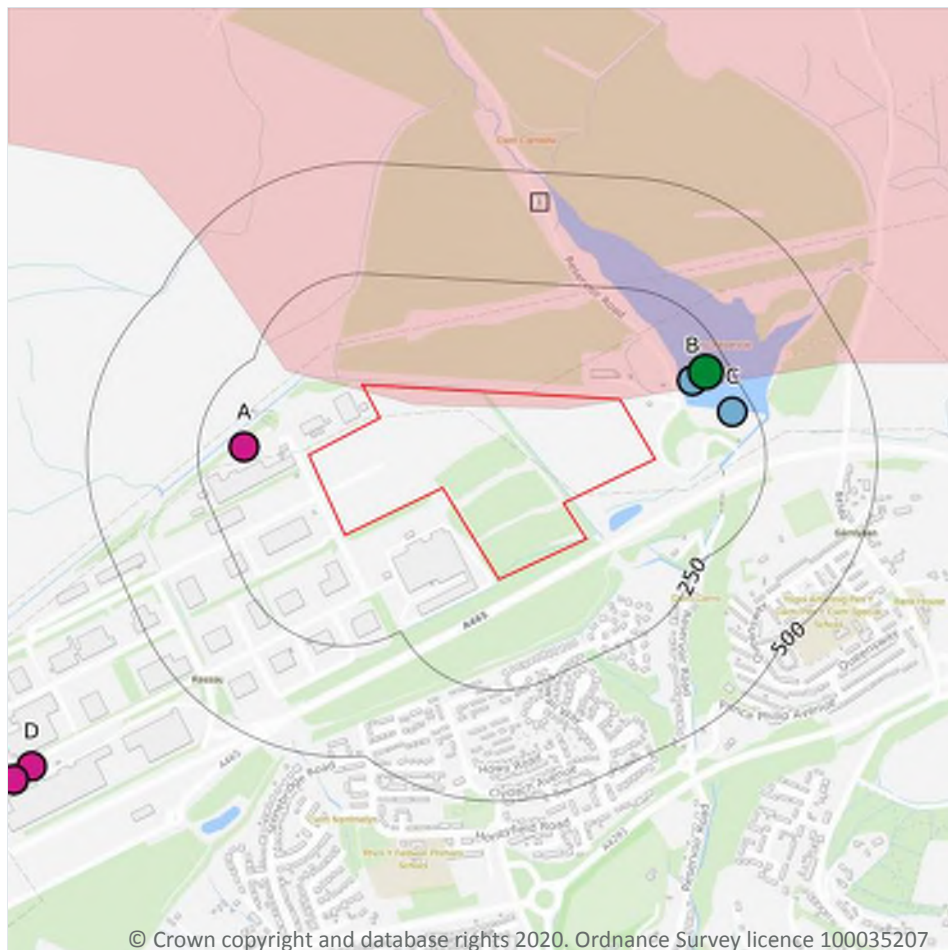
Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

11

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 46**

ID	Location	Details	
A	147m W	Status: Active Licence No: WA/056/0064/0005 Details: Process Water - Medium Direct Source: South Wales Lower Coal Measures Point: - Data Type: Point Name: - Easting: 315359 Northing: 212850	Annual Volume (m ³): 33,901.20 Max Daily Volume (m ³): 92.88 Original Application No: - Original Start Date: May 17 2019 12:00AM Expiry Date: May 17 2022 12:00AM Issue No: - Version Start Date: - Version End Date: -
A	147m W	Status: Active Licence No: WA/056/0064/0005 Details: Drinking, Cooking, Sanitary Washing (small garden) - Commercial / Industrial / Public Services - Medium Direct Source: South Wales Lower Coal Measures Point: - Data Type: Point Name: - Easting: 315359 Northing: 212850	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: May 17 2019 12:00AM Expiry Date: May 17 2022 12:00AM Issue No: - Version Start Date: - Version End Date: -
D	878m SW	Status: Historical Licence No: 20/56/64/0029 Details: Process Water Direct Source: EAW Groundwater Point: BOREHOLE B AT YUASA BATTERY UK SITE Data Type: Point Name: Yuasa Battery UK Ltd Easting: 314880 Northing: 212130	Annual Volume (m ³): 262800 Max Daily Volume (m ³): 720 Original Application No: - Original Start Date: 07/01/1999 Expiry Date: 01/04/2013 Issue No: 102 Version Start Date: 09/12/2004 Version End Date: -
D	927m SW	Status: Historical Licence No: WA/056/0064/002 Details: Process Water Direct Source: EAW Groundwater Point: BOREHOLE B KNOWN AS BOREHOLE 1 Data Type: Point Name: Yuasa Battery UK Ltd Easting: 314841 Northing: 212101	Annual Volume (m ³): 108134 Max Daily Volume (m ³): 720 Original Application No: - Original Start Date: 02/07/2013 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 16/07/2015 Version End Date: -
D	927m SW	Status: Active Licence No: WA/056/0064/002 Details: Process Water - Medium Direct Source: Underground strata comprising of Millstone Grit Point: - Data Type: Point Name: - Easting: 314841 Northing: 212101	Annual Volume (m ³): 108,134 Max Daily Volume (m ³): 720 Original Application No: - Original Start Date: Apr 2 2019 12:00AM Expiry Date: Mar 31 2029 12:00AM Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	967m SW	Status: Historical Licence No: 20/56/64/0029 Details: Process water Direct Source: EAW Groundwater Point: BOREHOLE B AT RASSAU INDUSTRIAL ESTATE Data Type: Point Name: Yuasa Battery UK Ltd Easting: 314760 Northing: 212150	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/01/1999 Expiry Date: 01/04/2013 Issue No: 101 Version Start Date: 01/04/2001 Version End Date: -
-	986m SW	Status: Historical Licence No: 20/56/64/0029 Details: Process Water Direct Source: EAW Groundwater Point: BOREHOLE A AT YUASA BATTERY UK SITE Data Type: Point Name: Yuasa Battery UK Ltd Easting: 314790 Northing: 212070	Annual Volume (m ³): 262800 Max Daily Volume (m ³): 720 Original Application No: - Original Start Date: 07/01/1999 Expiry Date: 01/04/2013 Issue No: 102 Version Start Date: 09/12/2004 Version End Date: -
-	987m SW	Status: Historical Licence No: WA/056/0064/002 Details: Process Water Direct Source: EAW Groundwater Point: BOREHOLE A KNOWN AS BOREHOLE 2 Data Type: Point Name: Yuasa Battery UK Ltd Easting: 314790 Northing: 212069	Annual Volume (m ³): 108134 Max Daily Volume (m ³): 720 Original Application No: - Original Start Date: 02/07/2013 Expiry Date: 31/03/2029 Issue No: 2 Version Start Date: 16/07/2015 Version End Date: -
-	987m SW	Status: Active Licence No: WA/056/0064/002 Details: Process Water - Medium Direct Source: Underground strata comprising of Millstone Grit Point: - Data Type: Point Name: - Easting: 314790 Northing: 212069	Annual Volume (m ³): 108,134.40 Max Daily Volume (m ³): 720 Original Application No: - Original Start Date: Apr 2 2019 12:00AM Expiry Date: Mar 31 2029 12:00AM Issue No: - Version Start Date: - Version End Date: -
-	1002m SW	Status: Historical Licence No: 20/56/64/0029 Details: Process water Direct Source: EAW Groundwater Point: BOREHOLE A AT RASSAU INDUSTRIAL ESTATE Data Type: Point Name: Yuasa Battery UK Ltd Easting: 314750 Northing: 212100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/01/1999 Expiry Date: 01/04/2013 Issue No: 101 Version Start Date: 01/04/2001 Version End Date: -



ID	Location	Details	
-	1480m E	Status: Historical Licence No: 20/56/64/0022 Details: Transfer between sources Direct Source: EAW Groundwater Point: BRYN PIT MINESHAFT Data Type: Point Name: Corus UK Ltd Easting: 317710 Northing: 212420	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/12/1969 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

23

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 46**

ID	Location	Details	
B	162m NE	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR PIPED DRAWOFF (1) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 316370 Northing: 213000	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -
B	162m NE	Status: Historical Licence No: 20/56/64/0003 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR PIPED DRAWOFF (1) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 316370 Northing: 213000	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -



ID	Location	Details	
B	162m NE	Status: Active Licence No: 20/56/64/0003 Details: Transfer between Sources (Post Water Act 2003) - Very Low Direct Source: - Point: - Data Type: Point Name: - Easting: 316370 Northing: 213000	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): - Original Application No: - Original Start Date: May 19 2011 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
B	198m NE	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR PIPED DRAWOFF (2) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 316400 Northing: 213020	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -
B	198m NE	Status: Historical Licence No: 20/56/64/0003 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR PIPED DRAWOFF (2) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 316400 Northing: 213020	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -
C	204m NE	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR (DRAW-OFF TOWER) Data Type: Point Name: Dwr Cymru Cyf Easting: 316460 Northing: 212930	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 9116.91 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 100 Version Start Date: 26/03/2007 Version End Date: -
-	984m N	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: UPPER CARNO DRAWOFF Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 315330 Northing: 213930	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -



ID	Location	Details	
-	984m N	Status: Active Licence No: 20/56/64/0003 Details: Pottable Water Supply - Direct - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 315330 Northing: 213930	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): - Original Application No: - Original Start Date: May 19 2011 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	997m N	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: UPPER CARNO RESERVOIR (DRAW-OFF TOWER) Data Type: Point Name: Dwr Cymru Cyf Easting: 315350 Northing: 213950	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 9116.91 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 100 Version Start Date: 26/03/2007 Version End Date: -
-	1124m E	Status: Historical Licence No: 20/56/64/0013 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: BLAEN-Y-CWM RESERVOIR Data Type: Point Name: Corus UK Ltd Easting: 317410 Northing: 212800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -
-	1124m E	Status: Historical Licence No: 20/56/33/0013 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: BLAEN-Y-CWM RESERVOIR, EBBW VALE Data Type: Point Name: Dwr Cymru Cyf Easting: 317410 Northing: 212800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/08/2004 Expiry Date: 31/03/2008 Issue No: 1 Version Start Date: 16/08/2004 Version End Date: -
-	1124m E	Status: Historical Licence No: 20/56/33/0013 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: BLAEN-Y-CWM RESERVOIR Data Type: Point Name: Dwr Cymru Cyf Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22276 Original Application No: - Original Start Date: 16/08/2004 Expiry Date: 31/03/2008 Issue No: 1 Version Start Date: 01/04/2006 Version End Date: -



ID	Location	Details	
-	1124m E	Status: Historical Licence No: 20/56/33/0014 Details: Transfer Between Sources (Post Water Act 2003) Direct Source: EAW Surface Water Point: BLAEN-Y-CWM RESERVOIR Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22276 Original Application No: - Original Start Date: 28/01/2008 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 17/05/2011 Version End Date: -
-	1124m E	Status: Historical Licence No: 20/56/33/0014 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: BLAEN-Y-CWM RESERVOIR Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22276 Original Application No: - Original Start Date: 28/01/2008 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 17/05/2011 Version End Date: -
-	1124m E	Status: Active Licence No: 20/56/33/0014 Details: Pottable Water Supply - Direct - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22,257.60 Original Application No: - Original Start Date: May 17 2011 12:00AM Expiry Date: Mar 31 2026 12:00AM Issue No: - Version Start Date: - Version End Date: -
-	1124m E	Status: Active Licence No: 20/56/33/0014 Details: Transfer between Sources (Post Water Act 2003) - Very Low Direct Source: - Point: - Data Type: Point Name: - Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22,257.60 Original Application No: - Original Start Date: May 17 2011 12:00AM Expiry Date: Mar 31 2026 12:00AM Issue No: - Version Start Date: - Version End Date: -
-	1417m S	Status: Historical Licence No: 20/56/64/0015 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: RHYD-Y-BLEW RESERVOIR Data Type: Point Name: Corus UK Ltd Easting: 316060 Northing: 211140	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -



ID	Location	Details	
-	1556m SE	Status: Historical Licence No: 20/56/64/0014 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: UPPER BOAT POND AND LOWER BOAT POND Data Type: Point Name: Corus UK Ltd Easting: 317500 Northing: 211850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -
-	1676m S	Status: Historical Licence No: 20/56/64/0015 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: WAUN-Y-POUND POND (NO.4) Data Type: Point Name: Corus UK Ltd Easting: 315380 Northing: 210970	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -
-	1781m SE	Status: Historical Licence No: 20/56/64/0007 Details: Transfer between sources Direct Source: EAW Surface Water Point: GLANY YR AFON PUMPING STATION (POINT 3) Data Type: Point Name: Corus UK Ltd Easting: 317020 Northing: 211100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -
-	1858m S	Status: Historical Licence No: 20/56/64/0015 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: WAUN-Y-POUND POND (NO.3) Data Type: Point Name: Corus UK Ltd Easting: 315480 Northing: 210750	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -

