

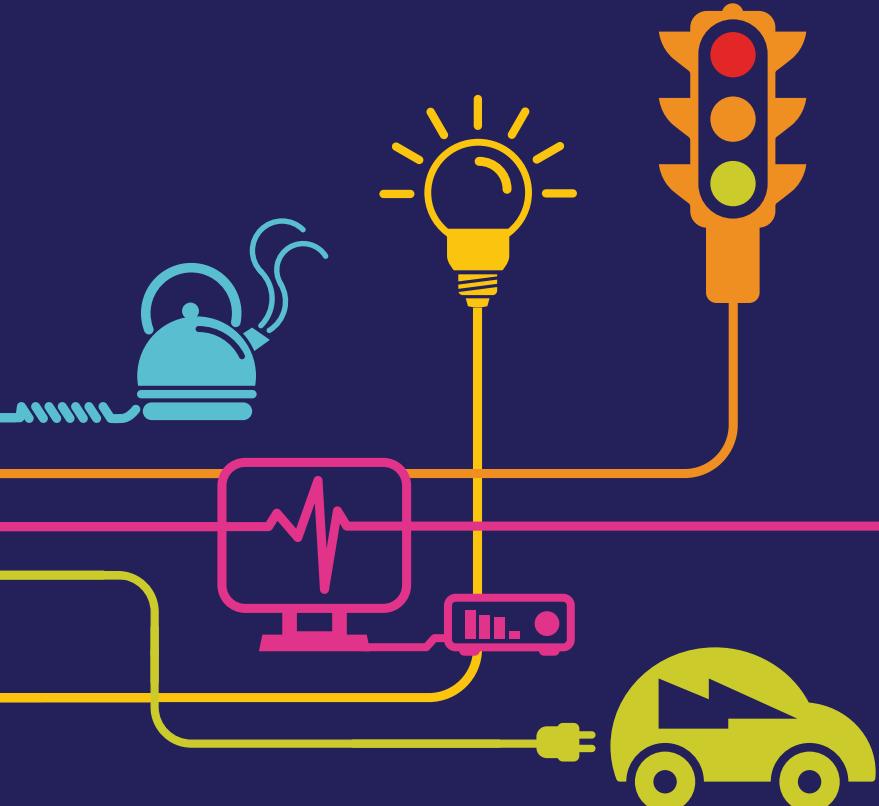
Environmental Statement

Historic Environment

Appendix 11C Part 4

Hinkley Point C Connection Project

*Regulation 5(2)(a) of the Infrastructure Planning
(Applications: Prescribed Forms and Procedure)
Regulations 2009*



Environmental Statement

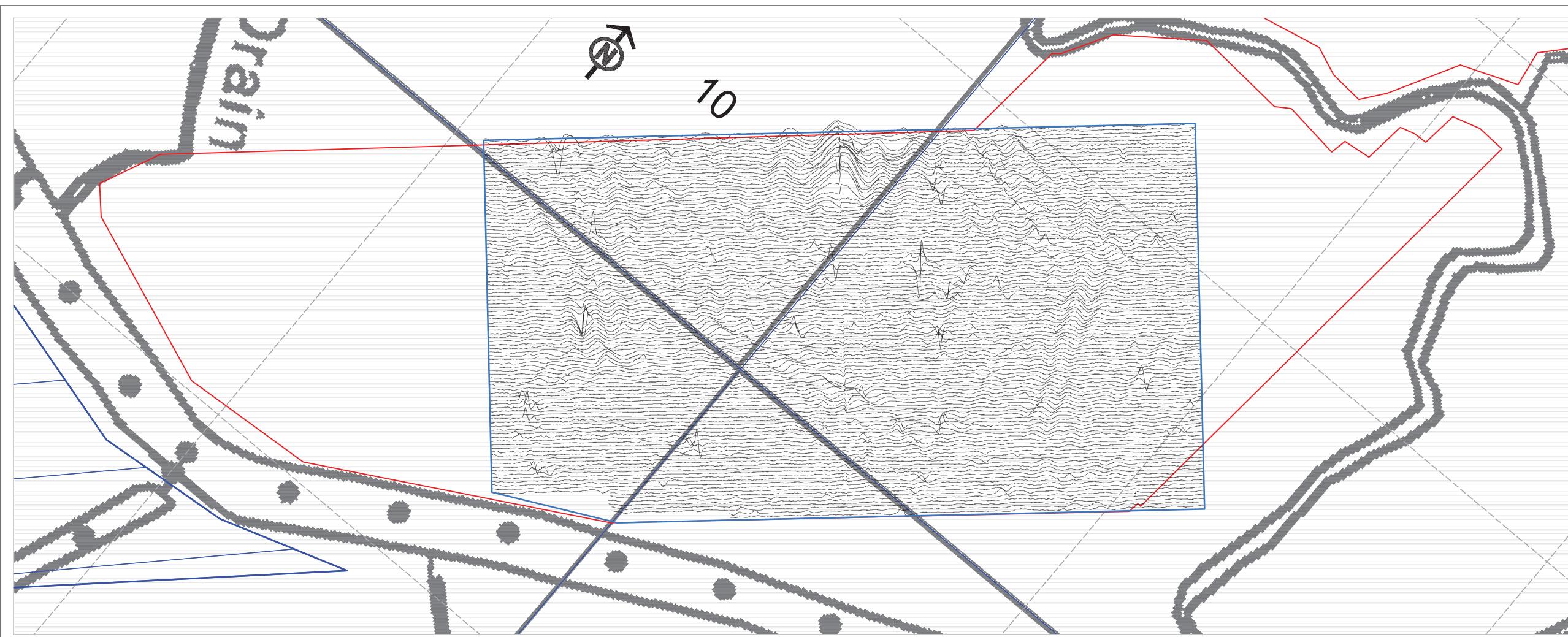
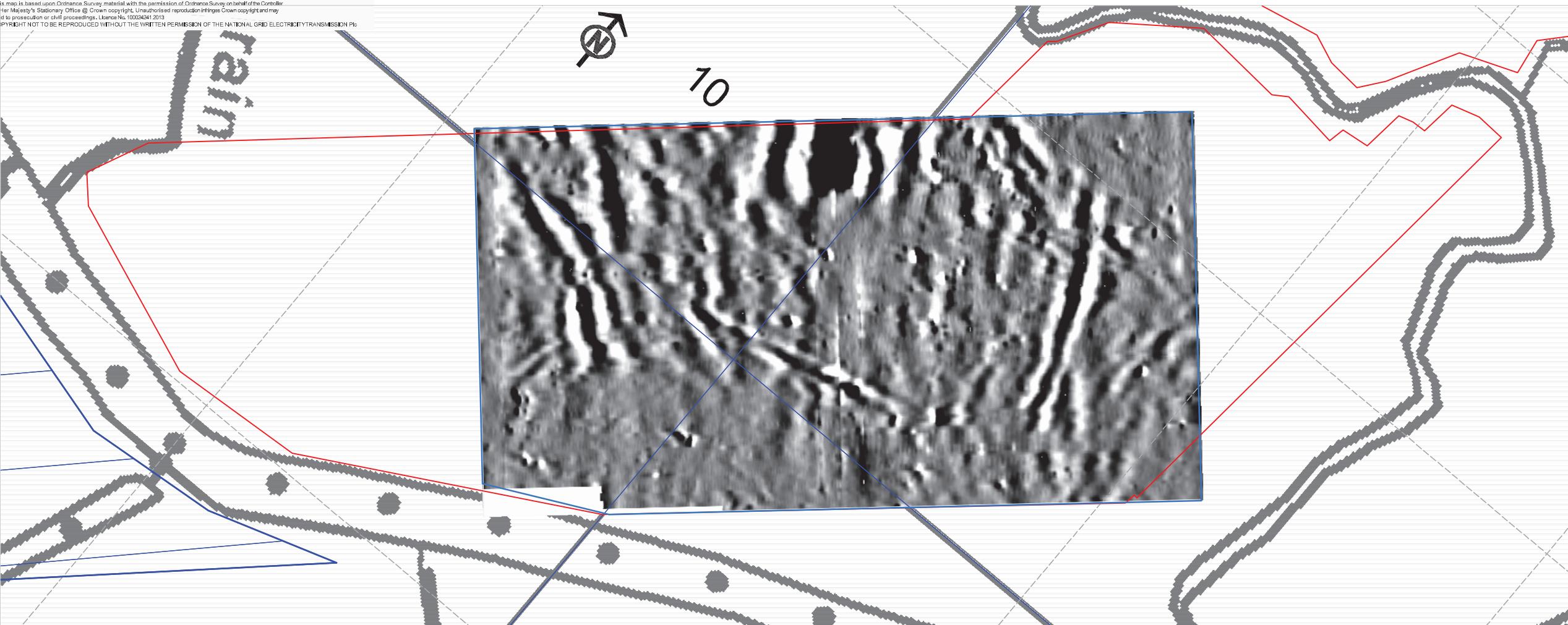
Hinkley Point C Connection Project

5.11.2 – Historic Environment – Appendices (orange highlight indicates the contents of this Volume)

Appendix	Title
Volume 5.11.2.1	
11A	Historic Environment Desk-based Assessment (Part 1)
Volume 5.11.2.2	
11A	Historic Environment Desk-based Assessment (Part 2)
Volume 5.11.2.3	
11A	Historic Environment Desk-based Assessment (Part 3)
Volume 5.11.2.4	
11A	Historic Environment Desk-based Assessment (Part 4)
Volume 5.11.2.5	
11B	Assessment of Effects of Proposed Development on the Settings of Heritage Assets
Volume 5.11.2.6	
11C	Archaeological Geophysical Survey (Part 1)
Volume 5.11.2.7	
11C	Archaeological Geophysical Survey (Part 2)
Volume 5.11.2.8	
11C	Archaeological Geophysical Survey (Part 3)
Volume 5.11.2.9	
11C	Archaeological Geophysical Survey (Part 4)
Volume 5.11.2.10	
11D	Archaeological Trial Trenching Survey
11E	Geoarchaeological Desk-based Assessment and Field Survey

Document Control			
Document Properties			
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Document Reference		Volume 5.11.2.9	
Date	Version	Status	Description/Changes
09/05/14	A	Live	Final version for DCO submission

Appendix 11C – Archaeological Geophysical Survey



Key



Caesium magnetometer trial survey (transects recorded at 1m intervals)

Location of 0.5m fluxgate, caesium magnetometer and EM31 surveys

0 50m

Scale 1:1250 @ A3

A	19/09/2013	ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title

NATIONAL GRID (HINKLEY C PROJECT) ENVIRONMENTAL STATEMENT

STUDY AREA C MENDIP HILLS AONB

ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 3

Geophysical trial investigation: caesium magnetometer survey (grey scale and graphical plots)



oxford archaeology

Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES

NG INVESTMENT No. 20897

FIGURE No. 71

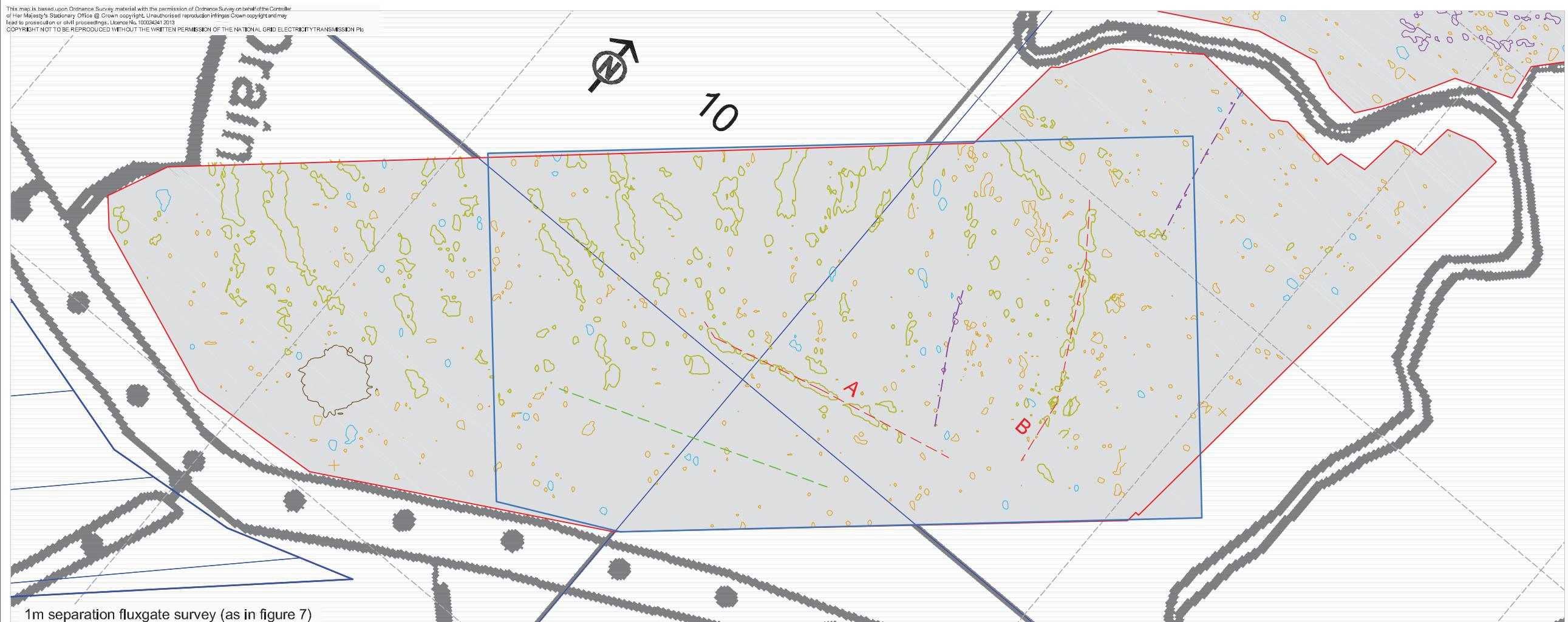
GIS A3

TEP

SCALES 1:1250

DRAWING No.

ISSUE A

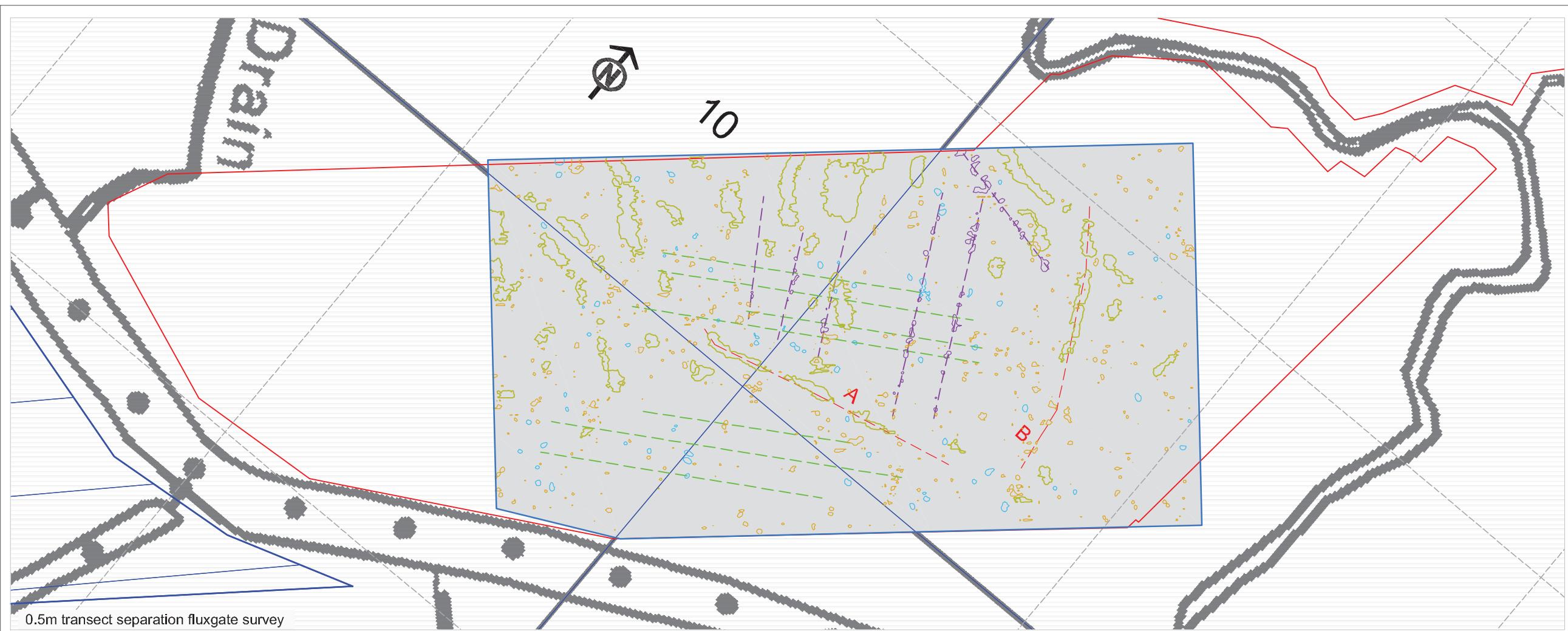


1m separation fluxgate survey (as in figure 7)

Key

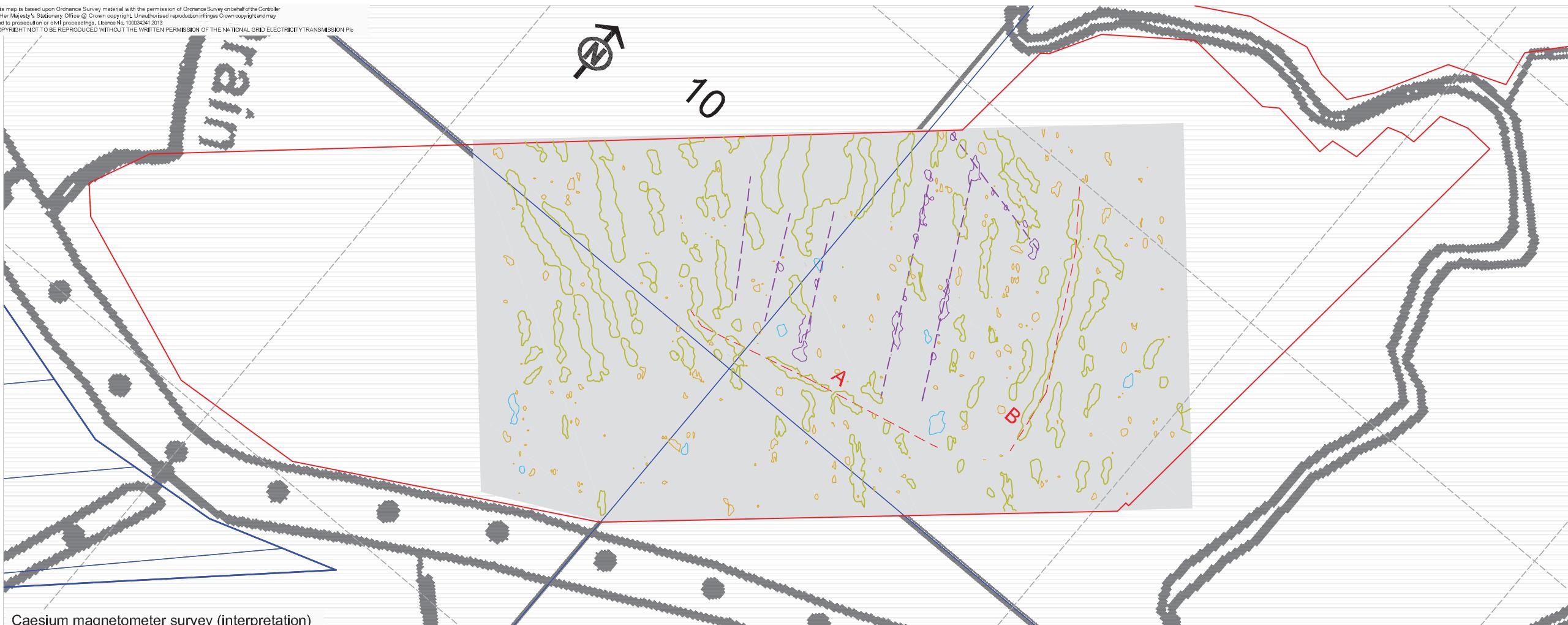
-  magnetic anomalies (archaeological ?)
-  recent magnetic disturbances ?
-  broad / weak natural magnetic anomalies (wetland)
-  small background magnetic anomalies (natural / non-archaeological ?)
-  cultivation
-  pipe
-  drain ?
-  strong (ferrous) magnetic anomalies

