

Norfolk Vanguard Offshore Wind Farm

Appendix 28.5

Onshore Geophysical Survey Results

FIGURES - PART 5

Environmental Statement

Volume 3 - Appendices

Applicant: Norfolk Vanguard Limited
Document Reference: 6.2.28.5
RHDHV Document Reference: PB4476-005-0285
Pursuant to APFP Regulation: 5(2)(a)

Date: June 2018
Revision: Version 1
Author: Headland Archaeology

Photo: Kentish Flats Offshore Wind Farm



Environmental Impact Assessment Environmental Statement

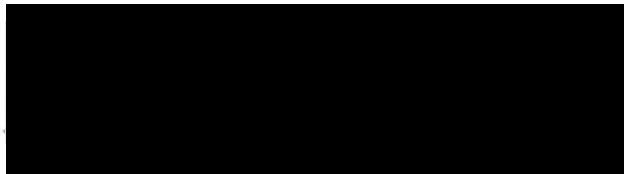
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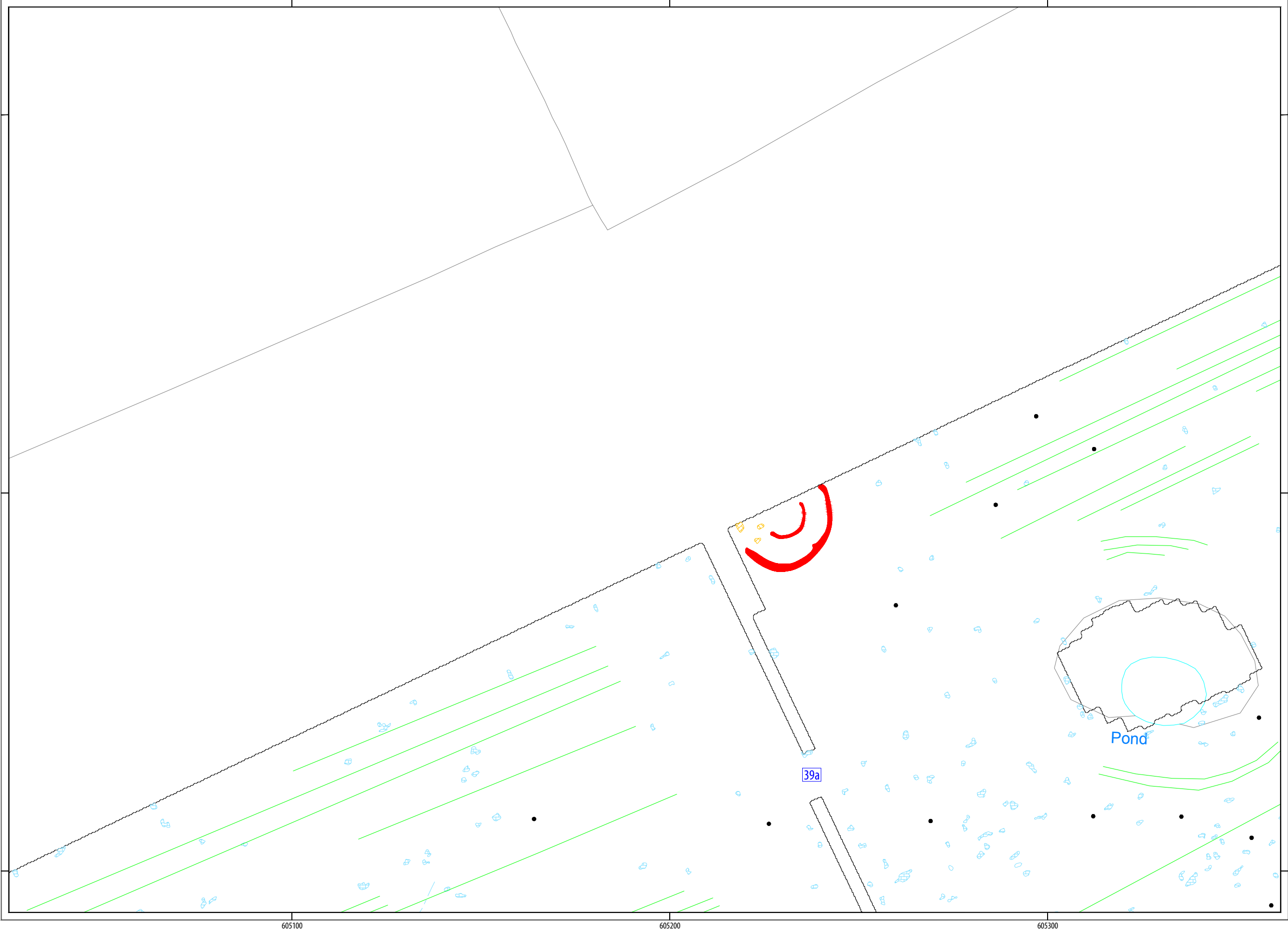
For and on behalf of Norfolk Vanguard Limited

Approved by: Ruari Lean, Rebecca Sherwood

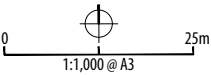
Signed:



Date: 8th June 2018



TYPE OF ANOMALY		INTERPRETATION
•	dipolar isolated	ferrous material
—	linear trend	agricultural
—	linear trend	geology
⊞	magnetic enhancement	geology
⊞	magnetic enhancement	archaeology?
●	magnetic enhancement	archaeology



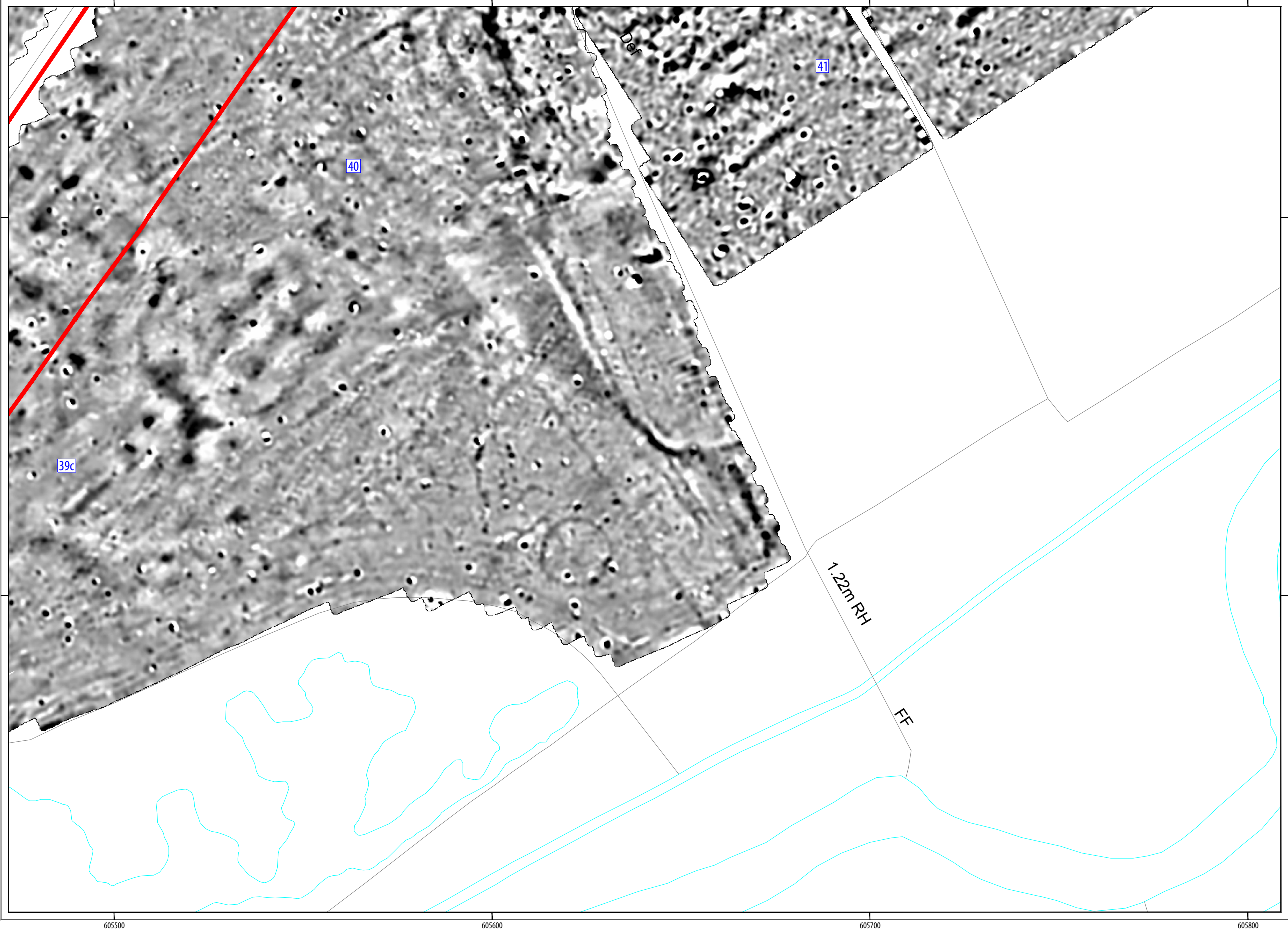
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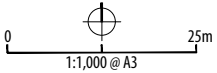
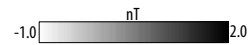


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 norfolk vanguard red line boundary



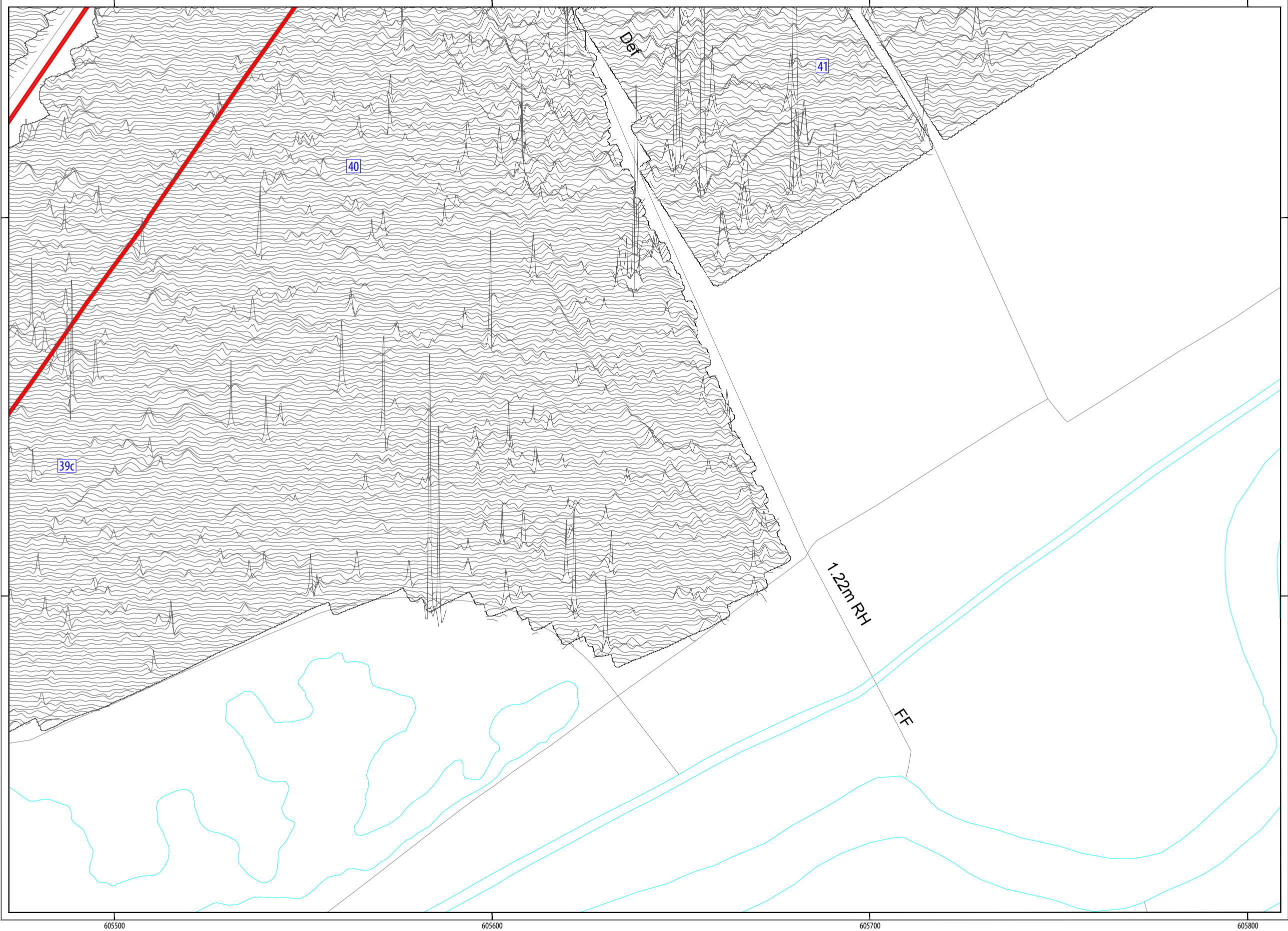
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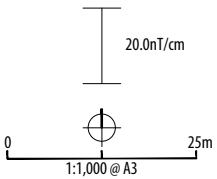


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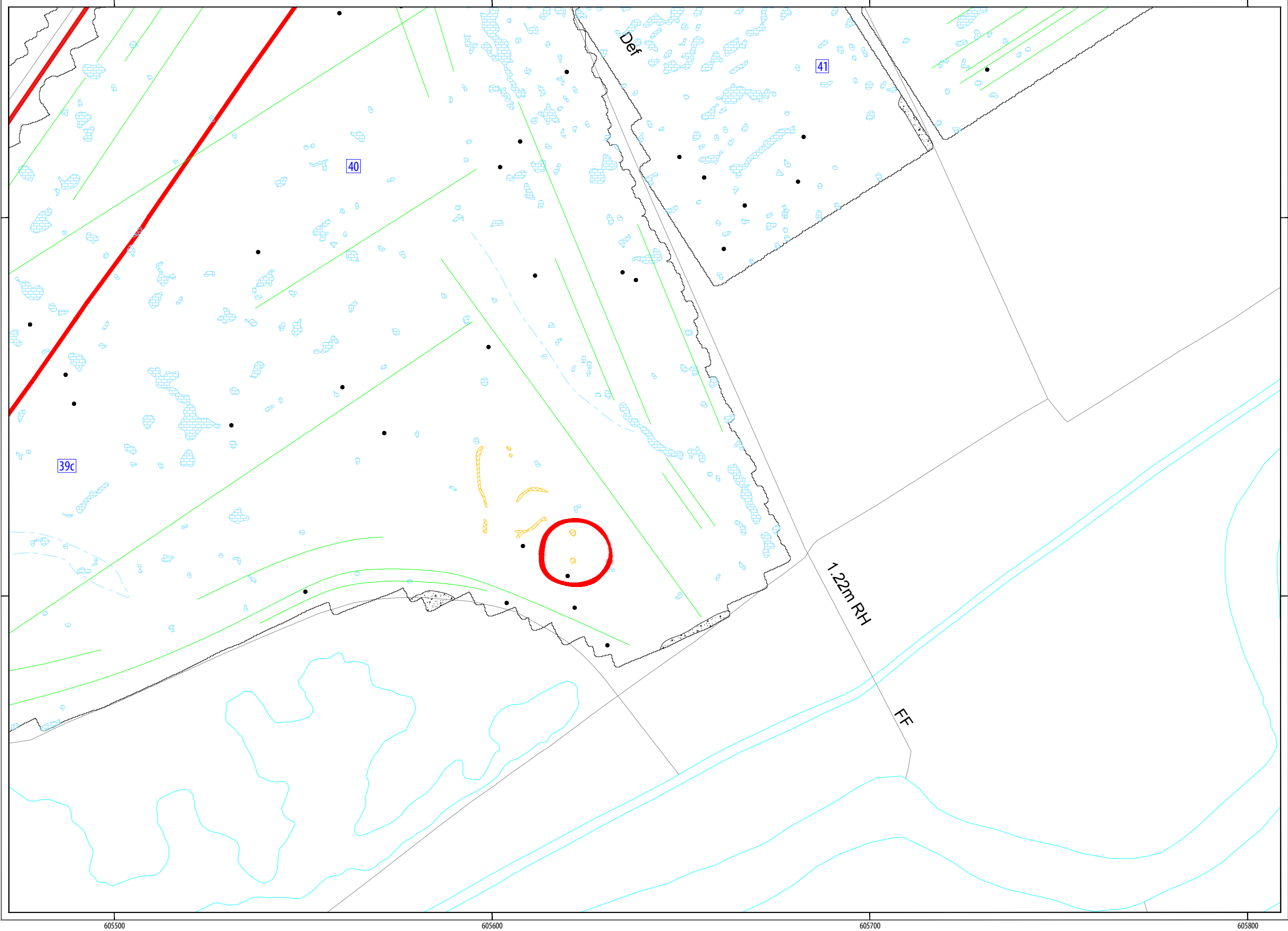
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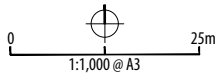
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ILLUS 201 XY trace plot of minimally processed magnetometer data; AAA2



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TYPE OF ANOMALY	INTERPRETATION
dipolar isolated	ferrous material
magnetic disturbance	ferrous material
linear trend	agricultural
linear trend	geology
magnetic enhancement	geology
magnetic enhancement	archaeology?
magnetic enhancement	archaeology

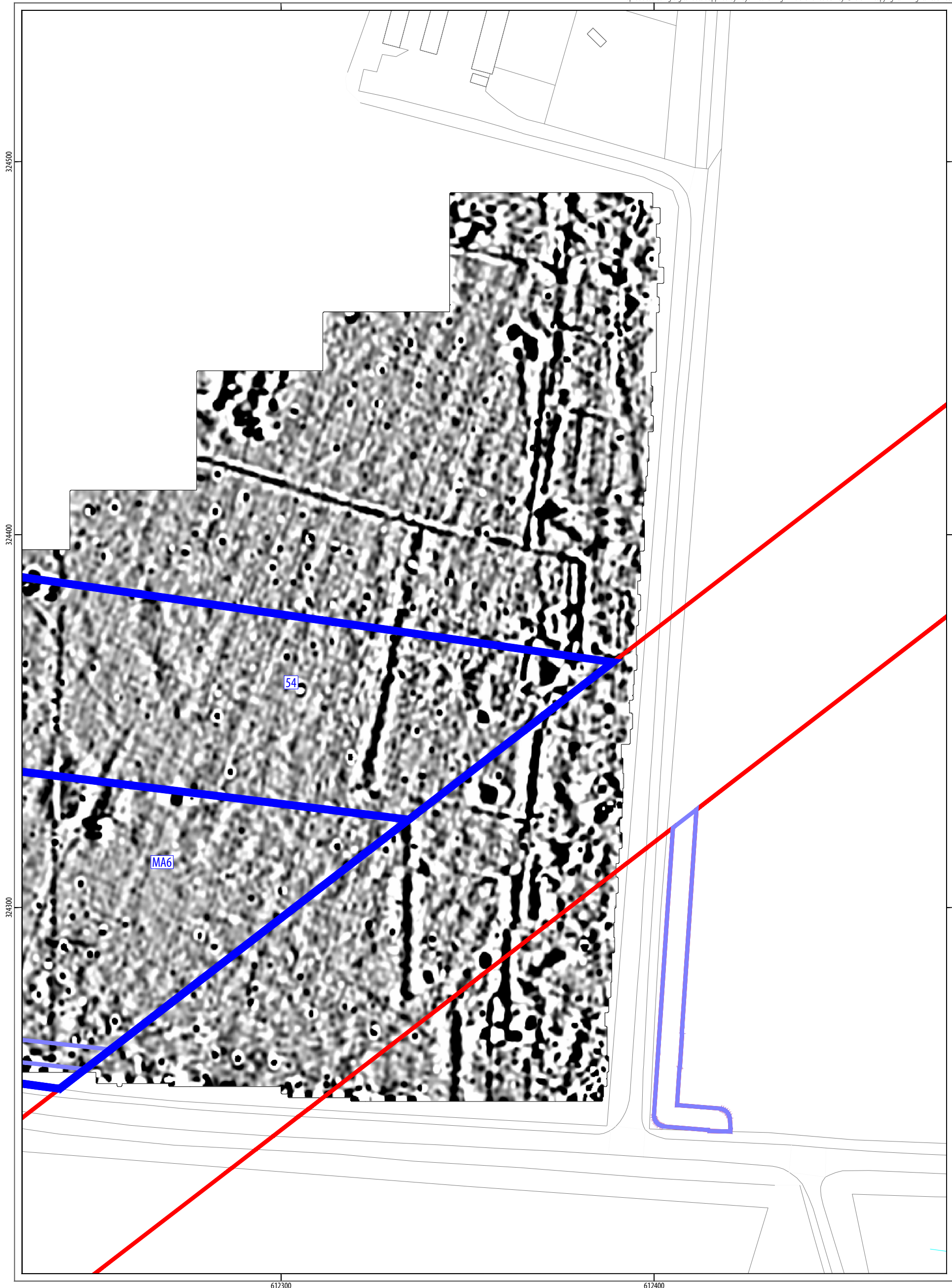


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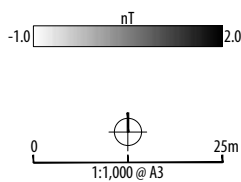
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- norfolk vanguard red line boundary
- mobilisation area
- access route



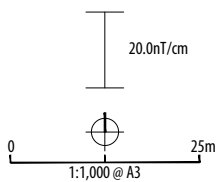
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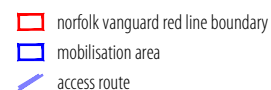
- norfolk vanguard red line boundary
- mobilisation area
- access route



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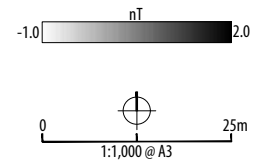
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ILLUS 205 Interpretation of magnetometer data; AAA3



□ norfolk vanguard red line boundary



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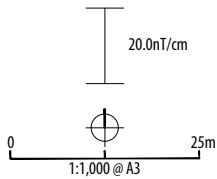
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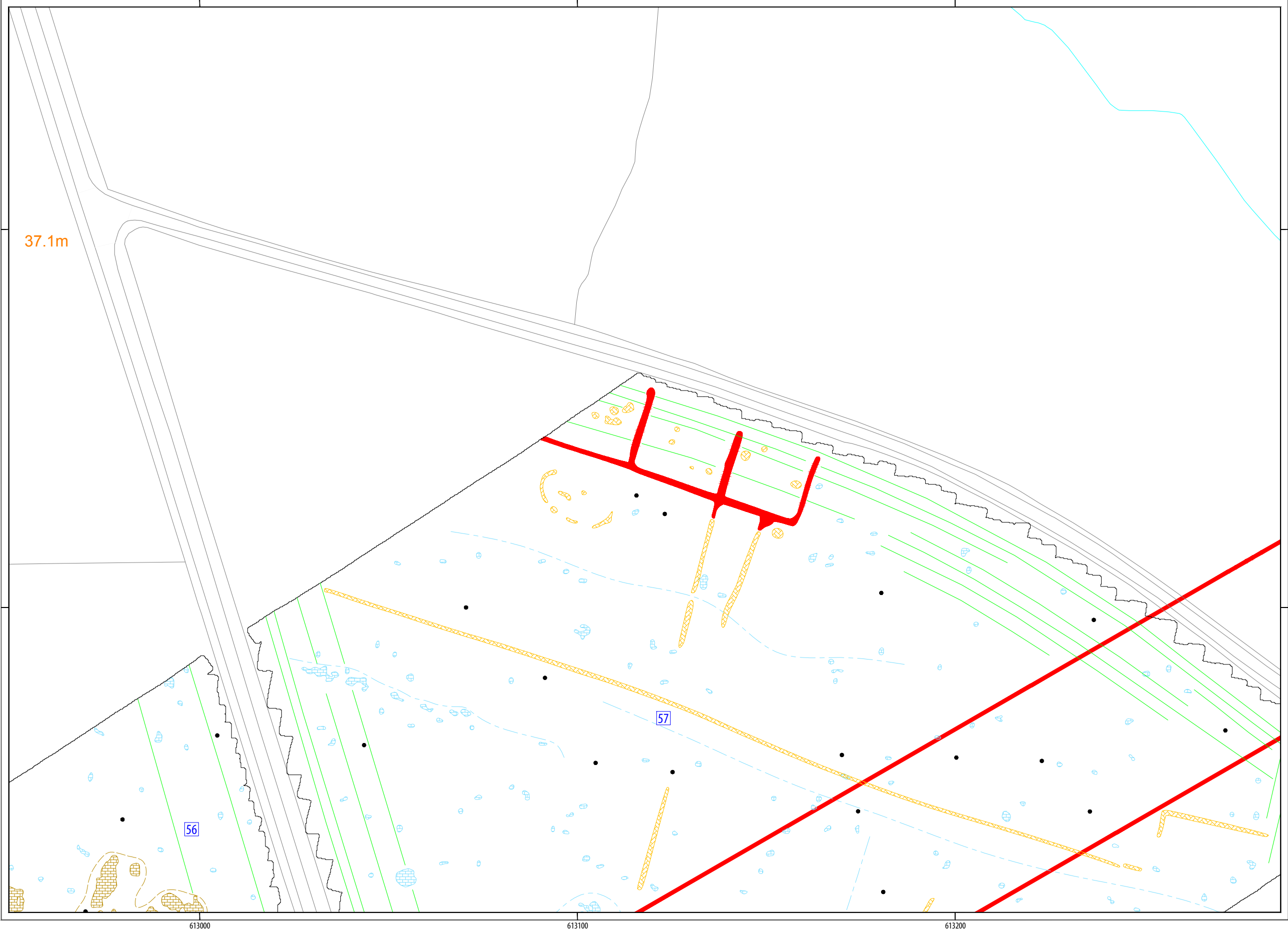