ID	Location	Details	
-	1908m S	Status: Historical Licence No: 20/56/64/0015 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: WAUN-Y-POUND POND (NO.2) Data Type: Point Name: Corus UK Ltd Easting: 315400 Northing: 210720	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -
-	1936m S	Status: Historical Licence No: 20/56/64/0015 Details: General use relating to Secondary Category (Medium Loss) Direct Source: EAW Surface Water Point: WAUN-Y-POUND POND (NO.1) Data Type: Point Name: Corus UK Ltd Easting: 315250 Northing: 210740	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 17/04/2000 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

10

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 46**

ID	Location	Details	
A	147m W	Status: Active Licence No: WA/056/0064/0005 Details: Drinking, Cooking, Sanitary Washing (small garden) - Commercial / Industrial / Public Services - Medium Direct Source: South Wales Lower Coal Measures Point: - Data Type: Point Name: - Easting: 315359 Northing: 212850	Annual Volume (m ³): 0 Max Daily Volume (m ³): - Original Application No: - Original Start Date: May 17 2019 12:00AM Expiry Date: May 17 2022 12:00AM Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
B	162m NE	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR PIPED DRAWOFF (1) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 316370 Northing: 213000	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -
B	198m NE	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR PIPED DRAWOFF (2) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 316400 Northing: 213020	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -
C	204m NE	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: LOWER CARNO RESERVOIR (DRAW-OFF TOWER) Data Type: Point Name: Dwr Cymru Cyf Easting: 316460 Northing: 212930	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 9116.91 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 100 Version Start Date: 26/03/2007 Version End Date: -
-	984m N	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: UPPER CARNO DRAWOFF Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 315330 Northing: 213930	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 26491.3 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 101 Version Start Date: 19/05/2011 Version End Date: -
-	984m N	Status: Active Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 315330 Northing: 213930	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): - Original Application No: - Original Start Date: May 19 2011 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -



ID	Location	Details	
-	997m N	Status: Historical Licence No: 20/56/64/0003 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: UPPER CARNO RESERVOIR (DRAW-OFF TOWER) Data Type: Point Name: Dwr Cymru Cyf Easting: 315350 Northing: 213950	Annual Volume (m ³): 3,327,672 Max Daily Volume (m ³): 9116.91 Original Application No: - Original Start Date: 18/01/1973 Expiry Date: - Issue No: 100 Version Start Date: 26/03/2007 Version End Date: -
-	1124m E	Status: Historical Licence No: 20/56/33/0013 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: BLAEN-Y-CWM RESERVOIR Data Type: Point Name: Dwr Cymru Cyf Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22276 Original Application No: - Original Start Date: 16/08/2004 Expiry Date: 31/03/2008 Issue No: 1 Version Start Date: 01/04/2006 Version End Date: -
-	1124m E	Status: Historical Licence No: 20/56/33/0014 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: BLAEN-Y-CWM RESERVOIR Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22276 Original Application No: - Original Start Date: 28/01/2008 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 17/05/2011 Version End Date: -
-	1124m E	Status: Active Licence No: 20/56/33/0014 Details: Potable Water Supply - Direct - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 317410 Northing: 212800	Annual Volume (m ³): 6,341,670 Max Daily Volume (m ³): 22,257.60 Original Application No: - Original Start Date: May 17 2011 12:00AM Expiry Date: Mar 31 2026 12:00AM Issue No: - Version Start Date: - Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

1

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on **page 46**



ID	Location	Type	Description
1	On site	1	Inner catchment

This data is sourced from the Environment Agency and Natural Resources Wales.

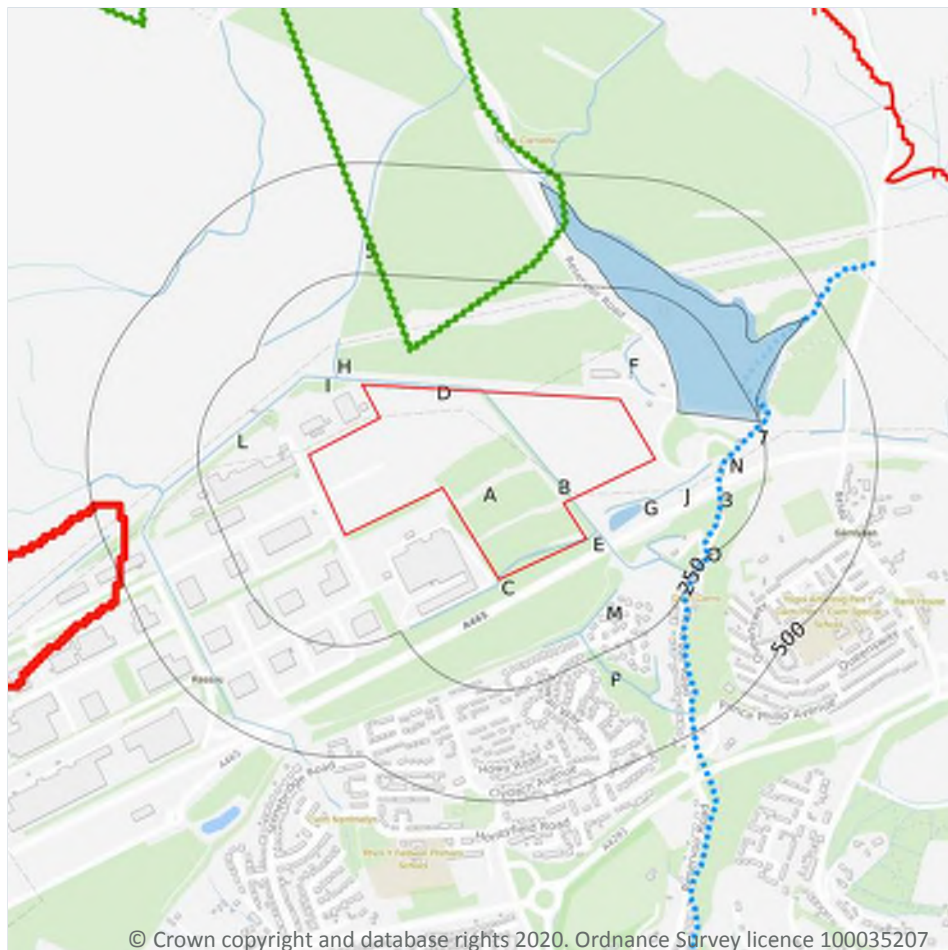
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

34

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 58**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	10m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	13m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	30m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	38m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	55m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	55m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	56m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	56m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	58m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	58m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	74m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
J	78m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	91m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	114m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	120m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	123m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	133m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	135m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	137m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	148m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Ebwy
3	149m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Afon Ebwy
E	171m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	172m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	174m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
M	181m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	182m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	186m E	Manmade watercourse for water transfer.	On ground surface	Watercourse may not contain water all year round	Afon Ebwy
P	186m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	188m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Ebwy
8	214m NE	Reservoir. An area of non-tidal water used for storing water.	On ground surface	Watercourse contains water year round (in normal circumstances)	Afon Ebwy
E	244m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

23

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 58**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.



Features are displayed on the Hydrology map on **page 58**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Ebbw R - source to conf Ebbw Fach R	GB109056032900	Ebbw Sirhowy	South East Valleys

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	2
---------------------------	----------

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 58**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
K	98m NE	Lake	Carno Reservoir	GB30940635	Moderate	Good	Moderate	2016
4	150m E	River	Ebbw R - source to conf Ebbw Fach R	GB109056032900	Moderate	Good	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1
------------------------	----------

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 58**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	SE Valleys Carboniferous Coal Measures	GB40902G201900	Poor	Poor	Good	2016

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

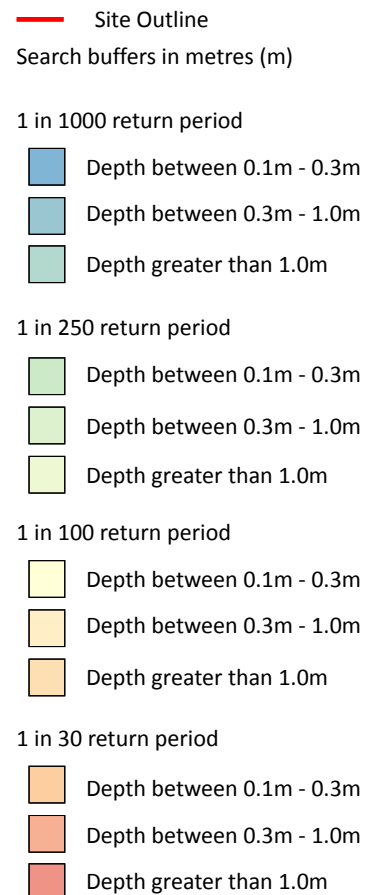
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, Greater than 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 66**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

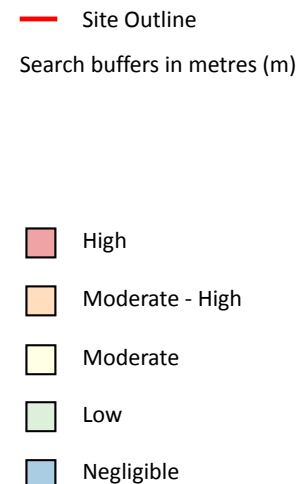
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 68**

This data is sourced from Ambiantal Risk Analytics.

ID	Location	Name	Data source
4	1281m NE	Mynydd Llangatwg (Mynydd Llangattock)	Natural Resources Wales
6	1470m N	Mynydd Llangynidr	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 69**

ID	Location	Name	Features of interest	Habitat description	Data source
3	888m NE	Usk Bat Sites / Safleodd Ystumod Wysg	Acid peat-stained lakes and ponds; Dry heaths; Active raised bogs; Degraded raised bog; Blanket bog; Hard-water springs depositing lime; Calcium-rich springwater-fed fens; Plants in crevices in base-rich rocks; Caves not open to the public; Mixed woodland on base-rich soils associated with rocky slopes; Lesser horseshoe bat; Greater horseshoe bat; Barbastelle; Bechstein's bat.	Inland rocks, Scree, Sands, Permanent Snow and ice; Improved grassland; Dry grassland, Steppes; Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Inland water bodies (Standing water, Running water); Alpine and sub-Alpine grassland; Broad-leaved deciduous woodland; Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Bogs, Marshes, Water fringed vegetation, Fens	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m

3

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 69**

ID	Location	Name	Data source
1	831m SE	BEAUFORT HILLS POND AND WOODLAND	Natural Resources Wales
-	1776m S	SIRHOWY HILL WOODLANDS AND CARDIFF POND	Natural Resources Wales
-	1831m SE	PARC NANT-Y-WAUN	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m

2

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 69**

ID	Location	Name	Woodland Type
5	1349m SE	Unknown	Ancient Semi Natural Woodland
7	1558m SW	Unknown	Ancient Woodland Site of Unknown Category

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m**0**

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.



This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from English Heritage, Cadw and Historic Environment Scotland.

12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Timber felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

7

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 78**

ID	Location	Classification	Description
1	On site	Grade 5	Very poor quality agricultural land
5	27m W	Grade 5	Very poor quality agricultural land
8	62m SW	Grade 5	Very poor quality agricultural land



ID	Location	Classification	Description
12	113m N	Grade 5	Very poor quality agricultural land
14	168m SW	Grade 5	Very poor quality agricultural land
15	174m N	Grade 5	Very poor quality agricultural land
16	188m N	Grade 5	Very poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m

4

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

Features are displayed on the Agricultural designations map on **page 78**

ID	Location	Name	Classification	Other relevant legislation
11	104m NW	-	Open Access Open Country	-
13	113m NW	-	Open Access Other Statutory Access Land	-
17	189m E	-	Open Access Open Country	-
18	190m SE	-	Open Access Other Statutory Access Land	-

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.