Location of 0.5m fluxgate,
caesium magnetometer
and EM31 surveys



0.5m transect separation fluxgate survey

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ISSUE	DATE	COMMENTS	DRAW	CHKD	APP
<u>Title</u> NATIONAL GRID (HINKLEY C PROJECT) ENVIRONMENTAL STATEMENT					
STUDY AREA C MENDIP HILLS AONB					
ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 3					
Geophysical trial investigation: fluxgate magnetometer surveys (interpretation)					
					
Oxford Archaeology, James House, Osney Mead, Oxford, OX2 0ES					
NG INVESTIGATION No. 20897		FIGURE No. 72			GIS 1:1250
DRAWING No. SHEET 72 of 106				SCALE 1:1250	
ISSUE A					



Key

- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies

Location of 0.5m fluxgate, caesium magnetometer and EM31 surveys

0 50m
Scale 1:1250 @ A3

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Title

NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT

STUDY AREA C
MENDIP HILLS AONB

ARCHAEOLOGICAL GEOPHYSICAL
SURVEY: PART 3

Geophysical trial investigation:
Caesium magnetometer survey
(interpretation) and EM31 data



Oxford Archaeology

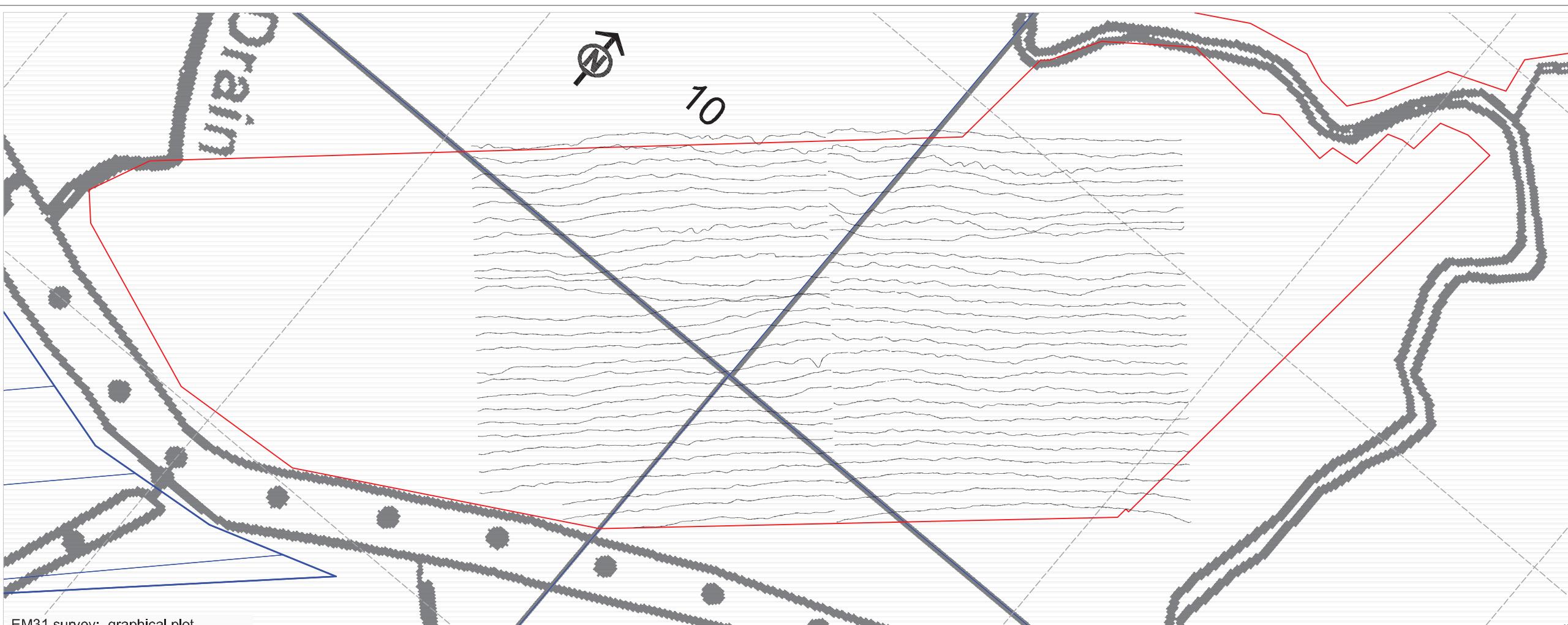
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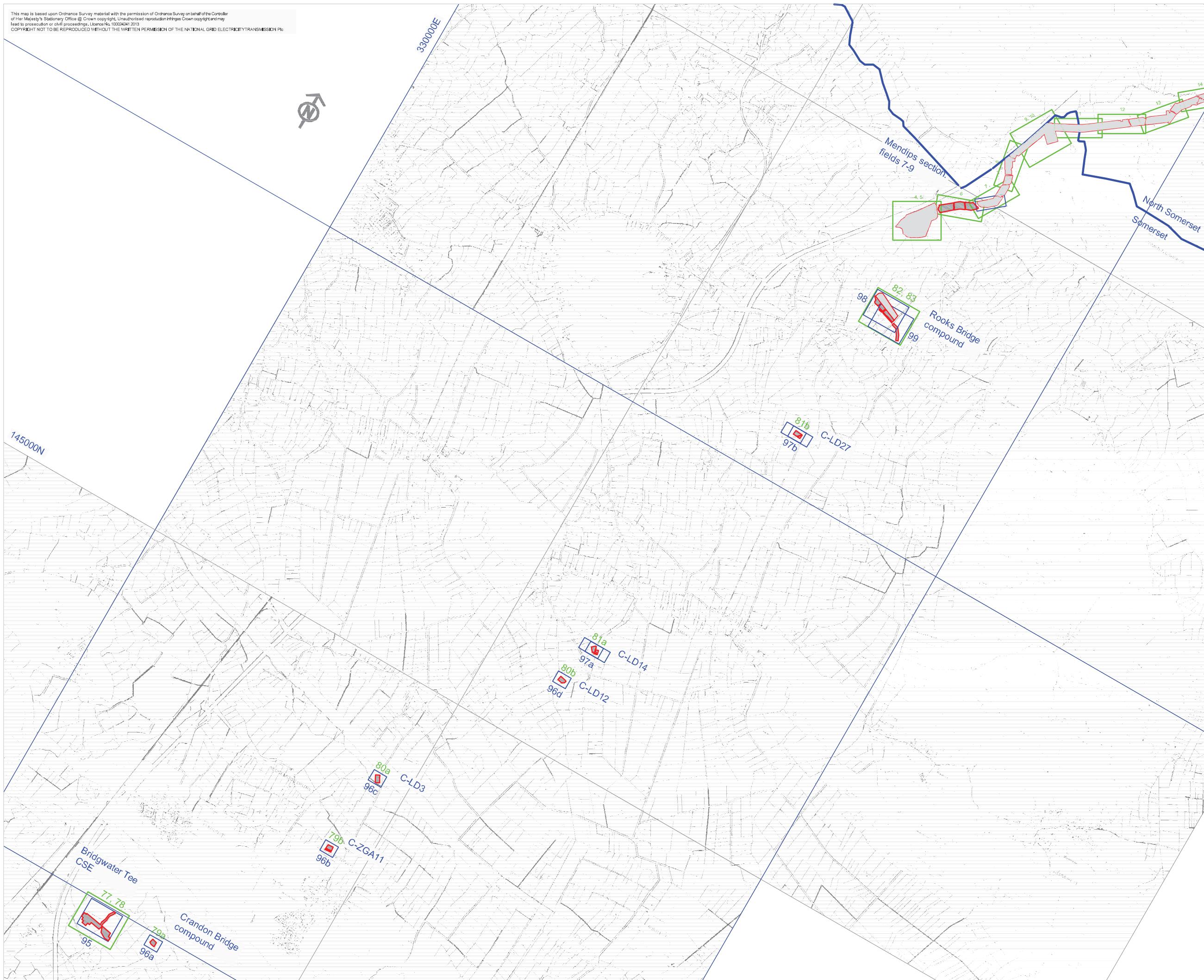
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20897	73	A3

DRAWING No. SCALE 1:1250

ISSUE A

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Key

1:2000 grey scale survey plots

1:1250 and 1:1500 graphical and grey scale survey plots

Completed geophysical survey (September 2013): figures 77 - 106

0 2000m
Scale 1:50000 @ A3

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Title
NATIONAL GRID (HINKLEY C PROJECT) ENVIRONMENTAL STATEMENT

ADDITIONAL SURVEY AREAS SEPTEMBER 2013

ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4

Location of survey with magnetometer data plots (Key plan 1 of 3)



Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES

NG INVESTMENT No.	FIGURE No.	GIS
20897	74	A3
TEP		
DRAWING No.		SCALE 1:50000
SHEET 74 of 106		ISSUE A

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340000E

160000N

CLEVEDON

North Somerset

Somerset

C-LD62 84b 700b

85a C-LD64

100c

100d

85b C-LD79

42

45

46

47

48

49

50

51

13

14

15

16

17

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19

20

21

22

North Sea

340000E

160000N

Ke

- 1:2000 grey scale survey plots
- 1:1250 and 1:1500 graphical and grey scale survey plots
- Completed geophysical survey (September 2013): figures 77 - 106

0 2000m
Scale 1:50000 @ A3

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**NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT**

**ADDITIONAL SURVEY AREAS
SEPTEMBER 2013**

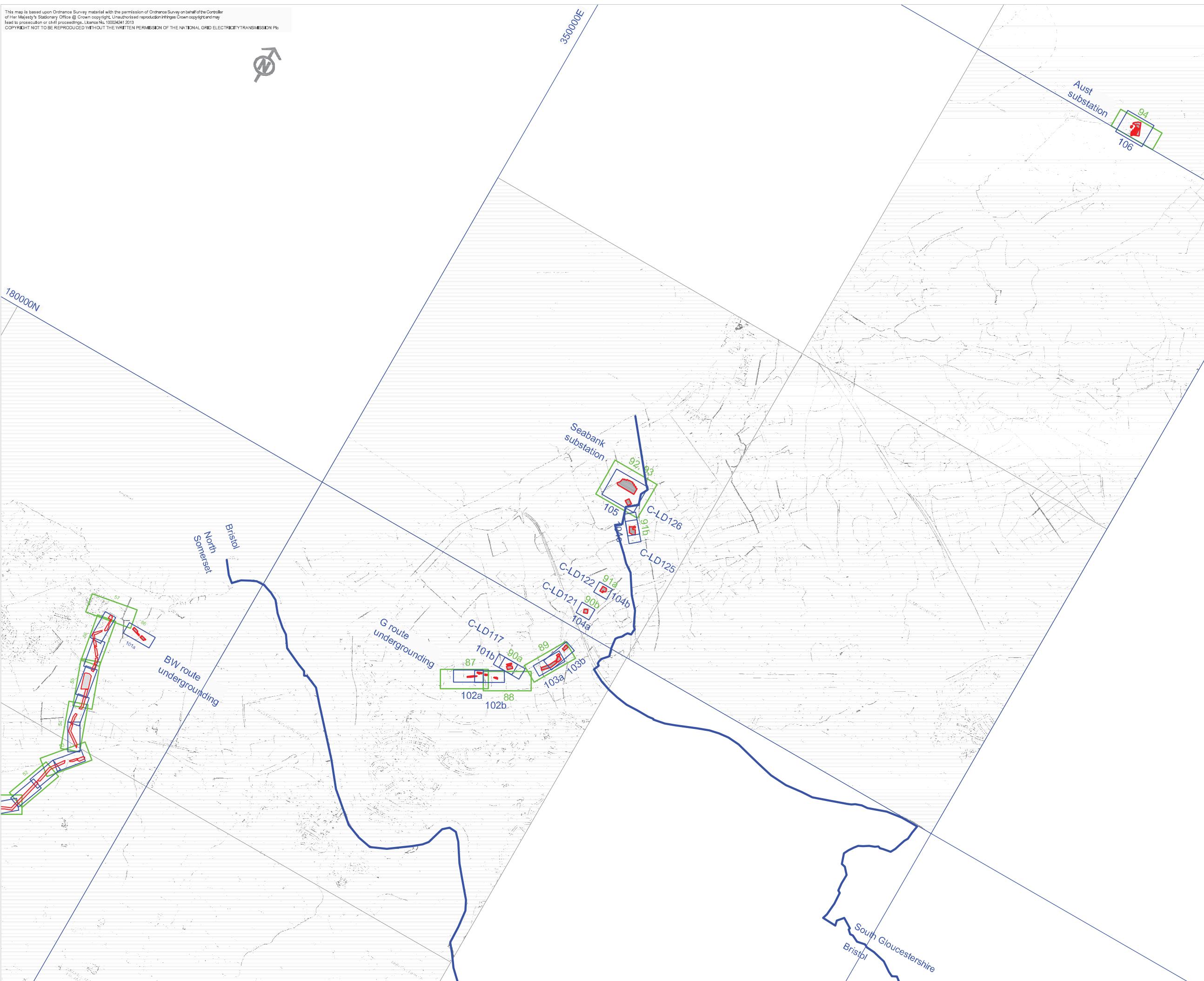
ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4

Location of survey with
magnetometer data plots
(Key plan 2 of 3)



Journal of Oxford Archaeology, Janus House, Osney Mead, Oxford

DRAFT Attached; JAMES HOUSE, OAKLEY MEADOW, OXFORD, OX12 5JL			
NG INVESTMENT No.	FIGURE No.		GIS
20897	75		A3
DRAWING No.	SCALE 1:50000		
SHEET 75 of 106			ISSUE



Key

- 1:2000 grey scale survey plots
- 1:1250 and 1:1500 graphical and grey scale survey plots
- Completed geophysical survey (September 2013): figures 77 - 106

0 2000m
Scale 1:50000 @ A3

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NATIONAL GRID
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ENVIRONMENTAL STATEMENT

**ADDITIONAL SURVEY AREAS
SEPTEMBER 2012**

ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4



Journal of Oxford Archaeology, Janus House, Osney Mead, Oxford

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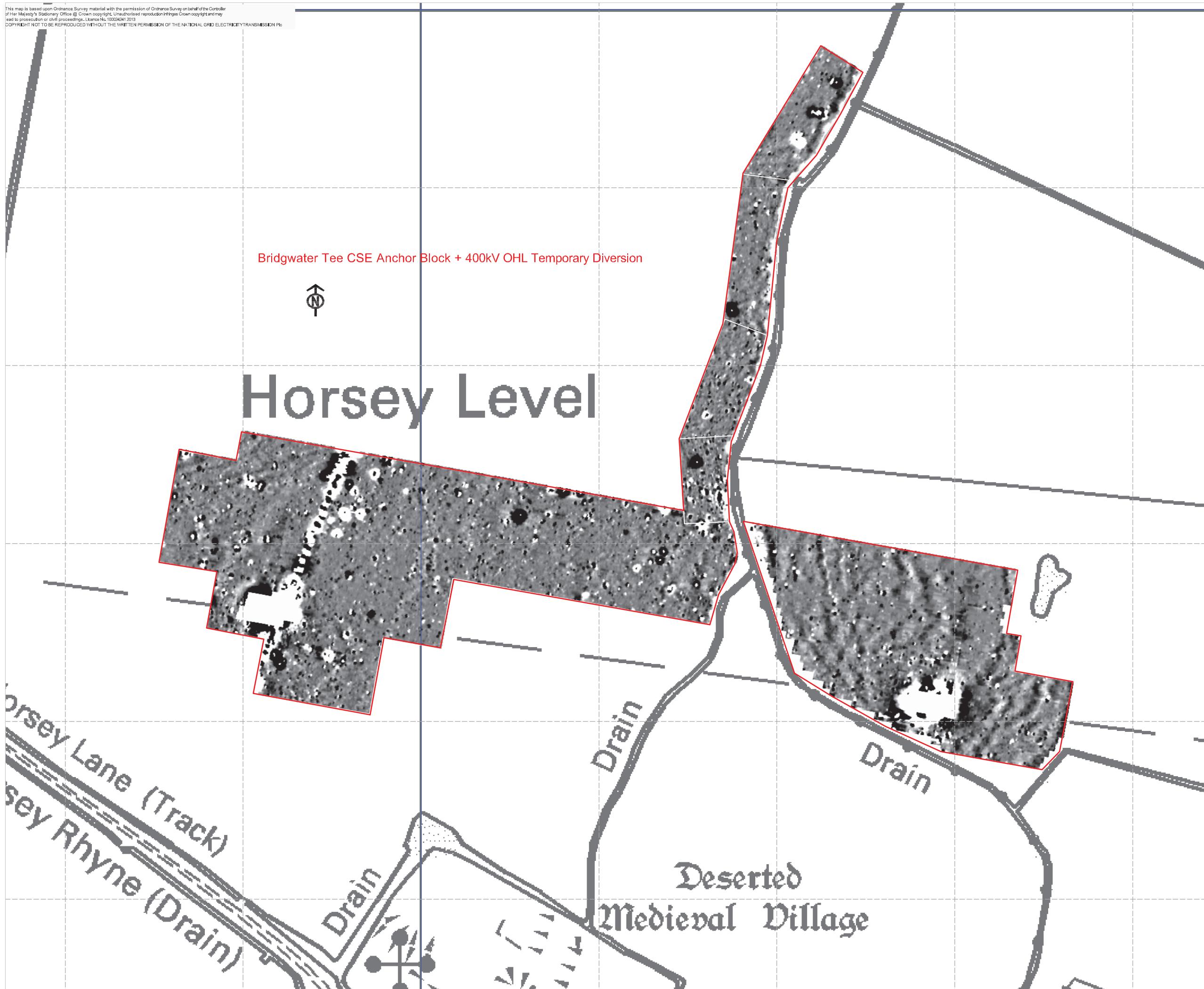
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STREET 100-100



Key



0 100m
Scale 1:2000 @ A3

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Title
NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT

ADDITIONAL SURVEY AREAS
SEPTEMBER 2013

ARCHAEOLOGICAL GEOPHYSICAL
SURVEY: PART 4

Magnetometer survey
(grey scale plot)



Oxford Archaeology, James House, Osney Mead, Oxford OX2 0ES

NG INVESTMENT No.	FIGURE No.	GIS
20897	77	TEP A3
DRAWING No.	SCALE	
	1:2000	
SHEET 77 of 106		ISSUE
		A



area proposed for magnetometer survey

Bridgwater Tee CSE Anchor Block + 400kV OHL Temporary Diversion



Horsey Level

Drain

Drain

Key



- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies

0 50m

Scale 1:1500 @ A3

A	19/09/2013	ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD
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Title
NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT

ADDITIONAL SURVEY AREAS
SEPTEMBER 2013

ARCHAEOLOGICAL GEOPHYSICAL
SURVEY: PART 4

Magnetometer survey
(interpretation)