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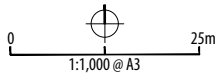


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norfolk vanguard red line boundary

TYPE OF ANOMALY	INTERPRETATION
dipolar isolated	ferrous material
linear trend	agricultural
linear trend	geology
magnetic enhancement	geology
magnetic enhancement	quarrying
magnetic enhancement	archaeology?
magnetic enhancement	archaeology

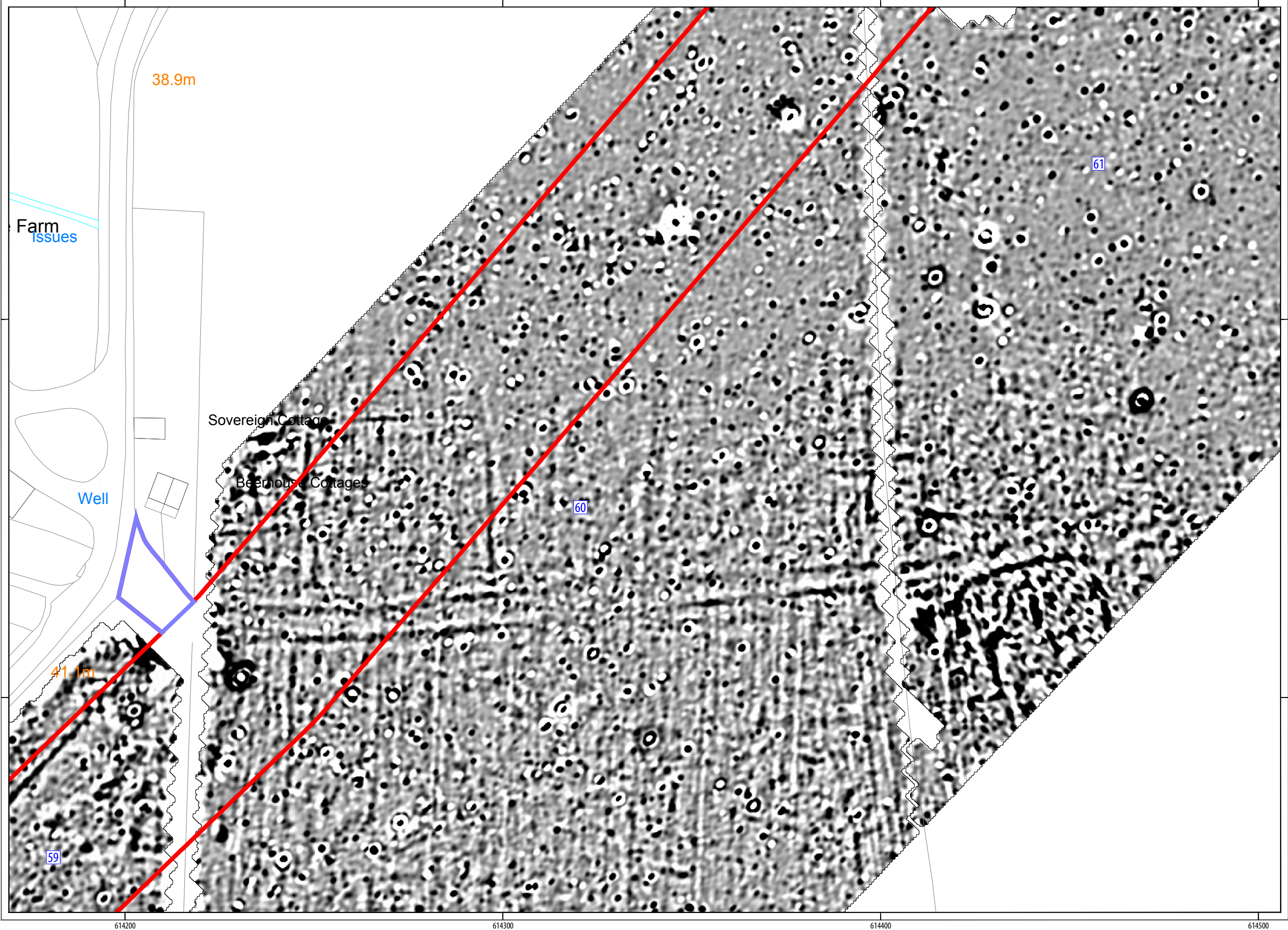


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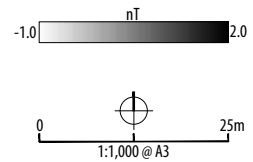
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 access route

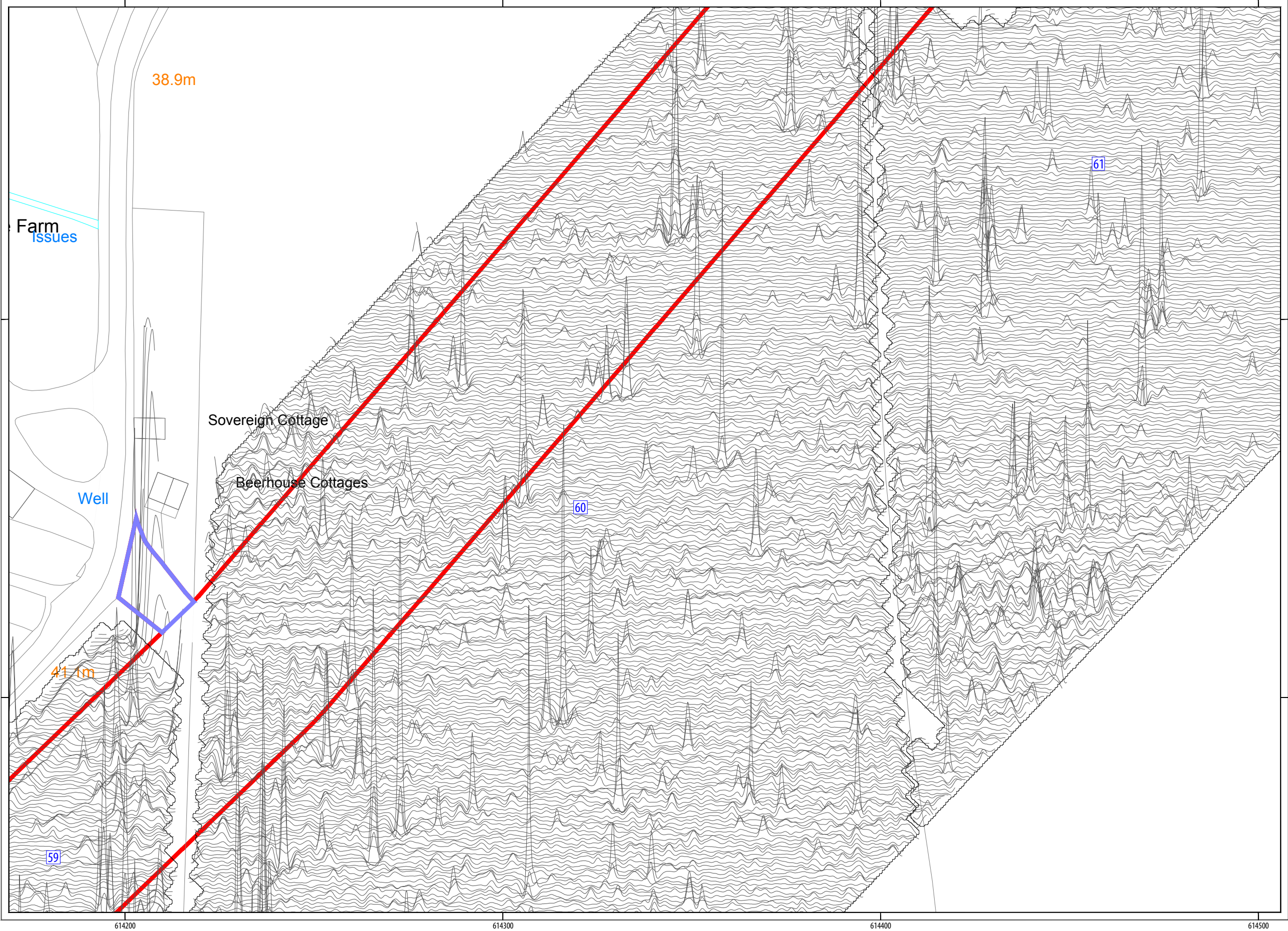


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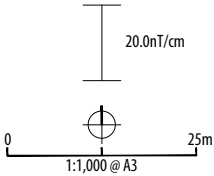
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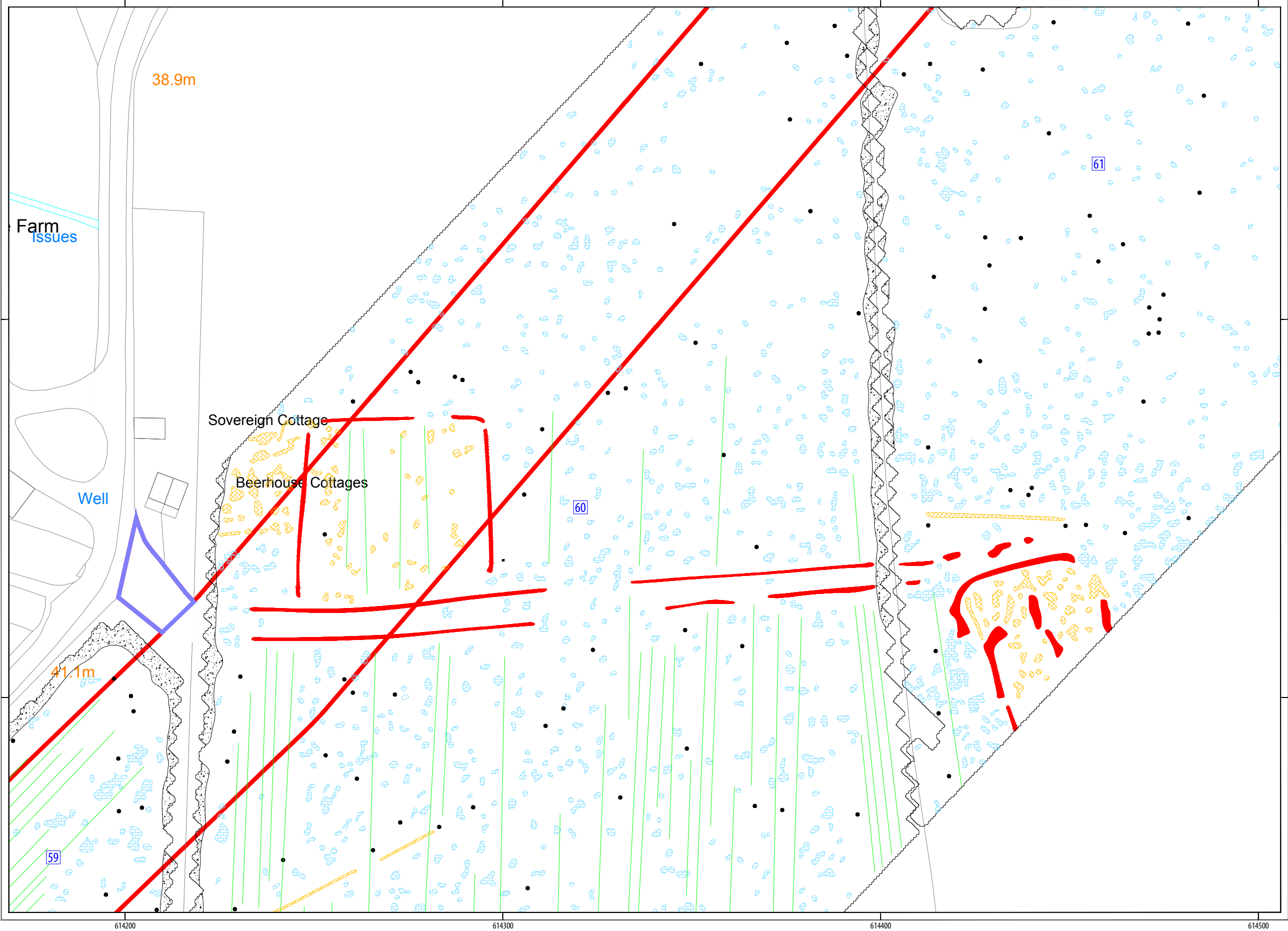


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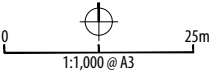
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TYPE OF ANOMALY		INTERPRETATION
	dipolar isolated	ferrous material
	magnetic disturbance	ferrous material
	linear trend	agricultural
	magnetic enhancement	geology
	magnetic enhancement	archaeology?
	magnetic enhancement	archaeology

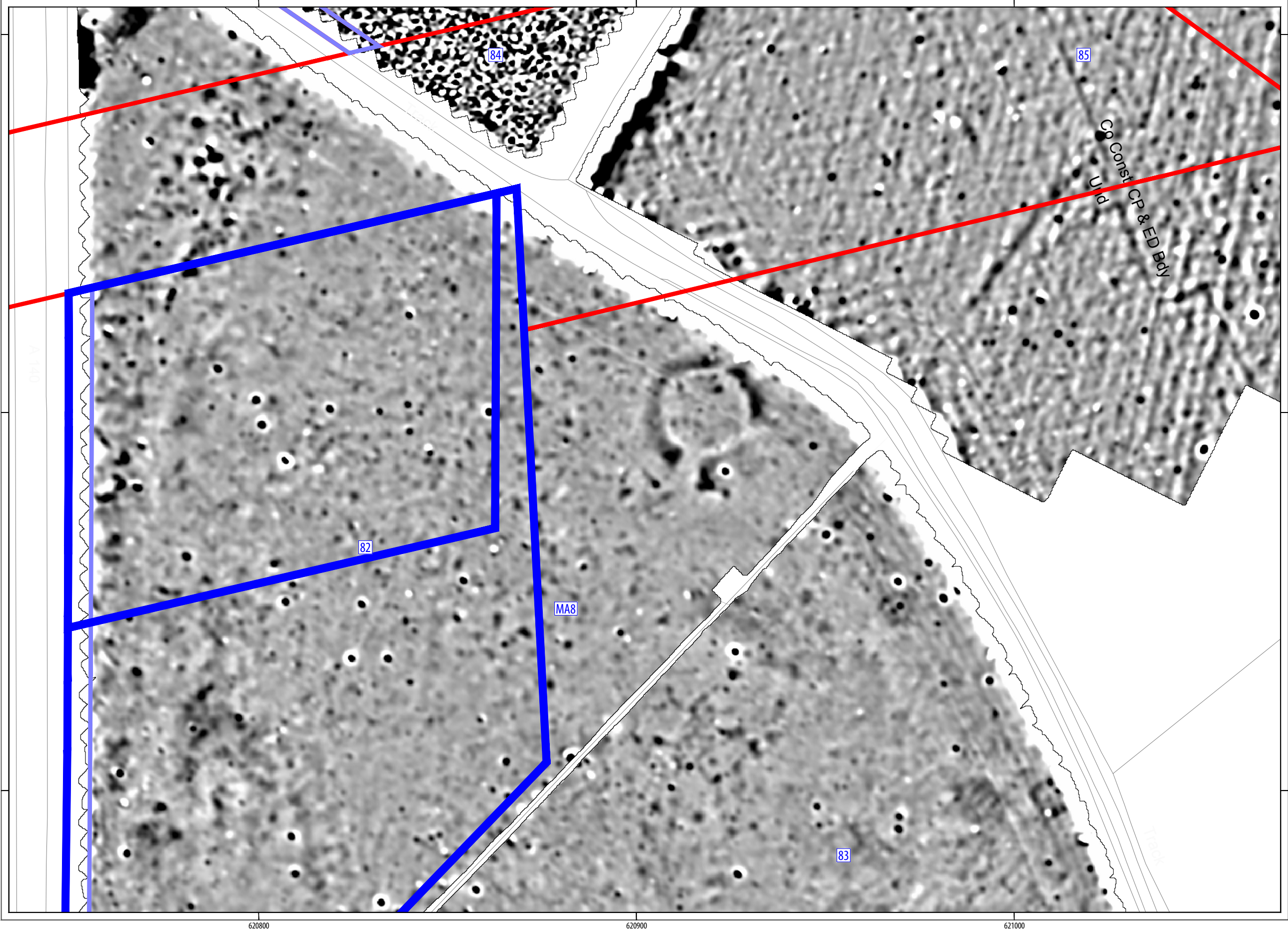


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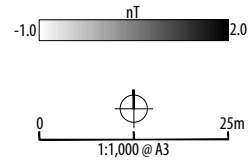
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- norfolk vanguard red line boundary
- mobilisation area
- access route

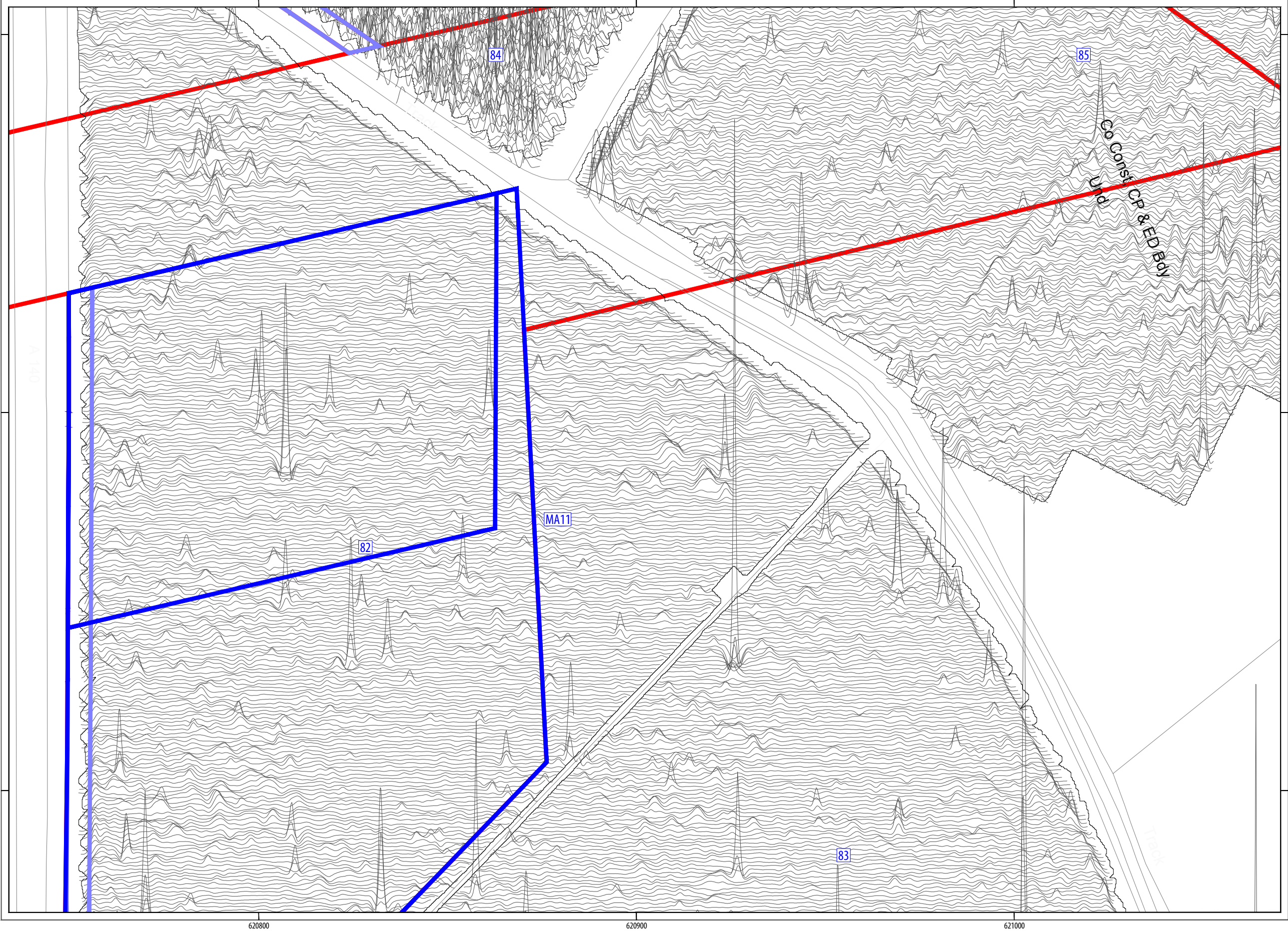


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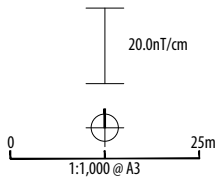
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- norfolk vanguard red line boundary
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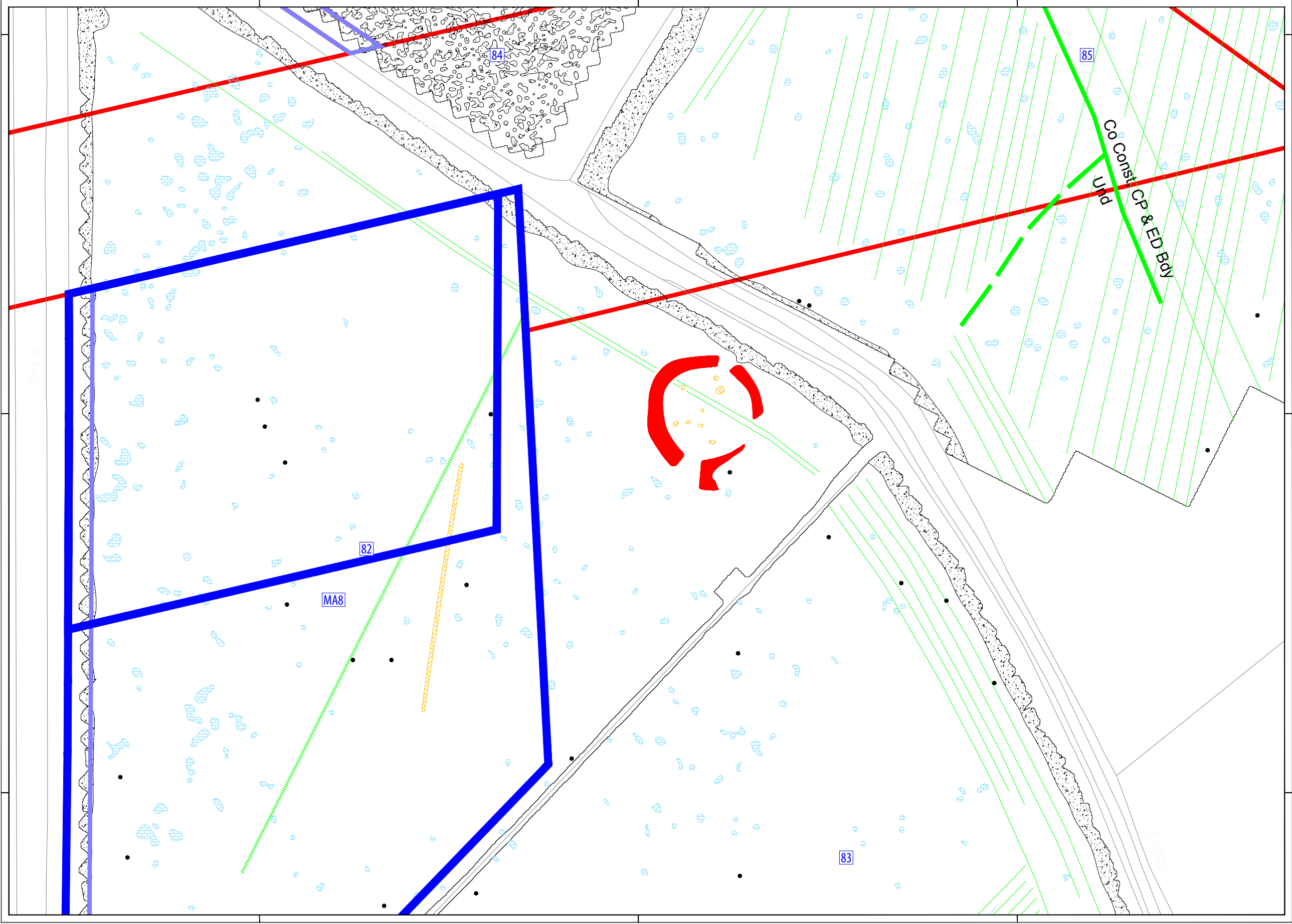


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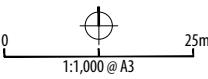
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TYPE OF ANOMALY		INTERPRETATION
●	dipolar isolated	ferrous material
●	magnetic disturbance	ferrous material
—	linear trend	agricultural
—	linear	former field boundary
—	linear	former field boundary?
●	magnetic enhancement	geology
●	magnetic enhancement	archaeology?
●	magnetic enhancement	archaeology