12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

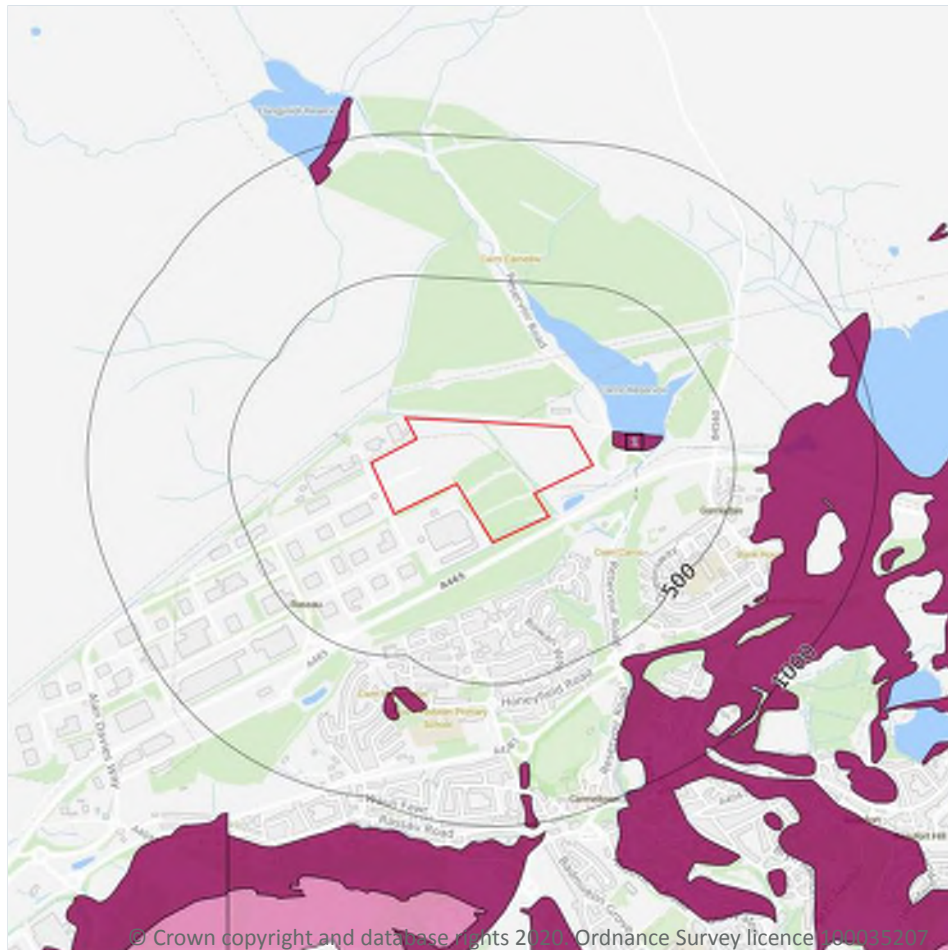
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 82**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SO11SE

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

1

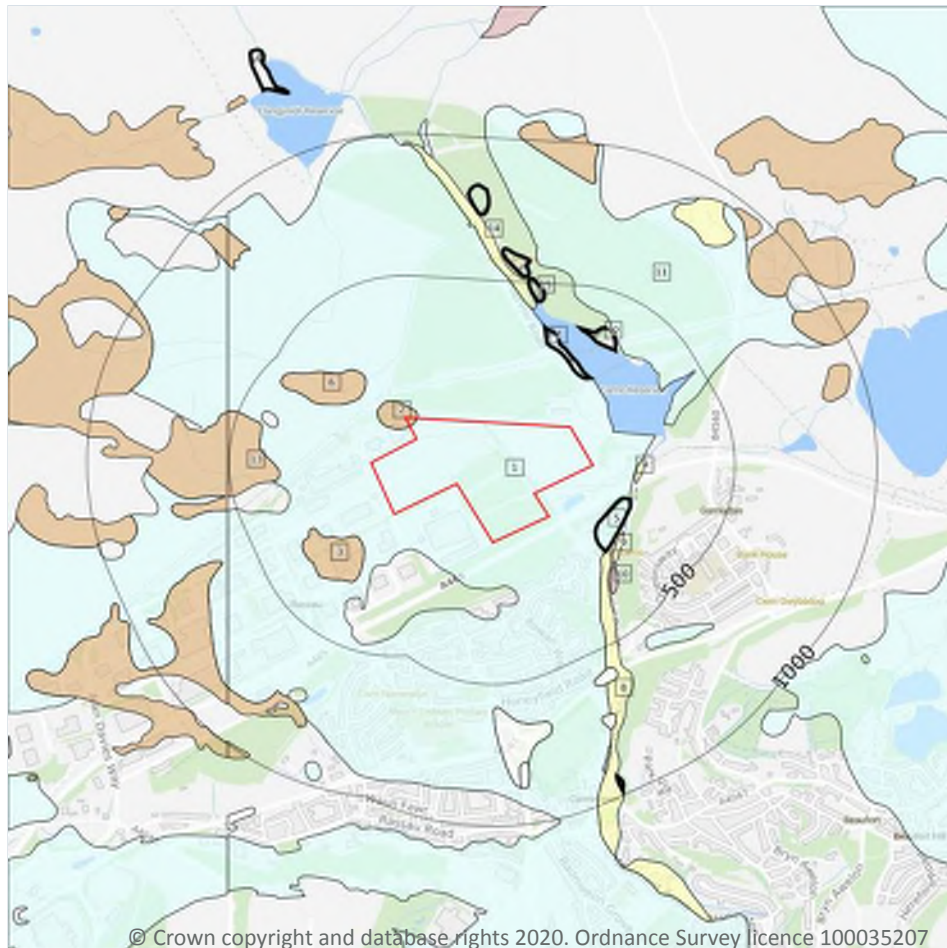
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 83**

ID	Location	LEX Code	Description	Rock description
1	98m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

11

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 84**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	On site	PEAT-P	Peat - Peat	Peat
3	150m SW	PEAT-P	Peat - Peat	Peat

ID	Location	LEX Code	Description	Rock description
4	151m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	171m NW	PEAT-P	Peat - Peat	Peat
8	234m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
9	255m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
10	287m SE	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
11	290m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
13	324m W	PEAT-P	Peat - Peat	Peat
14	407m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

4

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

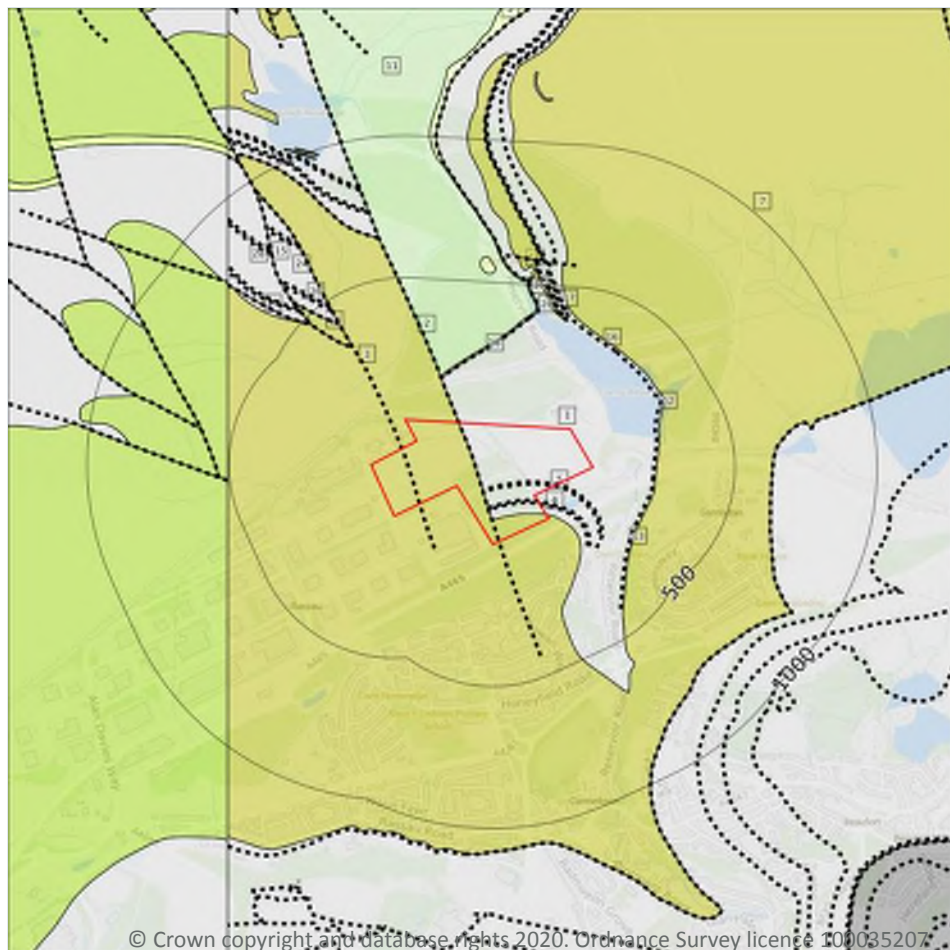
Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 84**

ID	Location	LEX Code	Description	Rock description
5	154m SE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
7	179m N	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
12	310m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
15	434m N	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

9

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 86**

ID	Location	LEX Code	Description	Rock age
1	On site	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	On site	SWLCM-SDST	South Wales Lower Coal Measures Formation - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
9	153m N	BISHM-MDSS	Bishopston Mudstone Formation - Mudstone, Siltstone And Sandstone	Yeadonian Sub-age - Pendleian Sub-age
11	160m N	TWR-SDST	Twrch Sandstone Formation - Sandstone	Yeadonian Sub-age - Pendleian Sub-age
14	314m NW	SWLCM-SDST	South Wales Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
18	377m N	SWLCM-SDST	South Wales Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
24	412m NW	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
28	469m NW	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
29	477m NW	SWLCM-MDSS	South Wales Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

21

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 86**

ID	Location	Category	Description
2	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
3	On site	FAULT	Normal fault, inferred; down throw not specified
4	On site	FOSSIL_HORIZON	Fossil horizon, marine band
5	On site	FOSSIL_HORIZON	Fossil horizon, marine band
6	On site	ROCK	Coal seam, inferred
8	On site	ROCK	Coal seam, inferred
10	153m N	FOSSIL_HORIZON	Fossil horizon, marine band
12	214m E	ROCK	Coal seam, inferred
13	216m E	ROCK	Coal seam, observed



ID	Location	Category	Description
15	314m NW	FAULT	Normal fault, inferred; down throw not specified
16	317m NE	ROCK	Coal seam, inferred
17	341m N	ROCK	Coal seam, inferred
19	381m N	ROCK	Coal seam, inferred
20	383m N	FOSSIL_HORIZON	Fossil horizon, marine band
21	391m N	FOSSIL_HORIZON	Fossil horizon, marine band
22	409m N	FOSSIL_HORIZON	Fossil horizon, marine band
23	412m NW	FAULT	Normal fault, inferred; down throw not specified
25	450m N	FOSSIL_HORIZON	Fossil horizon, marine band
26	465m NW	FOSSIL_HORIZON	Fossil horizon, marine band
27	469m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
30	479m NW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

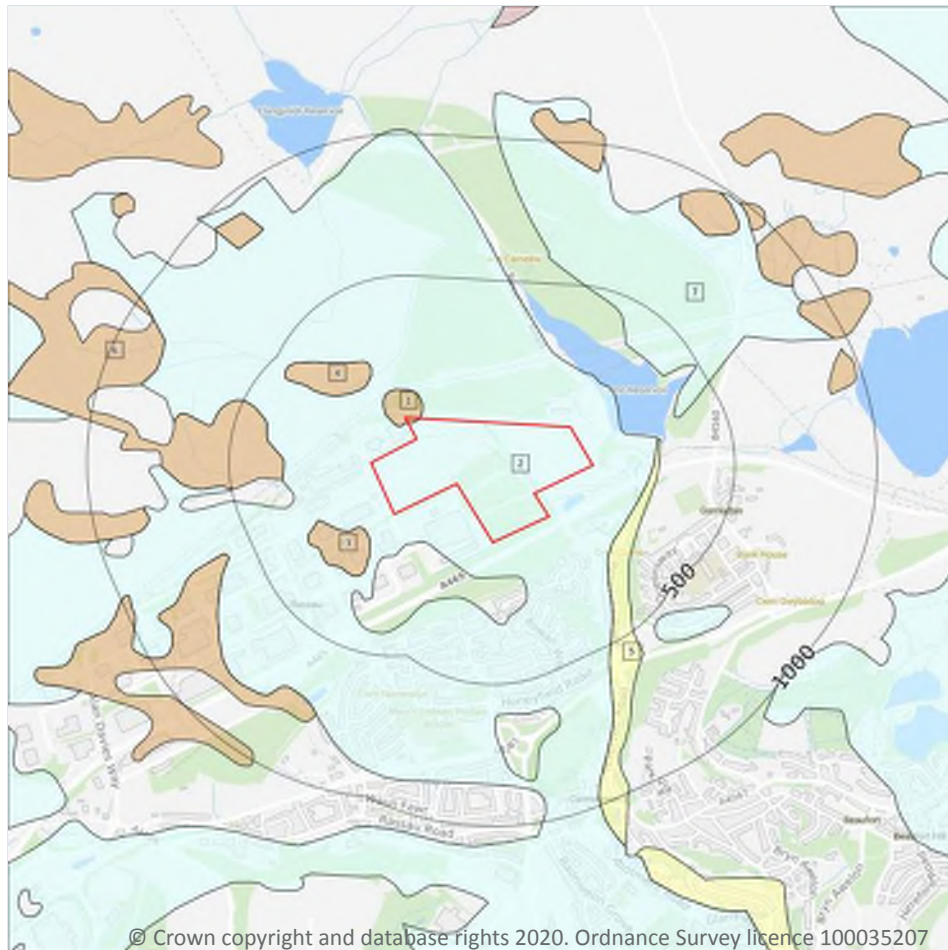
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