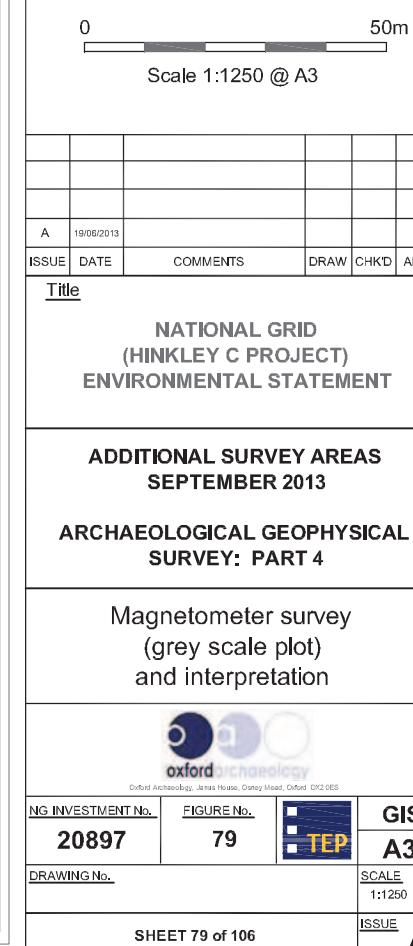
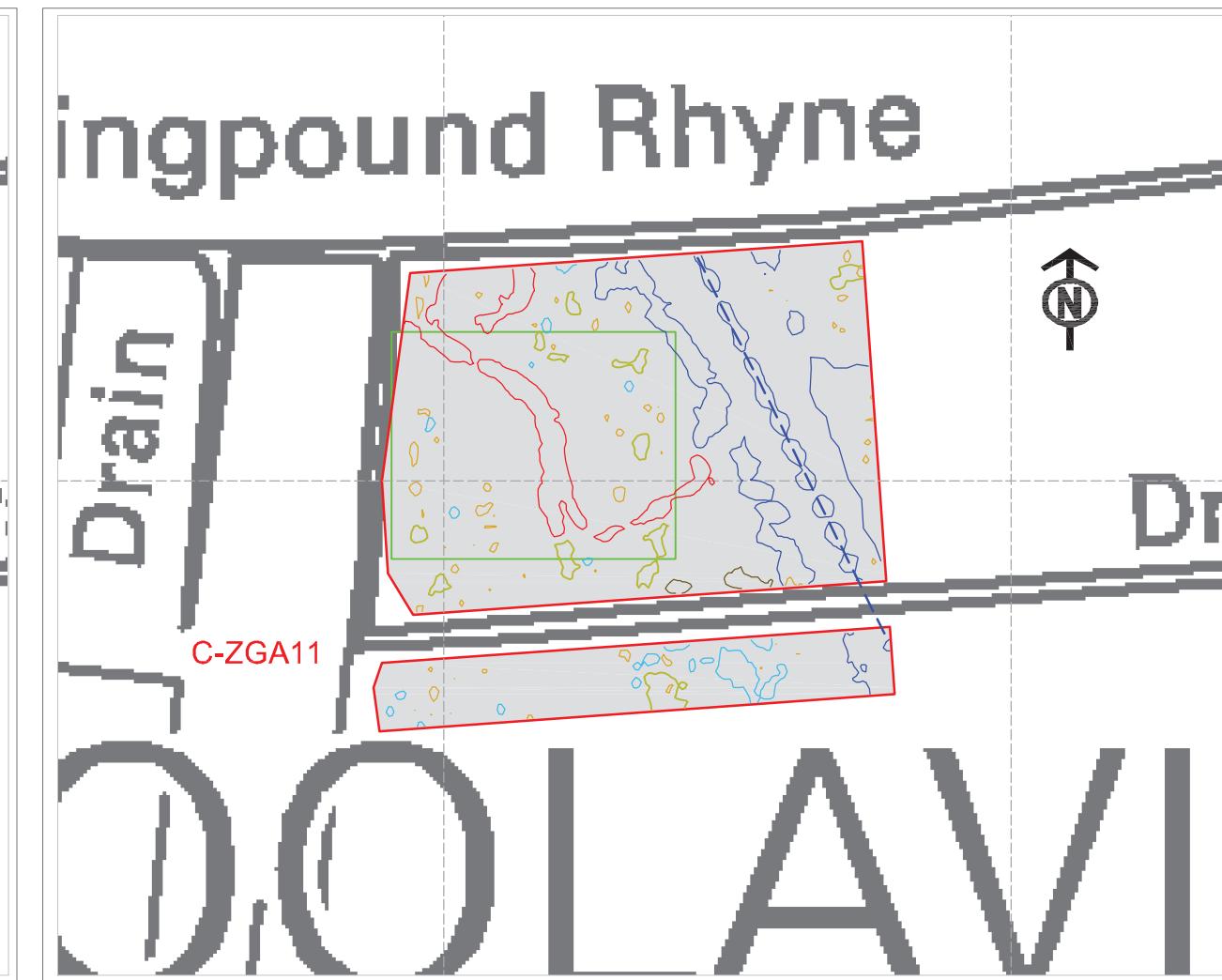
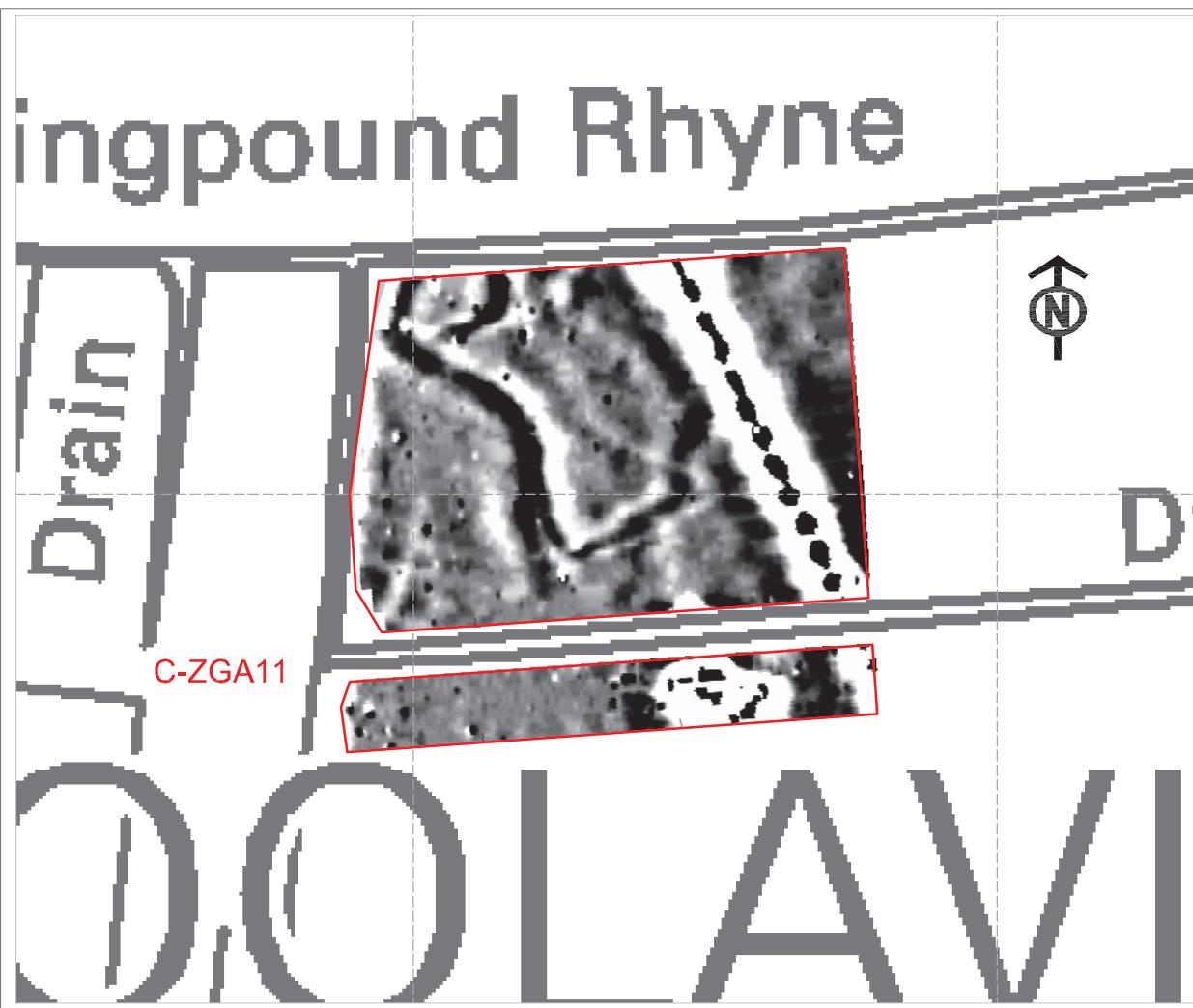
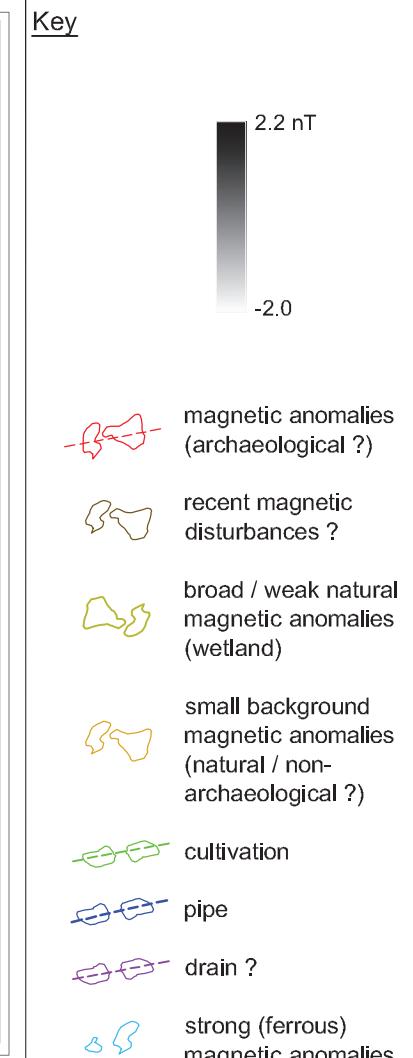
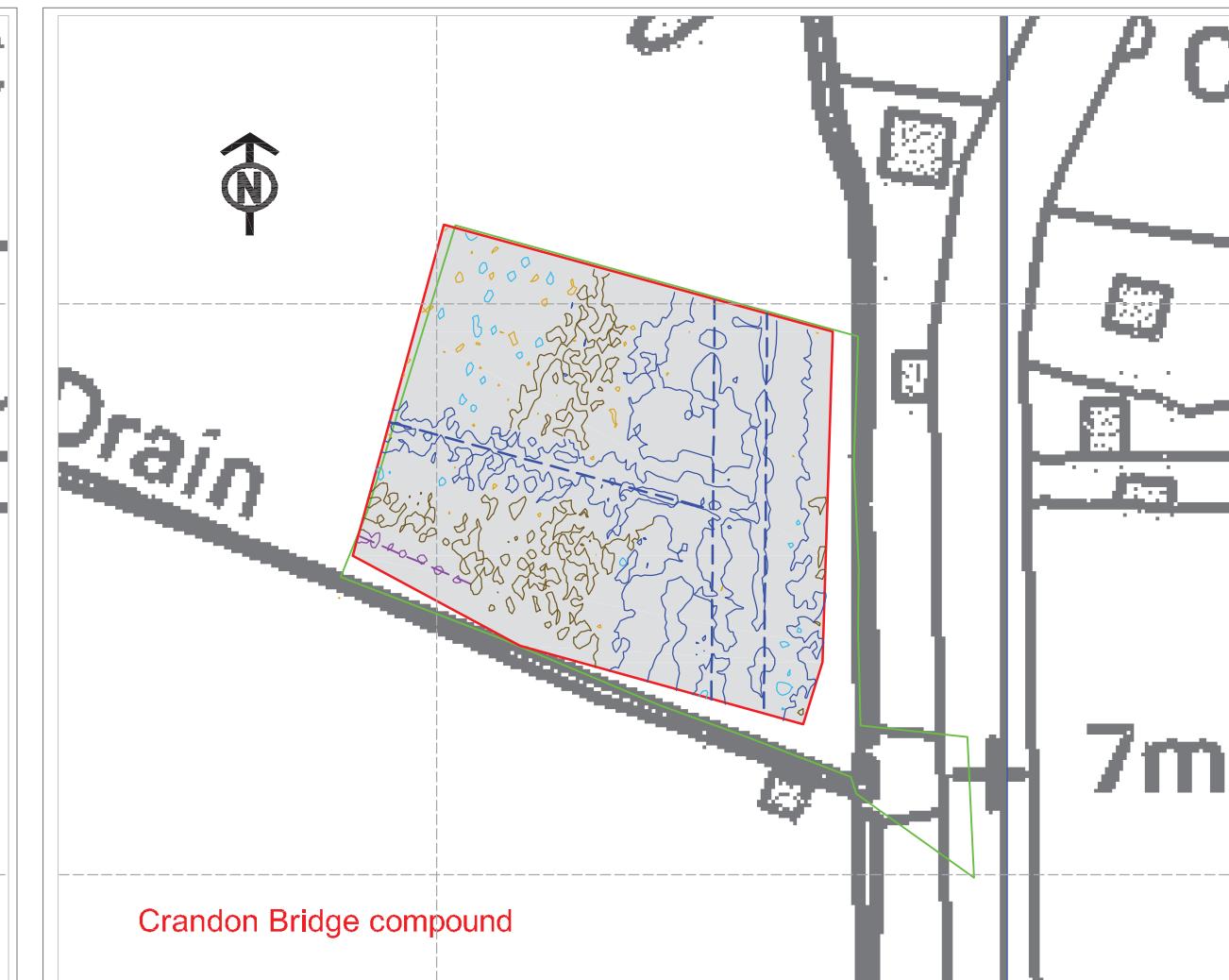
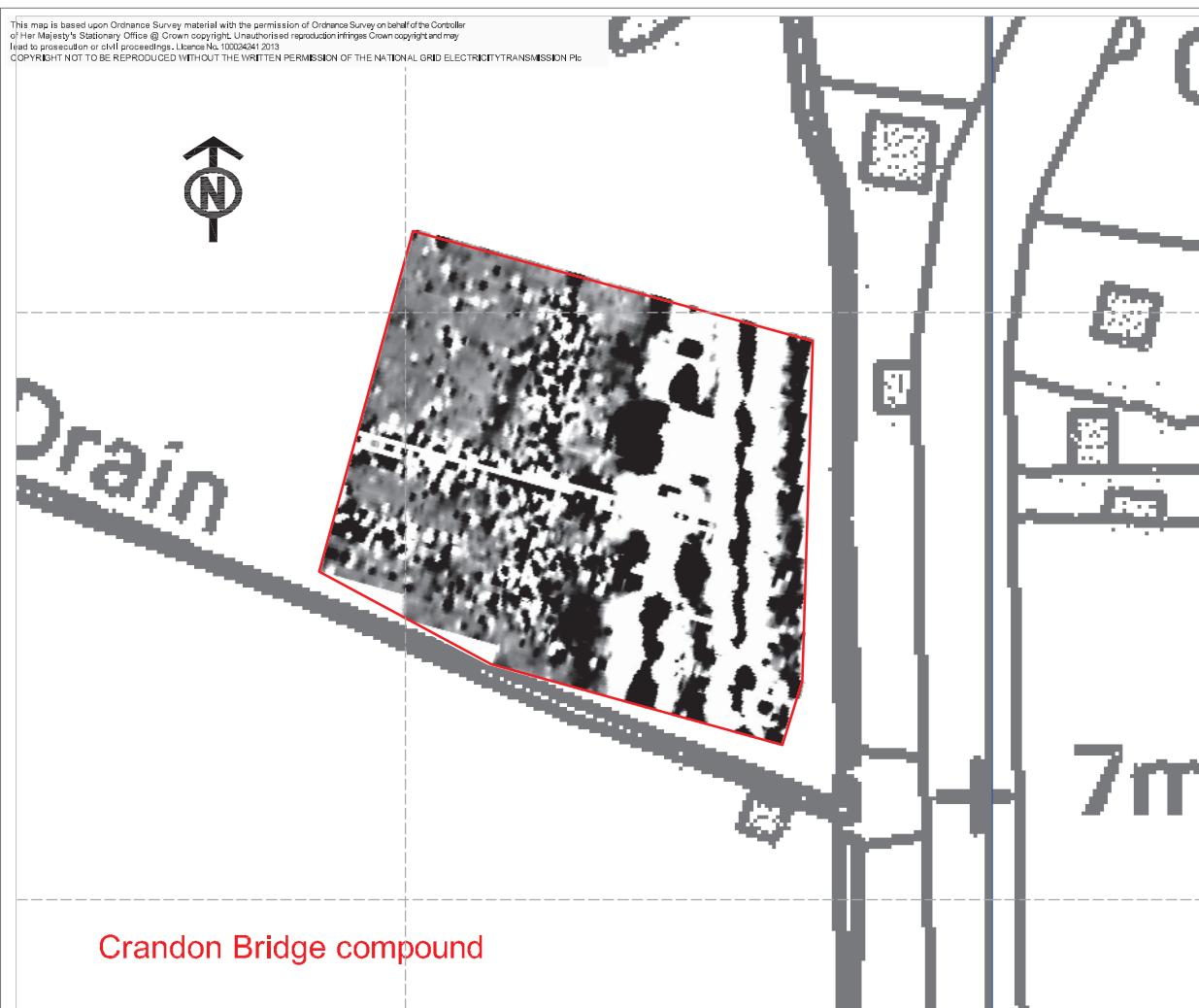