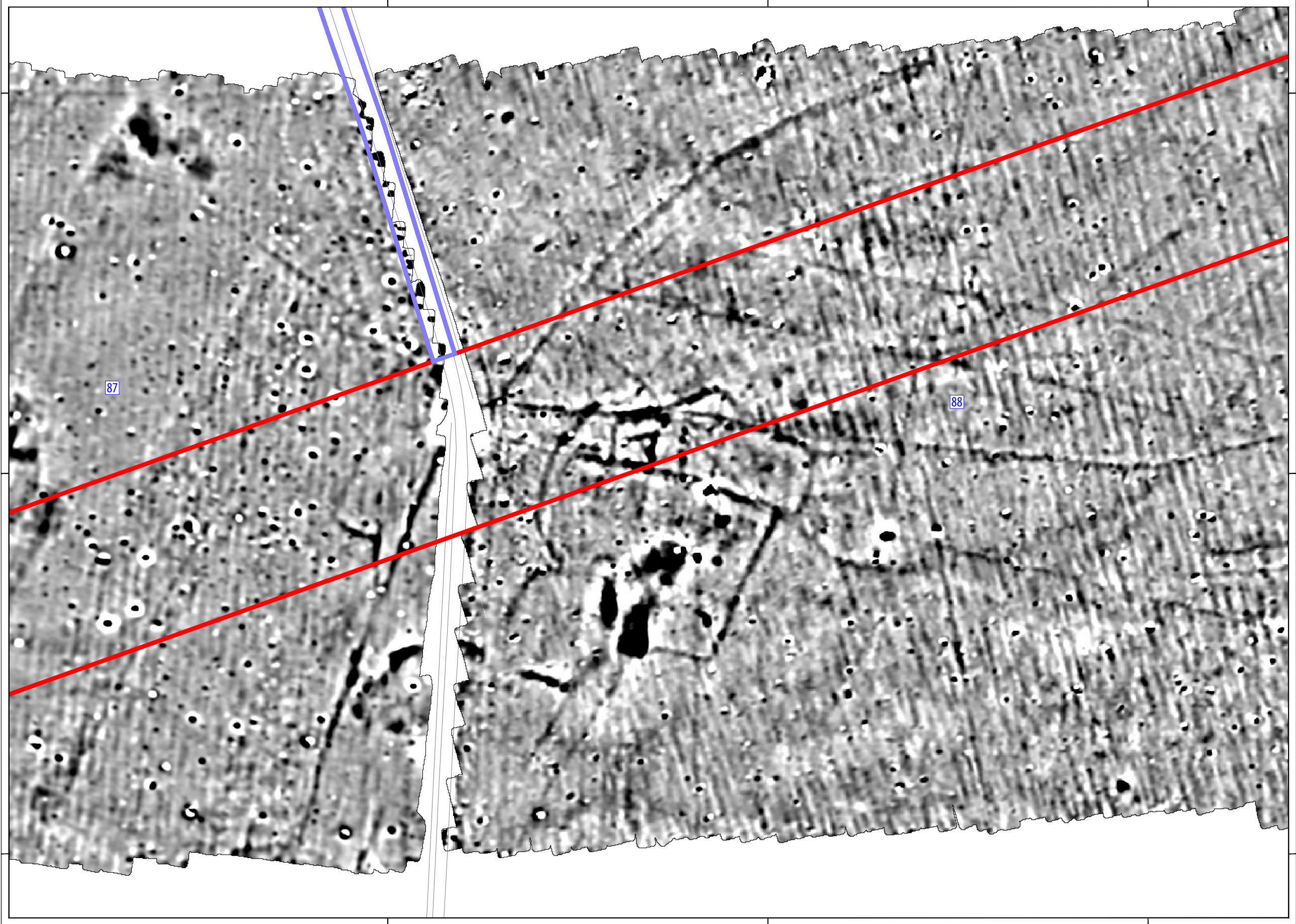
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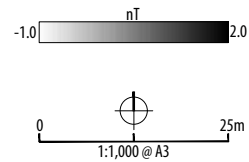


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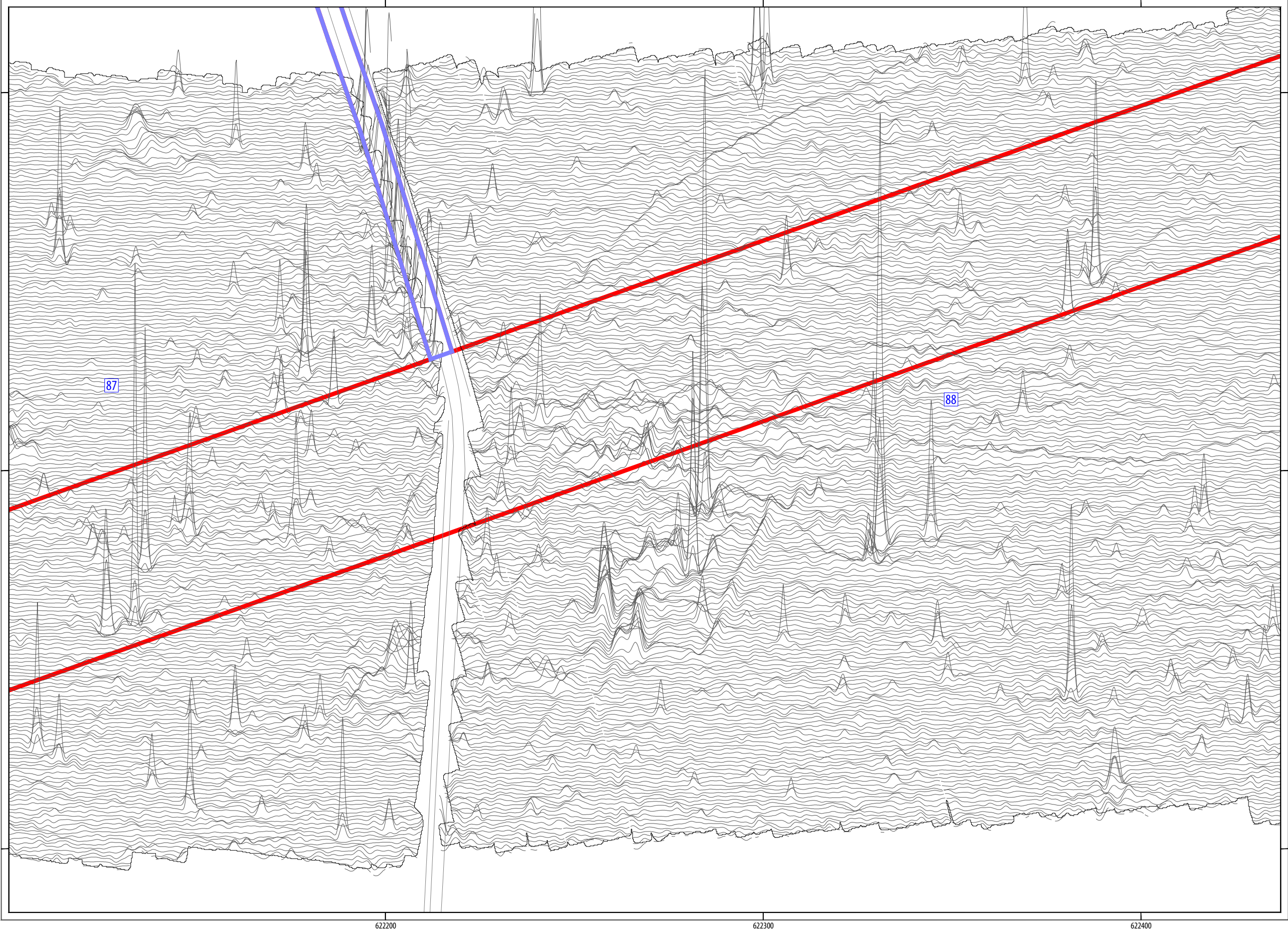
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 access route



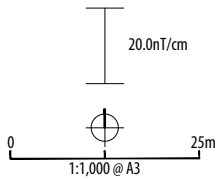
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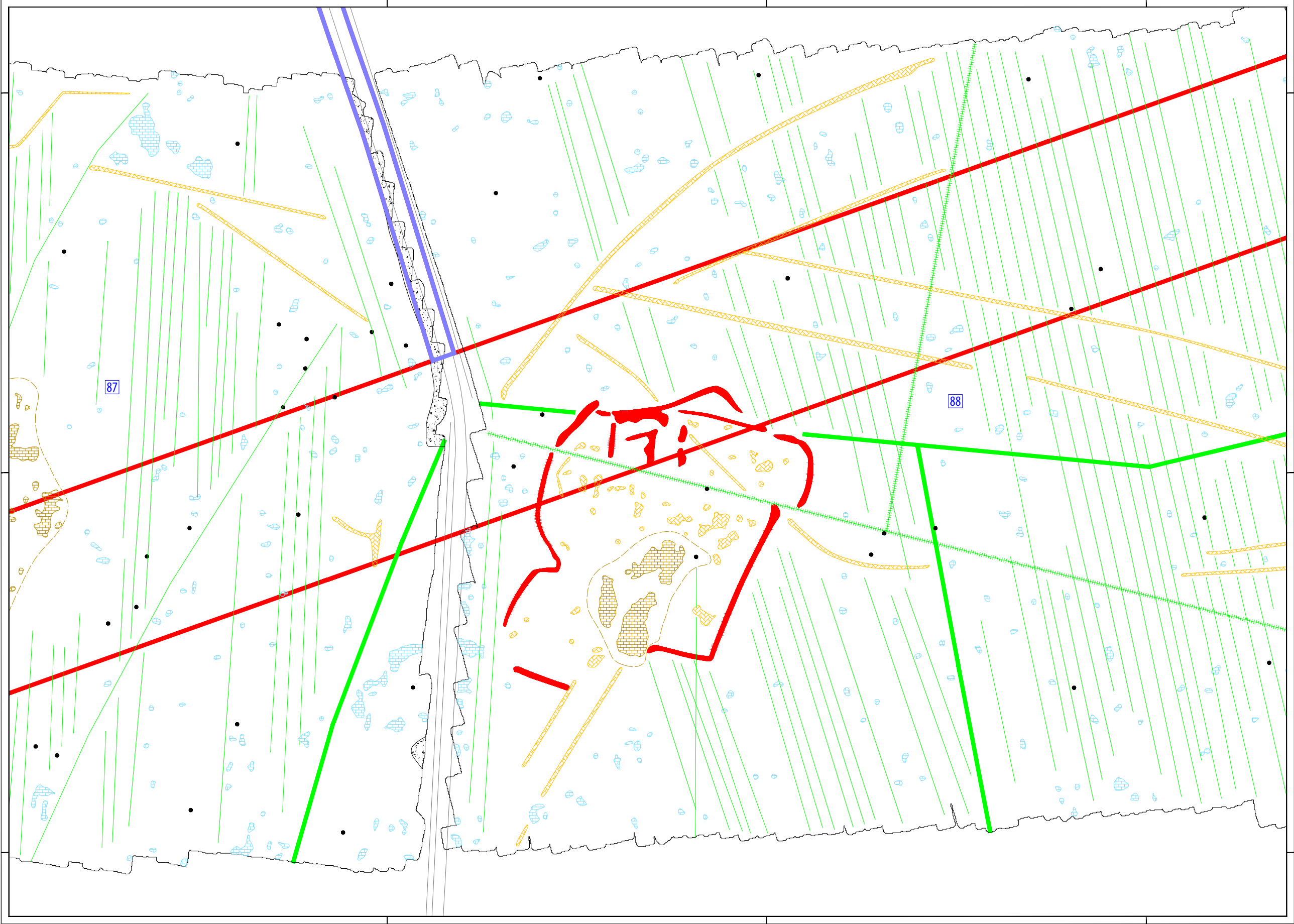


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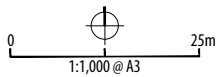
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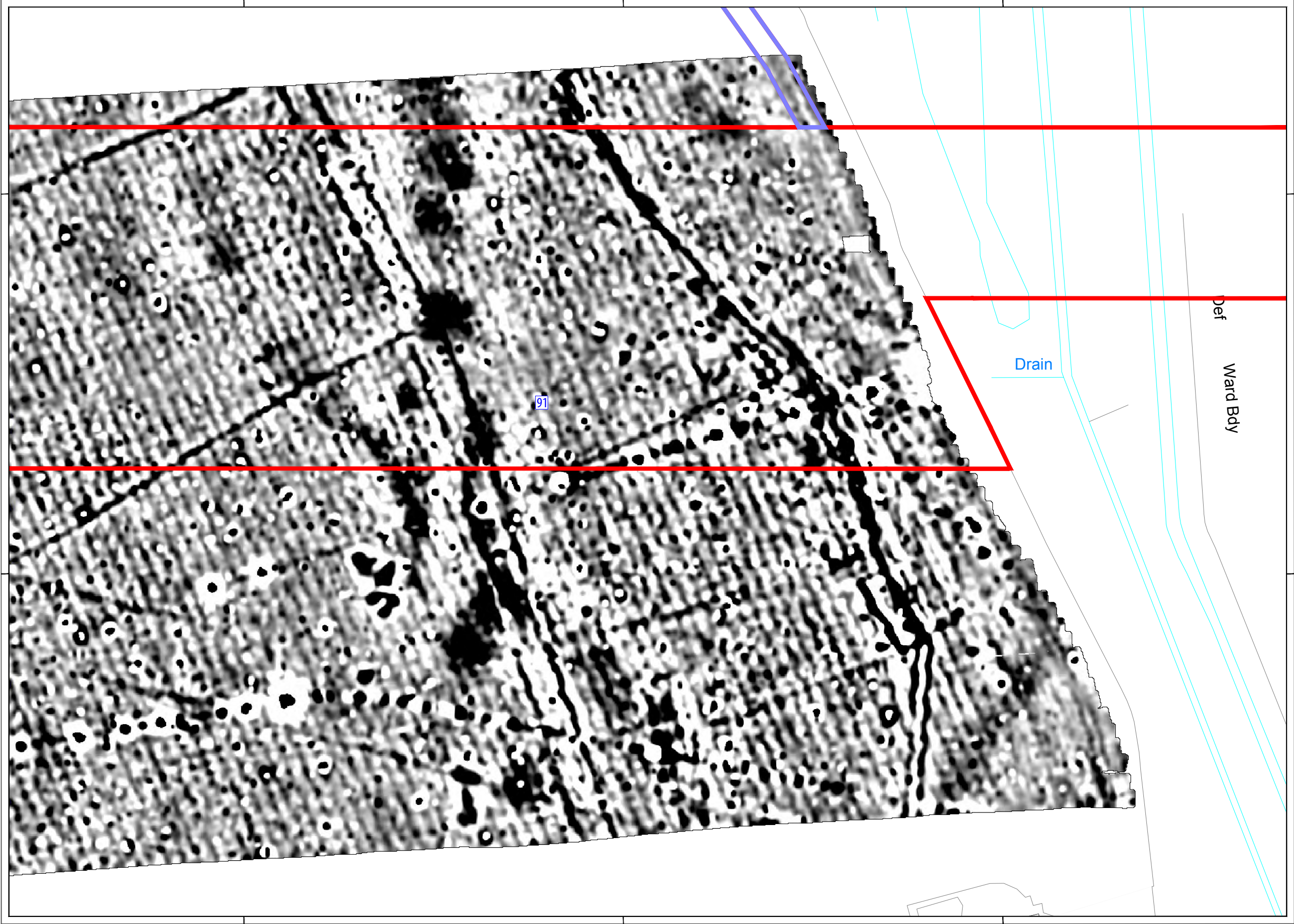
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	access route	
	dipolar isolated	ferrous material
	magnetic disturbance	ferrous material
	linear trend	drain
	linear trend	agricultural
	linear	former field boundary
	magnetic enhancement	geology
	magnetic enhancement	quarrying
	magnetic enhancement	archaeology?
	magnetic enhancement	archaeology



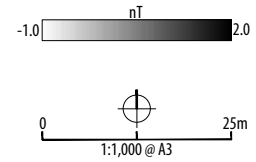
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 access route

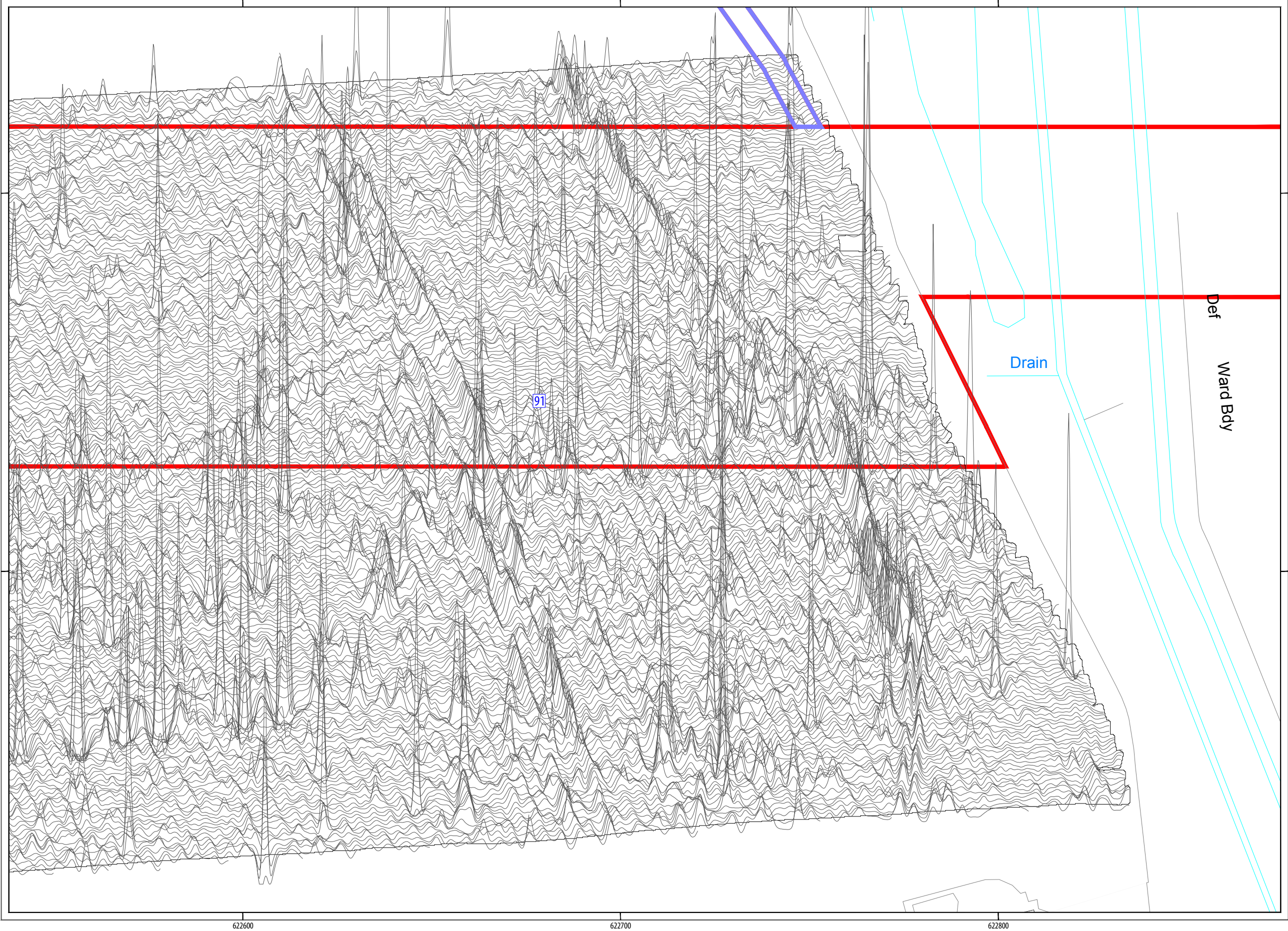


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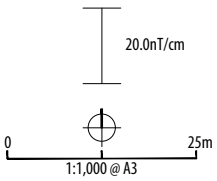
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access route



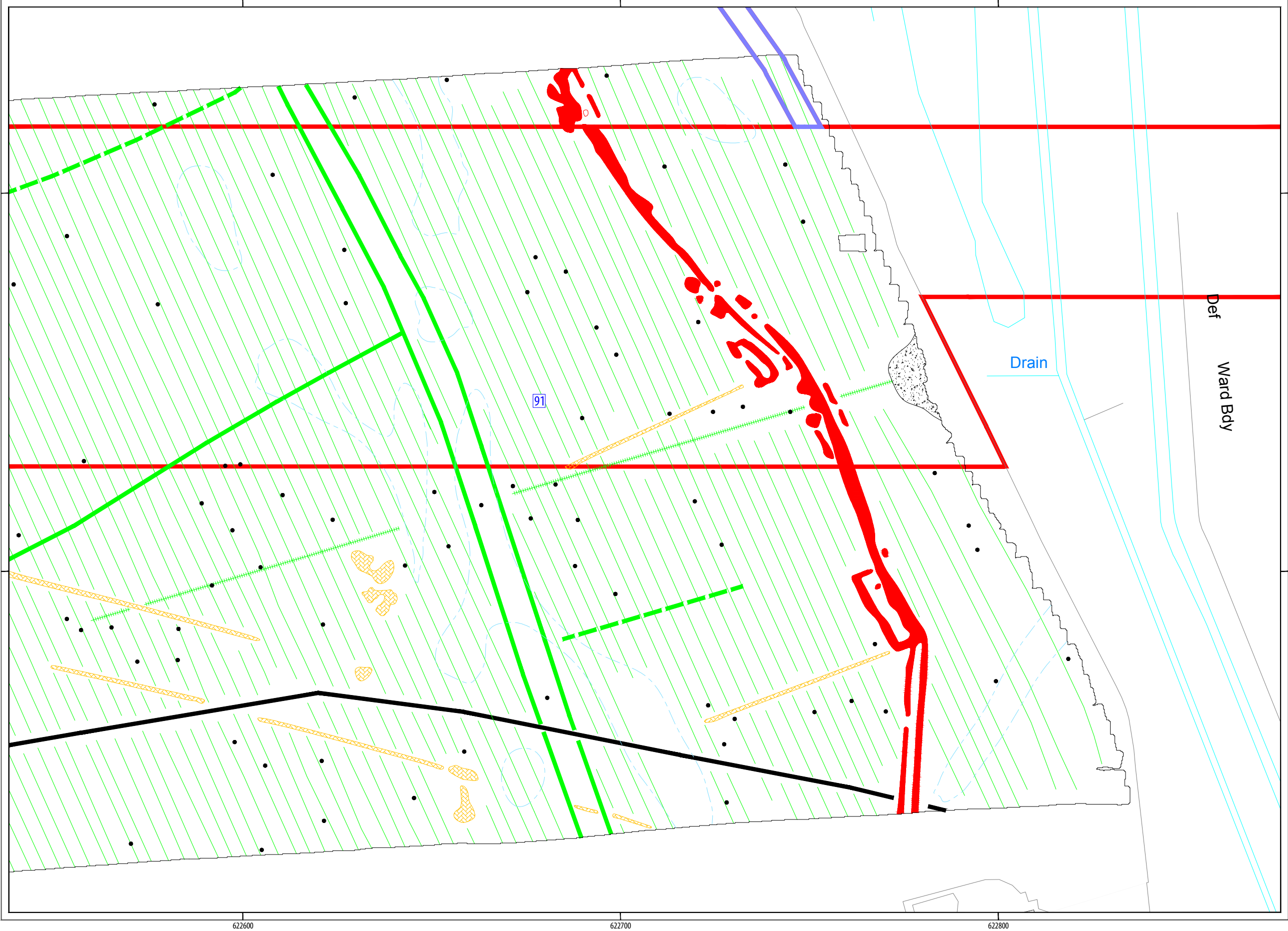
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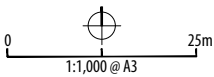
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ILLUS 219 XY trace plot of minimally processed magnetometer data; AAA8



TYPE OF ANOMALY		INTERPRETATION
●	dipolar isolated	ferrous material
—	dipolar linear	service pipe
●	magnetic disturbance	ferrous material
----	linear trend	drain
—	linear trend	agricultural
—	linear	former field boundary
—	linear	former field boundary?
—	linear trend	geology
⊗	magnetic enhancement	archaeology?
■	magnetic enhancement	archaeology



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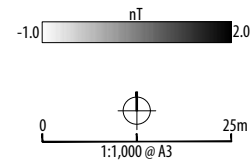
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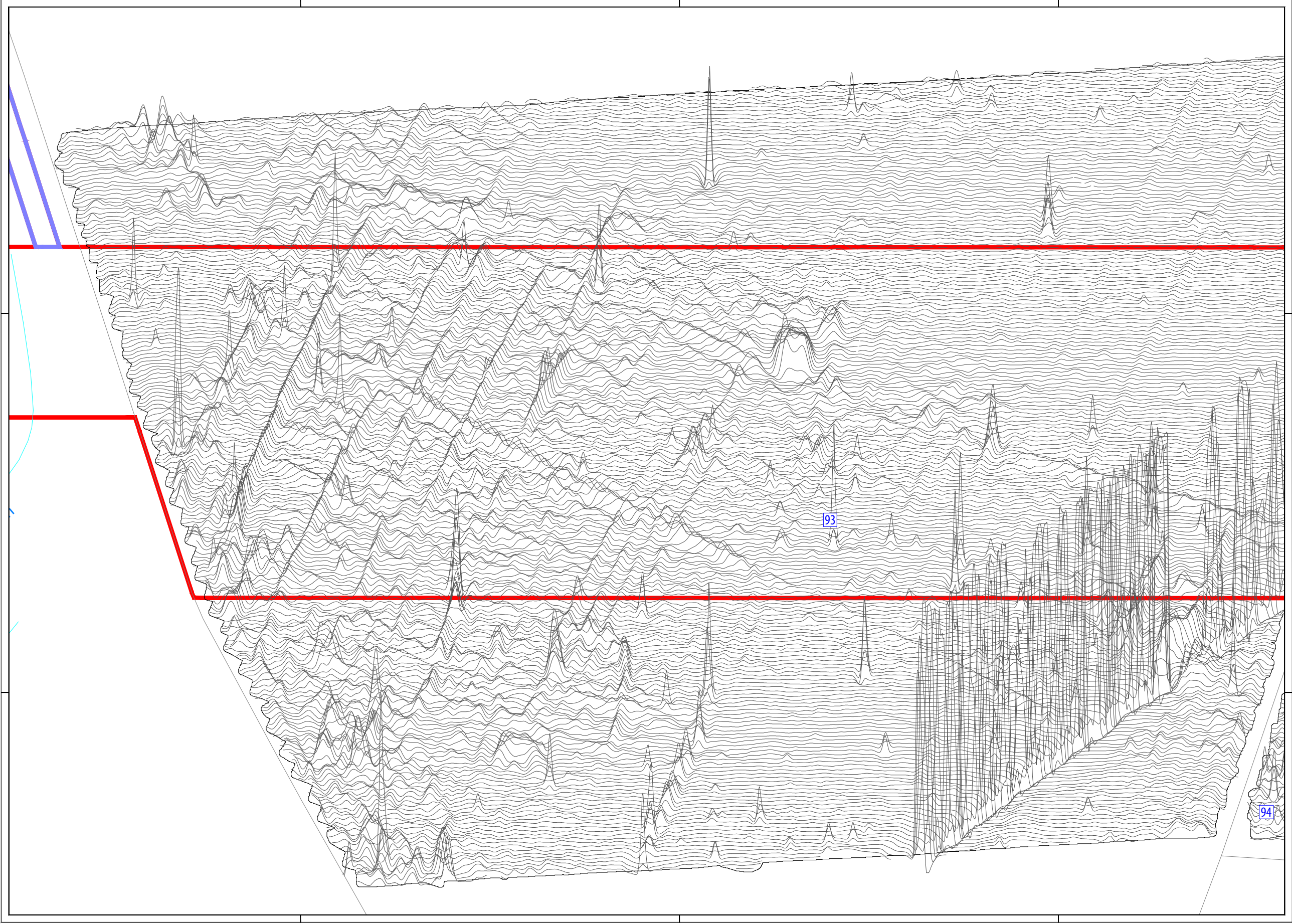