7

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 91**

ID	Location	LEX Code	Description	Rock description
1	On site	PEAT-P	PEAT	PEAT
2	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	118m SW	PEAT-P	PEAT	PEAT

ID	Location	LEX Code	Description	Rock description
4	178m NW	PEAT-P	PEAT	PEAT
5	199m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
6	306m W	PEAT-P	PEAT	PEAT
7	335m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Low	Very Low
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0
----------------------------	----------

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

6

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 93**

ID	Location	LEX Code	Description	Rock age
2	On site	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	On site	SWLCM-SDST	SOUTH WALES LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
8	207m N	TWR-SCON	TWRCH SANDSTONE FORMATION - SANDSTONE AND CONGLOMERATE, INTERBEDDED	NAMURIAN
10	287m NW	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	448m N	SWLCM-SDST	SOUTH WALES LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
18	474m NW	SWLCM-MDSS	SOUTH WALES LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	13
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Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 93**

ID	Location	Category	Description
1	On site	ROCK	Coal seam, inferred
3	On site	FAULT	Fault, inferred, displacement unknown
4	On site	FAULT	Fault, inferred, displacement unknown
6	On site	ROCK	Coal seam, inferred



ID	Location	Category	Description
7	207m N	FOSSIL_HORIZON	Marine band
9	227m E	ROCK	Coal seam, inferred
11	287m NW	FAULT	Fault, inferred, displacement unknown
12	354m W	FAULT	Fault, inferred, displacement unknown
13	388m N	ROCK	Coal seam, inferred
14	402m N	ROCK	Coal seam, inferred
15	414m NW	ROCK	Coal seam, inferred
17	448m N	ROCK	Coal seam, inferred
19	494m NW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

74

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 96**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	315860 212930	RASSAU 132KV OHL AA2	-	Y	N/A
2	On site	315990 212820	RASSAU 132KV OHL AA3	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	5m SE	316135 212640	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP42	-	Y	N/A
4	9m NW	315500 212840	RASSAU 132KV OHL TP AA1A	-	Y	N/A
5	11m NW	315630 212910	RASSAU 132KV OHL TP AA1	-	Y	N/A
6	17m SE	316110 212720	RASSAU 132KV OHL AA4	-	Y	N/A
7	26m N	315750 213010	RASSAU 132KV OHL AE2	-	Y	N/A
8	27m SE	316047 212575	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19	-	Y	N/A
9	29m N	315990 213000	RASSAU 132KV OHL AE3	-	Y	N/A
10	31m SE	316110 212600	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP41	-	Y	N/A
A	46m SE	315957 212512	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP40	-	Y	N/A
11	50m SW	315911 212508	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP18	-	Y	N/A
12	50m SE	316075 212562	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP40A	-	Y	N/A
13	54m SE	316004 212525	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP18B	-	Y	N/A
14	58m SE	316327 212783	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP44	-	Y	N/A
15	58m SE	316145 212586	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP42B	-	Y	N/A
A	60m SE	315979 212507	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS25	-	Y	N/A
A	67m SE	315979 212499	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS18	-	Y	N/A
A	70m SE	315974 212494	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS19A	-	Y	N/A
16	72m NW	315560 213020	RASSAU 132KV OHL AE1	-	Y	N/A
A	72m S	315942 212481	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS16	-	Y	N/A
A	76m SE	315966 212483	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS23	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	80m S	315944 212473	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS17	-	Y	N/A
A	83m SE	315970 212477	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS24A	-	Y	N/A
B	89m S	315917 212465	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS21	-	Y	N/A
17	94m NE	316320 212950	LOWER CARNO RESERVOIR BH1	24.5	N	15609392
B	97m S	315924 212456	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS22	-	Y	N/A
18	97m SE	316240 212694	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP43	-	Y	N/A
C	108m SW	315889 212454	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS14	-	Y	N/A
19	108m E	316239 212648	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP43A	-	Y	N/A
C	112m S	315893 212448	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS15	-	Y	N/A
20	116m E	316400 212840	LOWER CARNO RESERVOIR BH2	15.8	N	15609393
C	116m SW	315878 212451	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar WS20	-	Y	N/A
D	125m NW	315400 212900	WALTHAM PEMBROKE 400KV 2	-	Y	N/A
D	125m NW	315400 212900	RASSAU SUBSTATION TPA	-	Y	N/A
D	125m NW	315400 212900	RASSAU SUBSTATION 1	-	Y	N/A
D	125m NW	315400 212900	WALTHAM PEMBROKE 400KV 4	-	Y	N/A
D	125m NW	315400 212900	WALTHAM PEMBROKE 400KV 3	-	Y	N/A
D	125m NW	315400 212900	WALTHAM PEMBROKE 400KV 1	-	Y	N/A
E	126m SE	316390 212752	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19G(RH)	-	Y	N/A
E	126m SE	316390 212752	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19G	-	Y	N/A
F	137m E	316422 212808	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP44B	-	Y	N/A
F	143m E	316428 212812	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19N	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
G	144m SW	315825 212458	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP17C	-	Y	N/A
H	149m E	316433 212846	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19JA	-	Y	N/A
G	150m SW	315819 212456	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP17C(1)	-	Y	N/A
H	151m E	316435 212845	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19J	-	Y	N/A
G	153m SW	315817 212454	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP17C(2)	-	Y	N/A
F	154m E	316440 212820	LOWER CARNO RESERVOIR BH4	14.0	N	15609395
H	155m E	316435 212864	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19L(2)	-	Y	N/A
H	156m E	316436 212864	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19L(1)	-	Y	N/A
H	157m E	316437 212864	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19L	-	Y	N/A
I	162m SE	316384 212695	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP44A	-	Y	N/A
I	164m SE	316386 212694	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19D(RH)	-	Y	N/A
I	164m SE	316386 212694	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19D	-	Y	N/A
F	164m E	316448 212800	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19K(1)	-	Y	N/A
F	165m E	316449 212801	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19K	-	Y	N/A
F	165m E	316449 212801	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19K(RH)	-	Y	N/A
F	165m E	316450 212810	LOWER CARNO RESERVOIR BH3	20.5	N	15609394
I	168m SE	316400 212700	CARNO WATER ADIT	114.61	N	262745
J	170m SE	316439 212750	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19B(2)	-	Y	N/A
J	170m SE	316439 212749	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19B(1)	-	Y	N/A

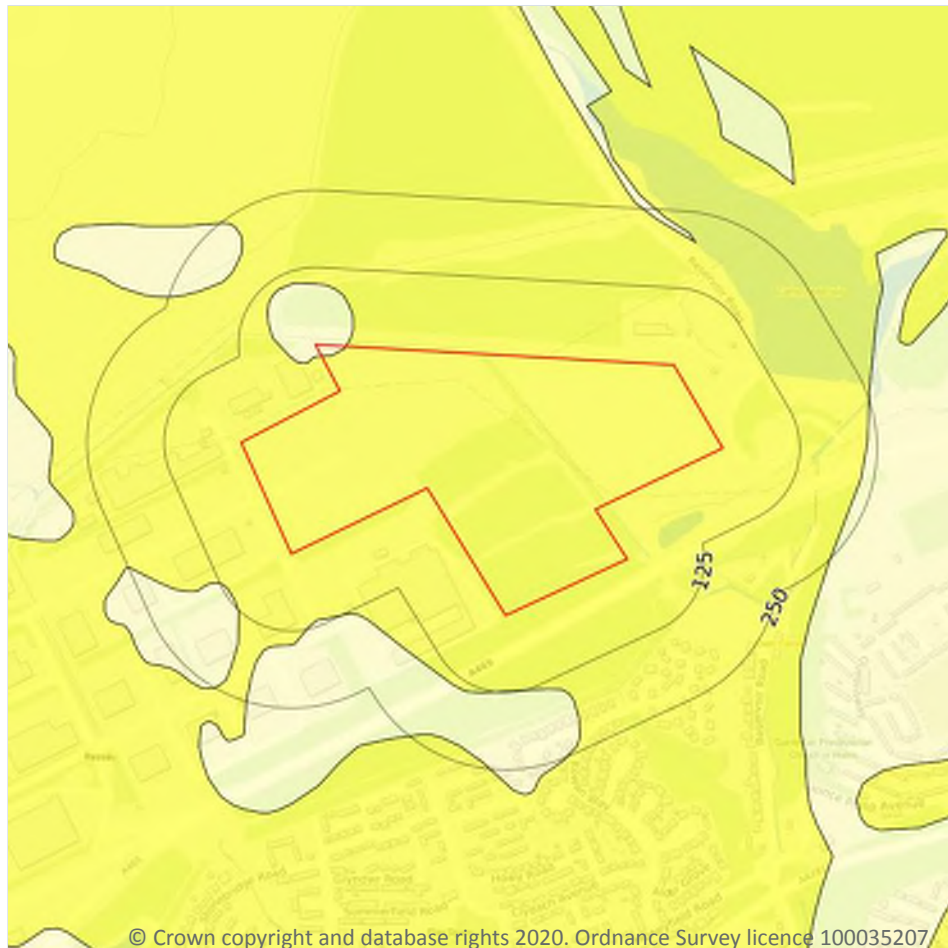


ID	Location	Grid reference	Name	Length	Confidential	Web link
J	170m SE	316438 212747	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19B(RH)	-	Y	N/A
J	170m SE	316438 212747	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19B	-	Y	N/A
21	171m N	316200 213130	RASSAU 132KV OHL AE4	-	Y	N/A
K	176m SE	316362 212665	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19E(RH)	-	Y	N/A
L	185m W	315320 212830	RASSAU 132KV OHL AA1B	-	Y	N/A
L	185m W	315320 212830	RASSAU 132KV OHL TP AA1B	-	Y	N/A
22	192m E	316477 212844	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19M	-	Y	N/A
M	193m E	316470 212880	LOWER CARNO RESERVOIR T2A	0.87	N	15609391
23	194m SE	316408 212673	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19H	-	Y	N/A
K	194m SE	316362 212645	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar CP19E	-	Y	N/A
M	196m E	316470 212890	LOWER CARNO RESERVOIR T1	-	Y	N/A
24	204m SW	315779 212420	A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar TP38	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

2

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

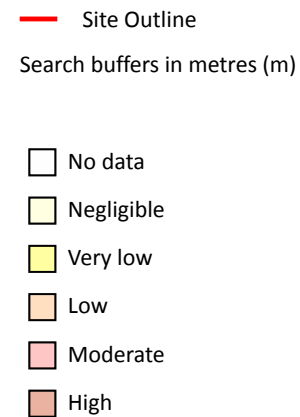
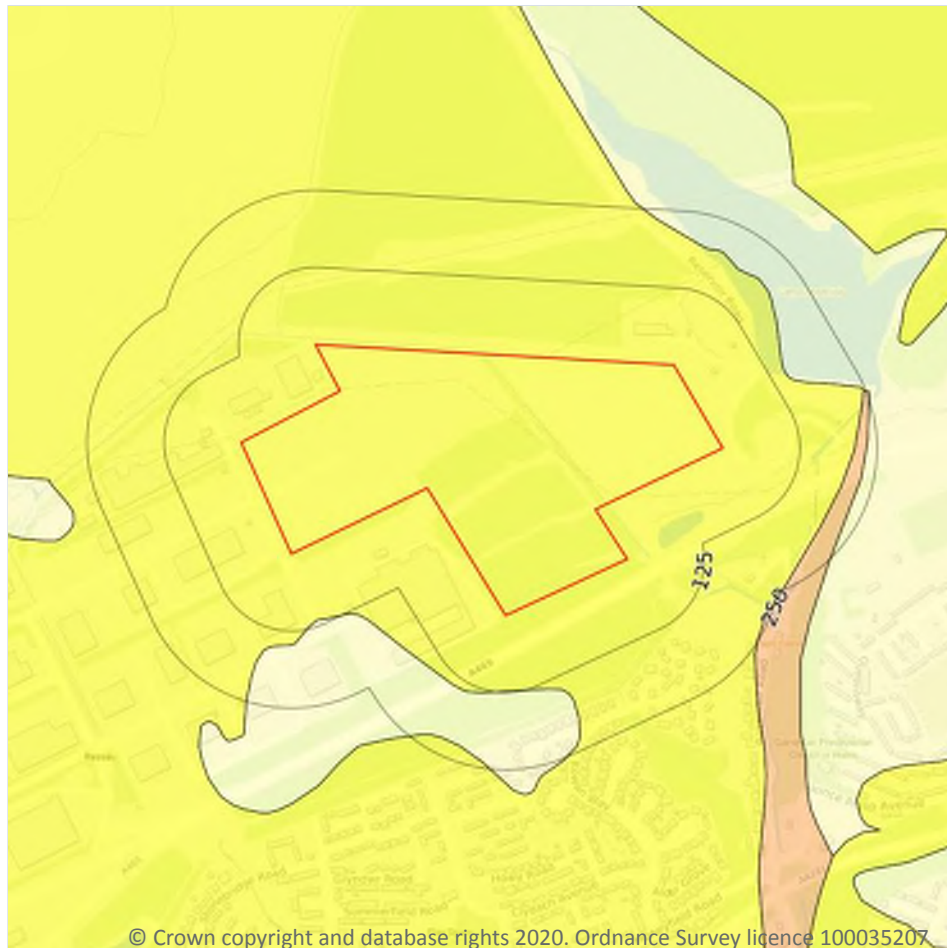
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 101**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 102**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