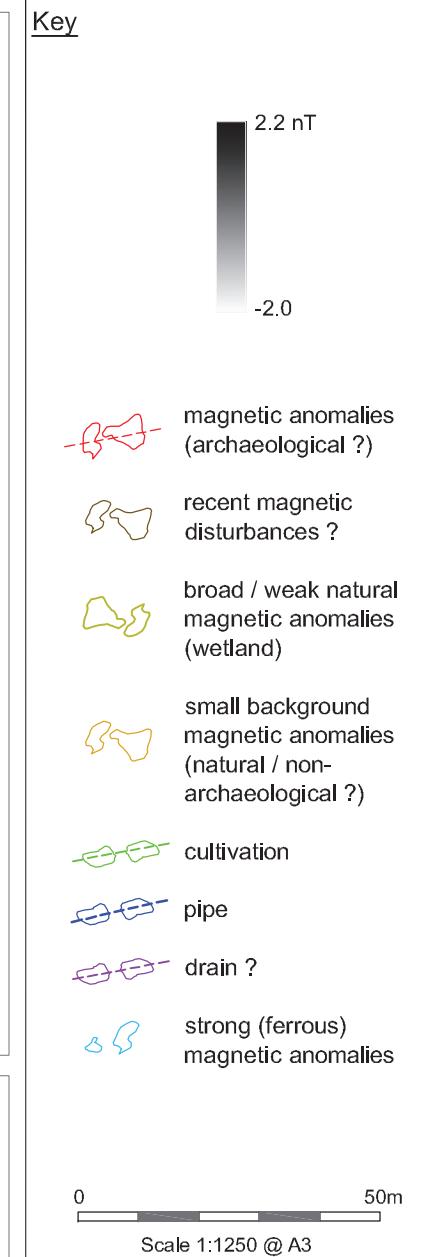
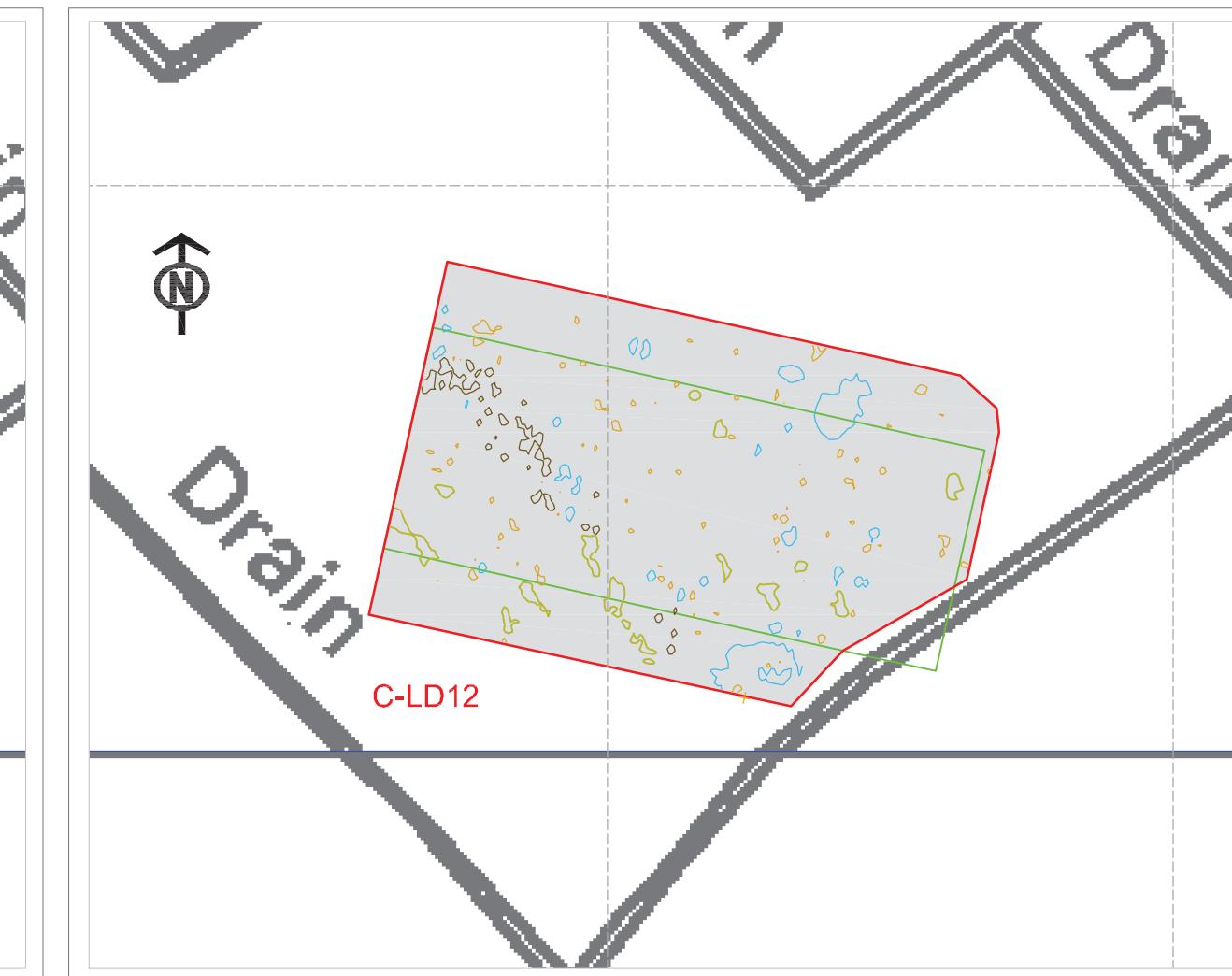
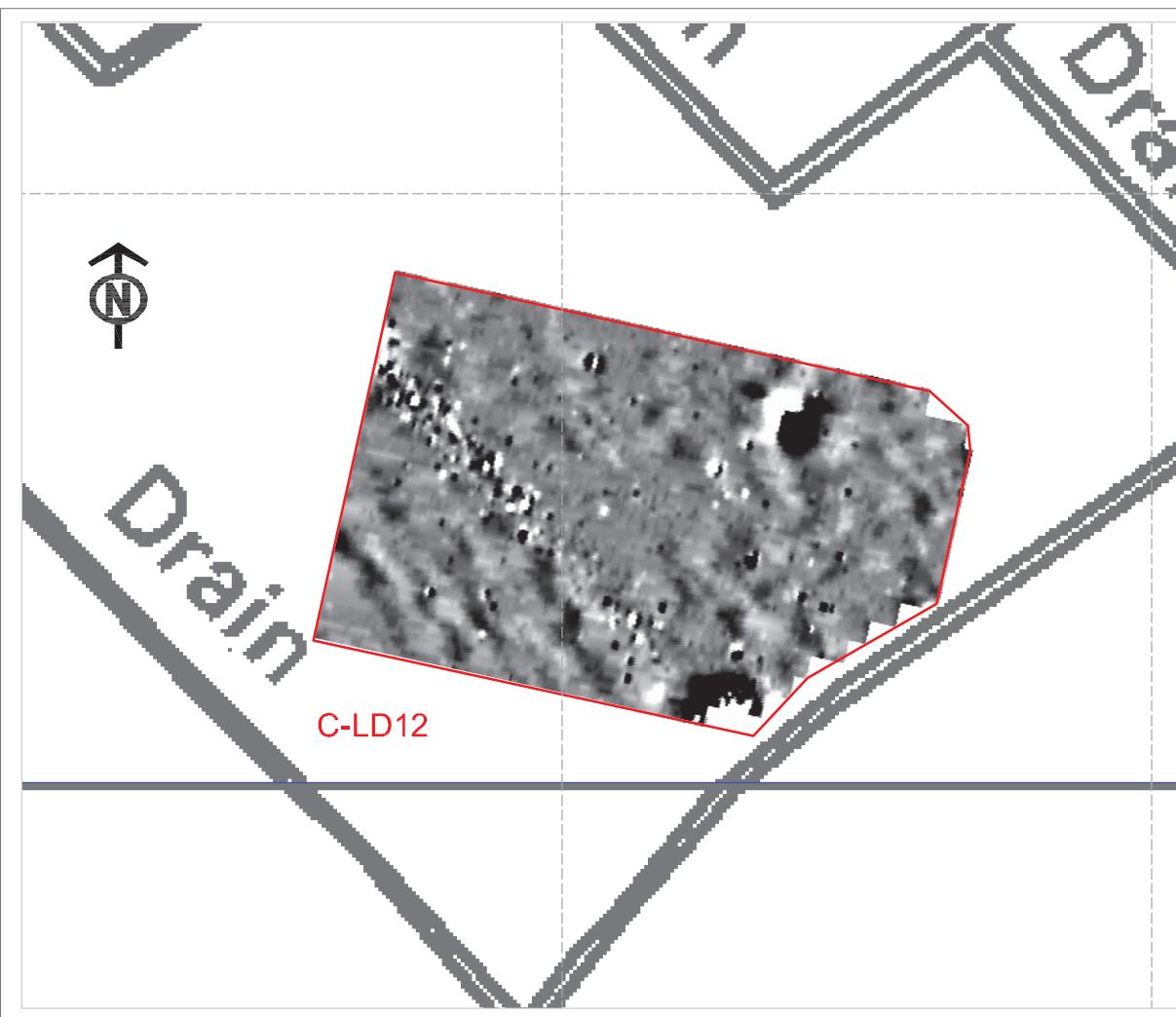
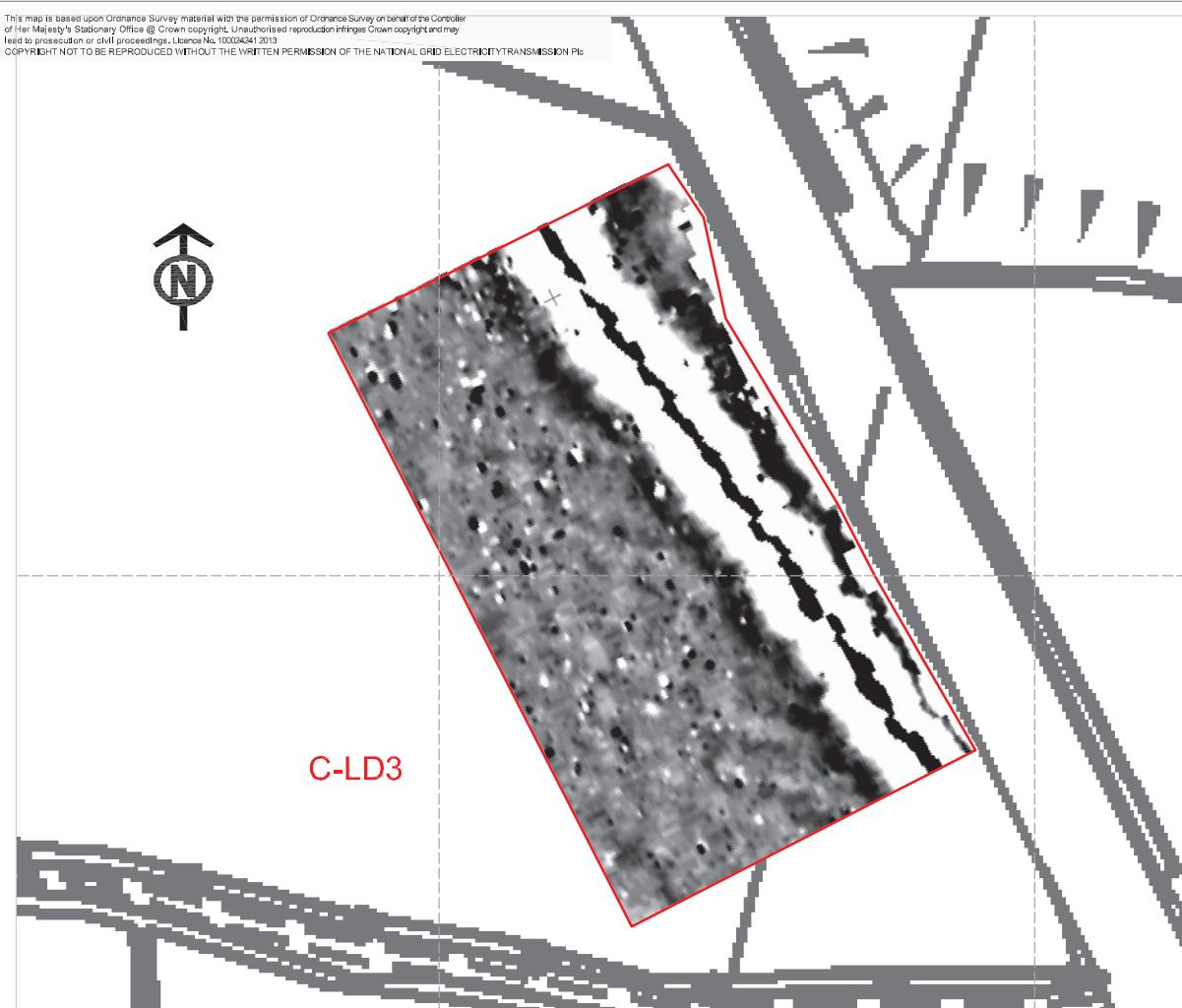
Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES

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A	19/08/2013			
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Title **NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT**

ADDITIONAL SURVEY AREAS SEPTEMBER 2012

ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4

Magnetometer survey (grey scale plot) and interpretation



Oxford Archaeology, James House, Osney Mead, Oxford

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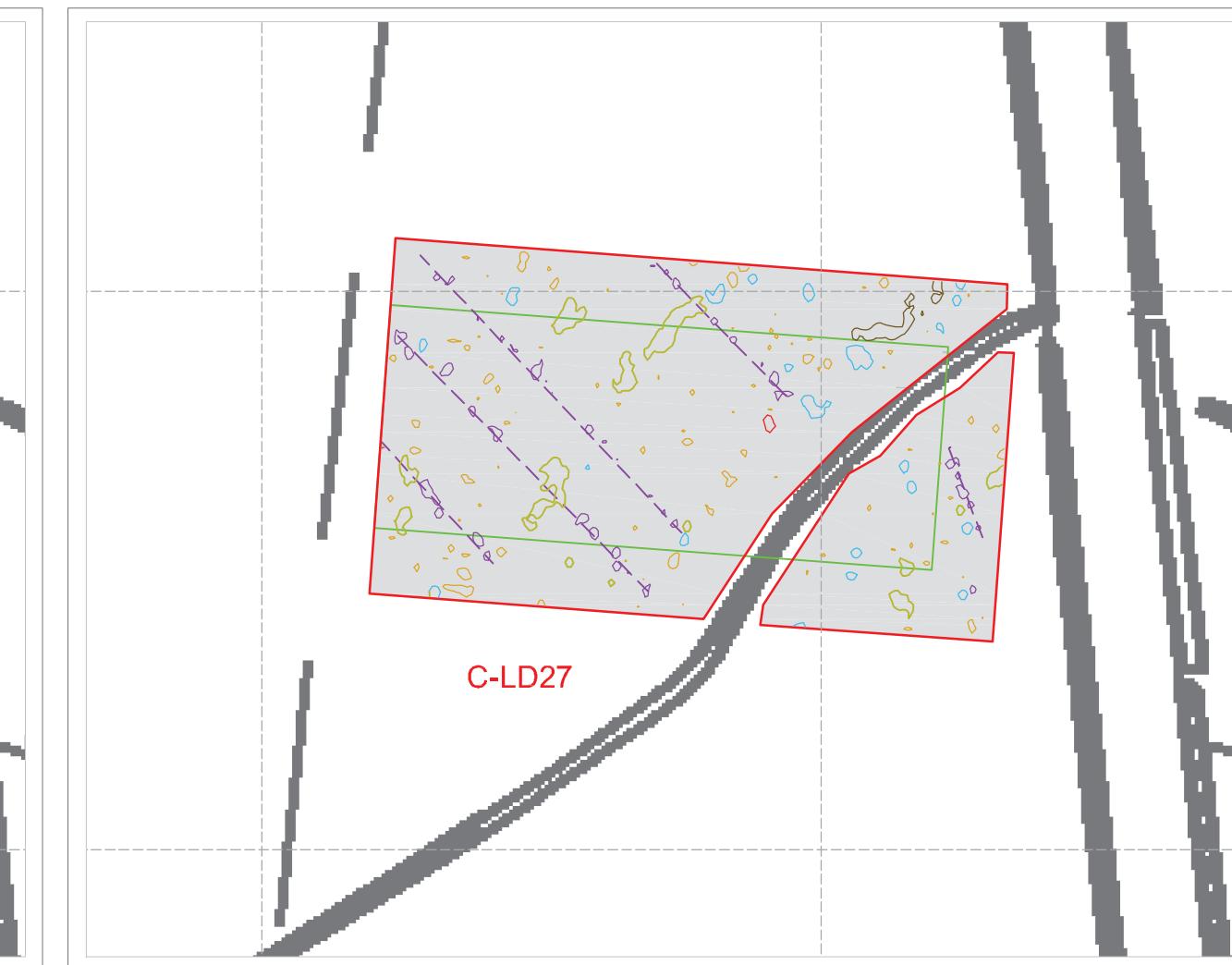
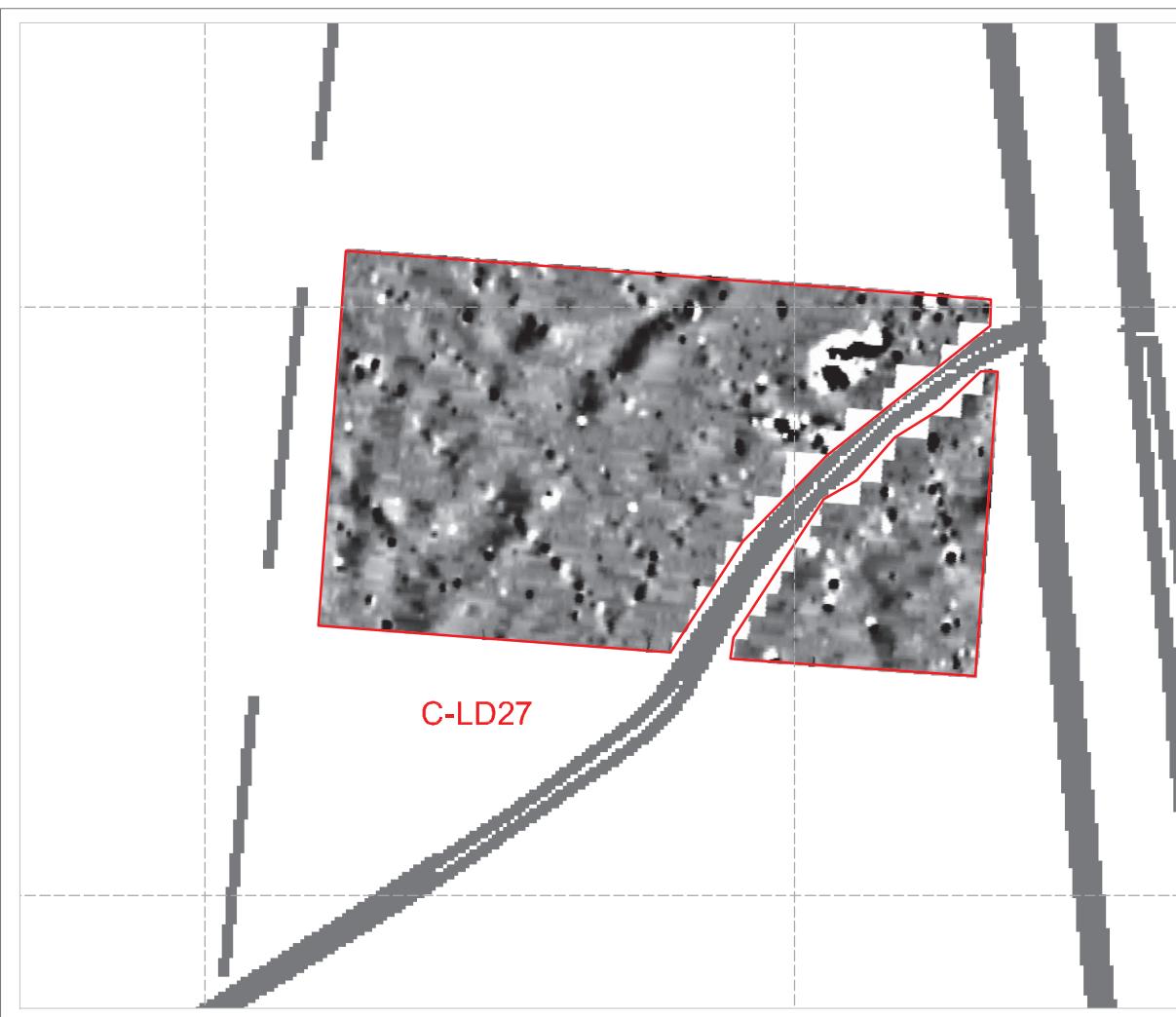
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DRAWING No. SCALE

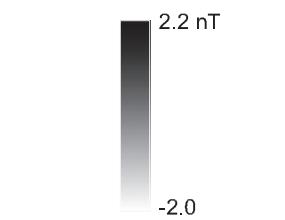
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SHEET 80 of 106

11. *What is the primary purpose of the following statement?*



Key



-  magnetic anomalies
(archaeological ?)
-  recent magnetic
disturbances ?
-  broad / weak natural
magnetic anomalies
(wetland)
-  small background
magnetic anomalies
(natural / non-
archaeological ?)
-  cultivation
-  pipe
-  drain ?
-  strong (ferrous)
magnetic anomalies

0 50m
Scale 1:1250 @ A3

ISSUE	DATE	COMMENTS	DRAW	CHKD	APPR'D
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Title

NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT

ADDITIONAL SURVEY COVERAGE (SEPTEMBER 2013)

ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4

Magnetometer survey (grey scale plot) and interpretation



Journal of Roman Archaeology, Janus House, Osney Mead, Oxford

FIGURE No

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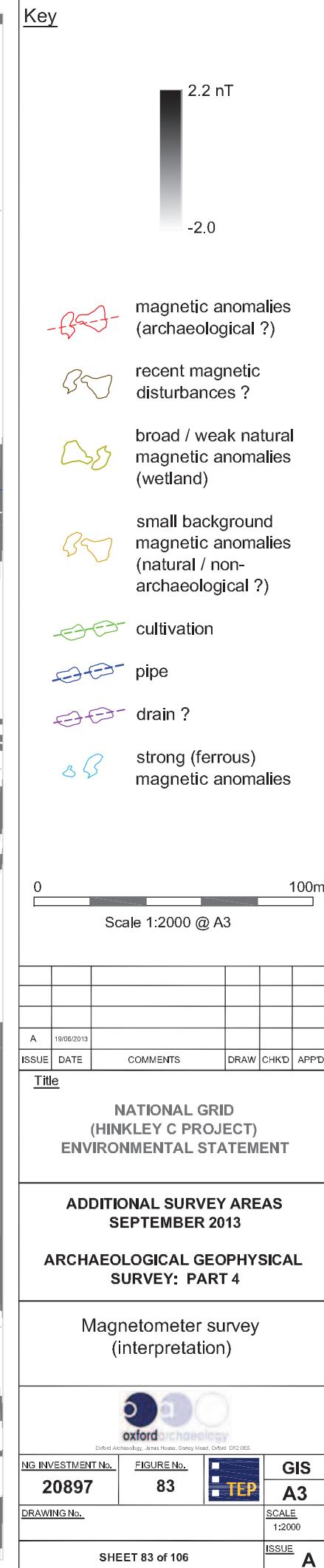
SHEET 81 of 106