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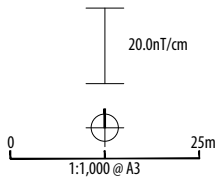
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access route

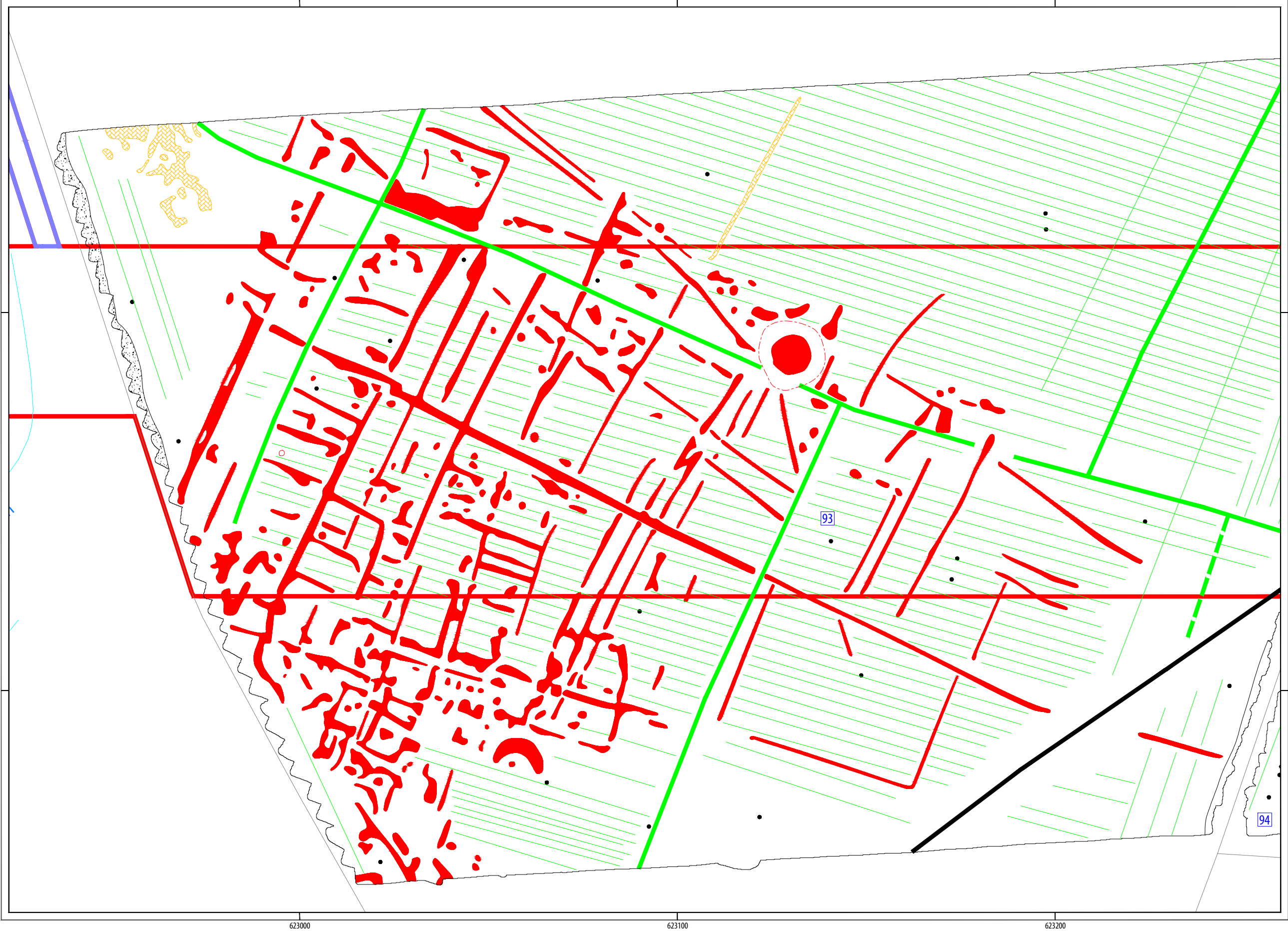


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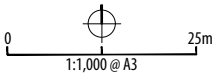
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TYPE OF ANOMALY		INTERPRETATION
	norfolk vanguard red line boundary	
	access route	
	dipolar isolated	ferrous material
	dipolar linear	service pipe
	magnetic disturbance	ferrous material
	linear trend	agricultural
	linear	former field boundary
	linear	former field boundary?
	magnetic enhancement	archaeology?
	magnetic enhancement	archaeology

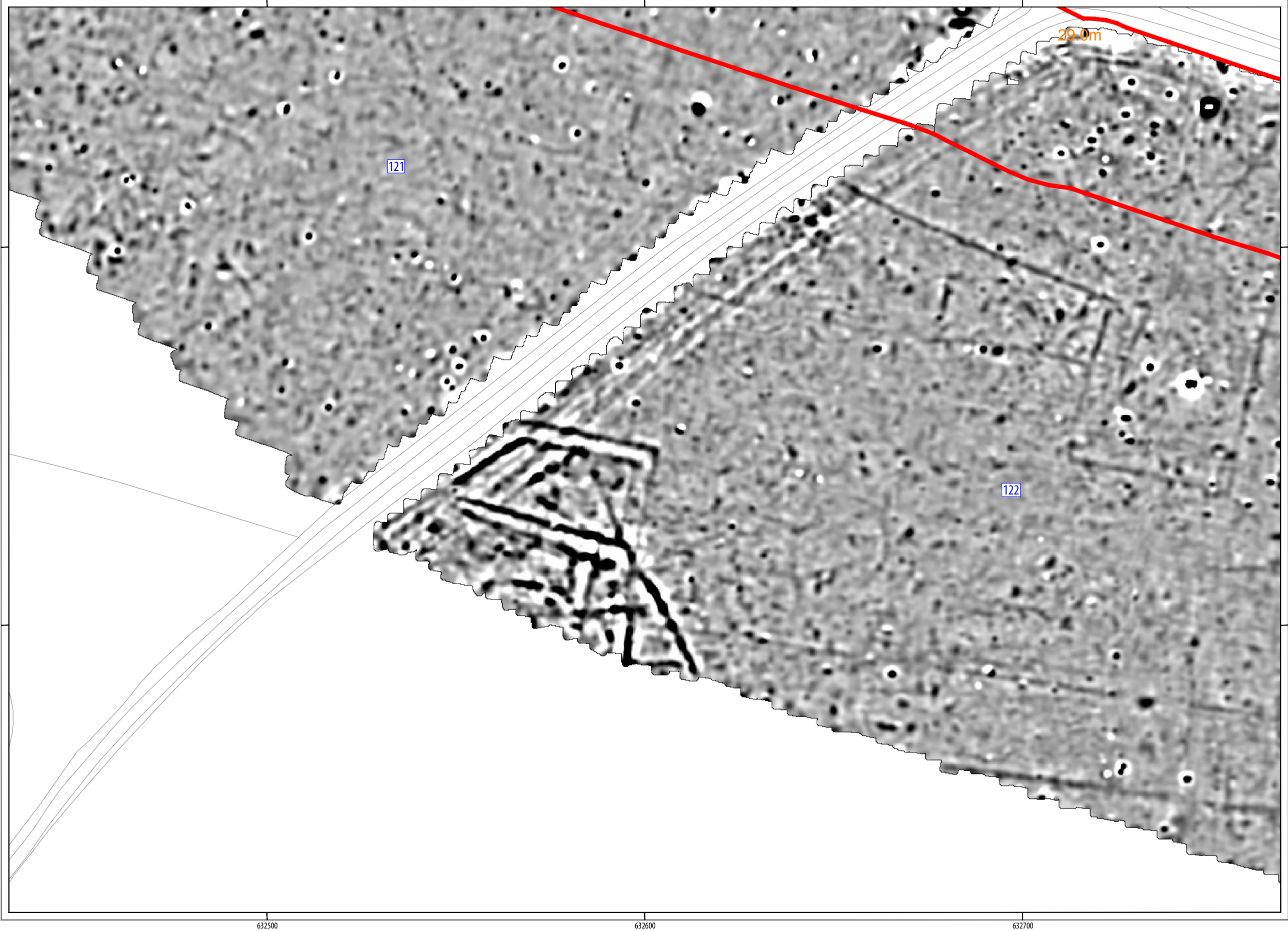


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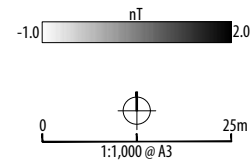
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norfolk vanguard red line boundary



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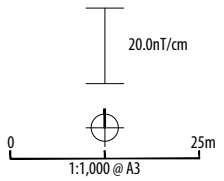
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 norfolk vanguard red line boundary



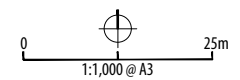
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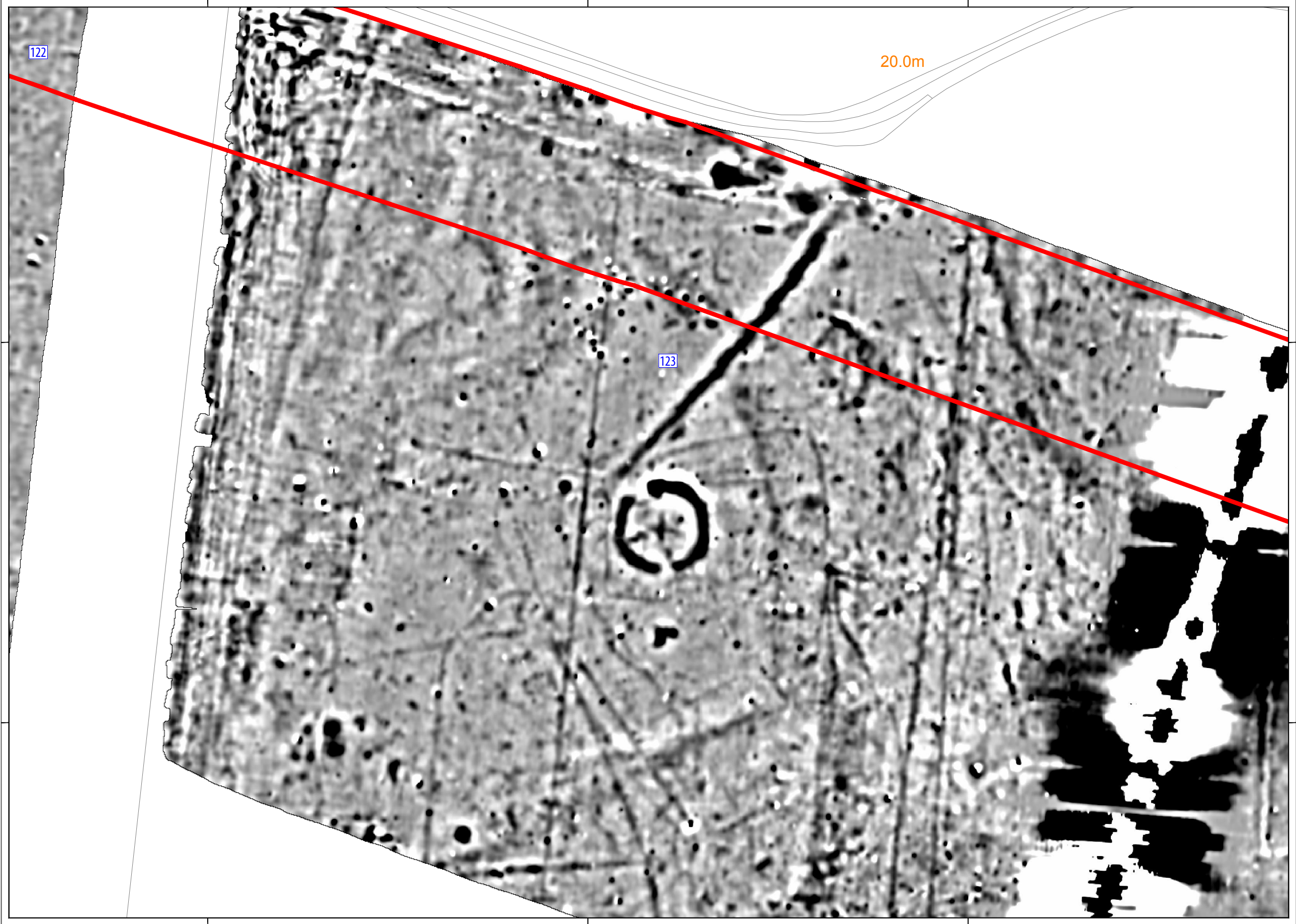
TYPE OF ANOMALY	INTERPRETATION
 dipolar isolated	ferrous material
 magnetic disturbance	ferrous material
 linear trend	agricultural
 linear	former field boundary
 magnetic enhancement	geology
 magnetic enhancement	archaeology?
 magnetic enhancement	archaeology



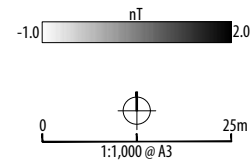
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 norfolk vanguard red line boundary

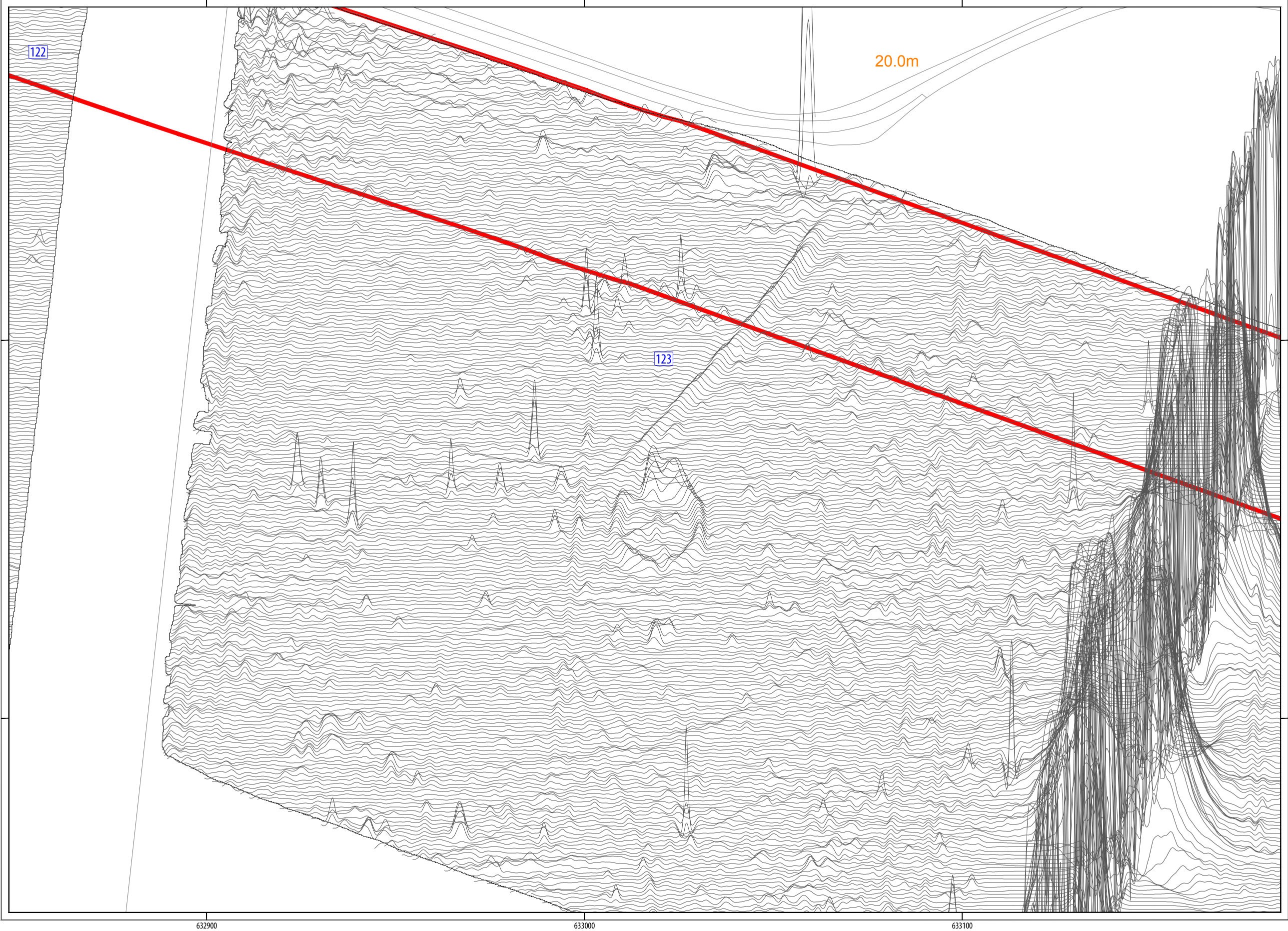


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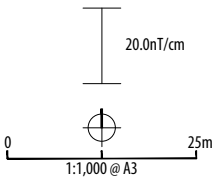
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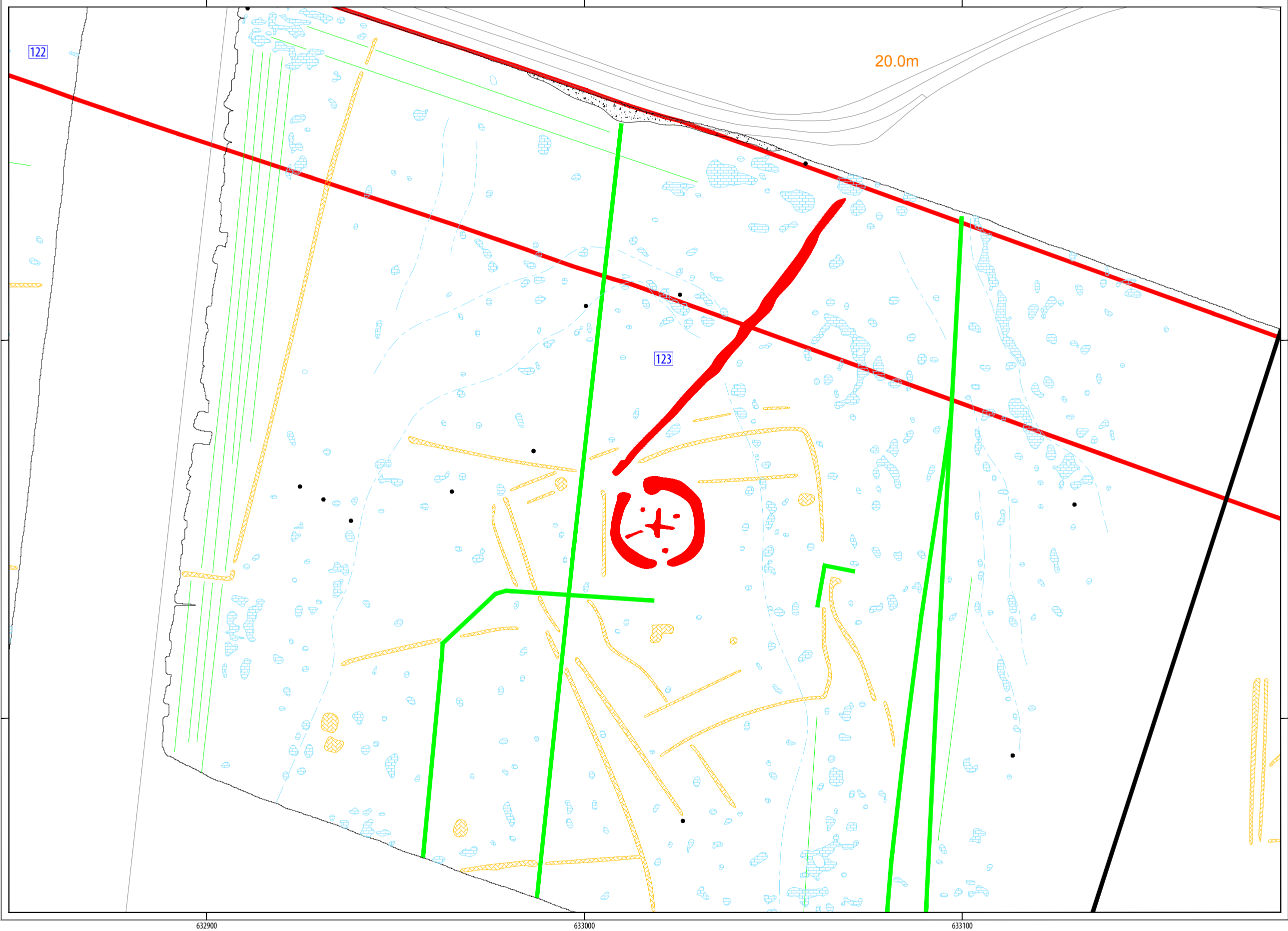


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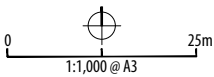
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TYPE OF ANOMALY		INTERPRETATION
•	dipolar isolated	ferrous material
—	dipolar linear	service pipe
•	magnetic disturbance	ferrous material
—	linear trend	agricultural
—	linear	former field boundary
—	linear trend	geology
•	magnetic enhancement	geology
•	magnetic enhancement	archaeology?
•	magnetic enhancement	archaeology

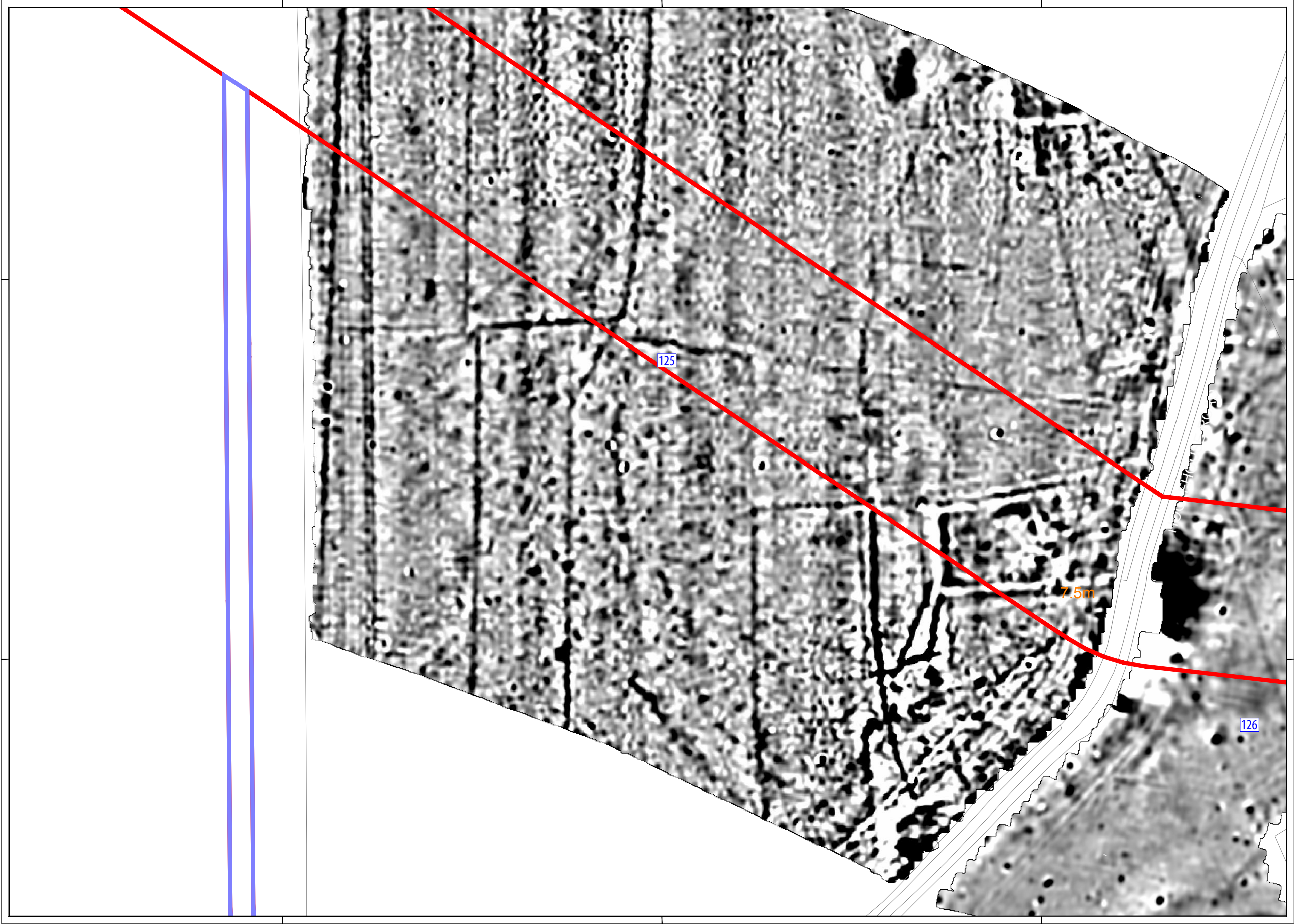


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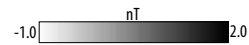
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access route