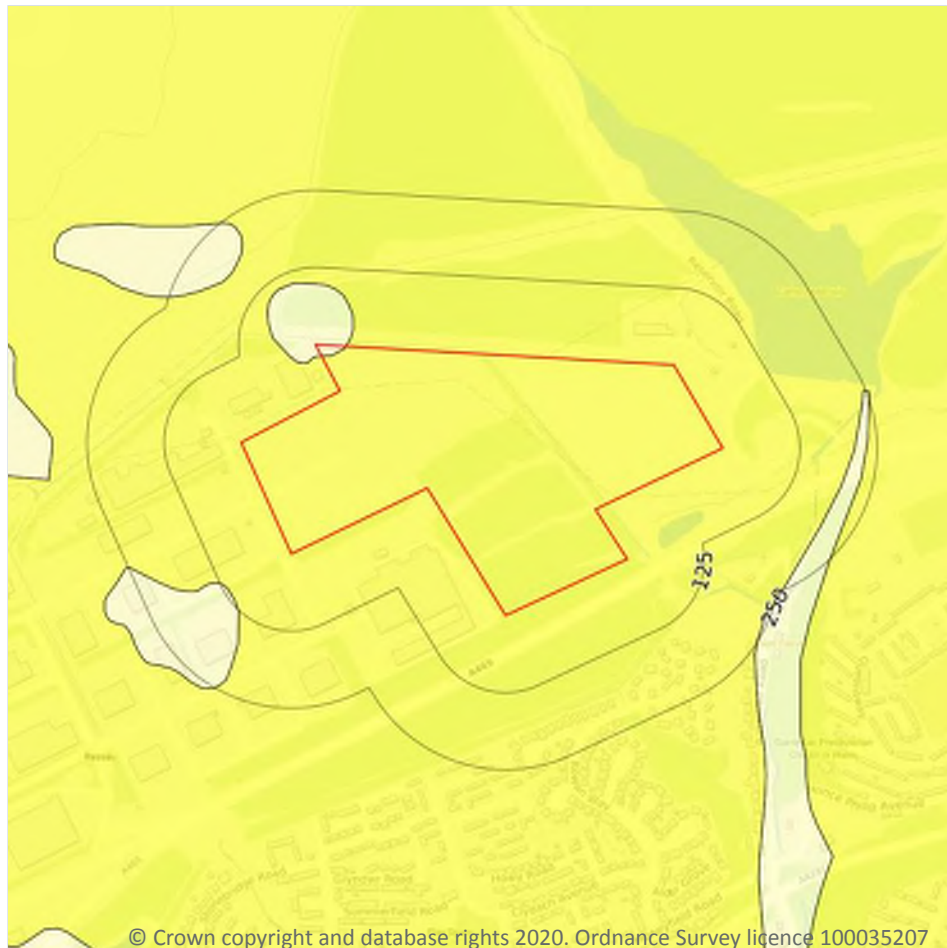
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 103**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



— Site Outline
Search buffers in metres (m)

- ☐ No data
- ☐ Negligible
- ☐ Very low
- ☐ Low
- ☐ Moderate
- ☐ High

17.4 Collapsible deposits

Records within 50m

2

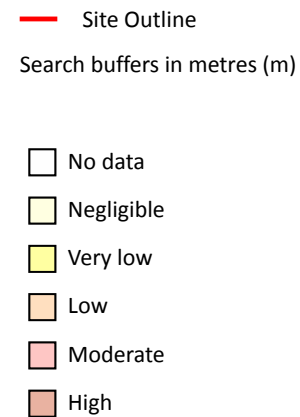
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 104**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

4

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 105**

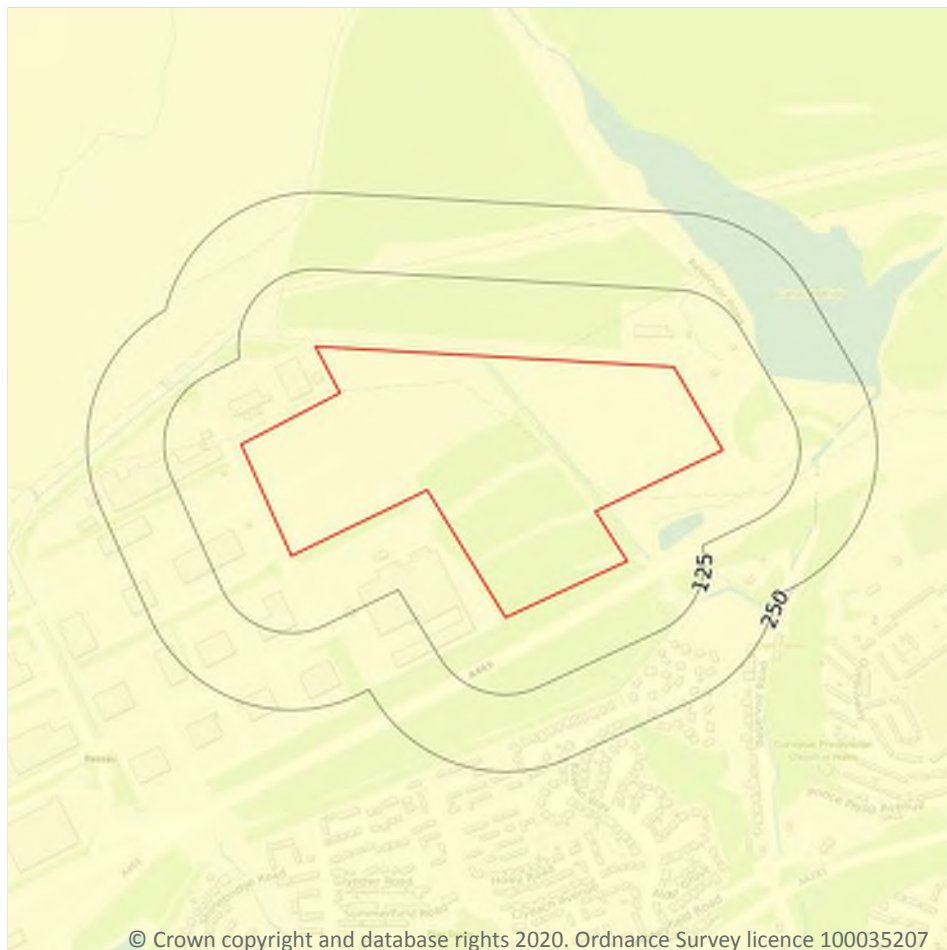
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
28m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
37m NE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

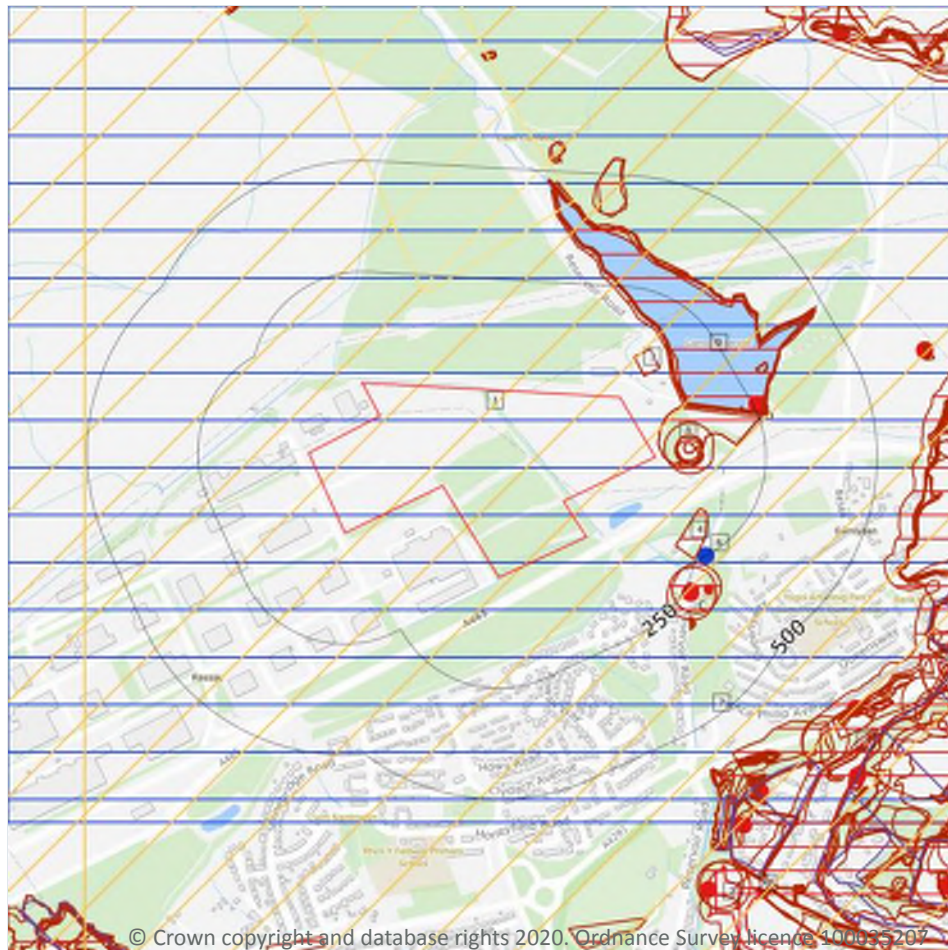
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 107**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- ▢ Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- ▢ Surface ground workings
- ▢ Underground workings
- ▢ Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- ▢ Sporadic underground mining of restricted extent possible
- ▢ Localised small scale underground mining possible
- ▢ Small scale mining possible
- ▢ Underground mining known or likely within or in close proximity
- ▢ Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

2

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Details	Source
1	On site	Type: Phreatic Cave, Sinkhole, Solution Pipe, Solution Widened Joint or Fissure Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Millstone Grit Group, Upper Carboniferous Limestone, Upper Devonian Rock (undifferentiated)	Simple Bibliography: - Full Bibliography: THOMAS, T.M., Solution subsidence mechanisms and end-products in south-east Breconshire., , 1973; Transactions of the Institute of British Geographers, Confidentiality: Data source can be revealed, data can be used freely
6	250m SE	Type: Vadose Cave x 1 Superficial Geology: - Bedrock Geology: Carboniferous Limestone Supergroup, Lower Carboniferous Limestone, Upper Carboniferous Limestone	Simple Bibliography: - Full Bibliography: Unknown Author, , , ; Confidentiality: Data source can be revealed, data can be used freely

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m

2

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Details	Description
D	259m NE	Name: Carno Address: Beaufort, EBBW VALE, Gwent Commodity: Coal, Deep Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
C	266m SE	Name: Garn-wen Address: Beaufort, EBBW VALE, Gwent Commodity: Coal, Deep Status: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.