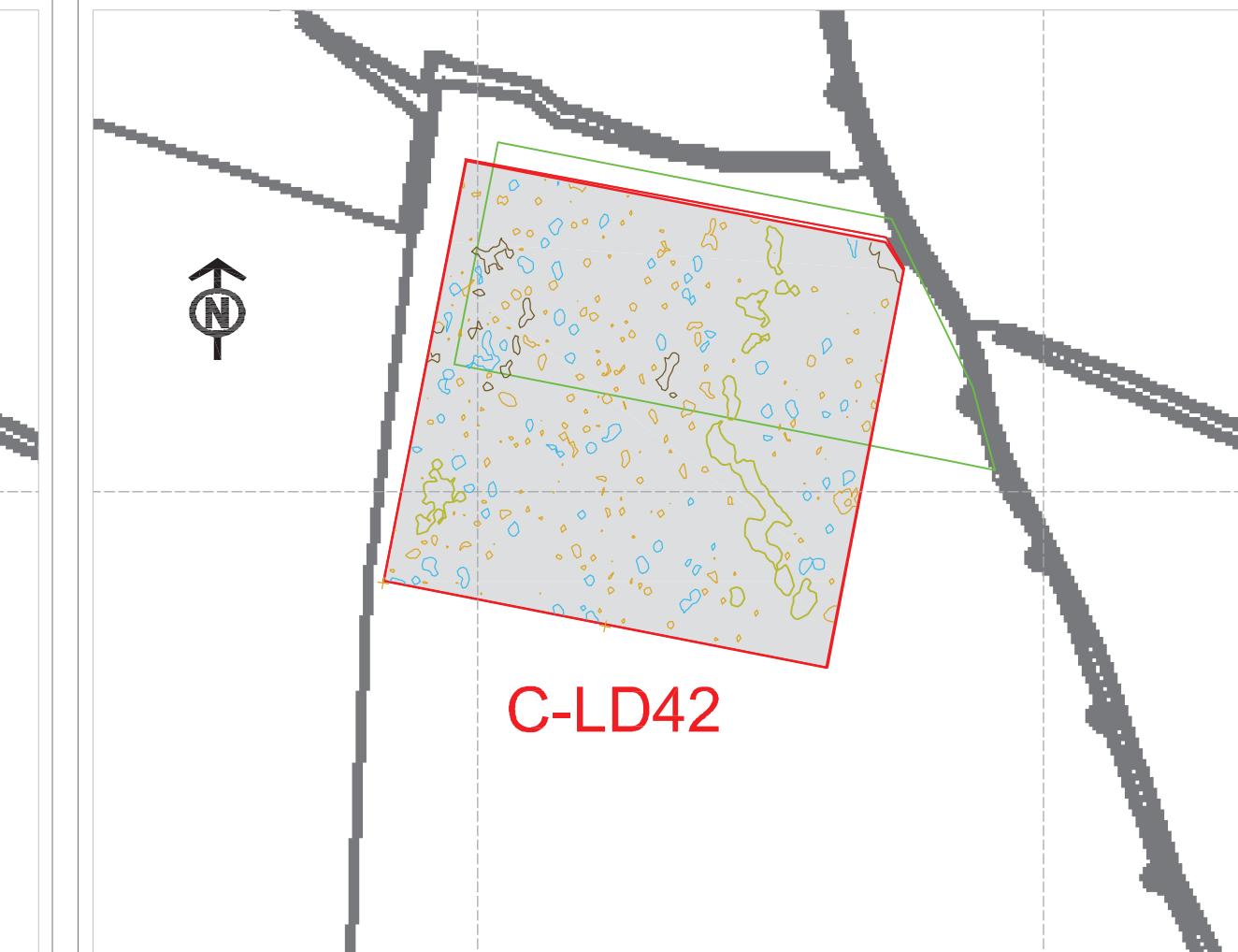
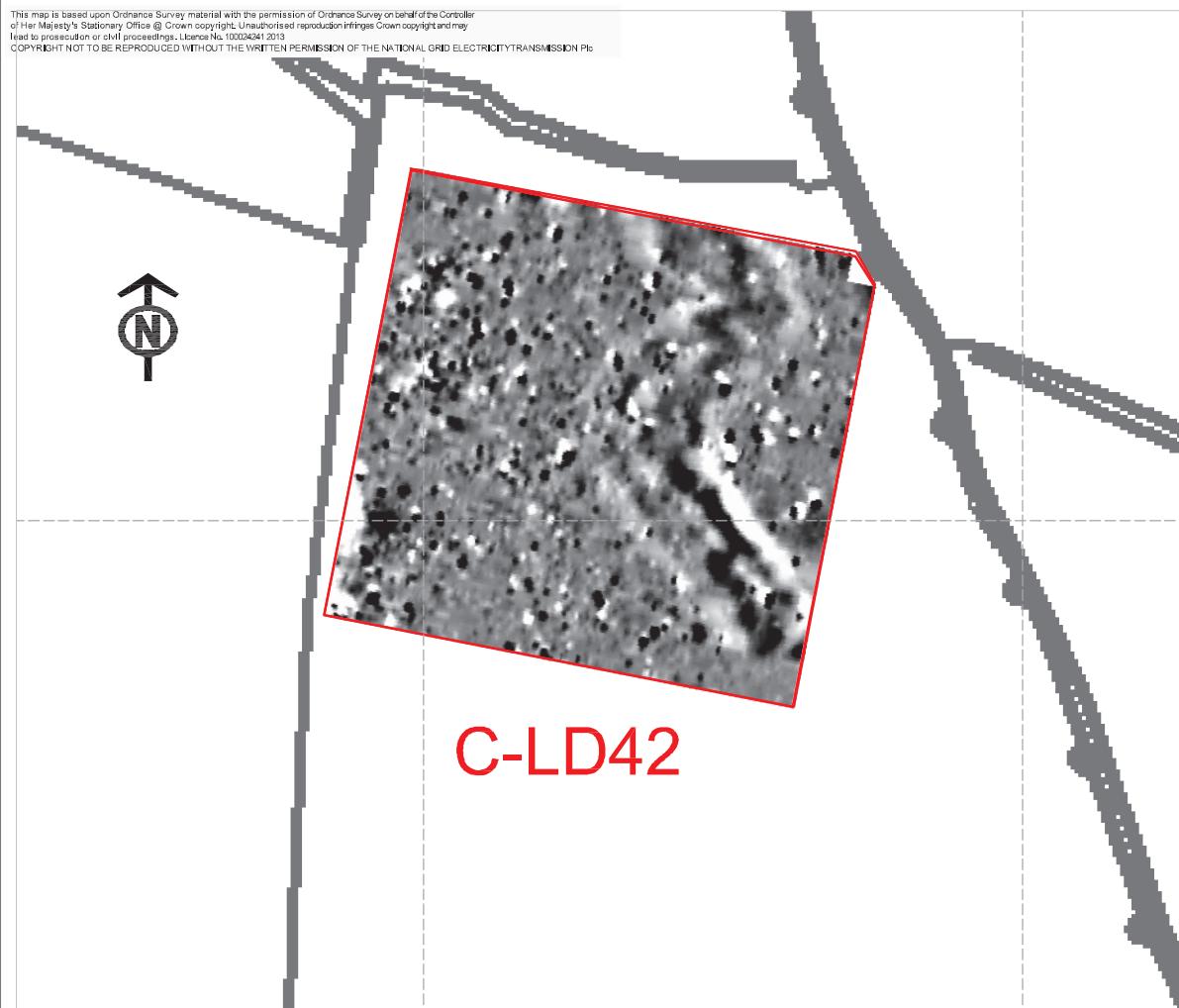


Key



A	DATE	COMMENTS	DRAW	CHKD	APPD
<u>Title</u>					
NATIONAL GRID (HINKLEY C PROJECT) ENVIRONMENTAL STATEMENT					
<u>ADDITIONAL SURVEY AREAS</u> SEPTEMBER 2013					
ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4					
Magnetometer survey (grey scale plot)					
 oxford archaeology Oxford Archaeology, James House, Osney Mead, Oxford OX2 0ES					
NG INVESTMENT No.	FIGURE No.		GIS		
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		1:2000			
SHEET 82 of 106					
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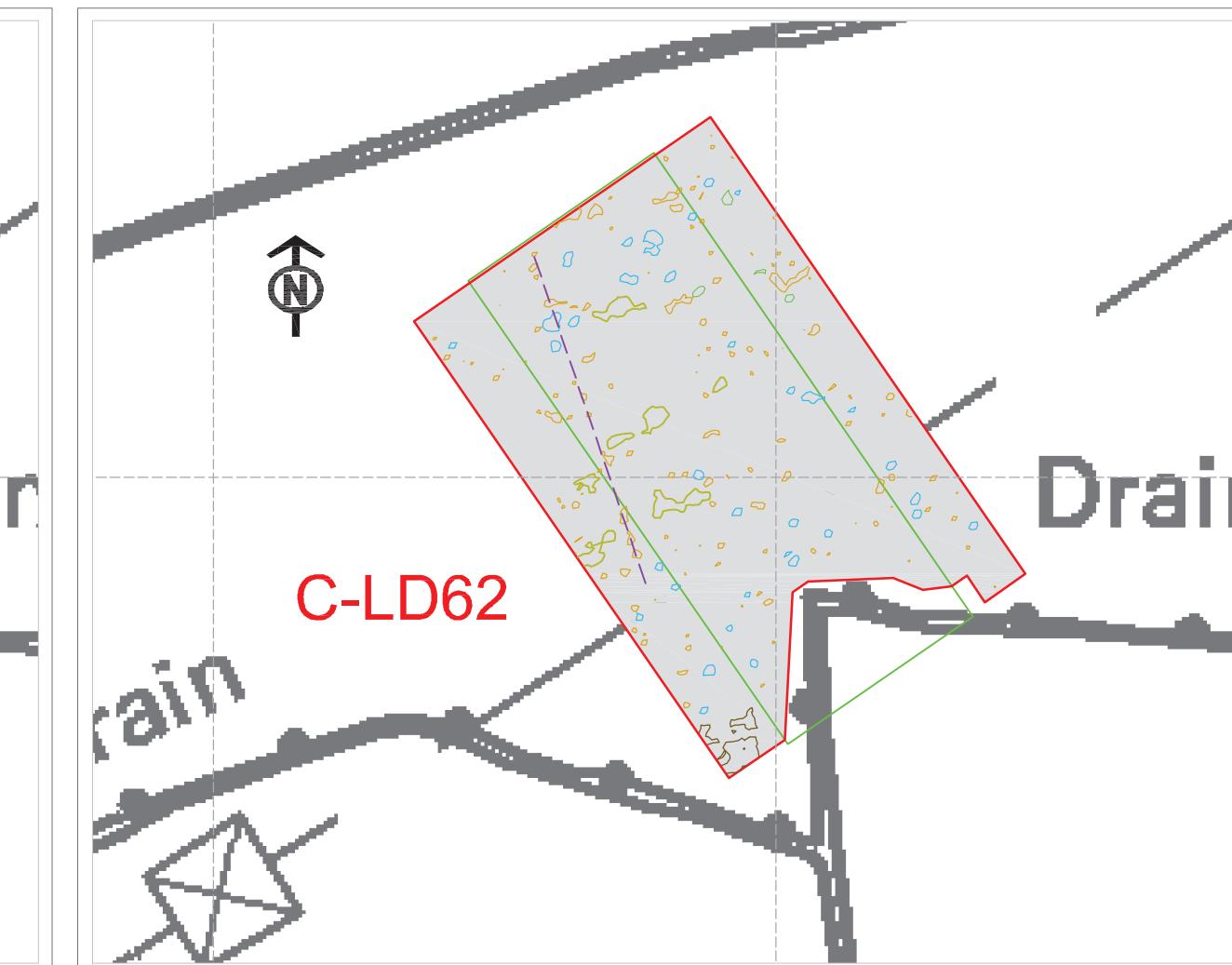
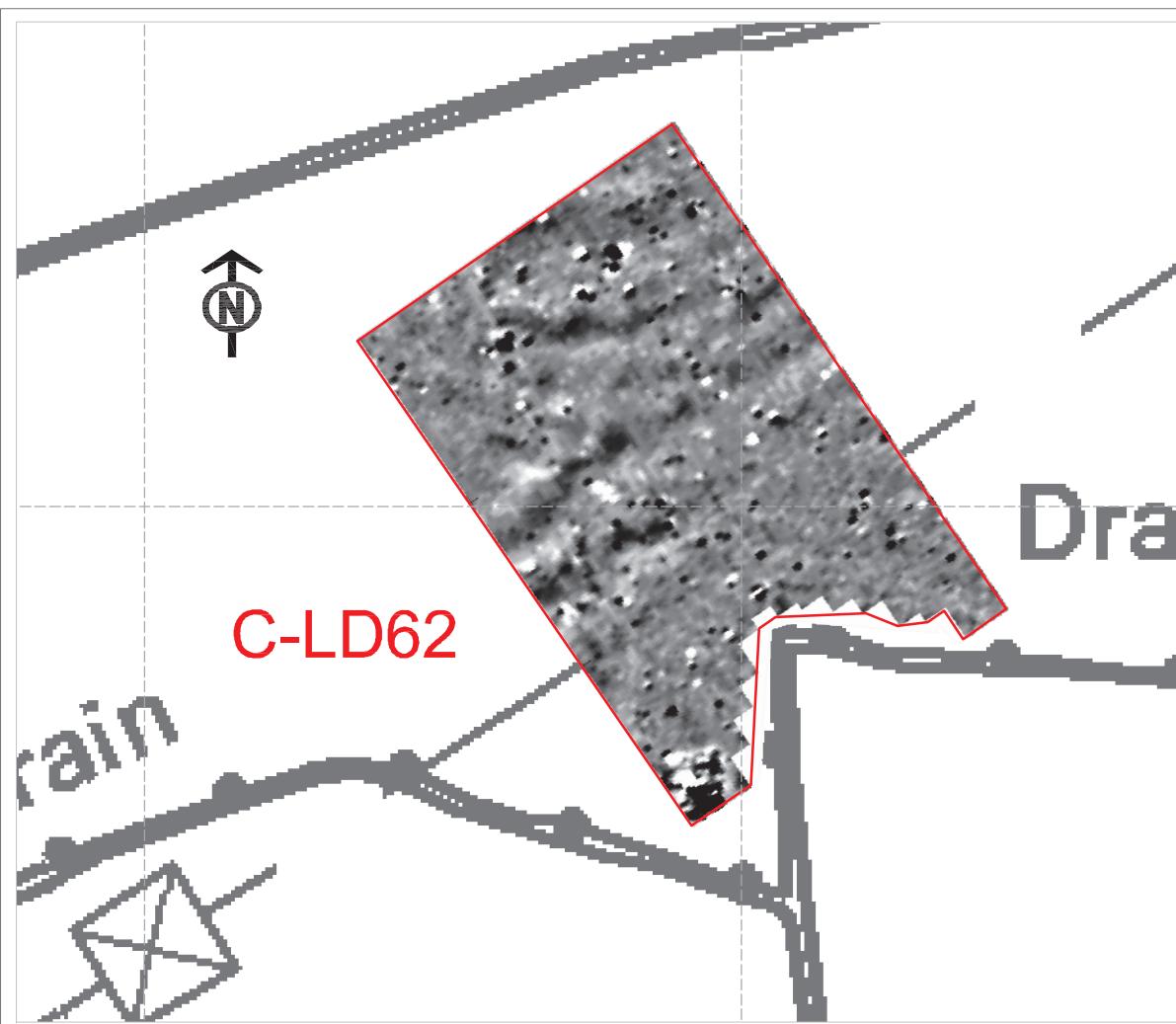




Key



- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies



0 50m
Scale 1:1250 @ A3

A	19/09/2013	ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

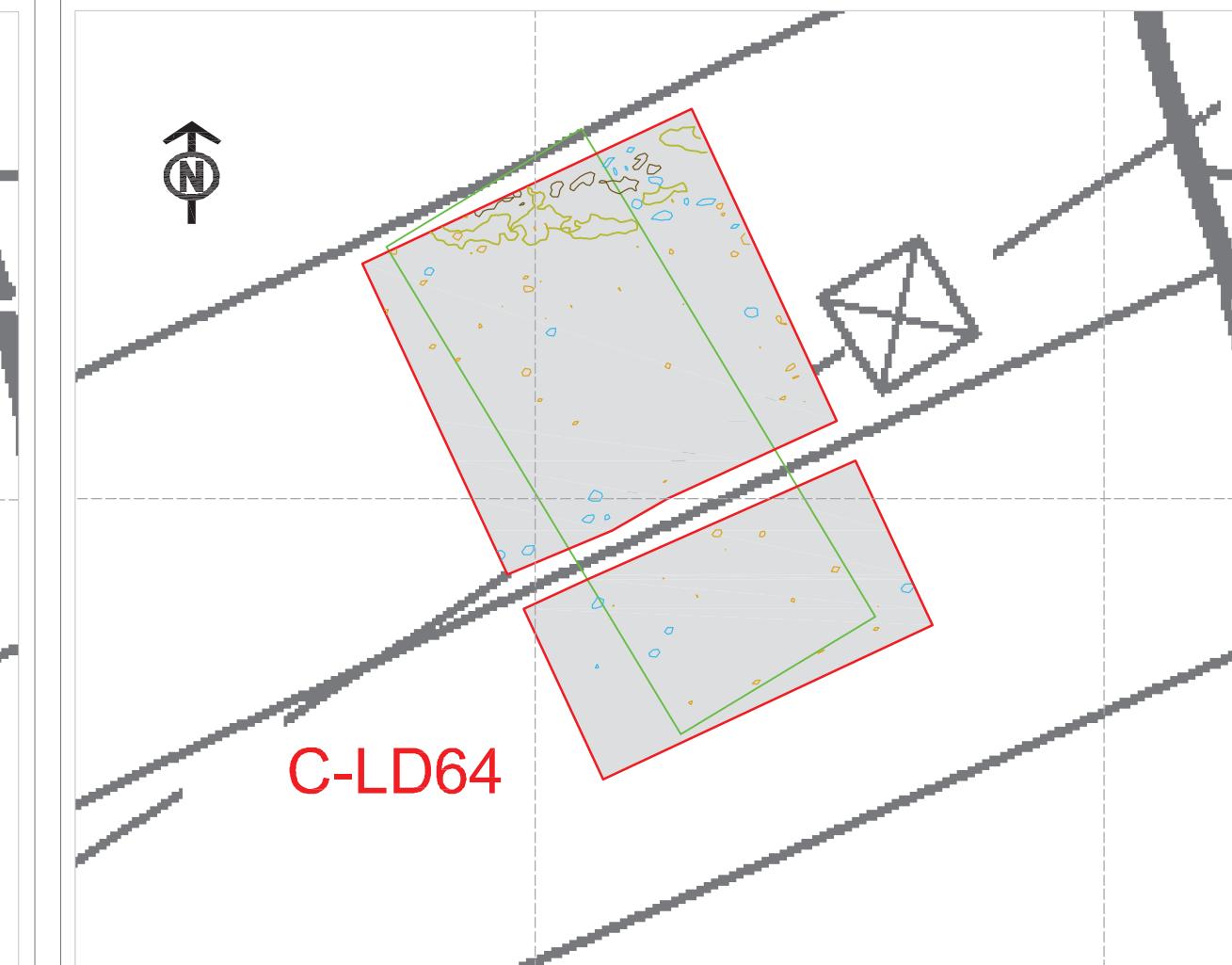
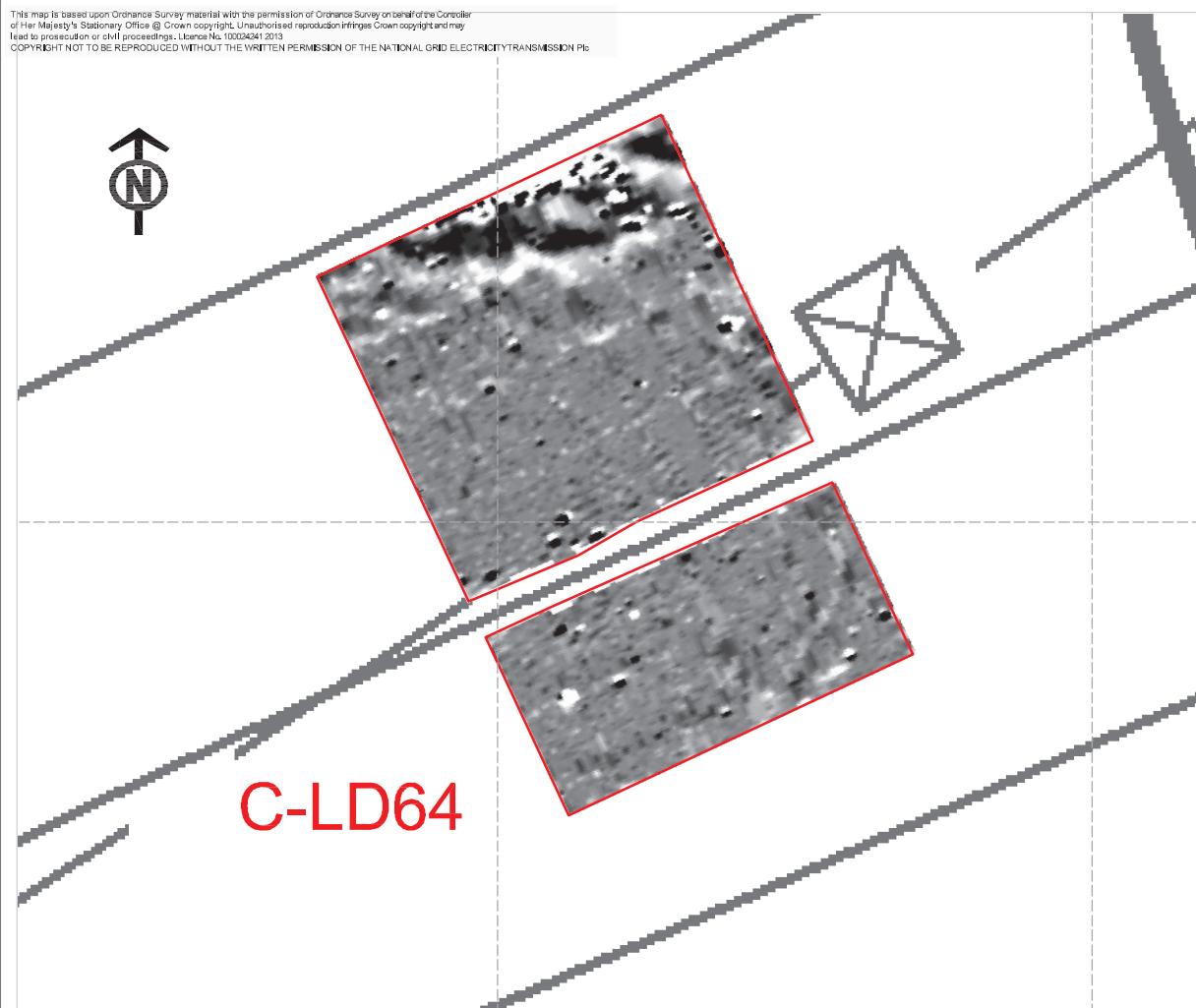
Title
NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT