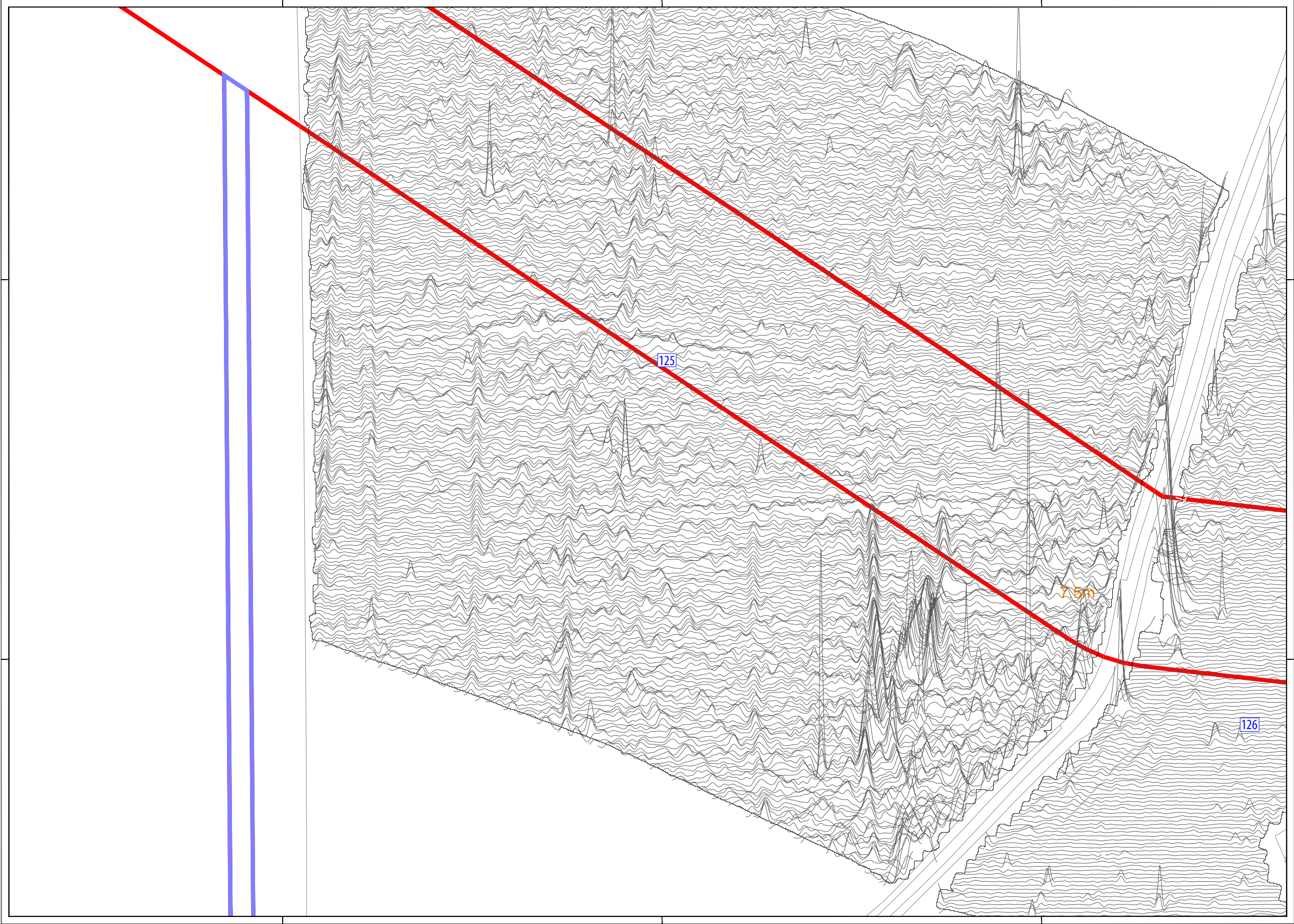


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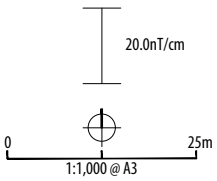
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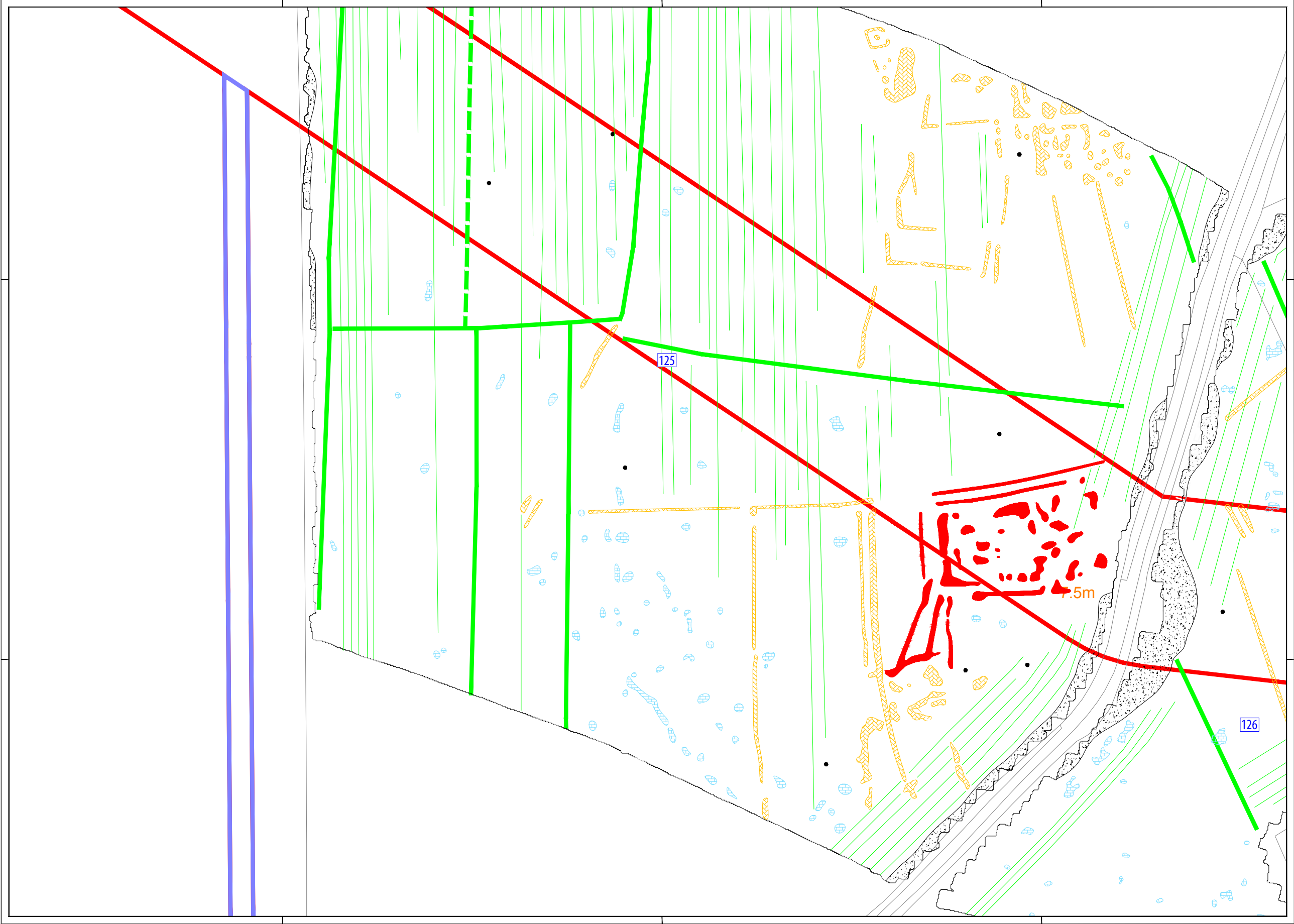


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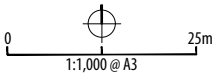
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TYPE OF ANOMALY		INTERPRETATION
	dipolar isolated	ferrous material
	magnetic disturbance	ferrous material
	linear trend	drain
	linear trend	agricultural
	linear	former field boundary
	linear	former field boundary?
	magnetic enhancement	geology
	magnetic enhancement	archaeology?
	magnetic enhancement	archaeology

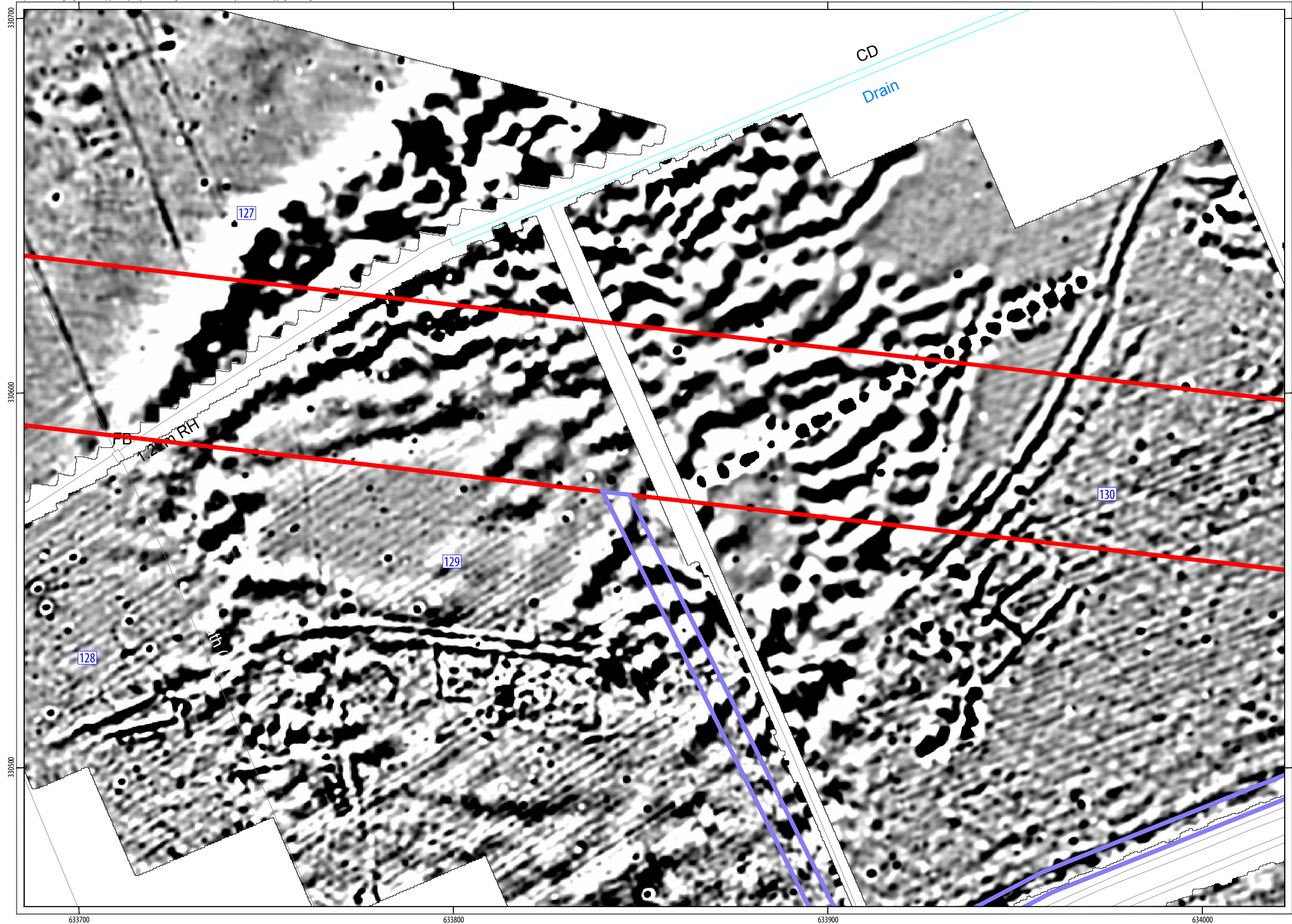


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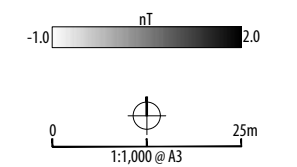
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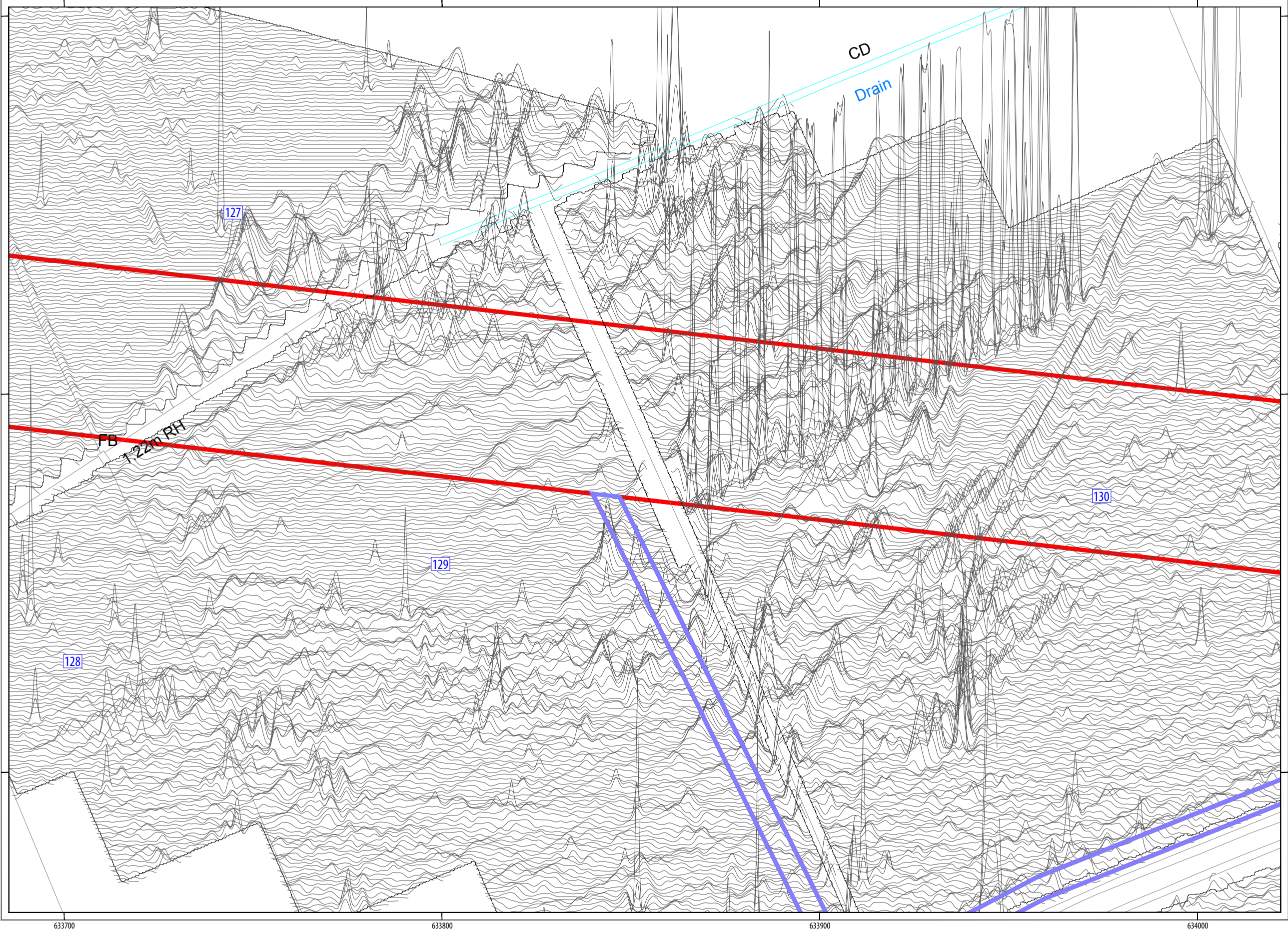


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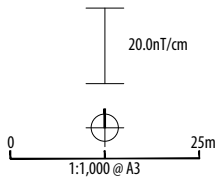
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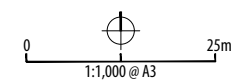


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TYPE OF ANOMALY	INTERPRETATION
 dipolar isolated	ferrous material
 dipolar linear	service pipe
 magnetic disturbance	ferrous material
 linear trend	agricultural
 linear	former field boundary
 magnetic enhancement	geology
 magnetic enhancement	archaeology?
 magnetic enhancement	archaeology



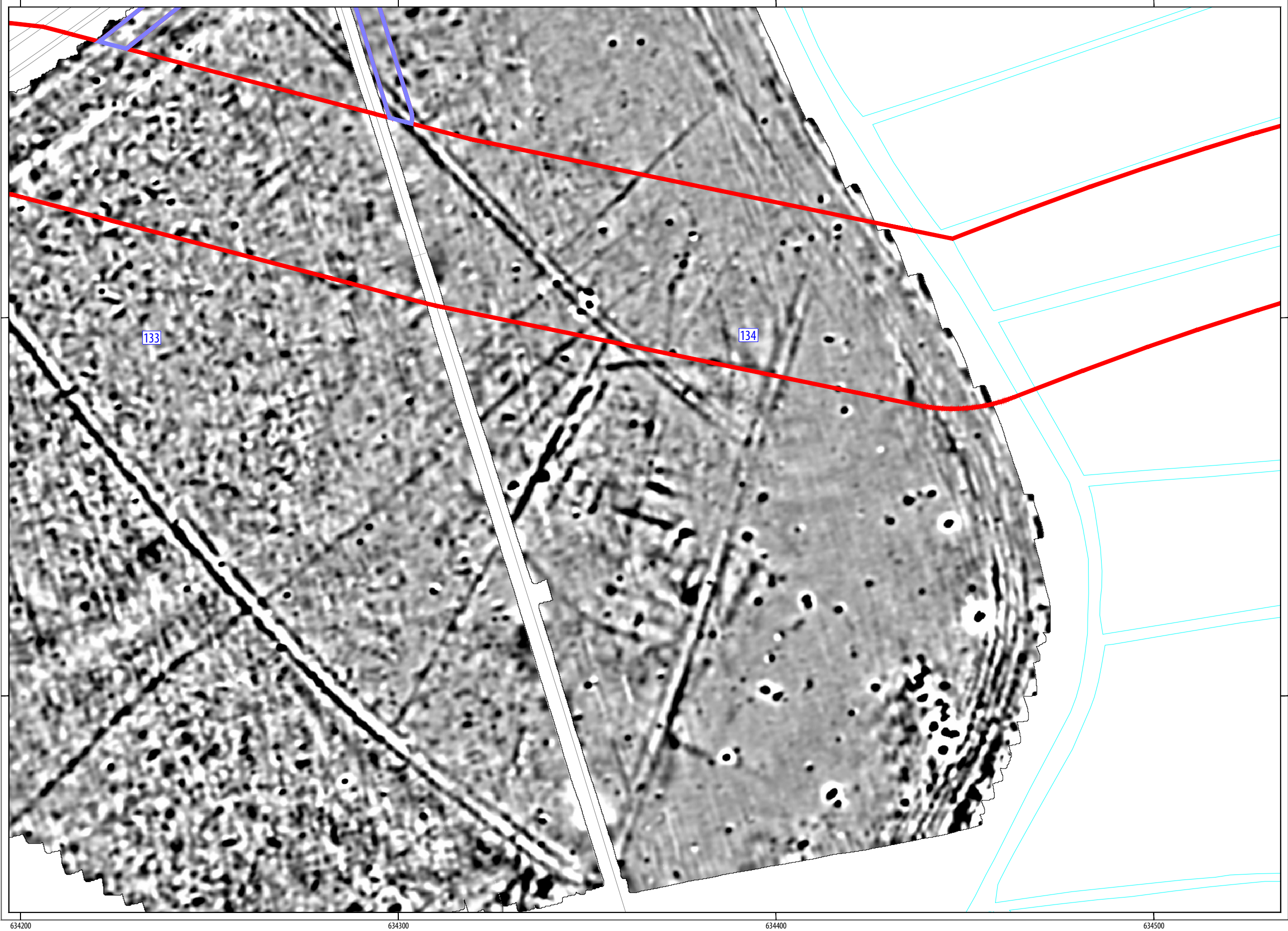
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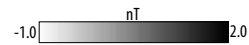


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access route



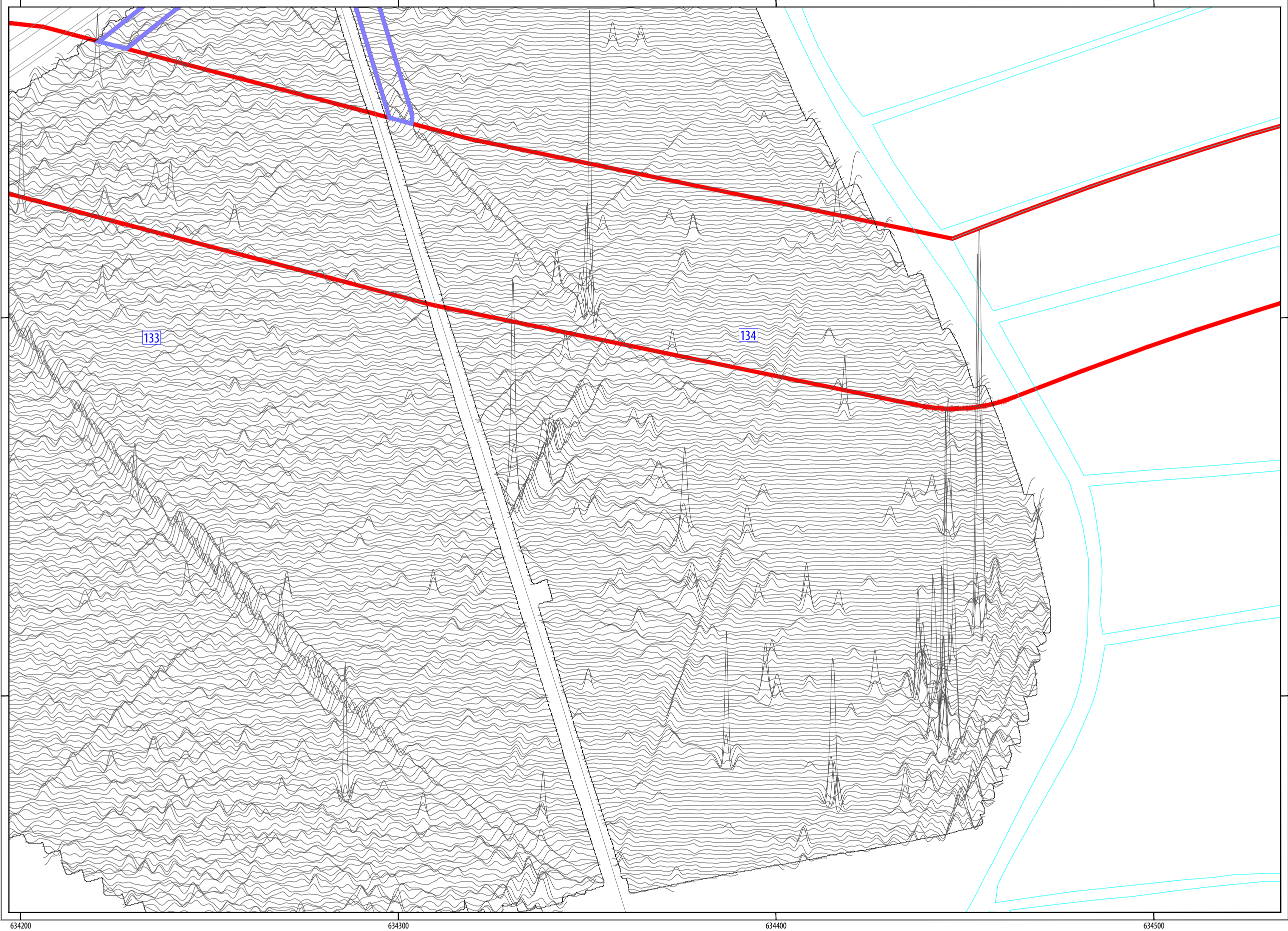
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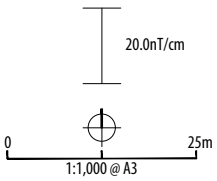