18.3 Surface ground workings

Records within 250m

24

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Land Use	Year of mapping	Mapping scale
A	18m NE	Unspecified Pit	1960	1:10560
A	18m NE	Unspecified Pit	1974	1:10000
A	18m NE	Unspecified Pit	1986	1:10000
A	24m E	Filter Beds	1949	1:10560
A	47m E	Filter Beds	1915	1:10560
A	47m E	Filter Beds	1915	1:10560
A	50m E	Filter Bed	1938	1:10560
A	52m E	Filter Beds	1938	1:10560
A	52m E	Filter Beds	1938	1:10560
A	57m E	Filter Beds	1974	1:10000
A	57m E	Filter Beds	1986	1:10000
3	73m NE	Reservoir	1986	1:10000
B	113m NE	Reservoir	1938	1:10560
B	119m NE	Reservoir	1915	1:10560
B	119m NE	Reservoir	1915	1:10560
B	120m NE	Reservoir	1949	1:10560
B	121m NE	Reservoir	1938	1:10560
B	122m NE	Reservoir	1974	1:10000
B	122m NE	Reservoir	1986	1:10000
B	124m NE	Reservoir	1960	1:10560
4	154m SE	Refuse Heap	1938	1:10560
C	214m SE	Unspecified Old Level	1879	1:10560
C	221m SE	Old Coal Level	1903	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	249m NE	Old Trial Level	1903	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

11

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Land Use	Year of mapping	Mapping scale
D	249m NE	Old Trial Level	1903	1:10560
C	254m SE	Old Coal Level	1902	1:10560
D	257m NE	Old Trial Level	1902	1:10560
C	290m SE	Old Coal Levels	1949	1:10560
C	291m E	Unspecified Old Levels	1960	1:10560
I	776m SE	Old Coal Level	1902	1:10560
W	791m SE	Unspecified Level	1960	1:10560
I	801m SE	Coal Level	1879	1:10560
Z	802m SE	Old Coal Level	1902	1:10560
W	819m SE	Unspecified Old Level	1960	1:10560
AB	878m SE	Old Coal Level	1949	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

3

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

ID	Location	Name	Commodity	Class	Likelihood
2	On site	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
5	207m N	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered
7	505m W	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.



18.9 Coal mining

Records on site	1
-----------------	---

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

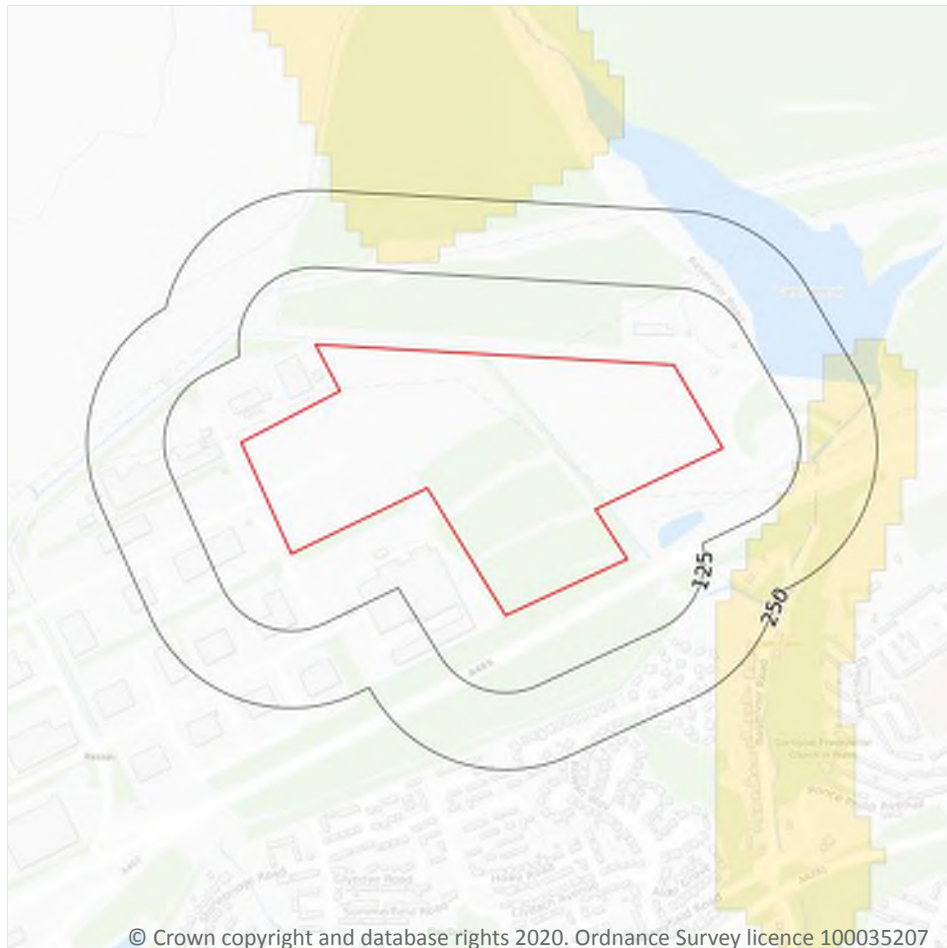
18.13 Clay mining

Records on site	0
-----------------	---

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 115**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

18

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
5m W	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
9m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
9m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
12m NW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
12m NW	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
22m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
22m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m**0**

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m**0**

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m**0**

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m**0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



Appendix E

Existing GI records

Appendix E1 - A465 Section 3, Welsh Government, CP18

Borehole Log



Soil Mechanics

Drilled RD Logged CP Checked HRW	Start 19/10/2010 End 21/10/2010	Equipment, Methods and Remarks Dando 2000 Inspection pit excavated by hand GL - 1.20m (1hrs). Light cable percussion boring 1.20 - 9.70m. Terminated on engineer's instruction.	Depth from 0.00m to 9.70m Diameter 200mm Casing Depth 9.50m	Ground Level +396.01 mOD Coordinates E 315911.38 National Grid N 212507.54 Chainage																		
Samples and Tests			Strata																			
Depth	Type & No	Records	Date Casing	Time Water																		
0.30	ES 1		19/10/2010	1330 dry																		
0.80	ES 2																					
0.80	B 3																					
1.20-1.65	SPT C	N=6 (1,1/1,2,1,2)		dry																		
1.20-1.50	B 4																					
1.50	D 5																					
1.80	ES 6																					
2.00-2.45	SPT C	N=10 (1,2/2,3,2,3)	2.00	dry																		
2.00-2.30	B 7																					
2.50	D 8																					
2.80	ES 9		19/10/2010	1730 dry																		
3.00-3.45	SPT C	N=15 (2,2/3,4,5,3)	2.90	dry																		
3.00-3.30	B 10		20/10/2010	0800 dry																		
3.50	D 11																					
3.80	ES 12																					
4.00-4.45	SPT C	N=6 (1,1/2,1,1,2)	3.60	dry																		
4.00-4.30	B 13																					
4.50	D 14																					
4.80	ES 15																					
5.00-5.25	SPT C	50 (15,10 for 20mm/19,23,8 for 5mm)	5.00	dry																		
5.00-5.30	B 16																					
5.80	ES 17																					
6.00	D 18																					
6.50-6.95	SPT C	N=24 (5,6/8,6,5,5)	6.50																			
6.50-6.80	B 19																					
6.80	ES 20																					
7.00	D 21																					
7.50-7.80	B 22																					
8.00-8.23	SPT C	50 (18,7 for 10mm/32,18 for 65mm)	8.00																			
8.00-8.30	B 23																					
8.50	D 24																					
9.20-9.39	SPT C	95 (25/45,50 for 35mm)	20/10/2010 8.50 21/10/2010 8.50 21/10/2010 9.50 21/10/2010 8.50	1730 0800 6.20 1100 9.50																		
9.70-9.78	SPT C	50 (25 for 40mm/50 for 40mm)	8.50																			
			EXPLOATORY HOLE ENDS AT 9.70 m																			
Depth	Type & No	Records	Date Casing	Time Water																		
Groundwater Entries <table border="1"> <thead> <tr> <th>No.</th> <th>Struck (m)</th> <th>Post strike behaviour</th> <th>Depth sealed (m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5.30</td> <td>Remained at 5.30 m after 20 minutes.</td> <td>-</td> </tr> </tbody> </table>					No.	Struck (m)	Post strike behaviour	Depth sealed (m)	1	5.30	Remained at 5.30 m after 20 minutes.	-										
No.	Struck (m)	Post strike behaviour	Depth sealed (m)																			
1	5.30	Remained at 5.30 m after 20 minutes.	-																			
Depth Related Remarks * <table border="1"> <thead> <tr> <th>From</th> <th>to (m)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>1.20</td> <td>9.70</td> <td>SPT Hammer ID: SM14 (1.5" whitworth rods)</td> </tr> <tr> <td>5.30</td> <td>9.20</td> <td>Water added to assist drilling.</td> </tr> </tbody> </table>					From	to (m)	Remarks	1.20	9.70	SPT Hammer ID: SM14 (1.5" whitworth rods)	5.30	9.20	Water added to assist drilling.									
From	to (m)	Remarks																				
1.20	9.70	SPT Hammer ID: SM14 (1.5" whitworth rods)																				
5.30	9.20	Water added to assist drilling.																				
Chiselling <table border="1"> <thead> <tr> <th>Depths (m)</th> <th>Time</th> <th>Tools used</th> </tr> </thead> <tbody> <tr> <td>5.00 - 5.30</td> <td>45 mins</td> <td>Chisel</td> </tr> <tr> <td>7.80 - 8.00</td> <td>30 mins</td> <td>Chisel</td> </tr> <tr> <td>8.00 - 8.50</td> <td>60 mins</td> <td>Chisel</td> </tr> <tr> <td>8.50 - 9.20</td> <td>105 mins</td> <td>Chisel</td> </tr> <tr> <td>9.20 - 9.70</td> <td>60 mins</td> <td>Chisel</td> </tr> </tbody> </table>					Depths (m)	Time	Tools used	5.00 - 5.30	45 mins	Chisel	7.80 - 8.00	30 mins	Chisel	8.00 - 8.50	60 mins	Chisel	8.50 - 9.20	105 mins	Chisel	9.20 - 9.70	60 mins	Chisel
Depths (m)	Time	Tools used																				
5.00 - 5.30	45 mins	Chisel																				
7.80 - 8.00	30 mins	Chisel																				
8.00 - 8.50	60 mins	Chisel																				
8.50 - 9.20	105 mins	Chisel																				
9.20 - 9.70	60 mins	Chisel																				
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.			Project A465 Heads of the Valleys Dualling: Section 3 Brynmawr to Tredegar Project No. H0077 Carried out for Welsh Assembly Government																			
Scale 1:50 (c) Soil Mechanics www.soil-mechanics.com 408.24 24/06/2011 11:37:57			Borehole CP18 Sheet 1 of 1																			

Appendix E2 - Enron Power
1997 Rassau Industrial Estate
Ground Investigation

9

2.0 THE SITE

2.1 Location and Description

The site is located approximately 3km north of the centre of Ebbw Vale and to the east of the Rassau Industrial Estate. The National Grid Reference of the centre of the site is SO 158 128, see Figure 1.

The site occupies an area of approximately 13.8 hectares, the boundaries of which are defined by the existing Rassau Industrial Estate to the west and open ground to the south, east and north, see Figure 2.

The western area of the site is formed by two relatively flat industrial plateaux. Infrastructure in the form of roads and statutory services have already been constructed to serve these plateaux. The ground level in this area varies from approximately 419m A.O.D. in the north of the higher plateau to 412m A.O.D. in the south of the lower plateau. The difference in levels between the two plateaux is approximately 3.5m.

The eastern part that encompasses most of the site is formed by an undulating area made of end-tipped materials and covered with dense conifer woodland. The ground levels in this area vary from approximately 428.5m A.O.D. in the north-west to 392m A.O.D. in the south-east. Running along the site's northern and eastern boundary is an unmetalled access track. Emanating from the eastern track and heading across the site, in westerly directions are three parallel tracks.

The site levels are upto 4.0m higher than the existing ground to the east.

Located along these tracks are a number of storm water drainage outlets connected to concrete catch pits.

Overhead high voltage electricity cables pass across the eastern and northern areas of the site.

ARUP CARDIFF			
REC'D	-1 FEB 2001 02		
JOB No.		FILE No.	
PROJ. MAN.	INTL.	PROJ. ENG.	
		DES. ENG.	
ACTION			
RESPONSIBLE			

2.2 Brief History

The history of the site has been traced with the aid of a 1:2500 scale Ordnance Survey maps of the area dated 1880, 1900 and 1920.

These maps show the site to be open moorland/rough pasture used for grazing animals.

During the 1970's to 1980's the Rassau Industrial Estate was developed by the Welsh Development Agency, adjacent to and within the western area of the site.

During the construction works the sloping grounds were cut and filled to create level plateaux for the industrial development. The spoil and unsuitable materials from this cut and fill exercise were deposited upon the area of the site untouched by the industrial development. The spoil mound was then planted with conifers and storm water drainage constructed concurrent with the deposition.

2.2 Brief Geology

The 1:10,560 scale geological map of the area (Sheet No. SO 11 SW) shows the site to be underlain by the rocks at the base of the Lower Coal Measures Series of Carboniferous Age.