ADDITIONAL SURVEY AREAS
SEPTEMBER 2013

ARCHAEOLOGICAL GEOPHYSICAL
SURVEY: PART 4

Magnetometer survey
(grey scale plot)
and interpretation

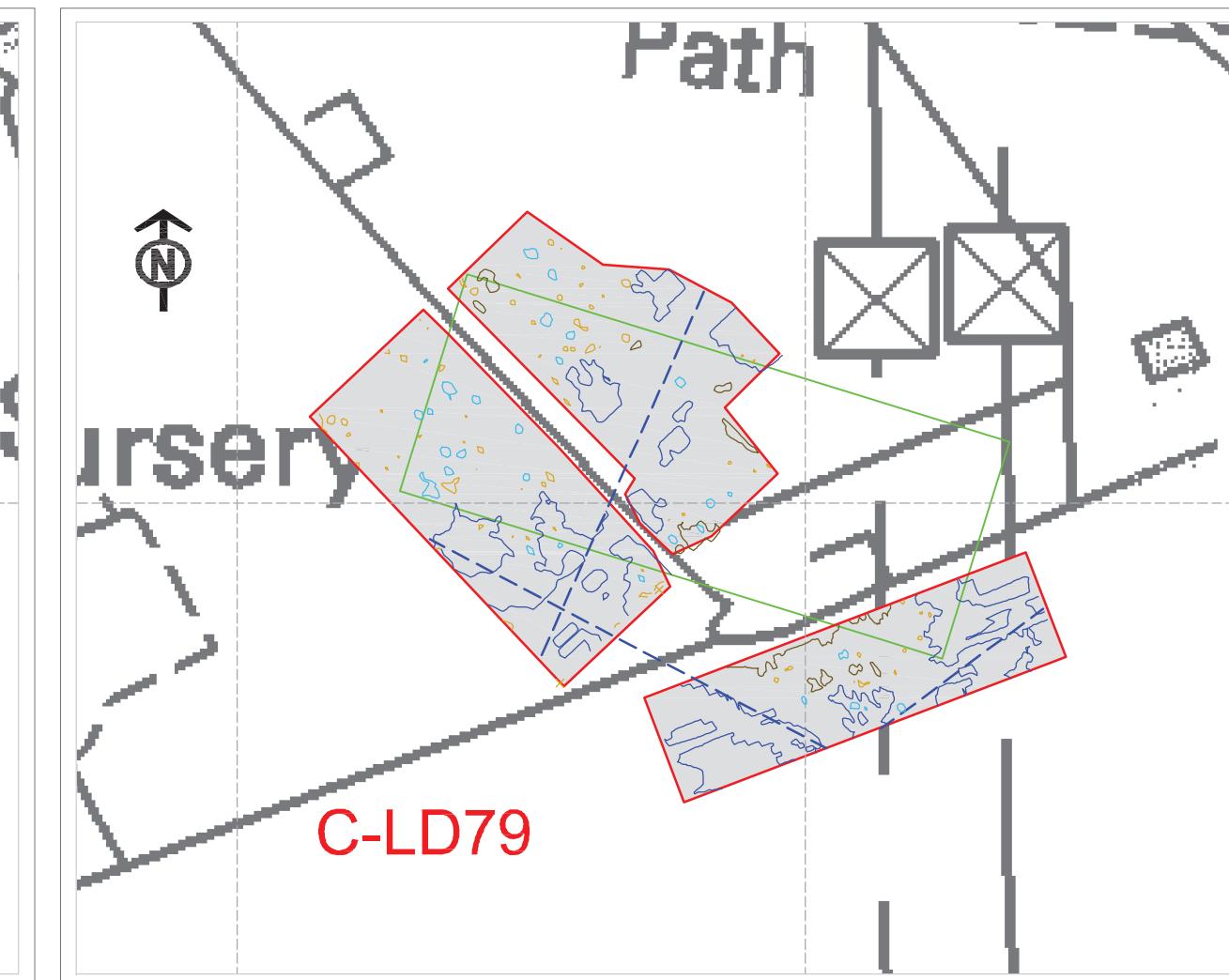
	oxford archaeology	Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES	GIS
NG INVESTMENT No.	FIGURE No.	20897	84
DRAWING No.	SCALE	1:1250	TEP
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Key

2.2 nT
-2.0

- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies



0 50m
Scale 1:1250 @ A3

A	19/09/2013	ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

Title
NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT

ADDITIONAL SURVEY AREAS
SEPTEMBER 2013

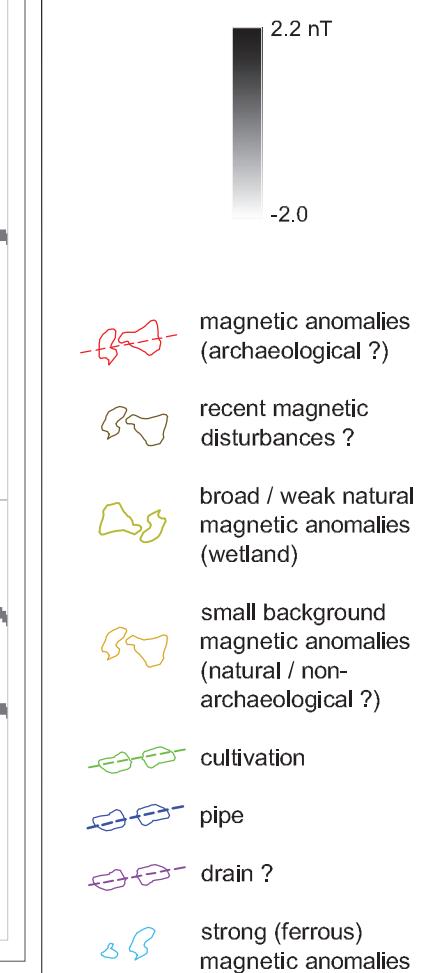
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SURVEY: PART 4

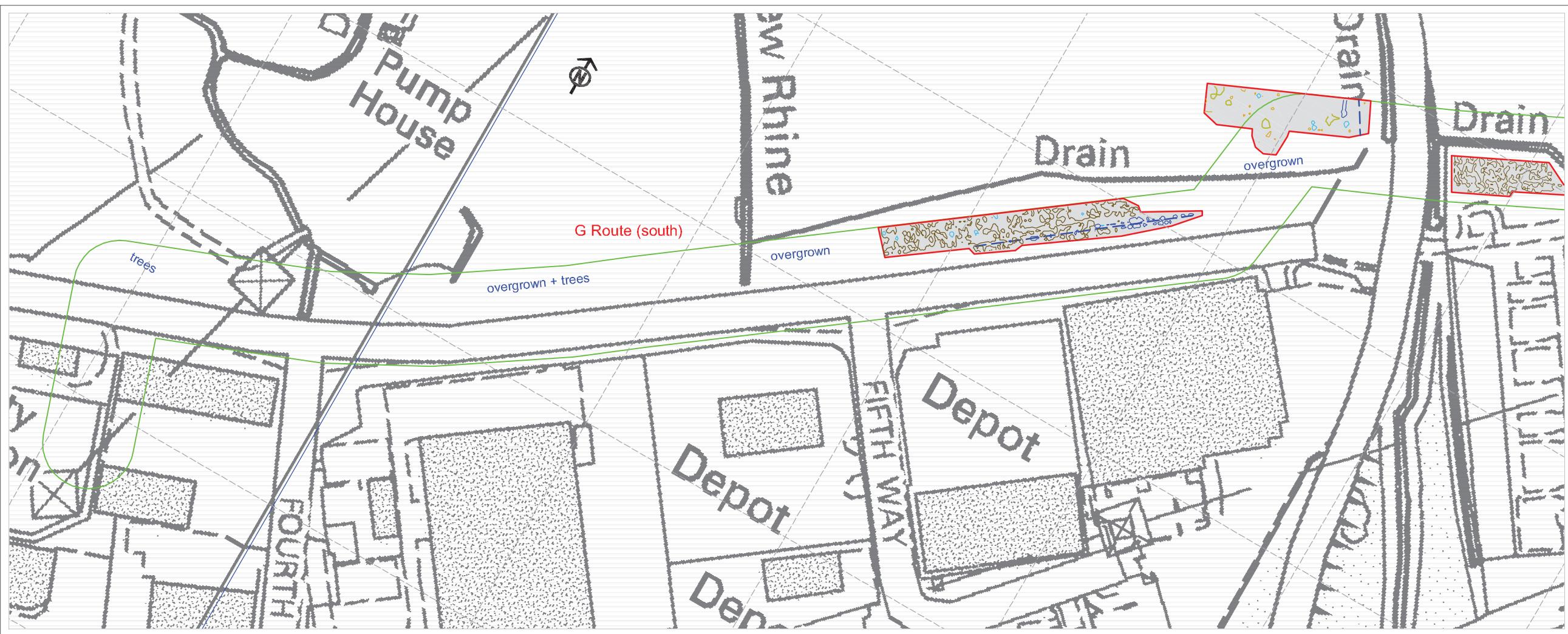
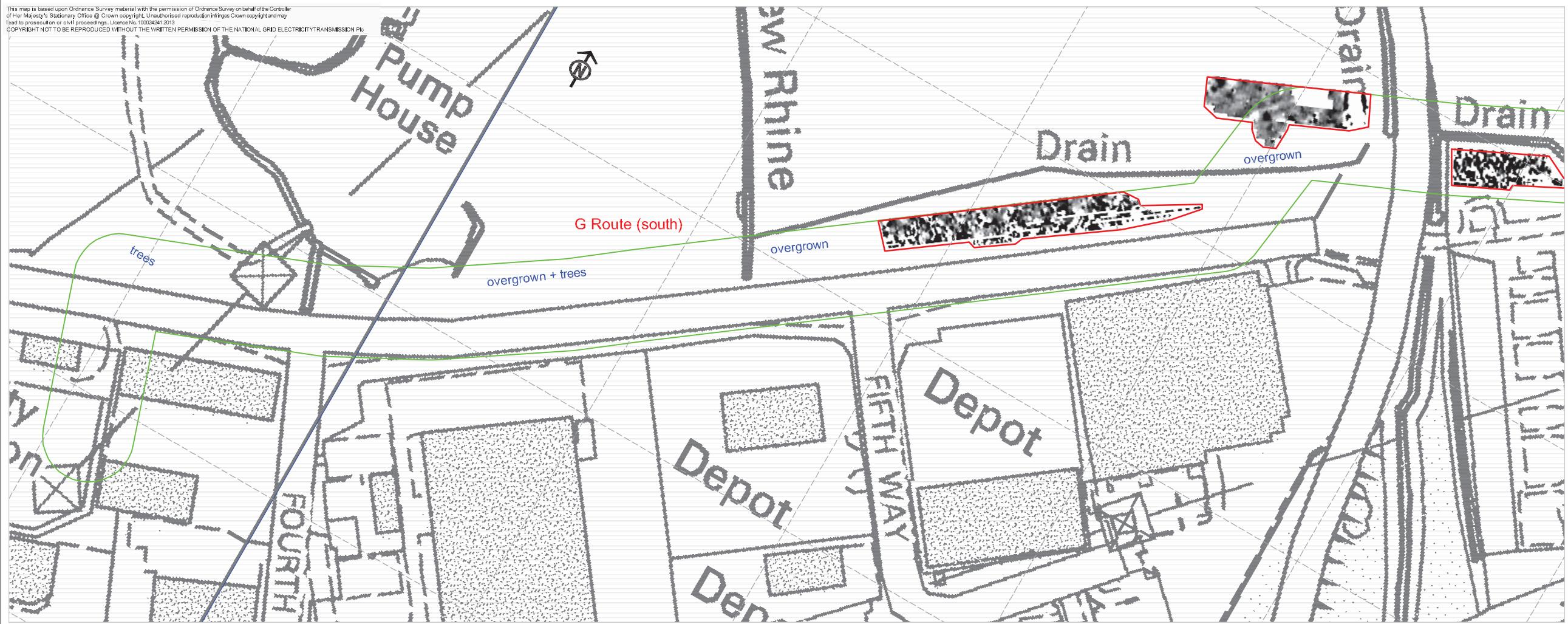
Magnetometer survey
(grey scale plot)
and interpretation

oxford archaeology
Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES
NG INVESTMENT No. 20897 FIGURE No. 85 GIS A3
TEP
DRAWING No. SCAL 1:1250
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Key





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Key



-  magnetic anomalies
(archaeological ?)
-  recent magnetic
disturbances ?
-  broad / weak natural
magnetic anomalies
(wetland)
-  small background
magnetic anomalies
(natural / non-
archaeological ?)
-  cultivation
-  pipe
-  drain ?
-  strong (ferrous)
magnetic anomalies

0 100m
Scale 1:2000 @ A3

A	19/06/2013			

Title **NATIONAL GRID
(HINKLEY C PROJECT)
ENVIRONMENTAL STATEMENT**

**ADDITIONAL SURVEY AREAS
SEPTEMBER 2013**

ARCHAEOLOGICAL GEOPHYSICAL SURVEY - PAGE 4

Magnetometer survey (grey scale plot) and interpretation

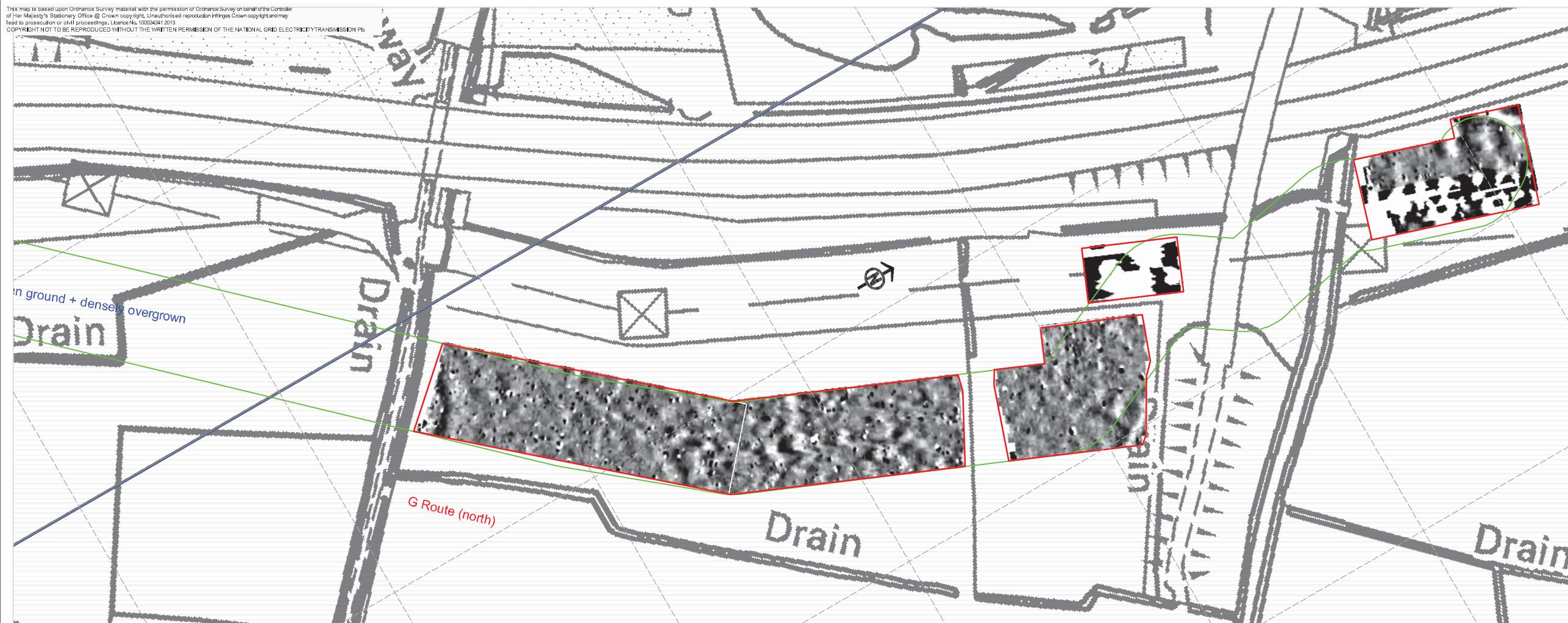


Journal of Roman Archaeology, Janus House, Osney Mead, Oxford

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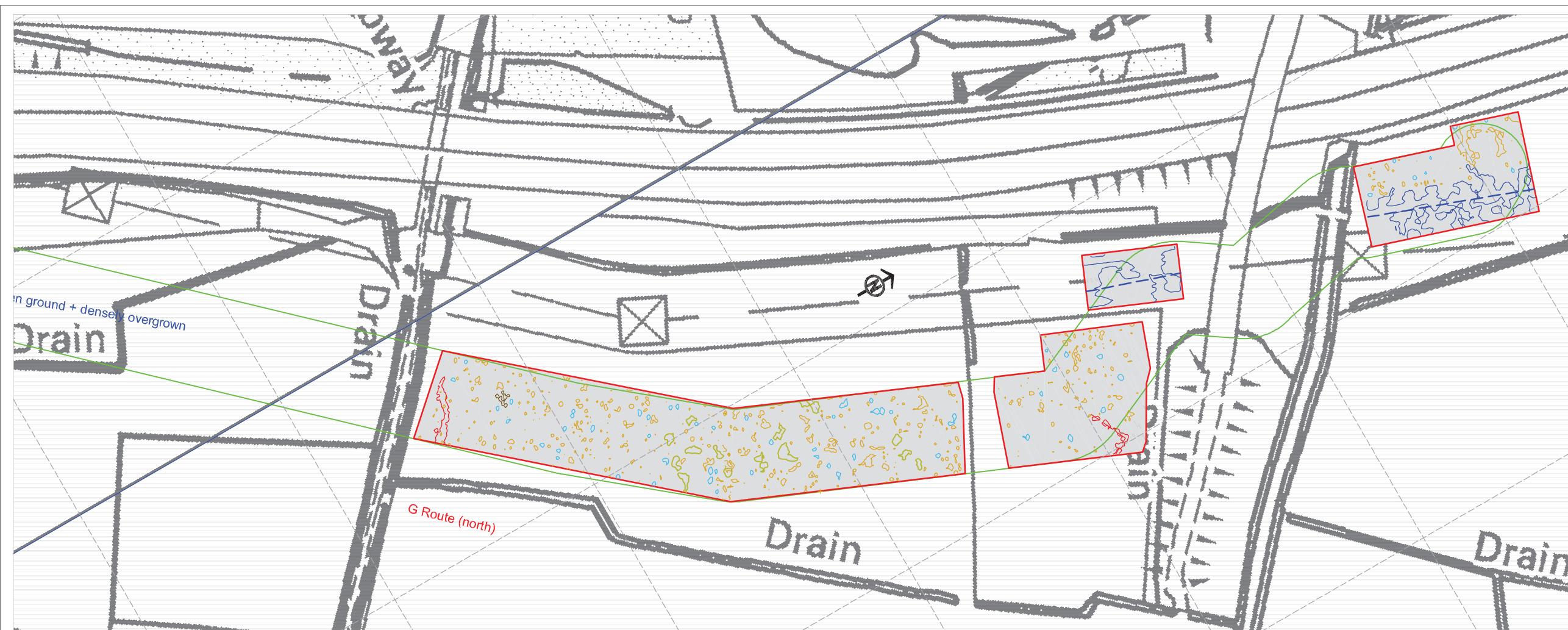
20897 88 TEP A3
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Key