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 access route



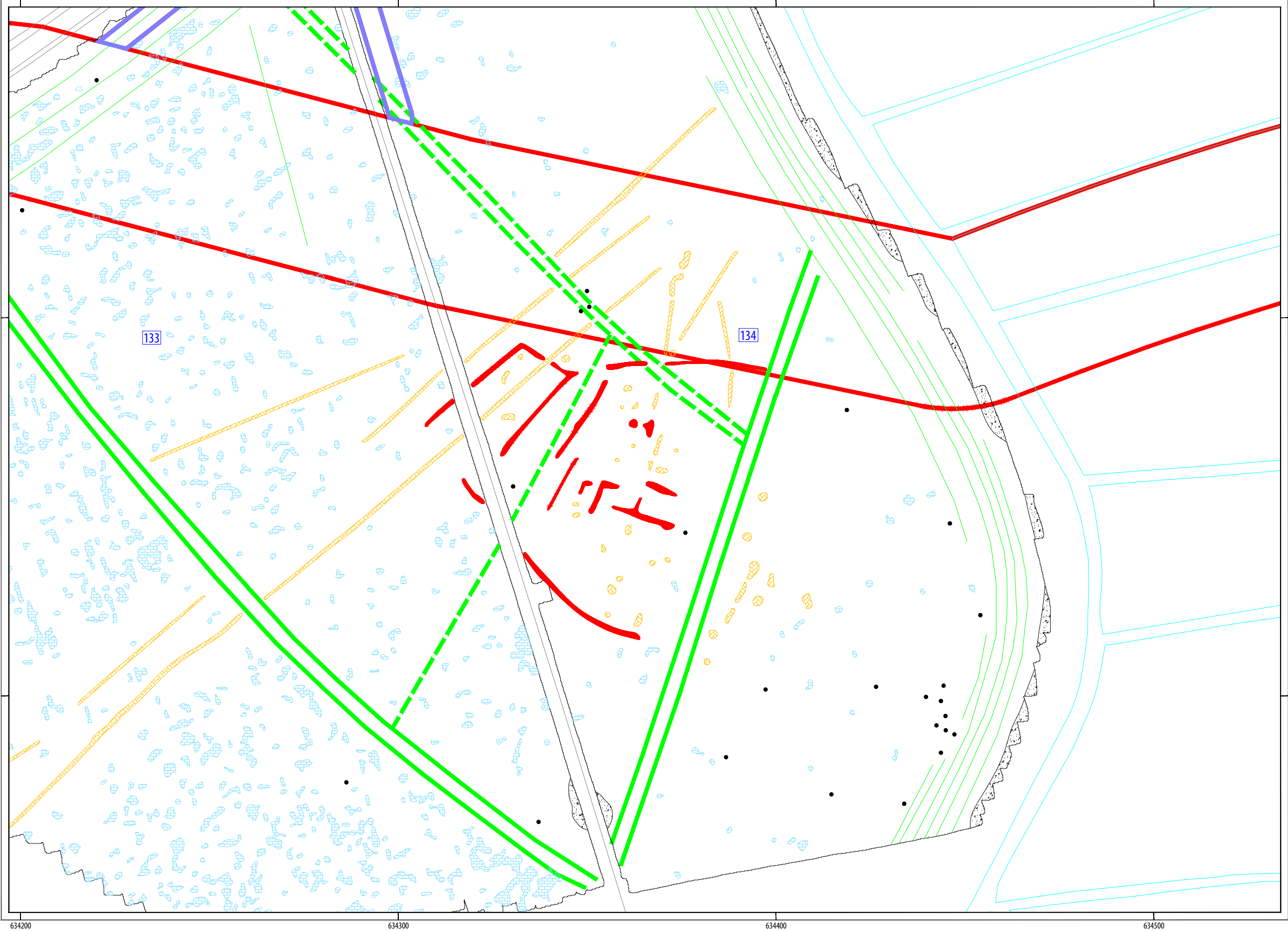
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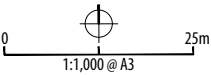


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ILLUS 237 XY trace plot of minimally processed magnetometer data; AAA14



TYPE OF ANOMALY		INTERPRETATION
	norfolk vanguard red line boundary	
	access route	
	dipolar isolated	ferrous material
	magnetic disturbance	ferrous material
	linear trend	agricultural
	linear	former field boundary
	linear	former field boundary?
	magnetic enhancement	geology
	magnetic enhancement	archaeology?
	magnetic enhancement	archaeology



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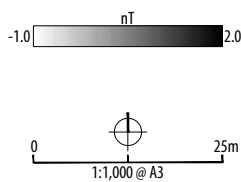
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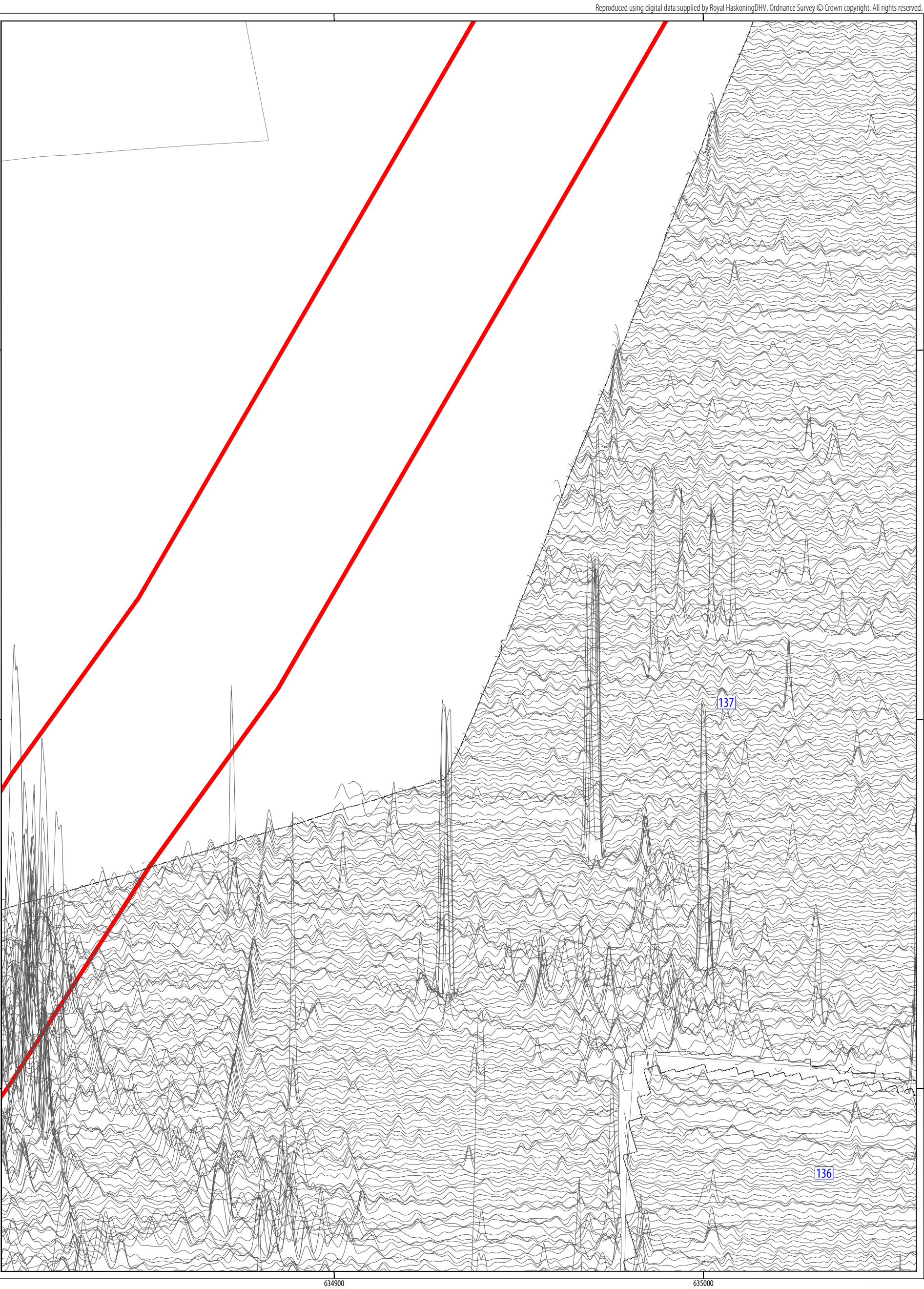


 norfolk vanguard red line boundary

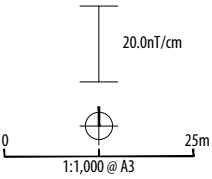


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norfolk vanguard red line boundary

TYPE OF ANOMALY
● dipolar isolated
● magnetic disturbance
● magnetic disturbance
— linear trend
— linear

INTERPRETATION
ferrous material
ferrous material
modern
agricultural
former field boundary

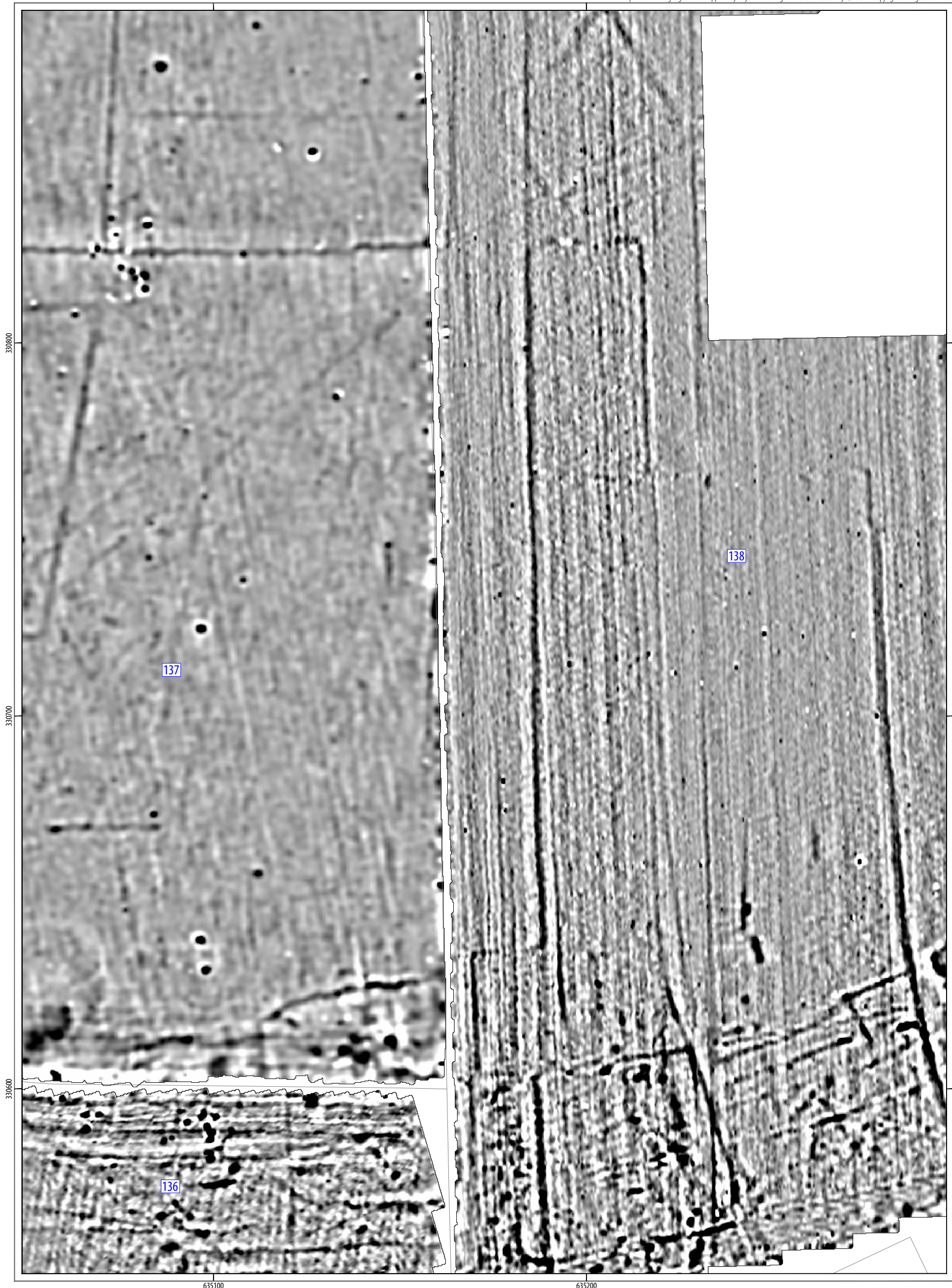
TYPE OF ANOMALY
— linear
● magnetic enhancement
● magnetic enhancement

INTERPRETATION
former field boundary?
archaeology?
archaeology

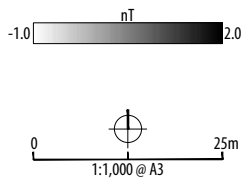
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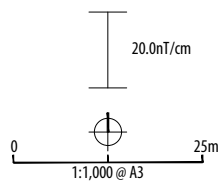
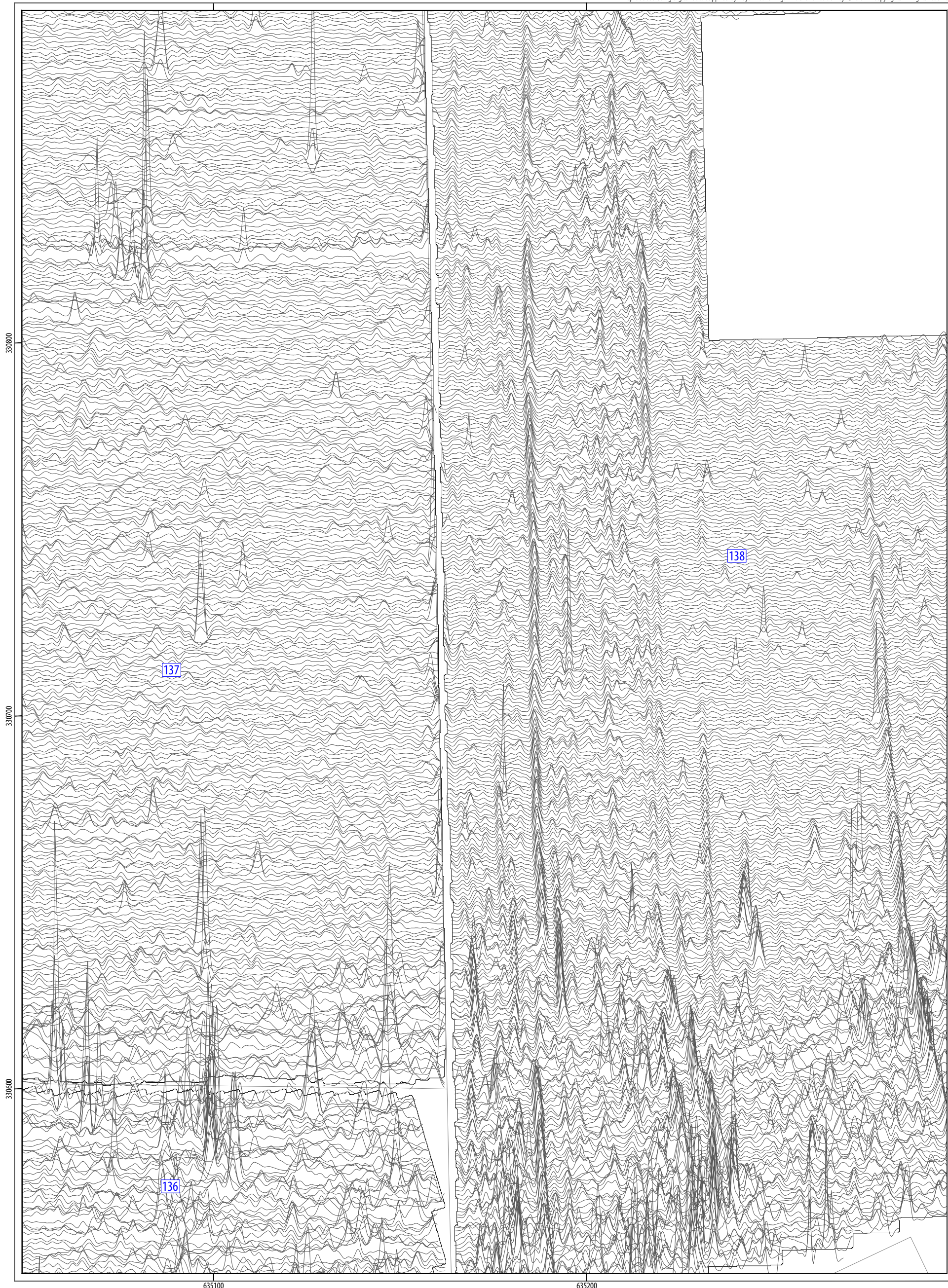


 norfolk vanguard red line boundary



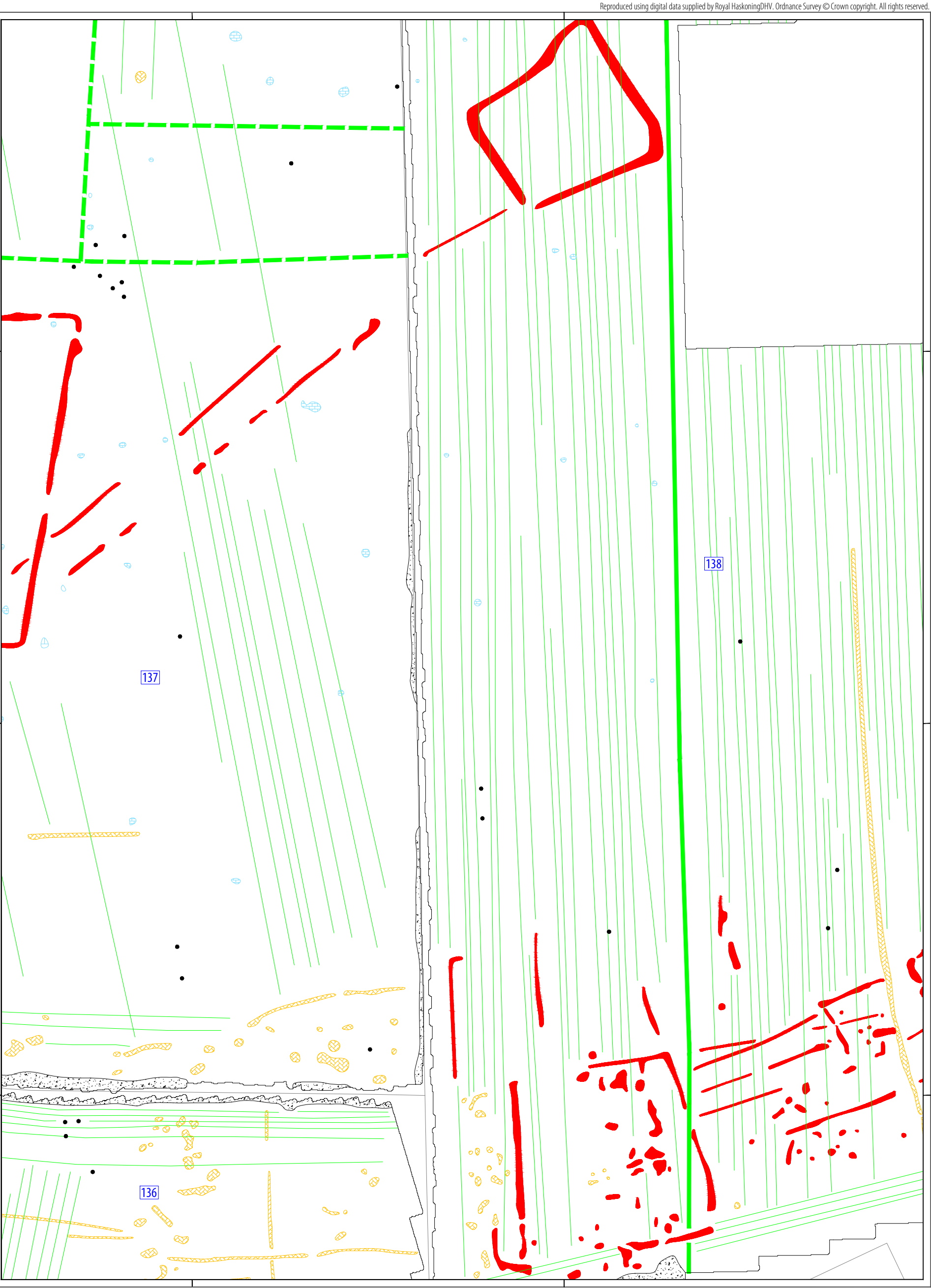
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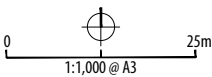
norfolk vanguard red line boundary

- | TYPE OF ANOMALY |
|----------------------|
| dipolar isolated |
| magnetic disturbance |
| linear trend |
| linear |
| linear |

- | INTERPRETATION |
|------------------------|
| ferrous material |
| ferrous material |
| agricultural |
| former field boundary? |
| former field boundary |

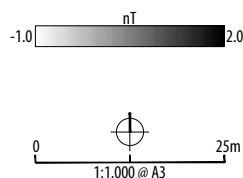
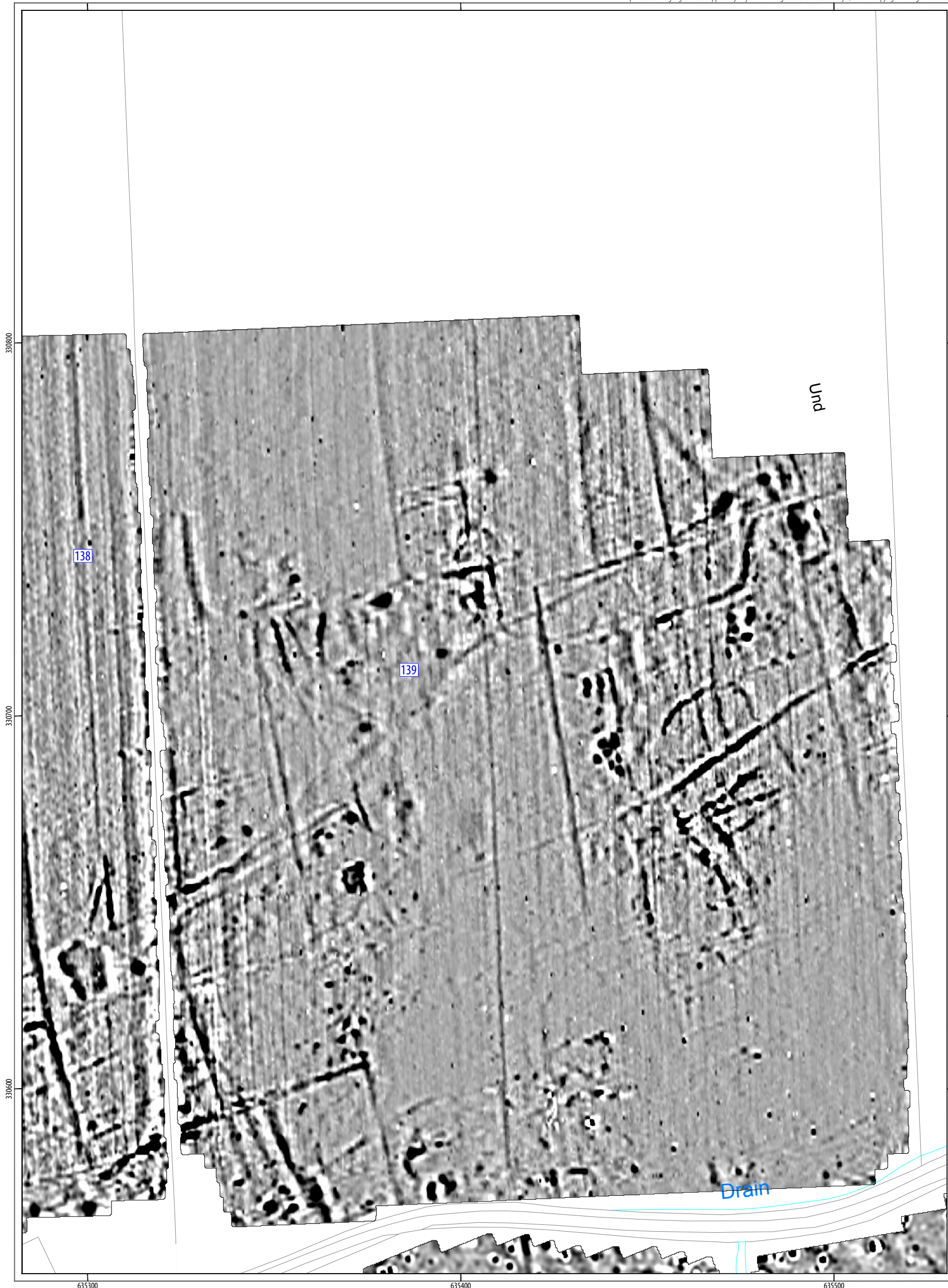
- | TYPE OF ANOMALY |
|----------------------|
| magnetic enhancement |
| magnetic enhancement |
| magnetic enhancement |

- | INTERPRETATION |
|----------------|
| geology |
| archaeology? |
| archaeology |