Boreholes sunk as part of the industrial development show these rocks to consist of quartzitic sandstones interspersed with the M2 and M1 marine bands and thin coal seams to their maximum investigated depth of 29.1m. Superficial deposits in the form of thin glacial till are shown to overlie the solid geology.

Because of the site's former usage as a depositary for spoil materials and also from the previous cut and fill works, the superficial deposits will be further overlain by a layer of fill material consisting of reworked in-situ glacial materials and hill peat. The thickness of the fill materials is likely to be upto 7 to 10m in the south-east part of the site.

3.0 THE SITE INVESTIGATION

3.1 Fieldworks

A site investigation comprising twenty machine excavated trial pits was carried out during April 1997.

The trial pits were excavated by using a JCB mechanical excavator.

The site works were supervised by Intégral Géotechnique (Wales) Limited who also logged the trial pits to the requirements of BS 5930. The detailed trial pit logs are presented in Appendix A and the location of the pits are shown in Figure 2.

Following completion of the fieldworks a topographical survey was undertaken by Davies's Chartered Land Surveyors.

During the site investigation disturbed samples of the fill materials were taken for visual examination.

3.2 Summary of Shallow Ground Conditions

3.2.1 General

When describing the ground conditions encountered beneath the site it is convenient to divide the site into two areas denoted as Area 'A' and Area 'B' and treat these areas separately. The approximate extent of Areas 'A' and 'B' are shown on Figure 2.

Because of the presence of many large conifer trees, access to most of the eastern part of the site was restricted. While every effort was made to limit the damage to the existing woodland, a number of short tracks were made to access trial pit locations. The ground conditions encountered and summarised for Area 'B' are therefore based on this reasonably straight forward accessible trial pit locations.

3.2.2 Area 'A'

Area 'A' encompasses the already constructed industrial plateaux. The ground conditions beneath this area encountered by the trial pits can in general be summarised as shown in Table 1:

Table 1: Summary of Ground Conditions for Area 'A'		
Depth (m)		Stratum
GL	- >2.5	FILL (Stiff in areas firm grey brown with grey and orange brown inclusions, silty sandy CLAY, many angular sandstone gravels, cobbles and boulders)

In TP17, in-situ materials in the form of stiff orange brown silty sandy CLAY with many angular sandstones gravels, cobbles and boulders were encountered from 1.7m depth to the base of the pit at 2.0m.

In TP19 in-situ bedrock was encountered in the form of strong grey brown moderately weathered quartzitic sandstone from 0.7m to the base of pit at 0.80m depth. In this pit the machine was unable to excavated below 0.8m depth.

In a number of other pits, due to the presence of the large cobbles and boulders the machine experienced great difficulty in excavating these materials.

In general, groundwater seepages were not encountered and the sides of the excavations remained stable.

3.2.3 Area 'B'

This area comprises the section of the site where end-tipped materials were deposited during the construction of the Rassau Industrial Estate. The ground conditions encountered by the trial pits in this area can in general be summarised as shown in Table 2:

Table 2: Summary of Ground Conditions for Area 'B'		
Depth (m)		Stratum
GL	- >4.0	FILL (Soft to firm in areas firm to stiff, firm and very stiff brown/grey brown with many orange brown inclusions, silty sandy CLAY, many angular sandstone gravels, cobbles and boulders, black peat inclusions and decaying grass inclusions)

3.2.3 Area 'B' (Continued)

Slight groundwater inflows were encountered in TP1 at 1.2m depth and the materials within the remainder of the trial pits were generally moist or wet.

In general, the sides of the excavations remained stable with the machine experiencing great difficulty in excavating the large boulders.

TRIAL PIT NO. 11

Site: Rassau Industrial Estate, Ebbw Vale **Job No:** 7118/C

Depth (m) GL @ 423.31m A.O.D. **Stratum**

GL - 3.00

FILL (Firm grey with orange brown inclusions silty CLAY, many angular sandstone gravels, cobbles and boulders, many pockets of black silty peat and decaying grass)

Notes:

1. **Equipment:** JCB 3CX mechanical excavator
2. **Pit Dimensions:** 4.50m x 1.00m
3. **Date Excavated:** 8.4.97
4. **Logged by:** G.C.L.
5. **Groundwater Observations:** Trial pit dry
6. **Stability of Excavation Sides:** Stable

TRIAL PIT NO. 12**Site:** Rassau Industrial Estate, Ebbw Vale **Job No:** 7118/C**Depth (m) GL @ 412.92m A.O.D.****Stratum**

GL - 2.50

FILL (Stiff with depth becoming firm grey brown, with grey and orange brown inclusions silty sandy CLAY, many angular sandstone gravels, cobbles and boulders)

Notes:

1. **Equipment:** JCB 3CX mechanical excavator
2. **Pit Dimensions:** 4.50m x 1.00m
3. **Date Excavated:** 9.4.97
4. **Logged by:** G.C.L.
5. **Groundwater Observations:** Trial pit wet in layers
6. **Stability of Excavation Sides:** Stable
7. **Other Observations:**
 - (i) Disturbed sample taken from 1.10m depth
 - (ii) Unable to penetrate below 2.50m due to large boulders

TRIAL PIT NO. 13**Site:** Rassau Industrial Estate, Ebbw Vale **Job No:** 7118/C**Depth (m) GL @ 414.57m A.O.D.****Stratum**

GL - 1.80

FILL (Stiff grey brown with grey and orange brown inclusions silty sandy CLAY many angular sandstone gravels, cobbles and boulders)

Notes:

1. **Equipment:** JCB 3CX mechanical excavator
2. **Pit Dimensions:** 4.50m x 1.00m
3. **Date Excavated:** 9.4.97
4. **Logged by:** G.C.L.
5. **Groundwater Observations:** Trial pit dry
6. **Stability of Excavation Sides:** Stable
7. **Other Observations:**
 - (i) Disturbed sample taken from 0.50m depth
 - (ii) Very hard digging from ground level and pit abandoned due to the hard dig

TRIAL PIT NO. 17	
Site: Rassau Industrial Estate, Ebbw Vale Job No: 7118/C	
Depth (m) GL @ 41.85m A.O.D.	Stratum
GL - 0.30	FILL (Dense dark brown ashy SAND, angular gravels, occasional cobbles)
0.30 - 1.70	FILL (Very stiff grey, grey brown with orange brown staining silty CLAY, many angular sandstone gravels, cobbles and boulders)
1.70 - 2.00	Stiff orange brown silty sandy CLAY, many angular sandstone gravels, cobbles and boulders
Notes: 1. Equipment: JCB 3CX mechanical excavator 2. Pit Dimensions: 4.50m x 1.00m 3. Date Excavated: 9.4.97 4. Logged by: G.C.L. 5. Groundwater Observations: Trial pit dry 6. Stability of Excavation Sides: Stable 7. Other Observations: <ul style="list-style-type: none"> (i) Disturbed sample taken from 1.00m depth (ii) Very hard digging from ground level with trial pit abandoned at 2.00m depth due to large boulders 	

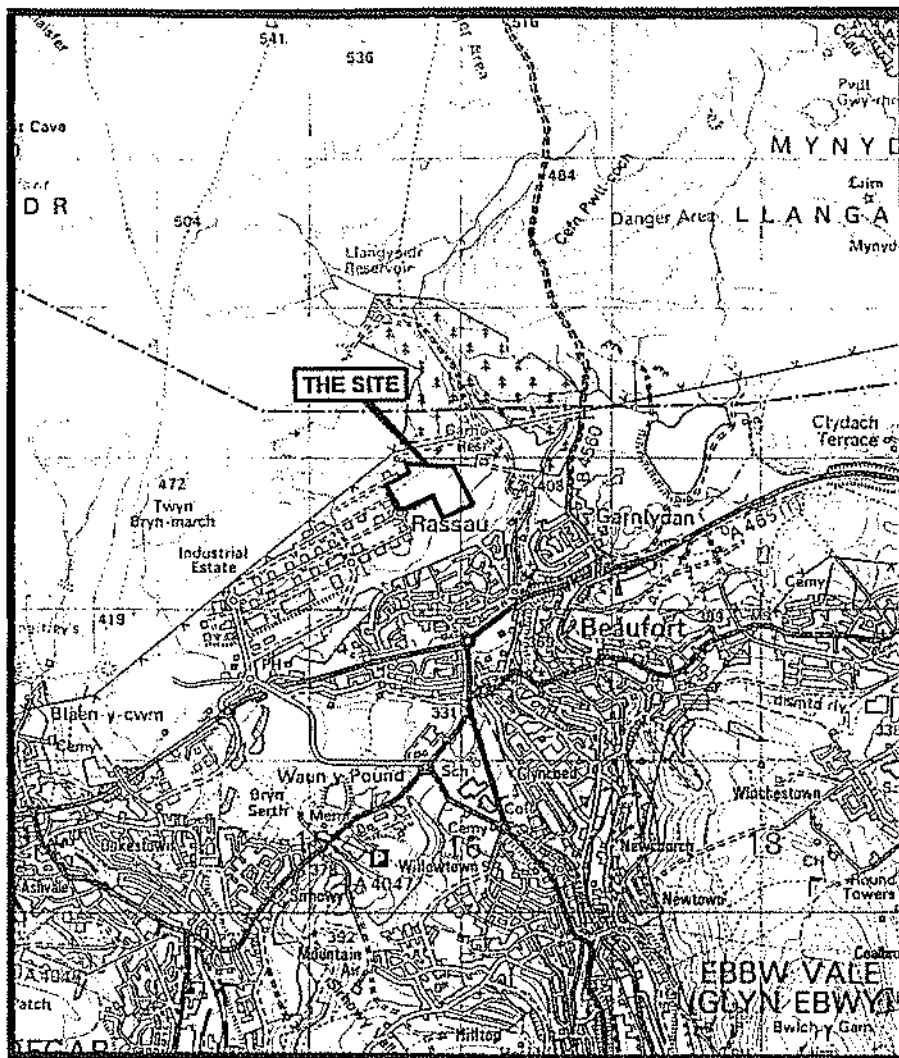
TRIAL PIT NO. 18	
Site: Rassau Industrial Estate, Ebbw Vale Job No: 7118/C	
Depth (m) GL @ 418.14m A.O.D.	Stratum
GL - 1.50	FILL (Very stiff brown and grey brown with orange brown staining silty sandy CLAY, many angular sandstone gravels, cobbles and boulders)
Notes: <ol style="list-style-type: none"> Equipment: JCB 3CX mechanical excavator Pit Dimensions: 4.50m x 1.00m Date Excavated: 9.4.97 Logged by: G.C.L. Groundwater Observations: Trial pit dry Stability of Excavation Sides: Stable Other Observations: <ol style="list-style-type: none"> Disturbed sample taken from 0.80m depth Very hard digging from ground level with the trial pit abandoned at 1.50m depth due to large boulders 	

TRIAL PIT NO. 19**Site:** Rassau Industrial Estate, Ebbw Vale **Job No:** 7118/C

Depth (m) GL @ 419.06m A.O.D.	Stratum
GL - 0.40	FILL (Firm brown silty sandy CLAY, many boulder sized reinforced concrete fragments, reinforcing bars)
0.40 - 0.70	FILL (Stiff brown, orange brown silty sandy CLAY, many angular sandstone gravels, cobbles and boulders)
0.70 - 0.80	Grey brown moderately weathered quartzitic SANDSTONE, strong highly fractured with clay infill between fractures (possible bedrock?)