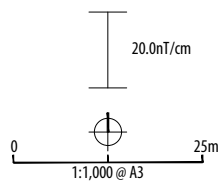
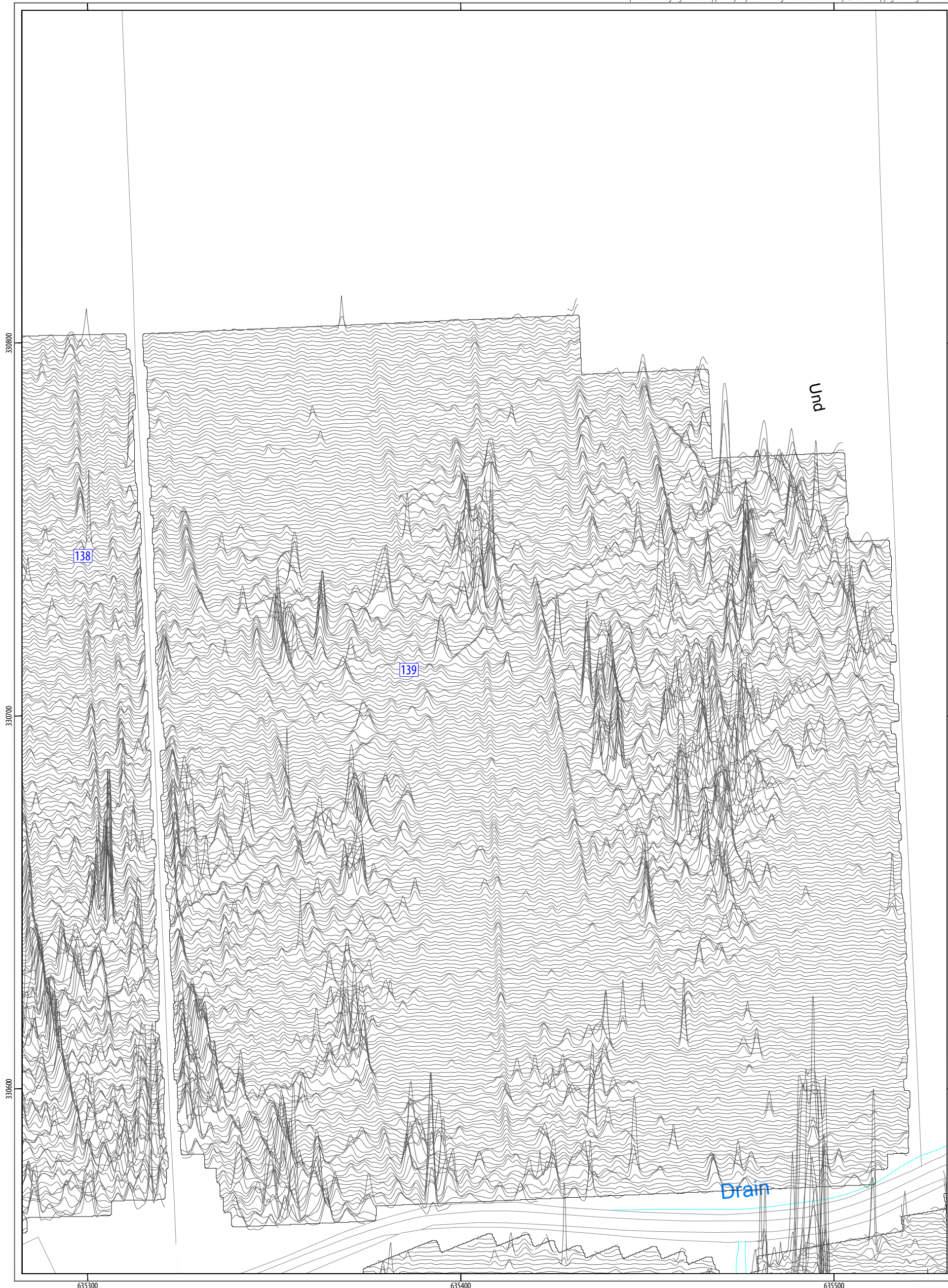
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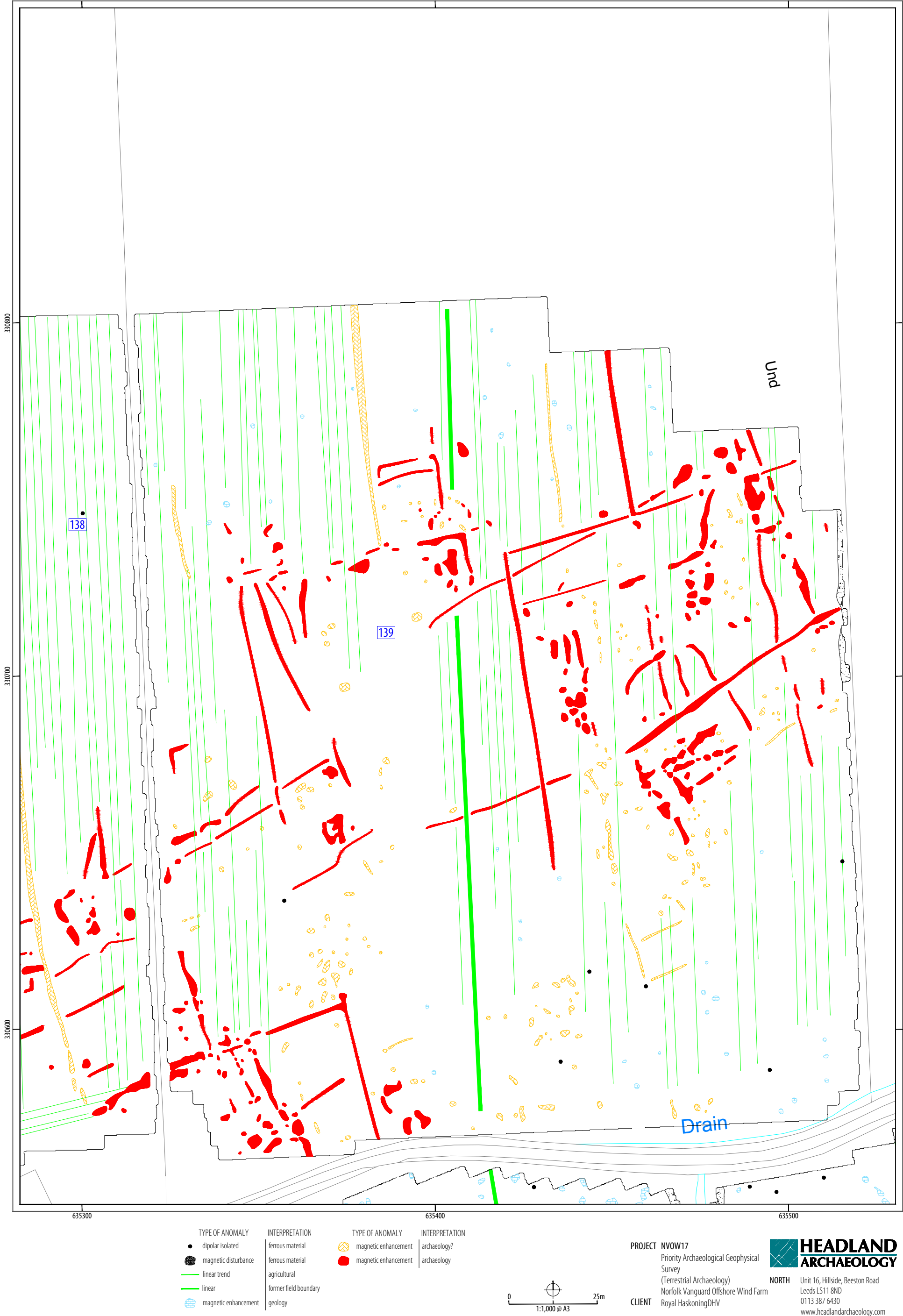
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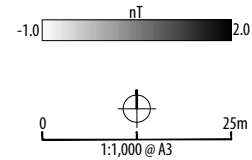
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ILLUS 247 Interpretation of magnetometer data; AAA15 (east)



norfolk vanguard red line boundary
mobilisation area
access route

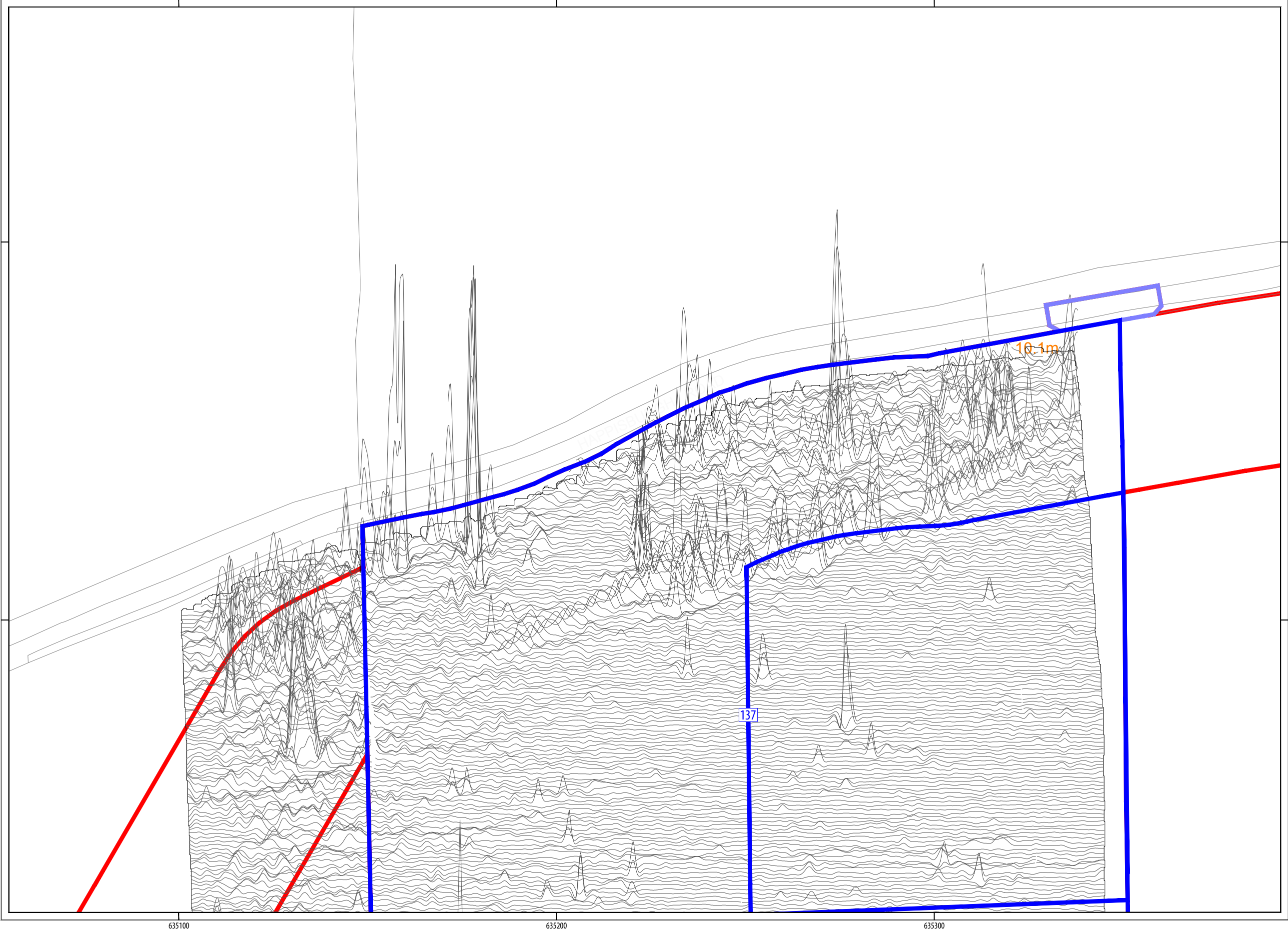


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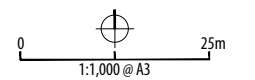
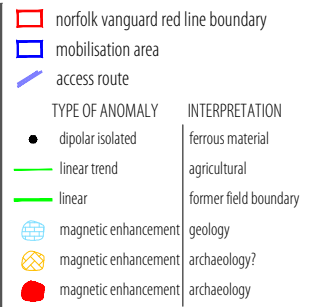


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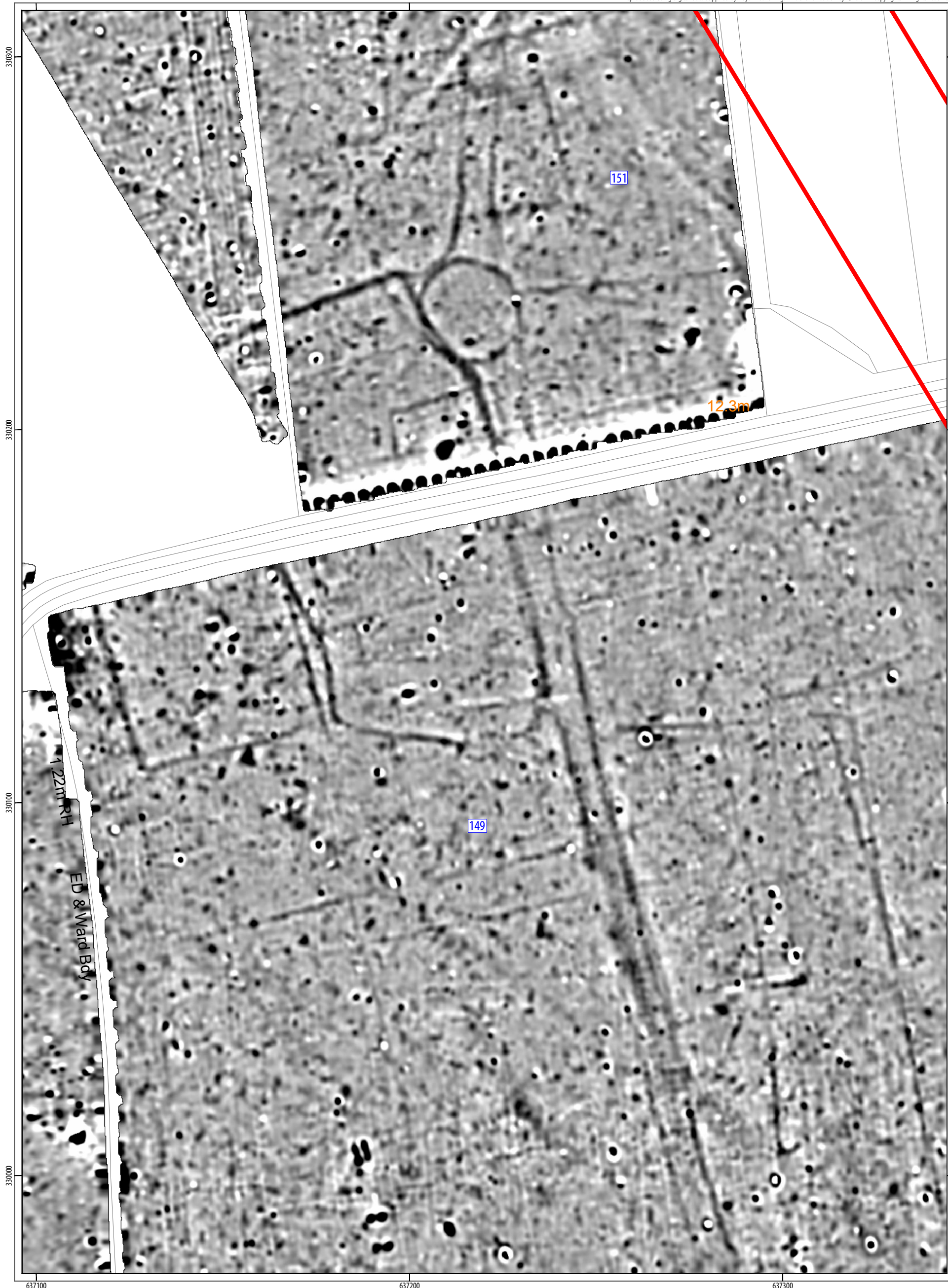


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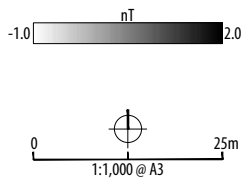
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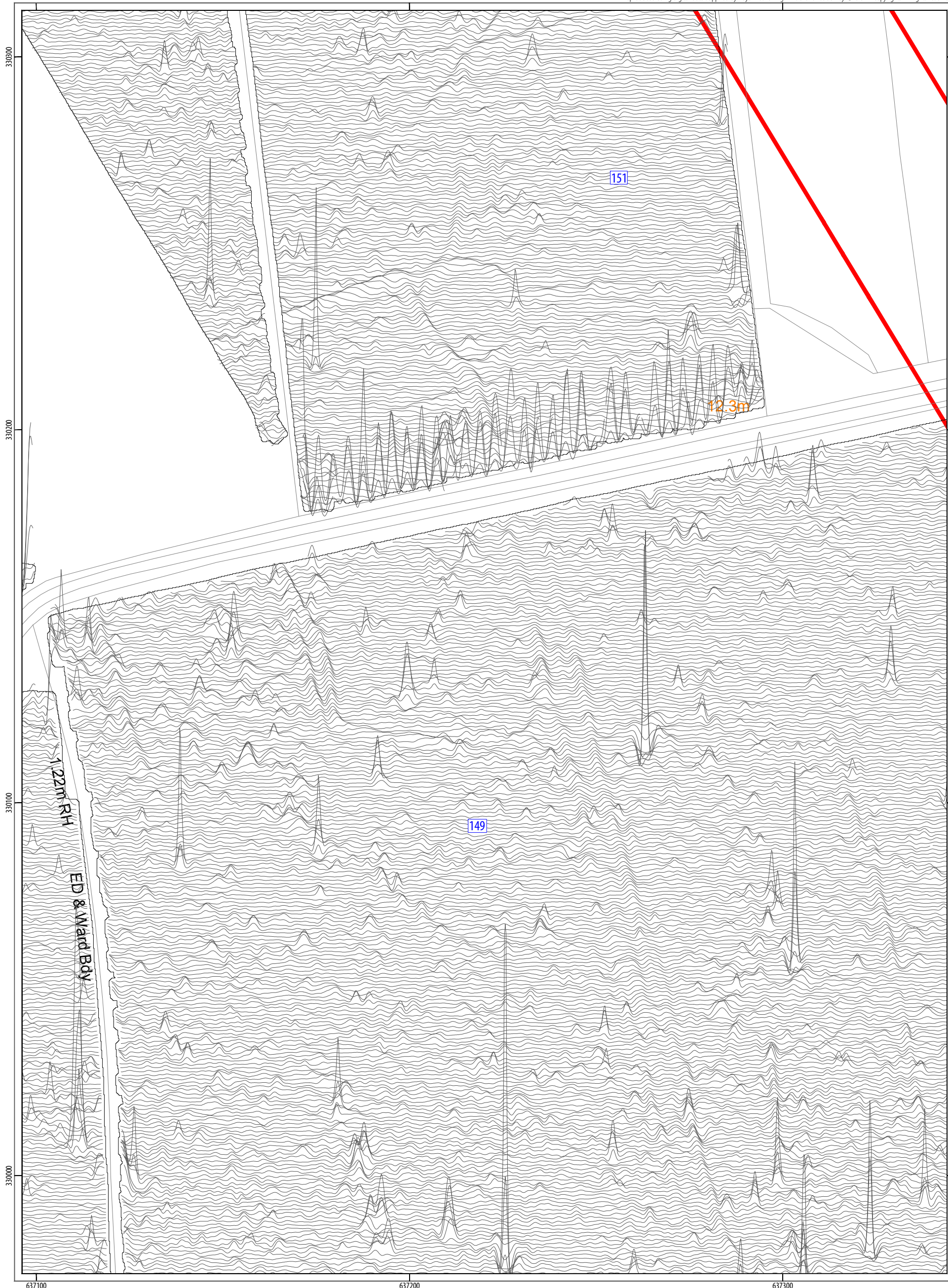


norfolk vanguard red line boundary

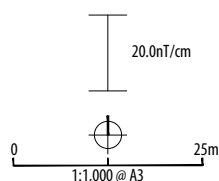


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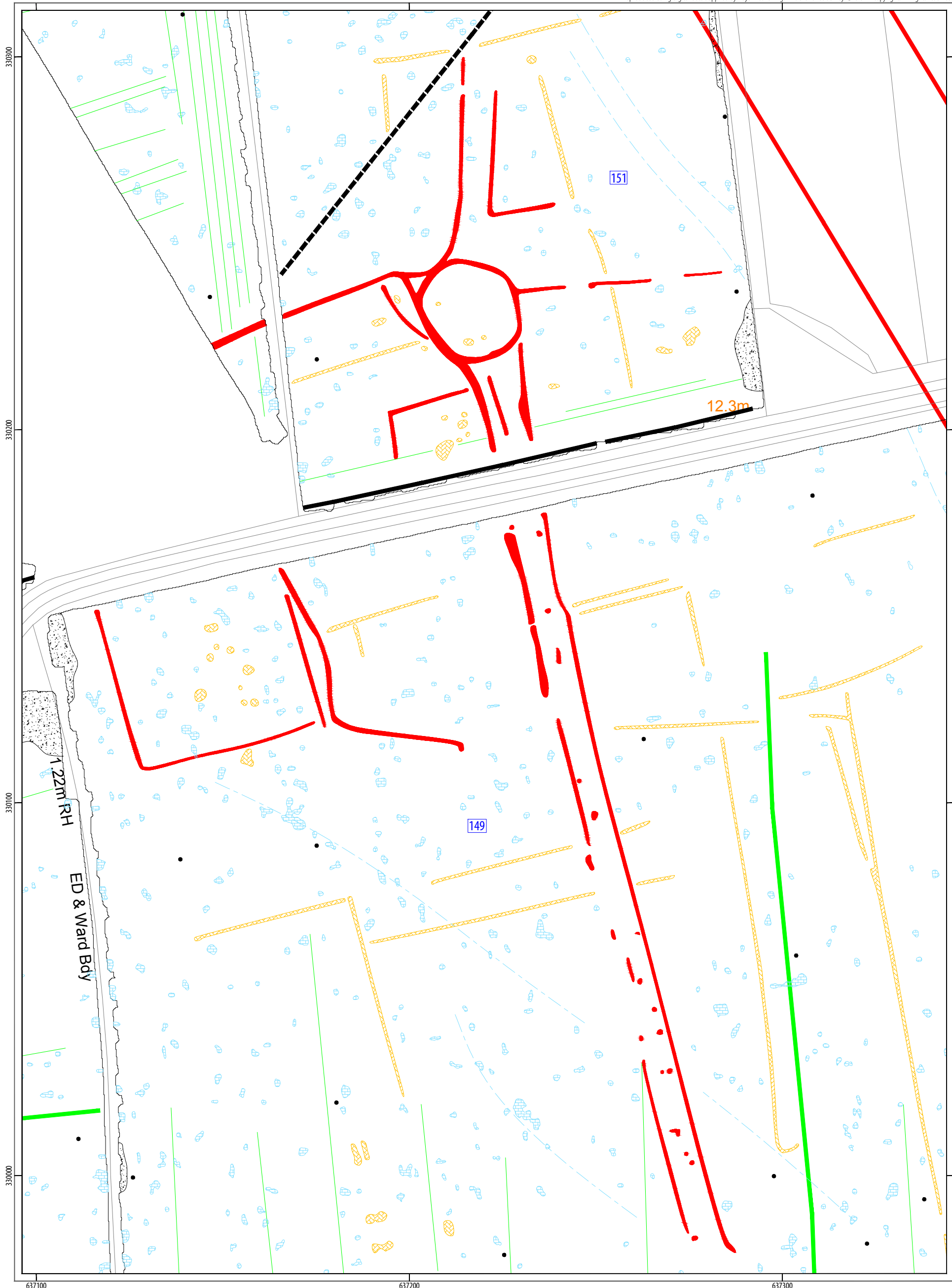
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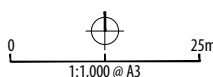
norfolk vanguard red line boundary

TYPE OF ANOMALY
● dipolar isolated
● magnetic disturbance
— dipolar linear
— linear trend
— linear trend

INTERPRETATION
ferrous material
ferrous material
service pipe
service pipe
agricultural

TYPE OF ANOMALY
— linear
— linear
● magnetic enhancement
● magnetic enhancement
● magnetic enhancement

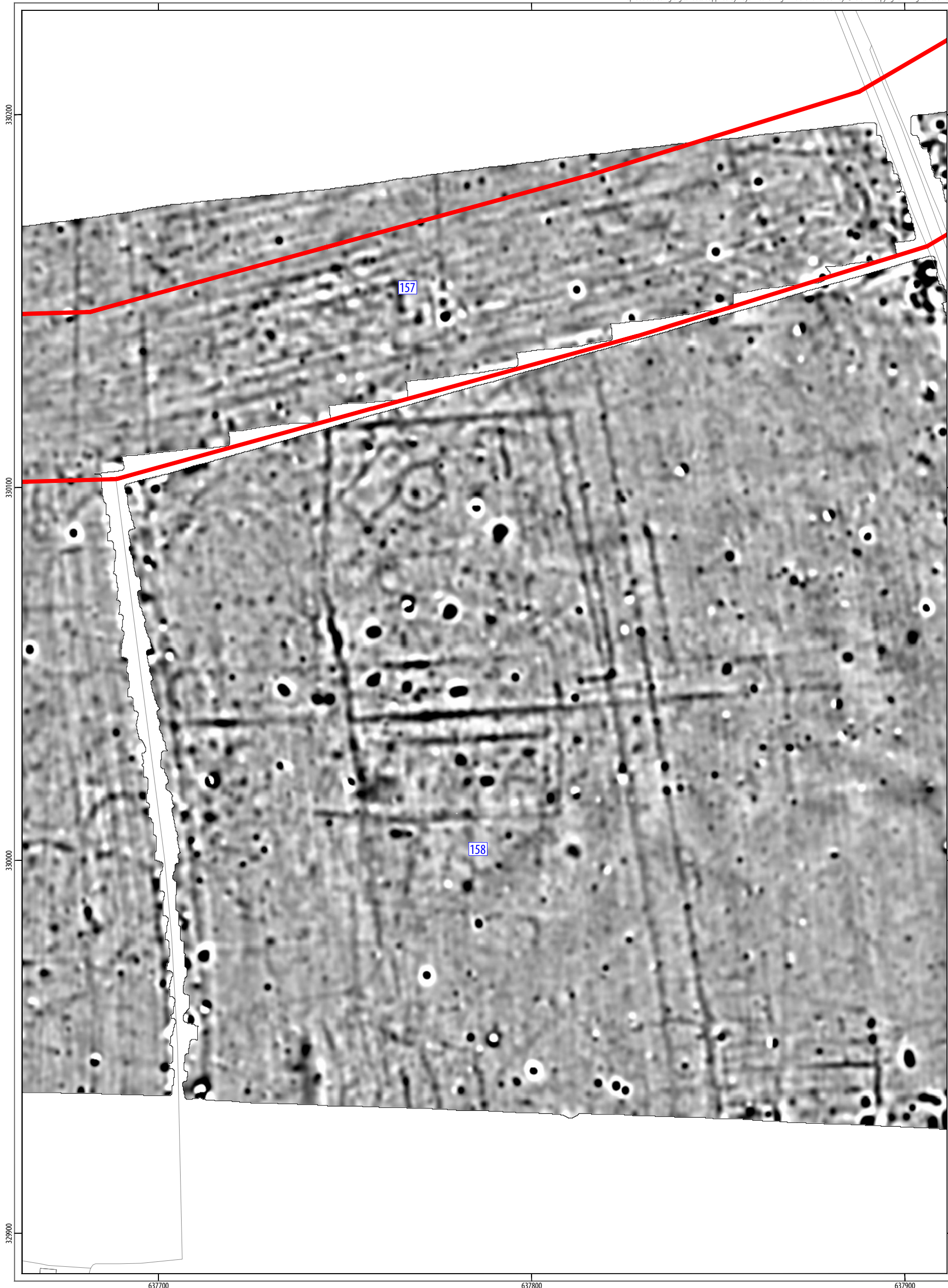
INTERPRETATION
former field boundary
geology
geology
archaeology?
archaeology



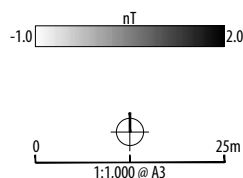
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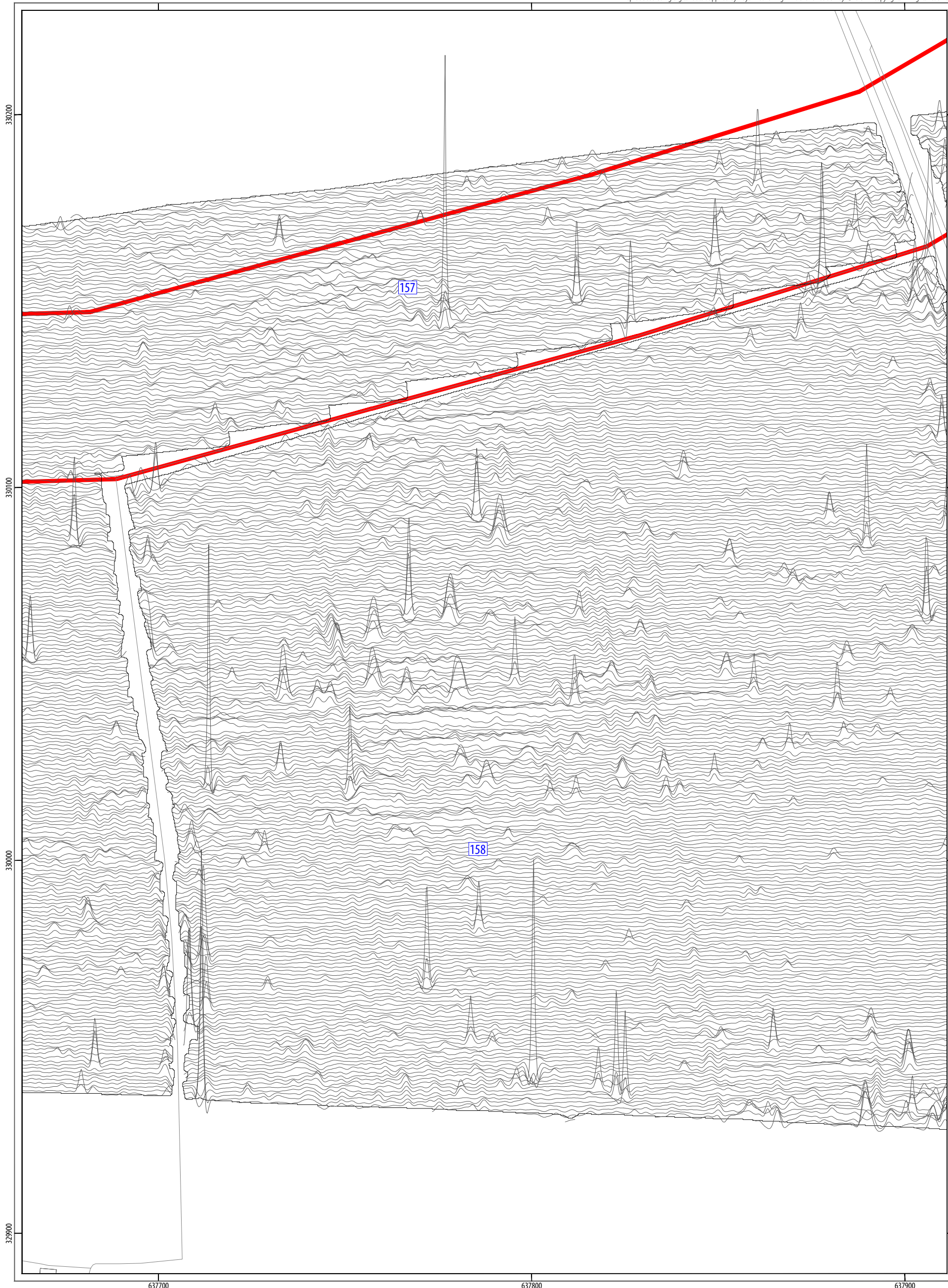


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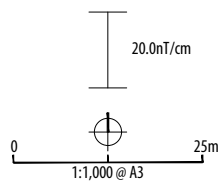


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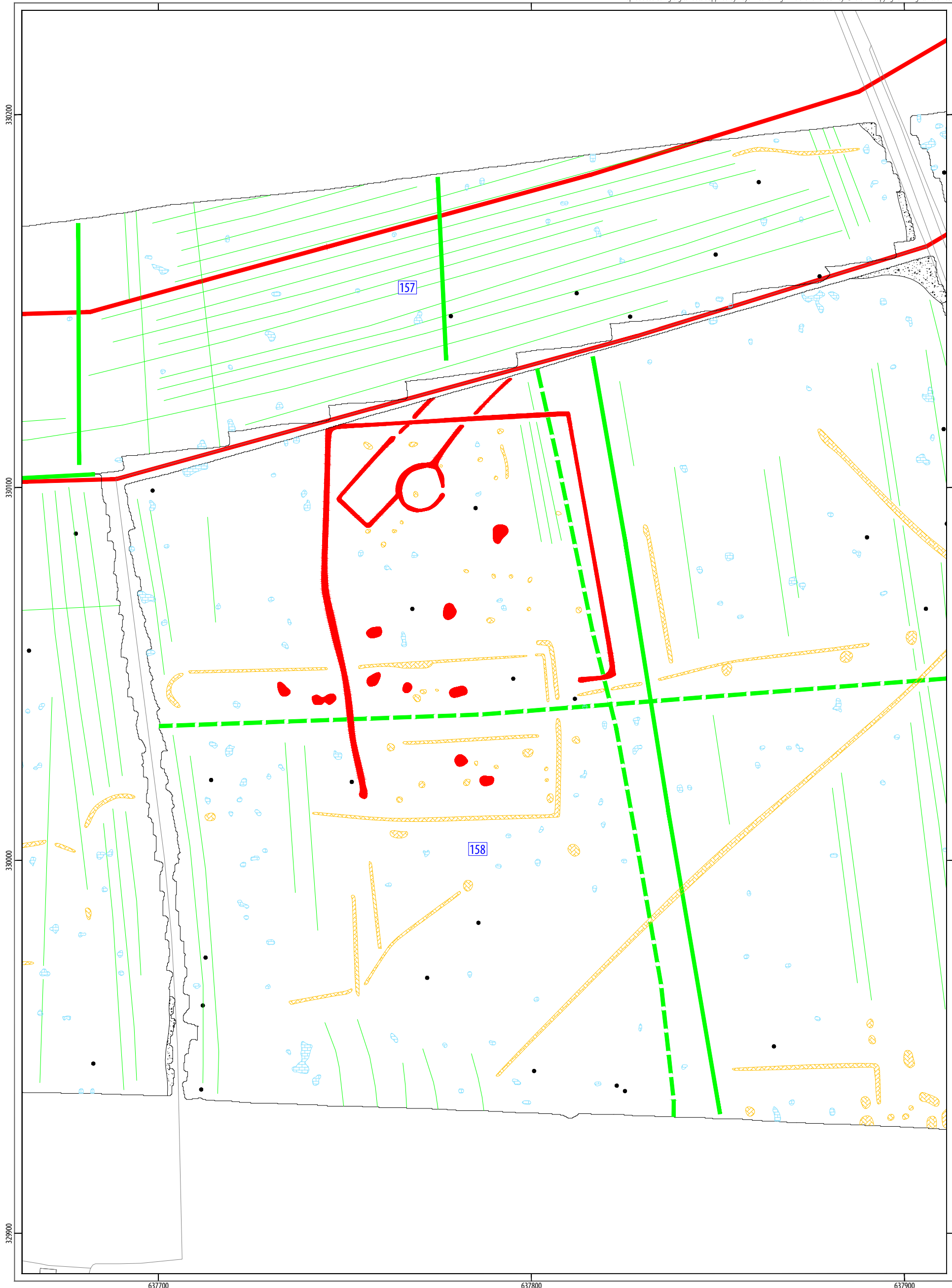


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norfolk vanguard red line boundary

TYPE OF ANOMALY
● dipolar isolated
● magnetic disturbance
— linear trend
— linear
— linear

INTERPRETATION
ferrous material
ferrous material
agricultural
former field boundary?
former field boundary

TYPE OF ANOMALY
■ magnetic enhancement
■ magnetic enhancement
■ magnetic enhancement

INTERPRETATION
geology
archaeology?
archaeology

0 25m
1:1,000 @ A3

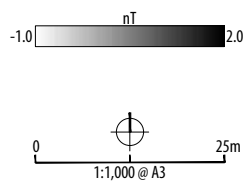
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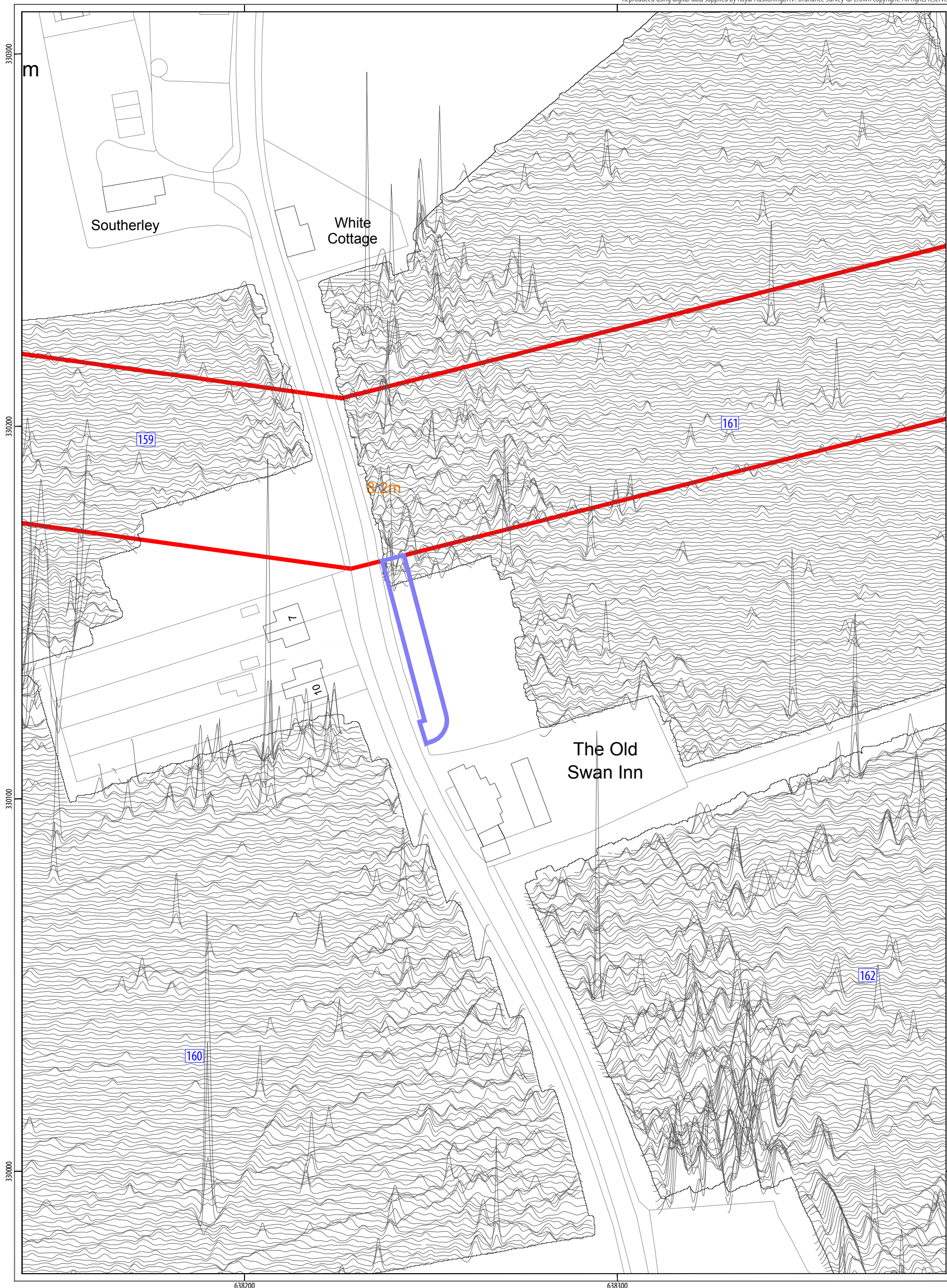


norfolk vanguard red line boundary
access route

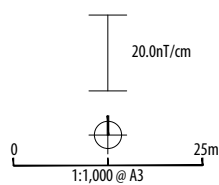


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Survey
(Terrestrial Archaeology)
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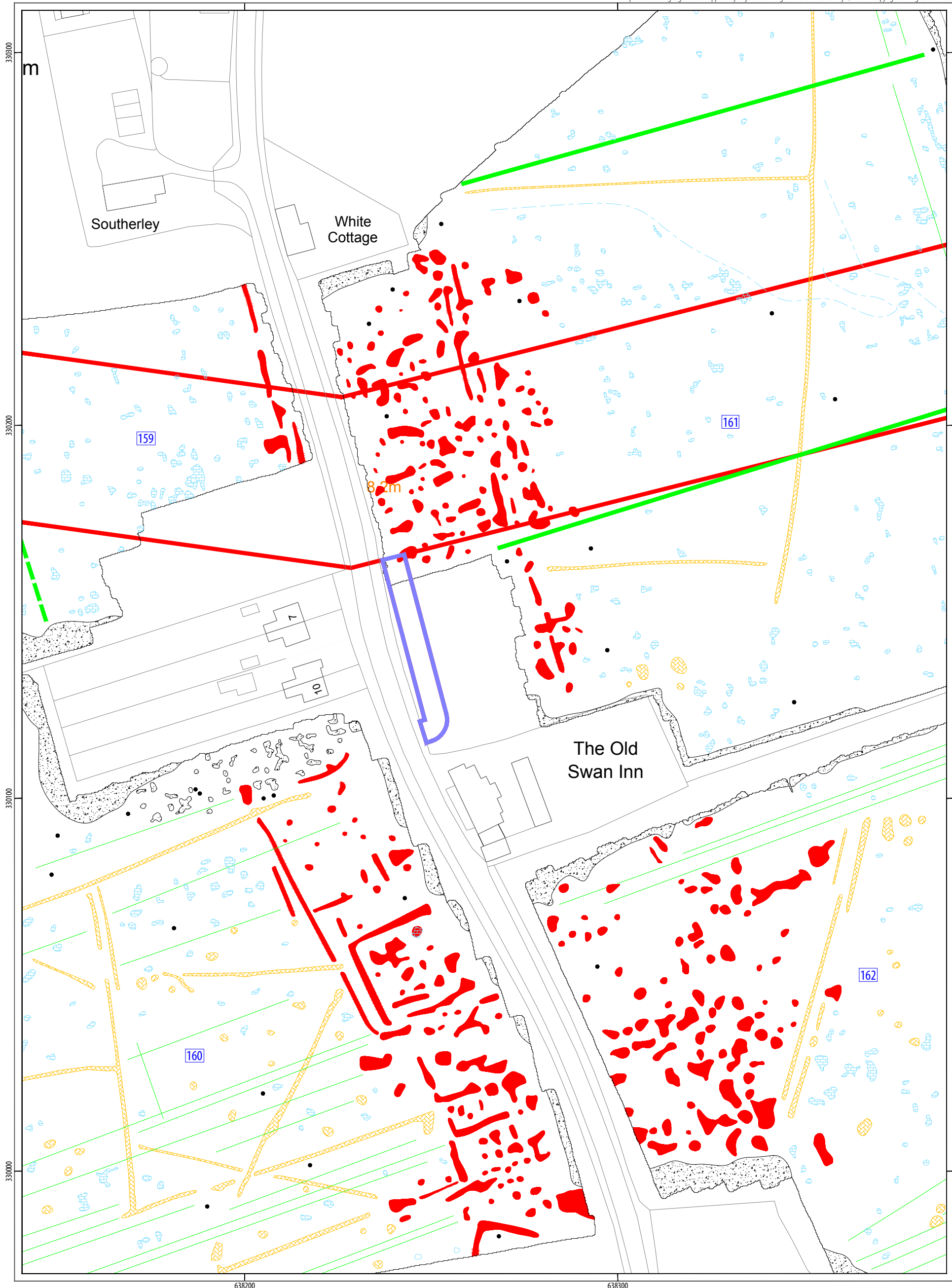
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access route

TYPE OF ANOMALY
● dipolar isolated
● magnetic disturbance
— linear trend
— linear
— linear

INTERPRETATION
ferrous material
ferrous material
agricultural
former field boundary?
former field boundary

TYPE OF ANOMALY
— linear trend
— magnetic enhancement
— magnetic enhancement
— magnetic enhancement

INTERPRETATION
geology
geology
archaeology?
archaeology

0 25m
1:1,000 @ A3

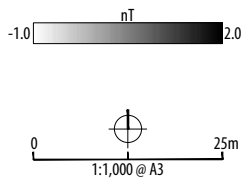
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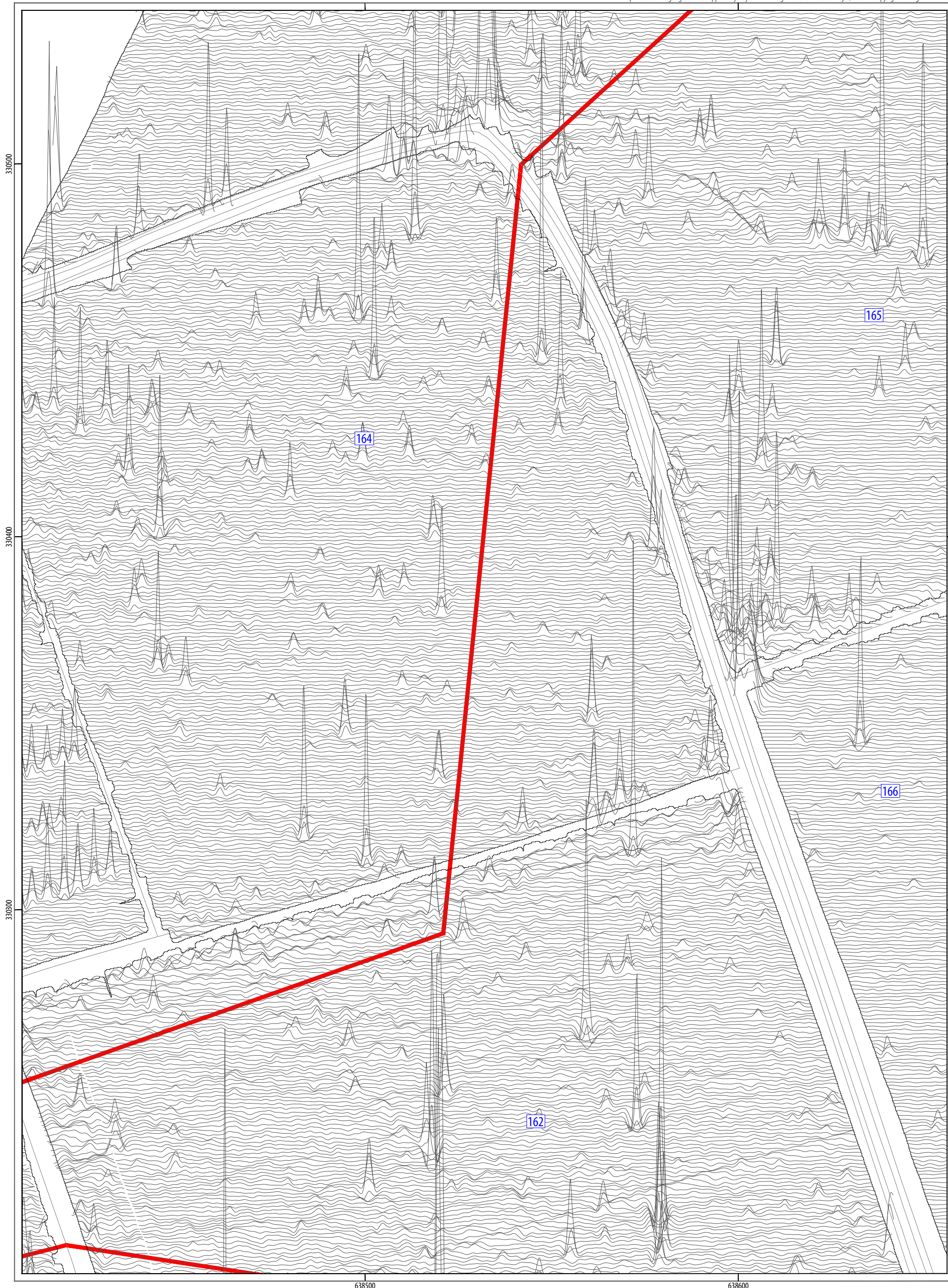


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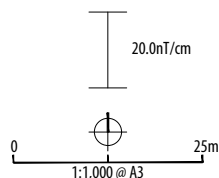


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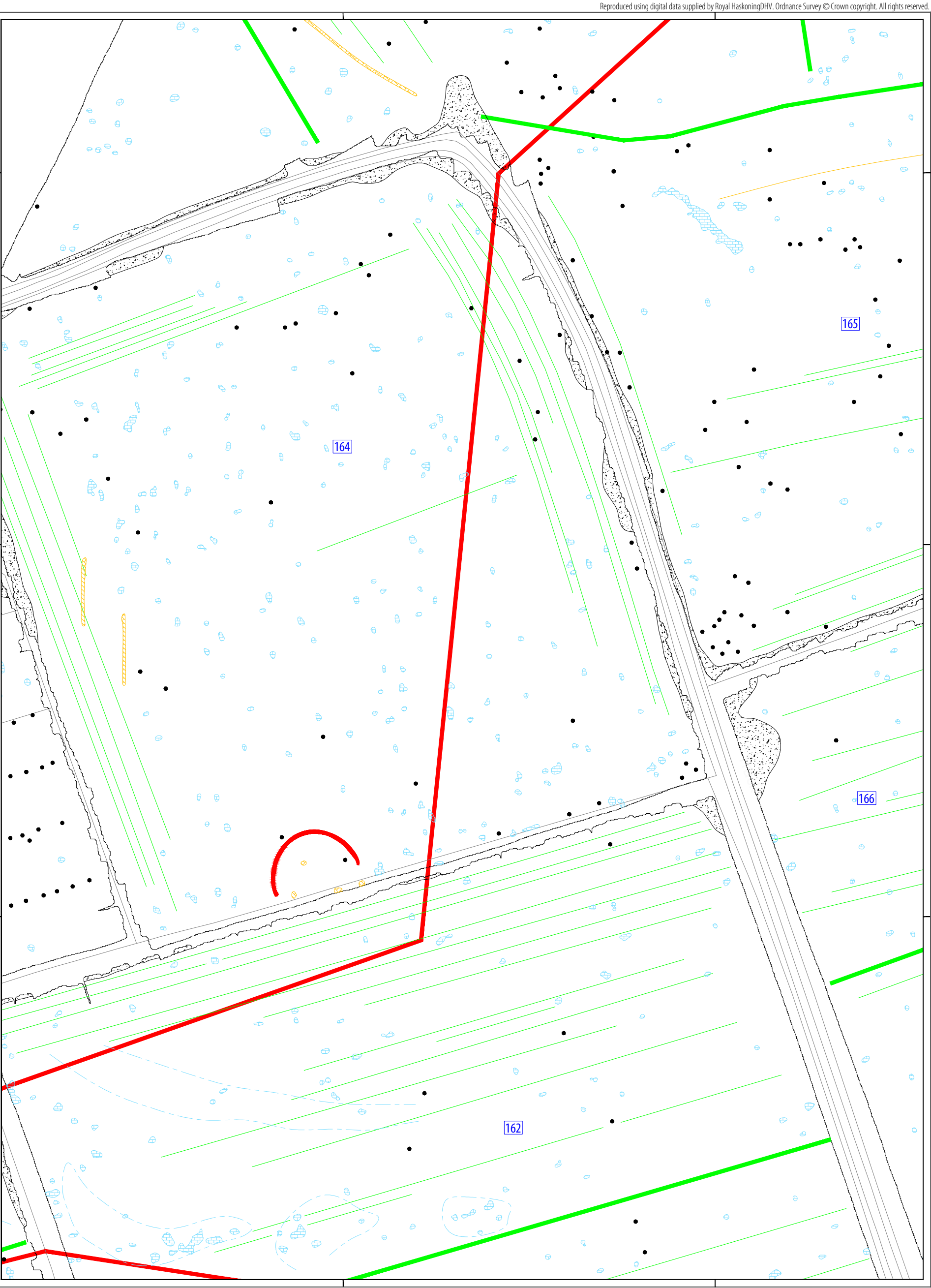
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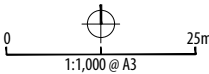
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- | TYPE OF ANOMALY | INTERPRETATION |
|------------------------|-----------------------|
| ● dipolar isolated | ferrous material |
| ● magnetic disturbance | ferrous material |
| — linear trend | agricultural |
| — linear | former field boundary |
| — linear trend | geology |

- | TYPE OF ANOMALY | INTERPRETATION |
|------------------------|----------------|
| — magnetic enhancement | geology |
| — magnetic enhancement | archaeology? |
| — magnetic enhancement | archaeology |



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