Notes:

- 1. Equipment:** JCB 3CX mechanical excavator
- 2. Pit Dimensions:** 4.50m x 1.00m
- 3. Date Excavated:** 9.4.97
- 4. Logged by:** G.C.L.
- 5. Groundwater Observations:** Trial pit dry
- 6. Stability of Excavation Sides:** Stable
- 7. Other Observations:** (i) Machine unable to penetrate below 0.80m depth

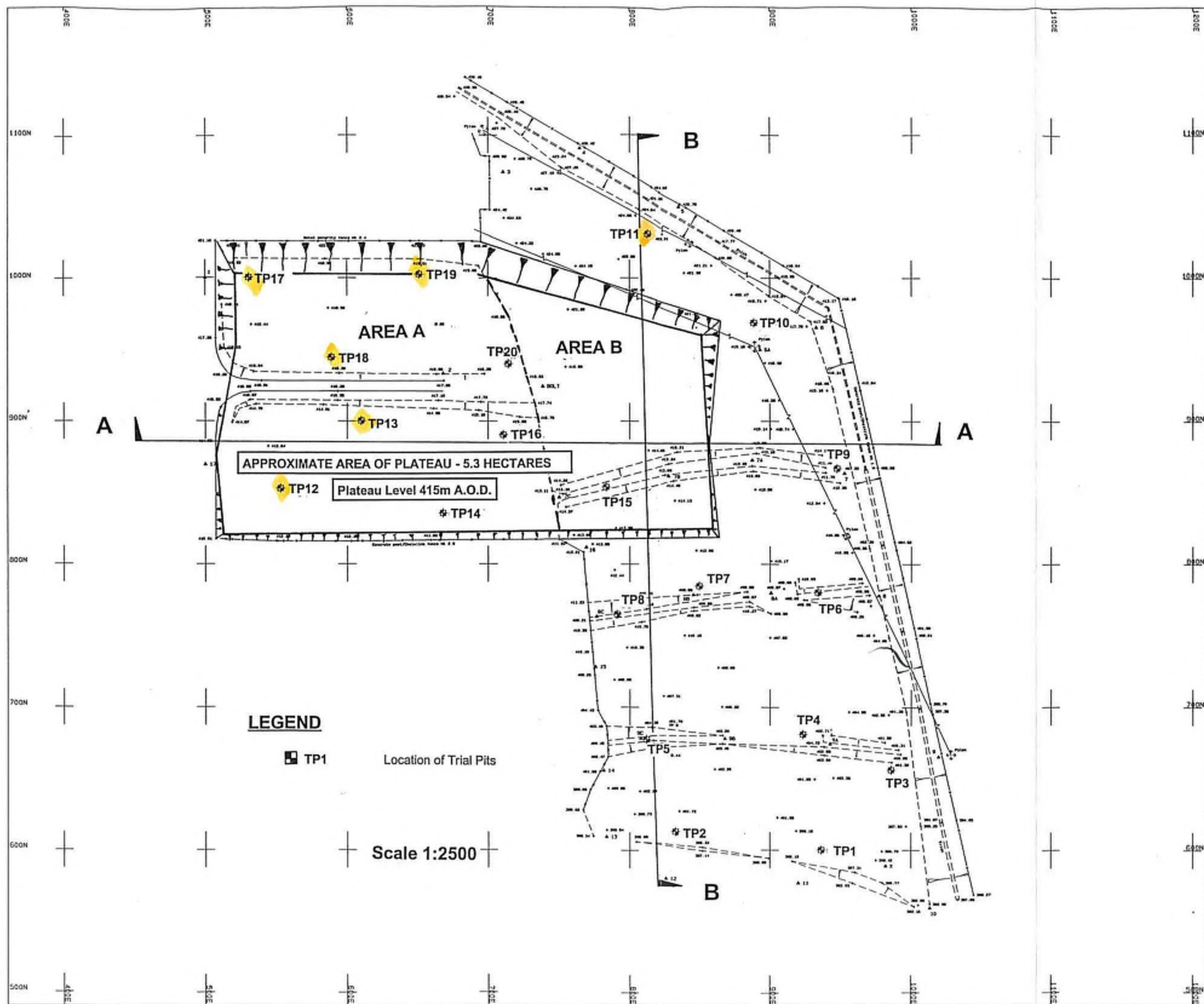


Scale - 1 : 50000

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SITE LOCATION

FIGURE **1**



SITE LAYOUT

Appendix I

Cumulative effects

I1 Committed developments – Long list (from BGCBC)

Planning Reference	Date of decision	Description	Address
Applications within 500m of proposed development			
C/2016/0011	09/03/2016	Extension to existing industrial unit	Unit 45 Rassau Industrial Estate Ebbw Vale
C/2016/0062	22/04/2016	Construction of vertical stack/flue that protrudes 3.3m above the roof line	Unit 42 Rassau Ind Est Main Spine Road North Ebbw Vale
C/2016/0158	26/07/2016	Erection of two buildings for Class B1/B2/B8 use with new pedestrian and vehicular access and associated parking	Land rear of Units 39 & 40 Rassau Industrial Estate Ebbw Vale
C/2016/0222	19/09/2016	Proposed maintenance workshop/storage building to serve existing recycling plant	Envirowales Ltd, Plateaux 1 & 2 Rassau Industrial Estate Ebbw Vale
C/2016/0331	30/12/2016	Hazardous substances application storage for slimes/sludges battery scrap, antimony & lead - rich.	Envirowales Ltd, Plateaux 1 & 2 Rassau Industrial Estate Ebbw Vale
C/2017/0020	15/03/2017	Conversion of Pension Hall to 1 no. 4 bedroom dwelling	Pensioners Hall Keir Hardie Close Ebbw Vale
C/2017/0167	19/07/2017	Renewal of outline planning permission for Residential development and new site access	Land adjacent to Red Villa Llangynidr Road Ebbw Vale

Planning Reference	Date of decision	Description	Address
C/2018/0068	03/05/2018	New unit for handling and storage of slag which is derived from authorised on-site processes	Envirowales Rassau Industrial Estate Ebbw Vale
C/2018/0155	17/07/2018	Proposed new building for storing processed slag produced by authorised use on site.	Envirowales Rassau Industrial Estate Ebbw Vale
C/2018/0190	14/08/2018	Proposed extension to existing industrial unit	Jamestown Metals Unit 45 Ebbw Vale
C/2018/0210	05/09/2018	Application for reserved matters relating to appearance, landscaping, layout and scale for residential development	Plot 2 Land adjoining Red Villa Llangynidr Road Ebbw Vale
C/2018/0218	13/09/2018	Proposed 1 bay extension to western end of existing industrial unit	Jamestown Metals Unit 45 Ebbw Vale
C/2019/0075	28/05/2019	Construction of landscaped bund to western end of site using site won material.	Plateau 1-2 Rassau Ind Est Ebbw Vale
C/2020/0071	30/04/2020	Demolition of ancillary buildings and tower, re-cladding and repair of exiting elevations, new canopy and curtain walling to front elevation, new canopy to rear elevation and ancillary works.	FORMER TECH-BOARD BUILDING & SITE RASSAU IND EST MAIN SPINE ROAD NORTH EBBW VALE
C/2020/0073	03/05/2020	Application of variation of condition 12 of planning permission C/2017/0167 (Renewal of outline planning permission for residential development and new site access) to extend date of submission of reserved matters relating to plots 3 and 4	Land Adjacent to Red Villa Llangynidr Road Ebbw Vale
C/2013/0062	25/09/2013	circuit of wales motorsport facility	land north of Rassau Industrial Estate

Planning Reference	Date of decision	Description	Address
C/2018/0272	pending	Variation of condition	land north of Rassau Industrial Estate
Applications between 500m and 2km of proposed development			
C/2016/0075	03/05/2016	Change of use to Class B8 (Storage or Distribution), together with minor external alterations.	Unit A Waun y Pound Industrial Estate Ebbw Vale
C/2016/0248	14/10/2016	Proposed two storey extension to factory unit 11	Unit 11 Rassau Industrial Estate Ebbw Vale
C/2016/0253	20/10/2016	Proposed single storey extension to factory unit 11 and link corridor from unit 11 to unit 12	Unit 11 Rassau Industrial Estate Ebbw Vale
C/2017/0331	24/01/2018	Change of use from warehousing to a manufacturing unit	Unit 20 Rassau Industrial Estate Ebbw Vale
C/2018/0142	05/07/2018	Change of use from Class B2 to a facility for the baling of recyclable materials (paper, cardboard, plastics and tin cans) (sui generis)	Unit 24 Rassau Ind Est Main Spine Road North Ebbw Vale
C/2018/0187	13/08/2018	Proposed warehouse store	Land opposite Travis Perkins WAUN Y POUND INDUSTRIAL ESTATE EBBW VALE
C/2018/0205	29/08/2018	Outline application for residential development with all matters reserved except for access from A4281	Former quarry adjacent to Graig House Nant-y-Croft Ebbw Vale
C/2018/0217	11/09/2018	Full planning application for development of 100 no. residential dwellings and associated works	Land at Bryn Serth (adjacent to KFC) Waun-Y-Pound Road Ebbw Vale

Planning Reference	Date of decision	Description	Address
C/2018/0224	24/09/2018	Construction of 15 no. dwellings (including 9 no. 3 bedroom units and 6 no. 4 bedroom units) and associated works.	Land off Cambridge Gardens Ebbw Vale
C/2018/0310	01/01/2019	Detailed application for erection of a 4955 sq.m (50,000 sq.ft) employment unit for B1, B2 or B8 uses, with highway & site access, car parking, service area, sub-station, along with footpath and cycleway provision, drainage & landscaping.	Land at Rhyd Y Blew Ebbw Vale
C/2019/0005	28/02/2019	Residential development of 277 units, including associated works	Land at Waun y Pound/ College Road Ebbw Vale
C/2019/0346	04/02/2020	Affordable housing development of 23 dwellings including new access road, landscaping and associated engineering and drainage works.	Site of former sheltered housing at Glanffrwd Court Ebbw Vale
Applications between 2km and 5km of proposed development			
C/2015/0387	24/07/2017	Proposed development of 10 no. private houses and associated works	Land off Cambridge Gardens Ebbw Vale
C/2016/0158	15/09/2016	Erection of two buildings for Class B1/B2/B8 use with new pedestrian and vehicular access and associated parking	Land rear of Units 39 & 40 Rassau Industrial Estate Ebbw Vale
C/2017/0019	09/05/2017	This is an hybrid planning application comprising of: outline application for: retail units 2, 3 and 4 (Unit 2 Class A1 Convenience food store 1,392sqm retail; Unit 3 Class A1 Comparison 1631 sq m, and a flexible use	Former NMC site, Units 1- 4 Lakeside Blaina Road Nantyglo

Planning Reference	Date of decision	Description	Address
		for Unit 4 Classes A1/A2/A3 121 sqm.); and a full application for restaurant (Unit 1 Class A3 McDonald's 415sqm)	
C/2017/0143	03/04/2018	Proposed residential development (18 Dwellings) with associated highways and parking provision for adjacent dwellings (Outline)	Land at Ashvale Sports Club Griffiths Gardens Tredegar
C/2017/0159	08/11/2018	Outline planning application for the erection of residential dwellings (up to 25 units), a drive-thru restaurant, and associated works with all matters reserved other than means of access	Land east of Blaina Road Brynmawr
C/2017/0280	04/01/2018	Construction of 35 residential units and associated works	Former Briery Hill School Woodside Crescent Ebbw Vale
C/2018/0154	06/07/2018	Extension of existing production and warehousing facilities	Eurocaps Ltd Crown Business Park Road Tredegar
C/2018/0205	07/09/2018	Outline application for residential development with all matters reserved except for access from A4281	Former quarry adjacent to Graig House Nant-y-Croft Ebbw Vale
C/2018/0310	08/01/2019	Detailed application for erection of a 4955 sq.m (50,000 sq.ft) employment unit for B1, B2 or B8 uses, with highway & site access, car parking, service area, sub-station, along with footpath and cycleway provision, drainage & landscaping.	Land at Rhyd Y Blew Ebbw Vale
C/2019/0005	07/11/2019	Residential development of 277 units, including associated works	Land at Waun y Pound/ College Road Ebbw Vale

Planning Reference	Date of decision	Description	Address
C/2019/0009	04/04/2019	Construction of new business units (Class B1/B2/B8 and ancillary uses) and associated parking areas, external works	Land to the north east of Unit 29 Rassau Industrial Estate Ebbw Vale
C/2019/0035	07/06/2019	Full planning application for the provision of 3 retail units (Unit 2 Class A1 convenience food store, Unit 3 Class A1 comparison and flexible use for Unit 4 Classes A1/A2/A3) and associated works.	Former NMC Site, 2-4 Lakeside Blaina Road Brynmawr
C/2019/0054	16/12/2019	Construction of 6 buildings to provide 25 employment units for B1 and B2 uses, new access road and junctions off Lime Avenue & associated parking and other infrastructure	Land off southern end of Lime Avenue Ebbw Vale
C/2019/0237	07/11/2019	Outline application for the demolition of tredegar health centre partial demolition of tredegar general hospital and erection of a new class D1 health and well being centre	Tredegar General Hospital, Tredegar Health Centre and Bedwellty Park Park Row Tredegar
C/2019/0330	16/03/2020	The change of use of existing buildings from Education and Training Centre to B2 Industrial use for the recycling and recovery of WEEE (Waste Electronic and Electrical Equipment) and associated materials and products.	Unit 2 Tafarnaubach Industrial Estate
C/2020/0256	20/01/2021	Construction of a new unit	Unit 28 Tafarnaubach Industrial Estate
C/2021/0006	08/03/2021	Industrial Unit subdivided into 6 units and 14 metal containers	Land at Western End of HOV Hub Crown Avenue Tredegar
C/2021/0079	25/05/2021	construction of 8 Industrial Units	HOV Hub Crown Avenue Industrial Estate