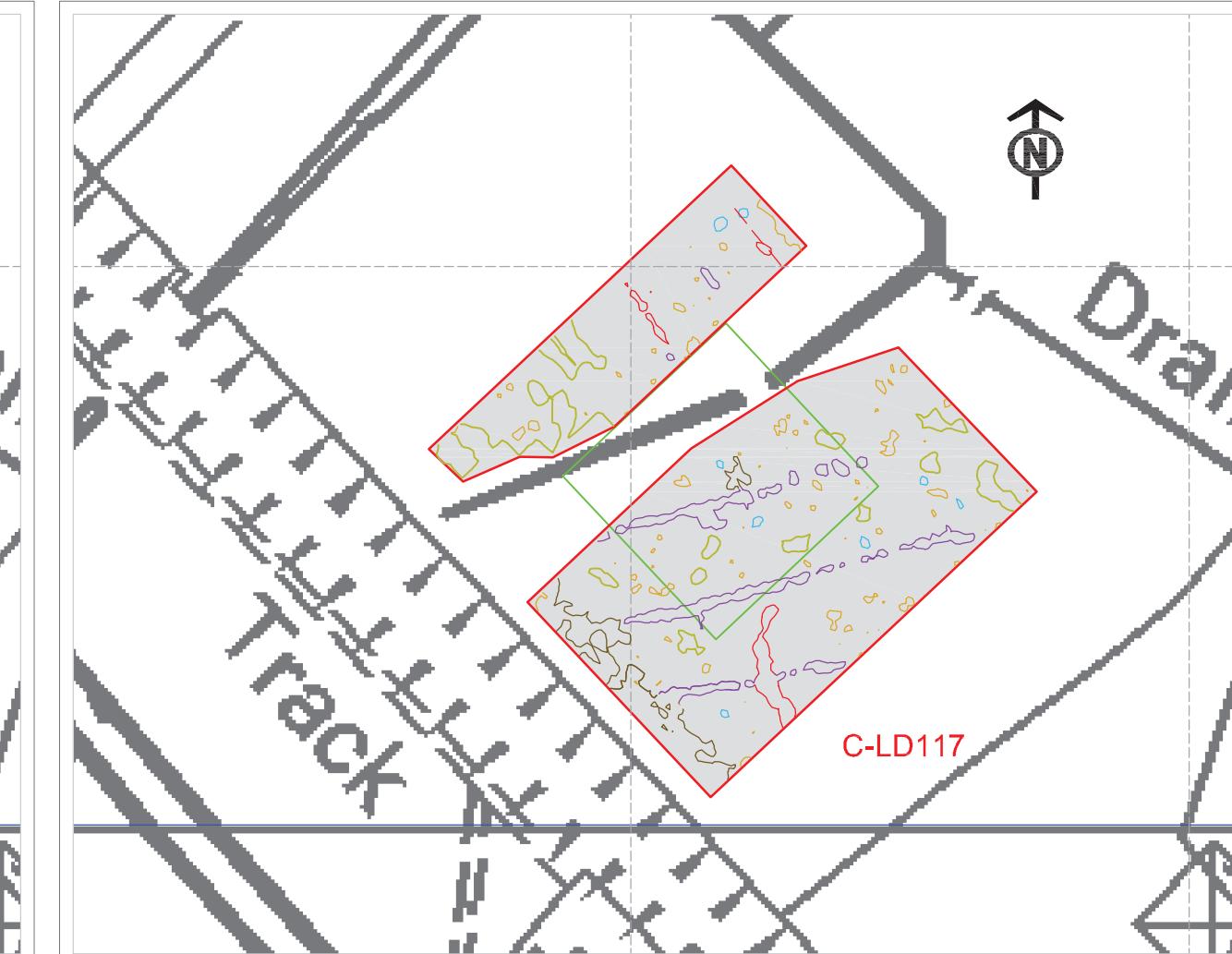
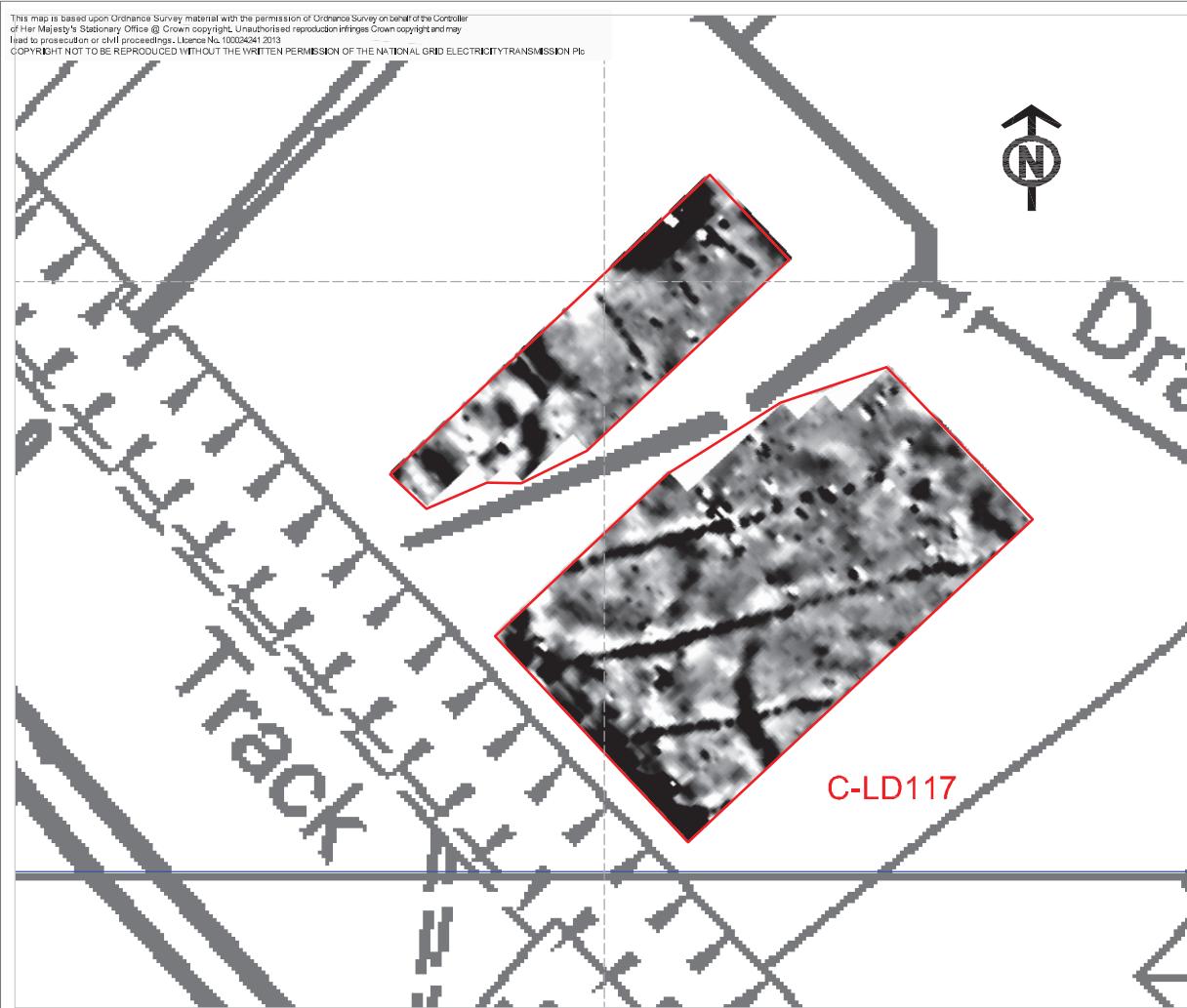
- 2.2 nT
- 2.0
- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies



0 100m
Scale 1:2000 @ A3

A	19/09/2013	ISSUE	DATE	COMMENTS	DRAW	CHKD	APPD

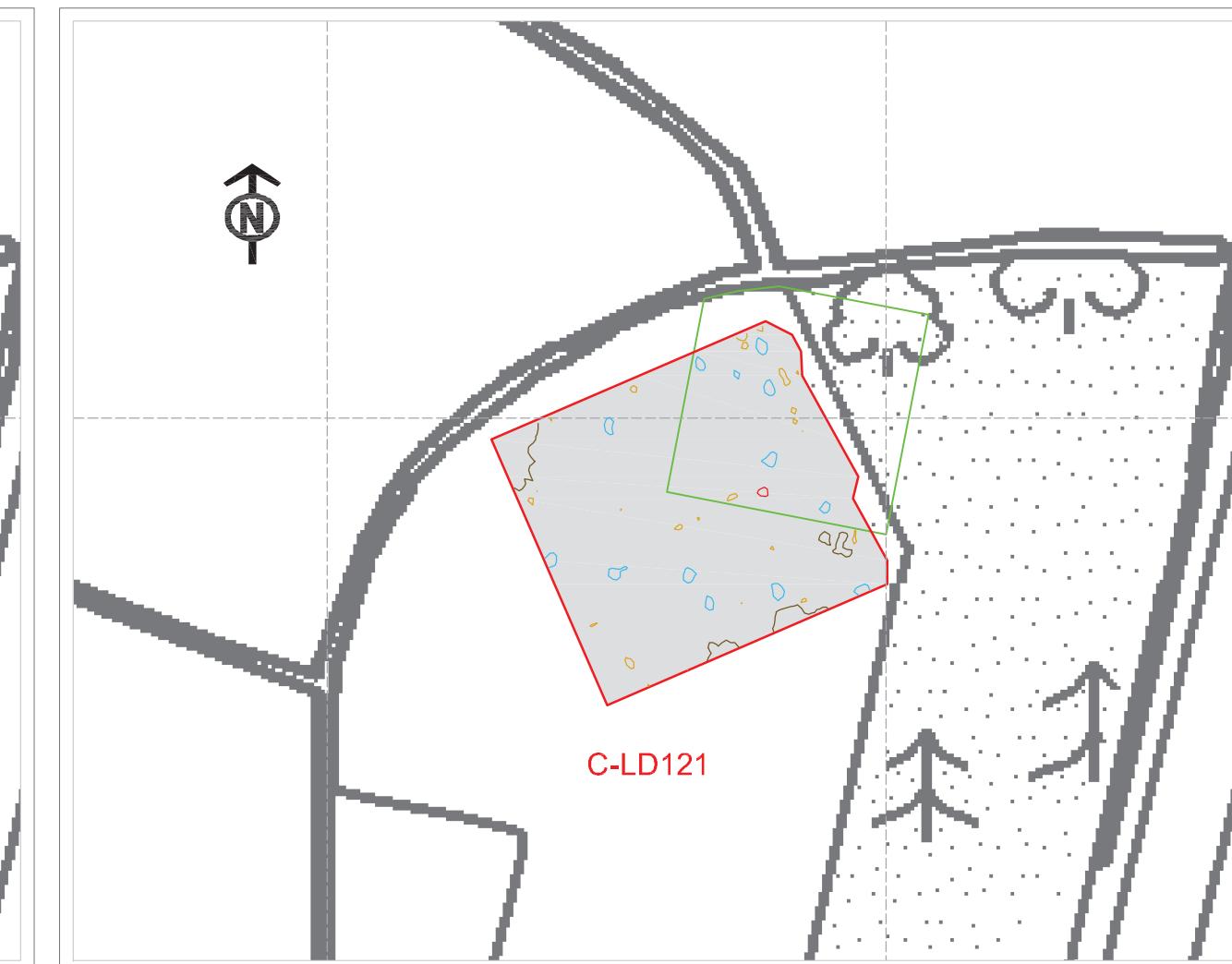
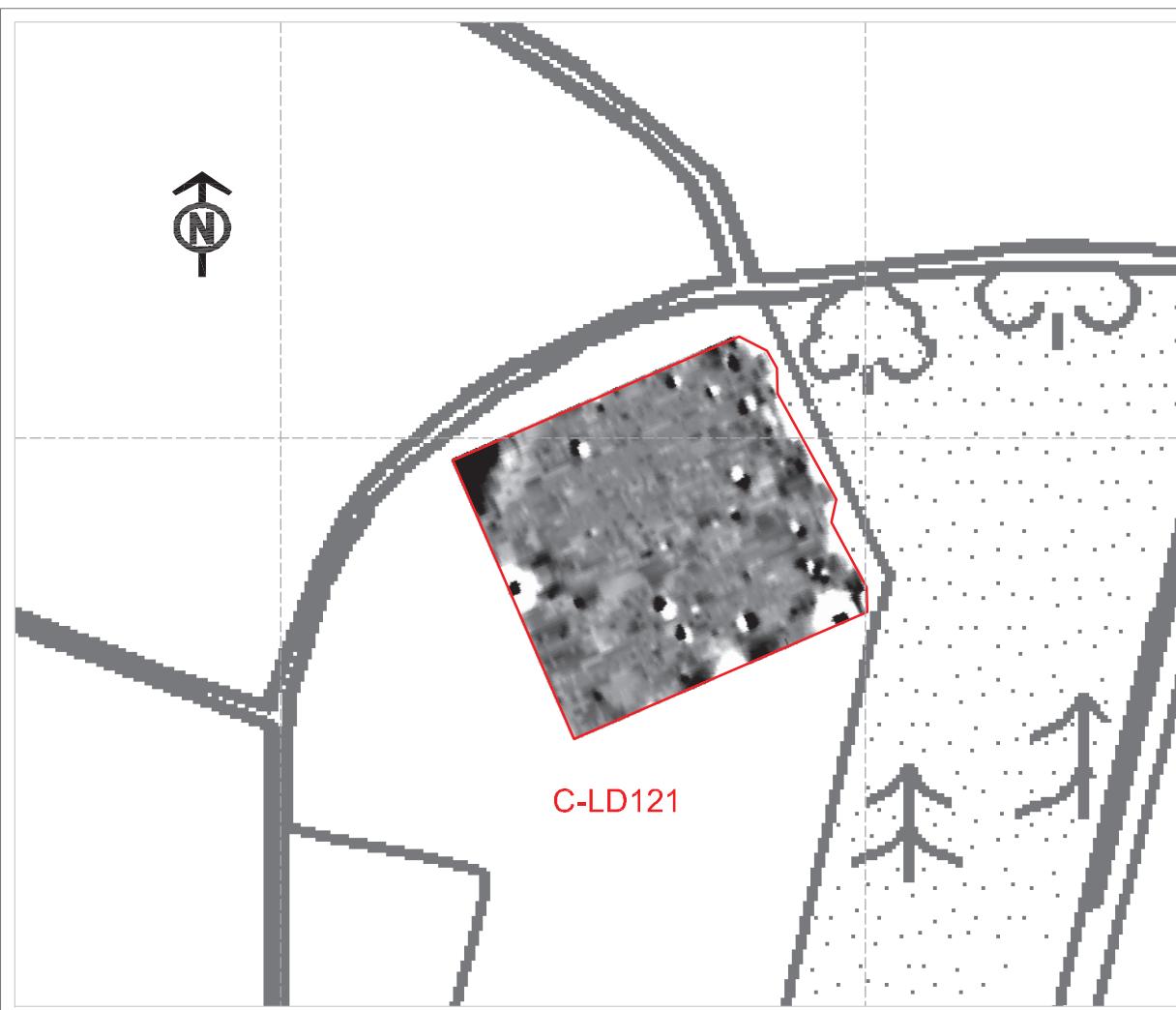
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Magnetometer survey (grey scale plot) and interpretation							
 Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES							
NG INVESTMENT No.	FIGURE No.	GIS					
20897	89	A3		TEP			
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Key

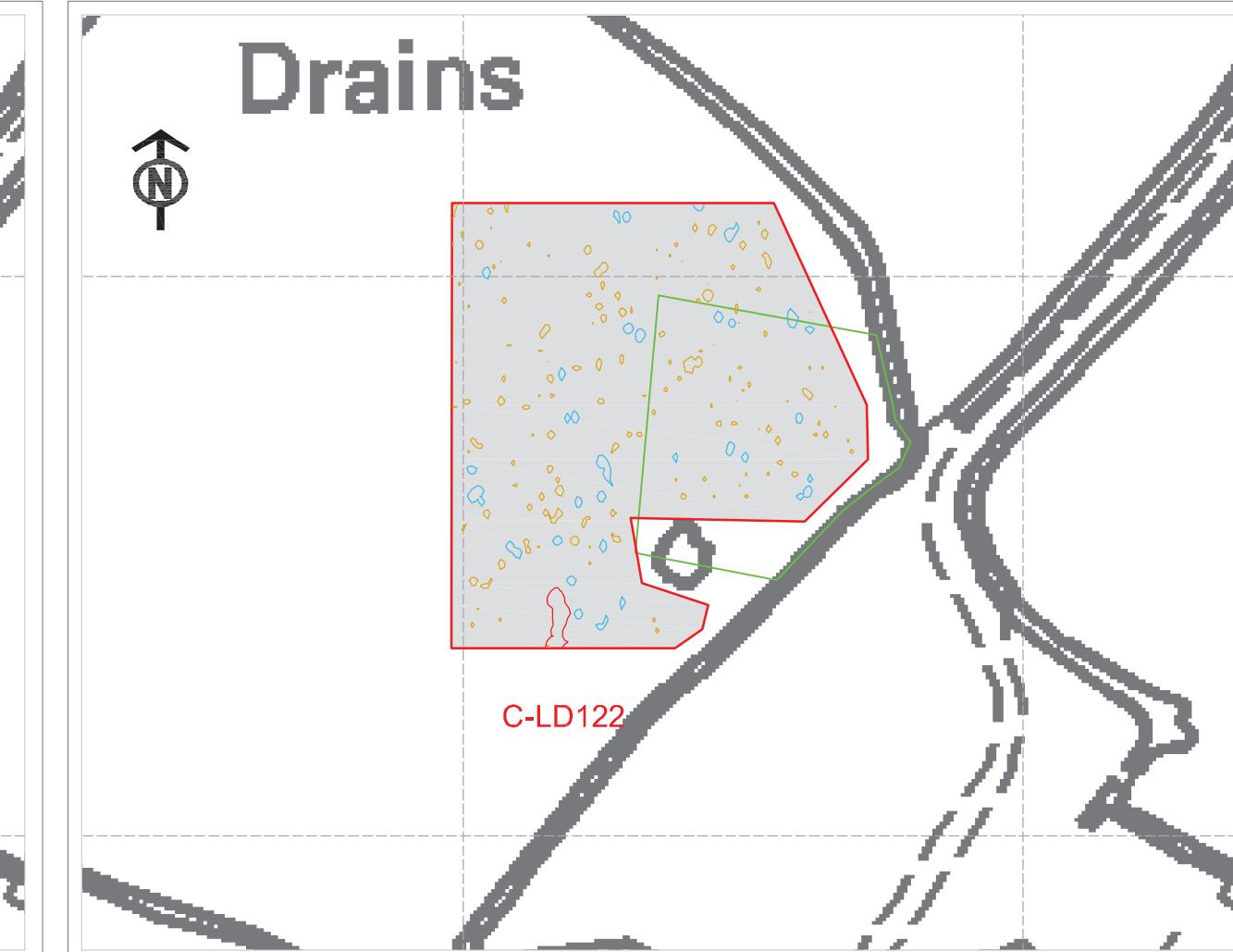
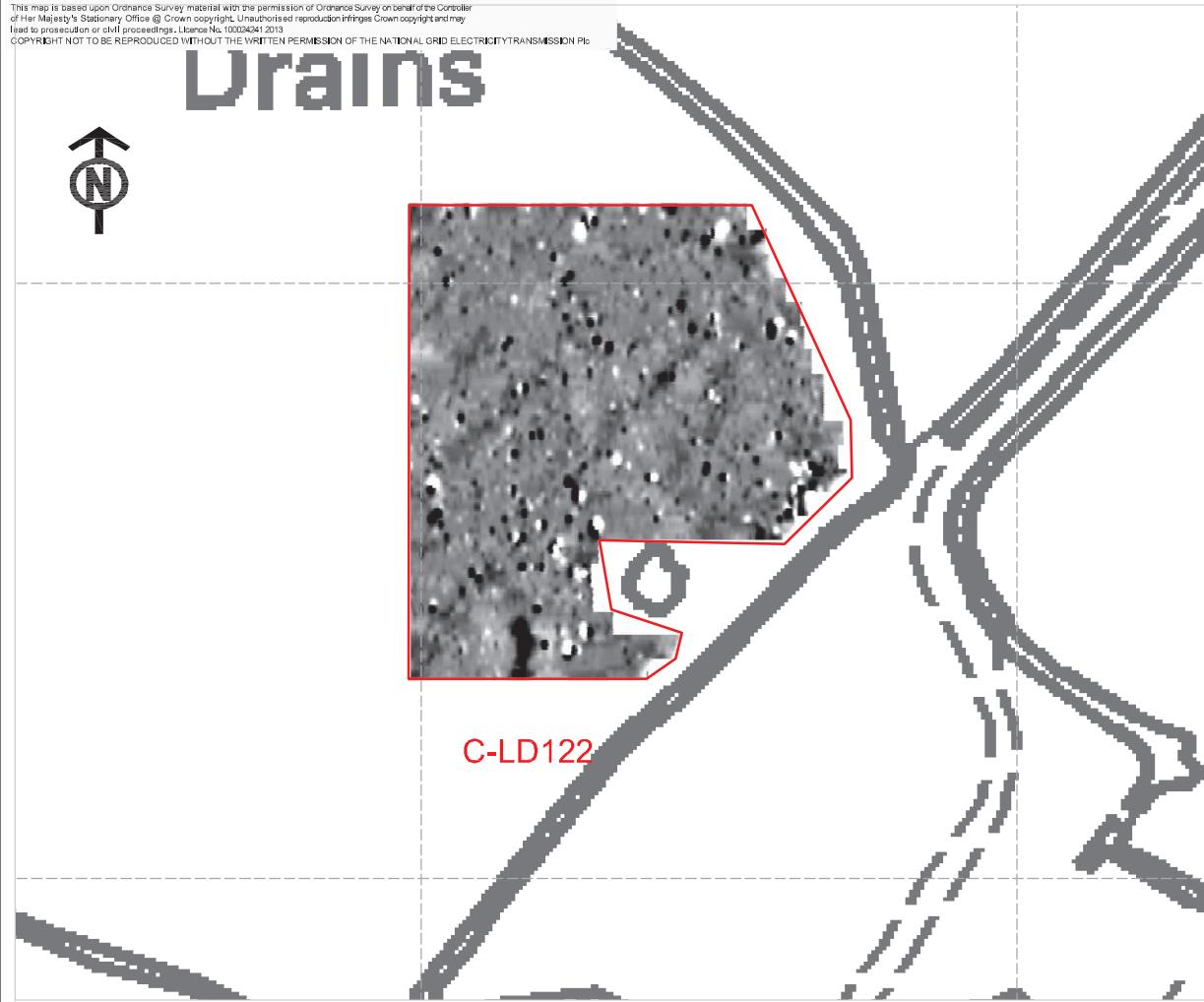


- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies



0 50m
Scale 1:1250 @ A3

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ADDITIONAL SURVEY AREAS SEPTEMBER 2013							
ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4							
Magnetometer survey (grey scale plot) and interpretation							
 Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES							
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Magnetometer survey (grey scale plot) and interpretation							
 Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES							
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Key



0 100m
Scale 1:2000 @ A3

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ARCHAEOLOGICAL GEOPHYSICAL
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Magnetometer survey:
(grey scale plot)



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20897	92	A3
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Key

-  magnetic anomalies
(archaeological ?)
-  recent magnetic
disturbances ?
-  broad / weak natural
magnetic anomalies
(wetland)
-  small background
magnetic anomalies
(natural / non-
archaeological ?)
-  cultivation
-  pipe
-  drain ?
-  strong (ferrous)
magnetic anomalies

0 100m
Scale 1:2000 @ A3

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**ADDITIONAL SURVEY AREAS
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Magnetometer survey: interpretation



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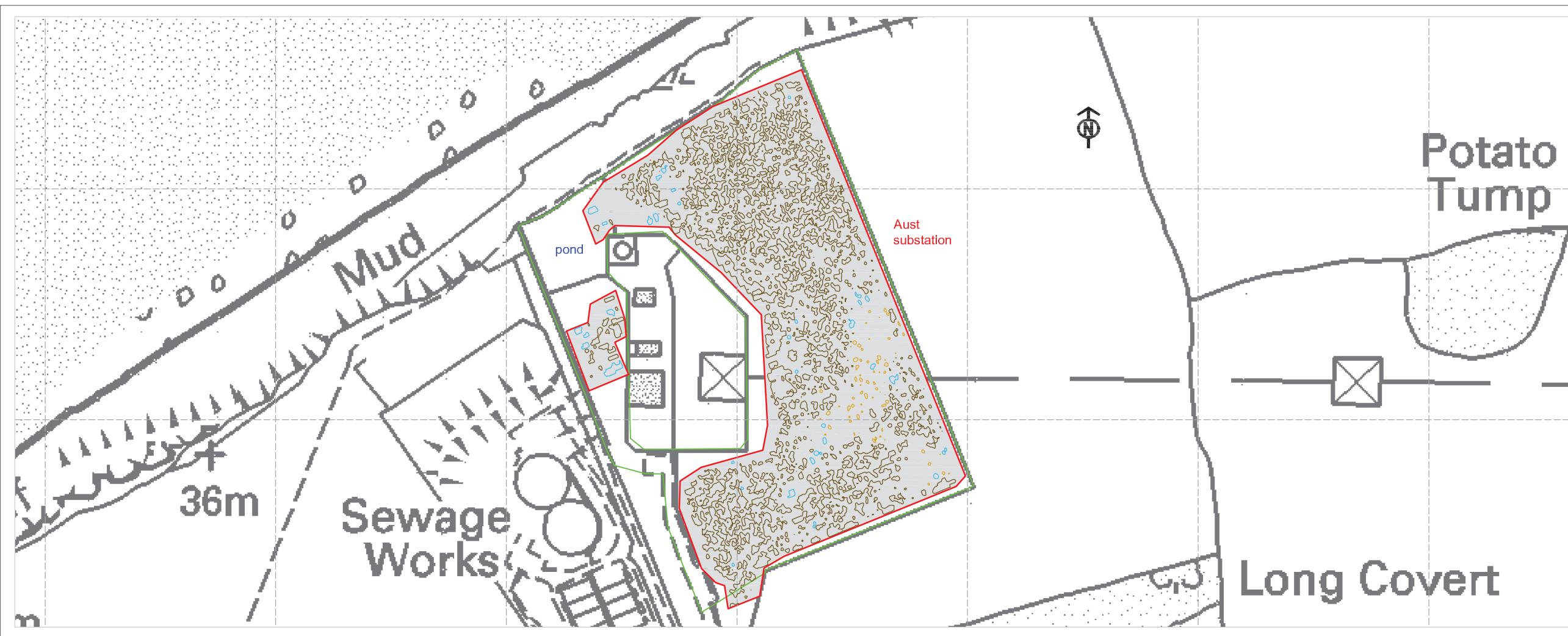
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Key

2.2 nT
-2.0

- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies



0 100m
Scale 1:2000 @ A3

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(HINKLEY C PROJECT)
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SEPTEMBER 2013

ARCHAEOLOGICAL GEOPHYSICAL
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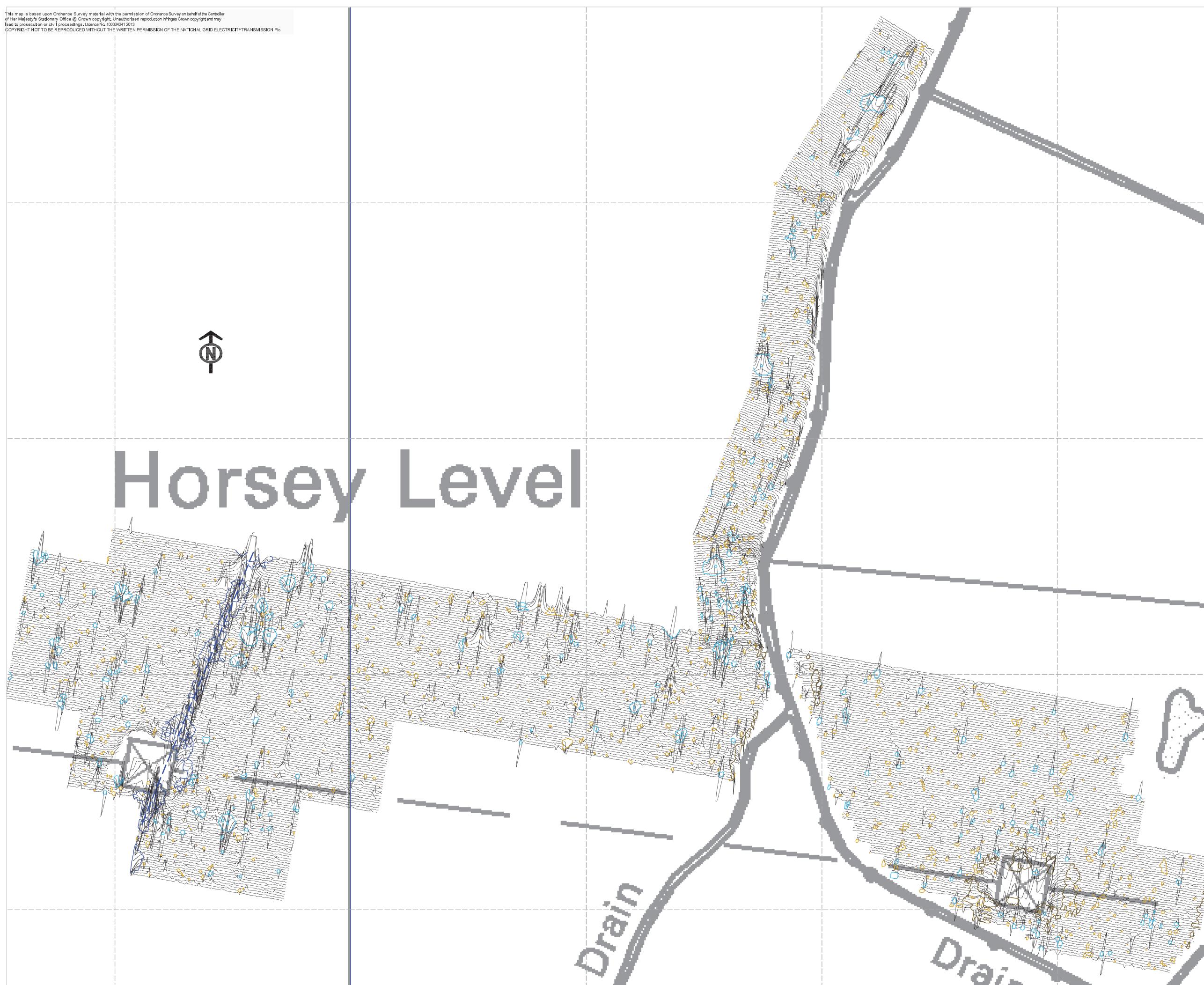
Magnetometer survey
(grey scale plot)
and interpretation

oxford archaeology
Oxford Archaeology, James House, Dansey Mead, Oxford OX2 0ES

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Key

50 nT

 magnetic anomalies (archaeological ?)

 recent magnetic disturbances ?

 broad / weak natural magnetic anomalies (wetland)

 small background magnetic anomalies (natural / non-archaeological ?)

 cultivation

 pipe

 drain ?

 strong (ferrous) magnetic anomalies

0 50m

Scale 1:1500 @ A3

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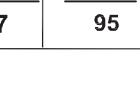
Title

NATIONAL GRID
(HINKLEY C PROJECT)
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**ADDITIONAL SURVEY AREAS
SEPTEMBER 2013**

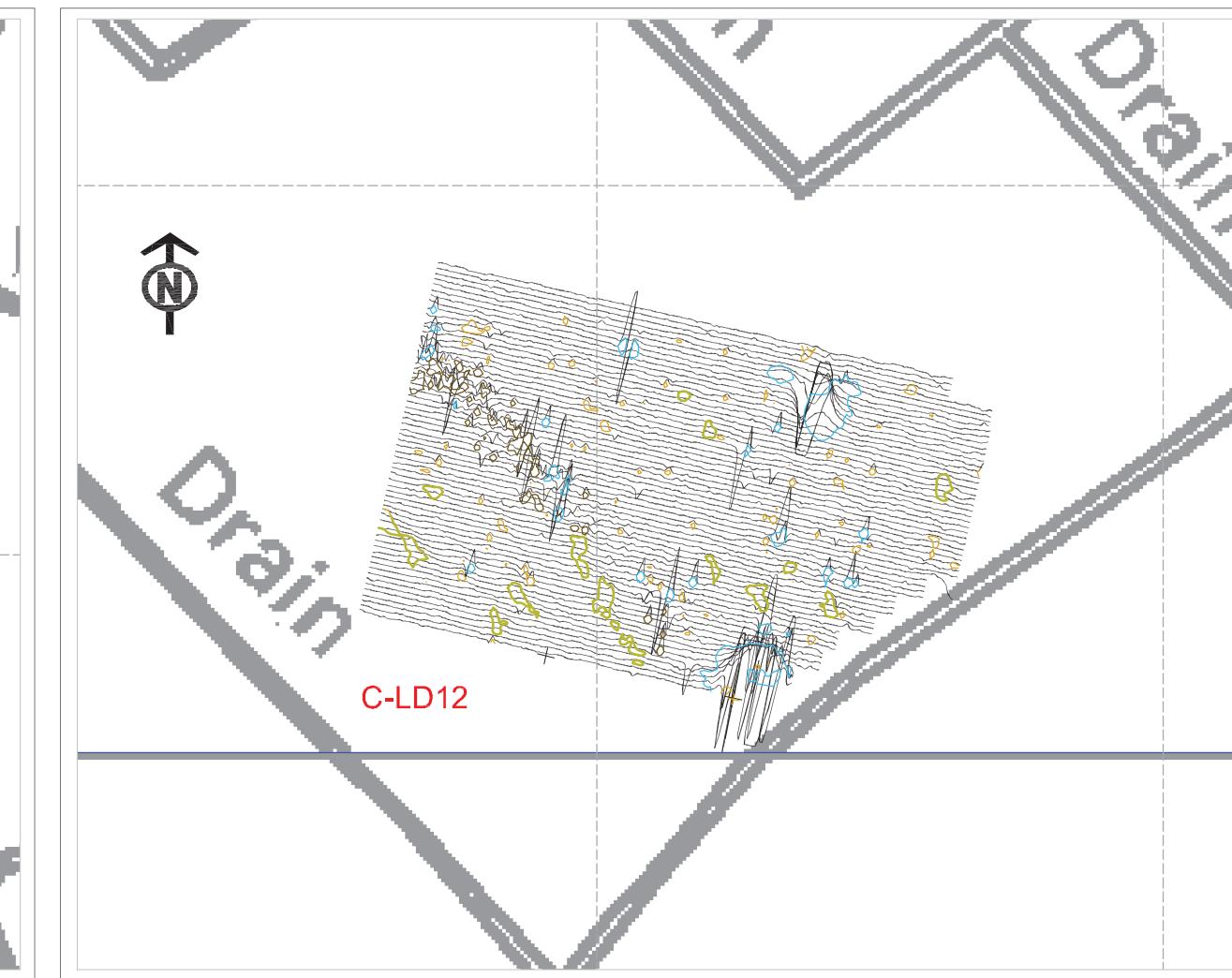
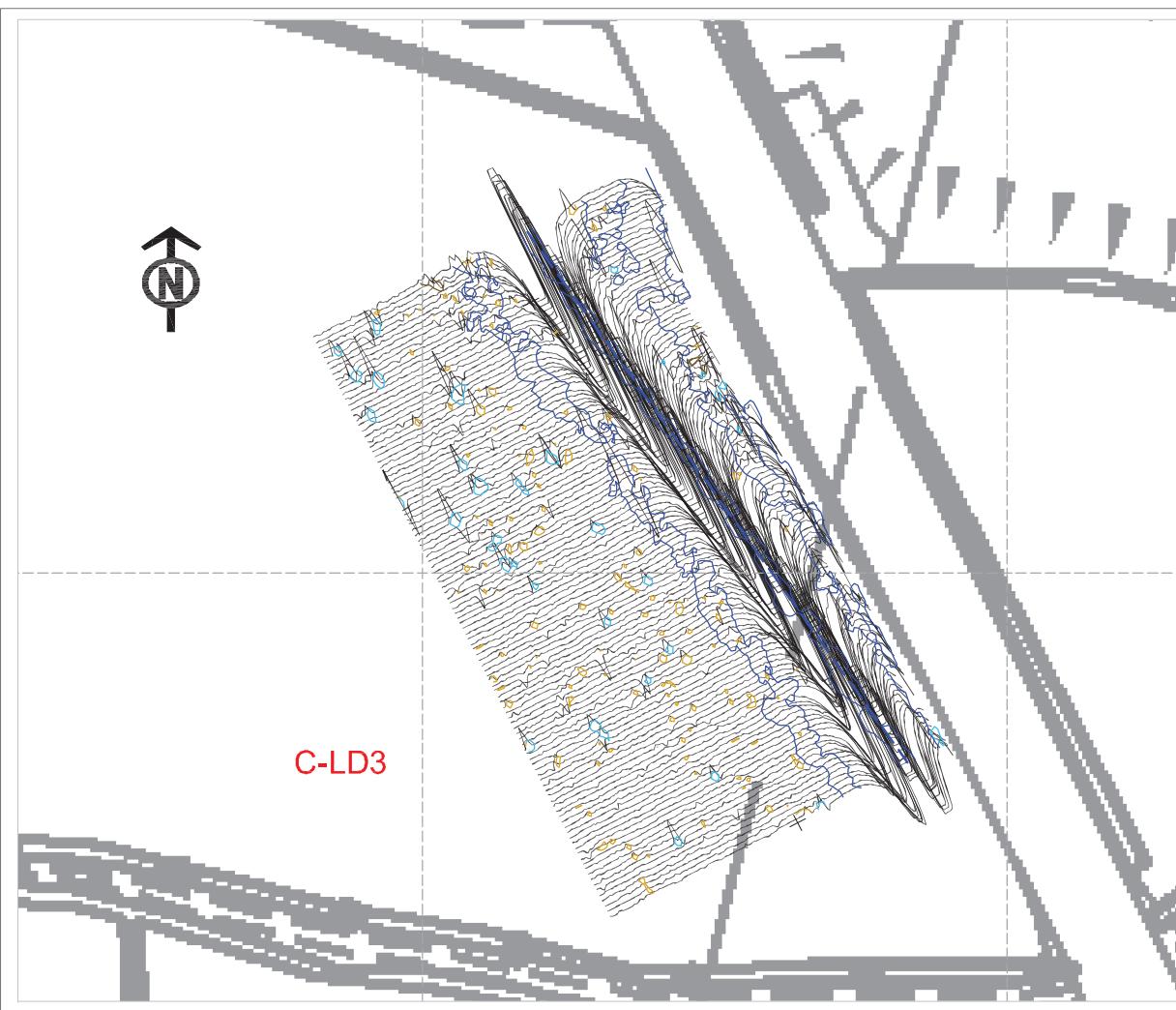
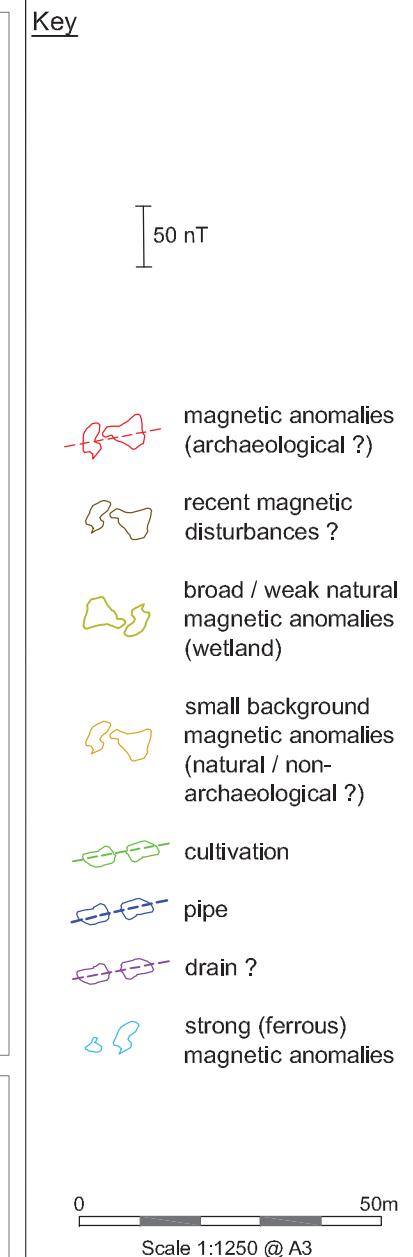
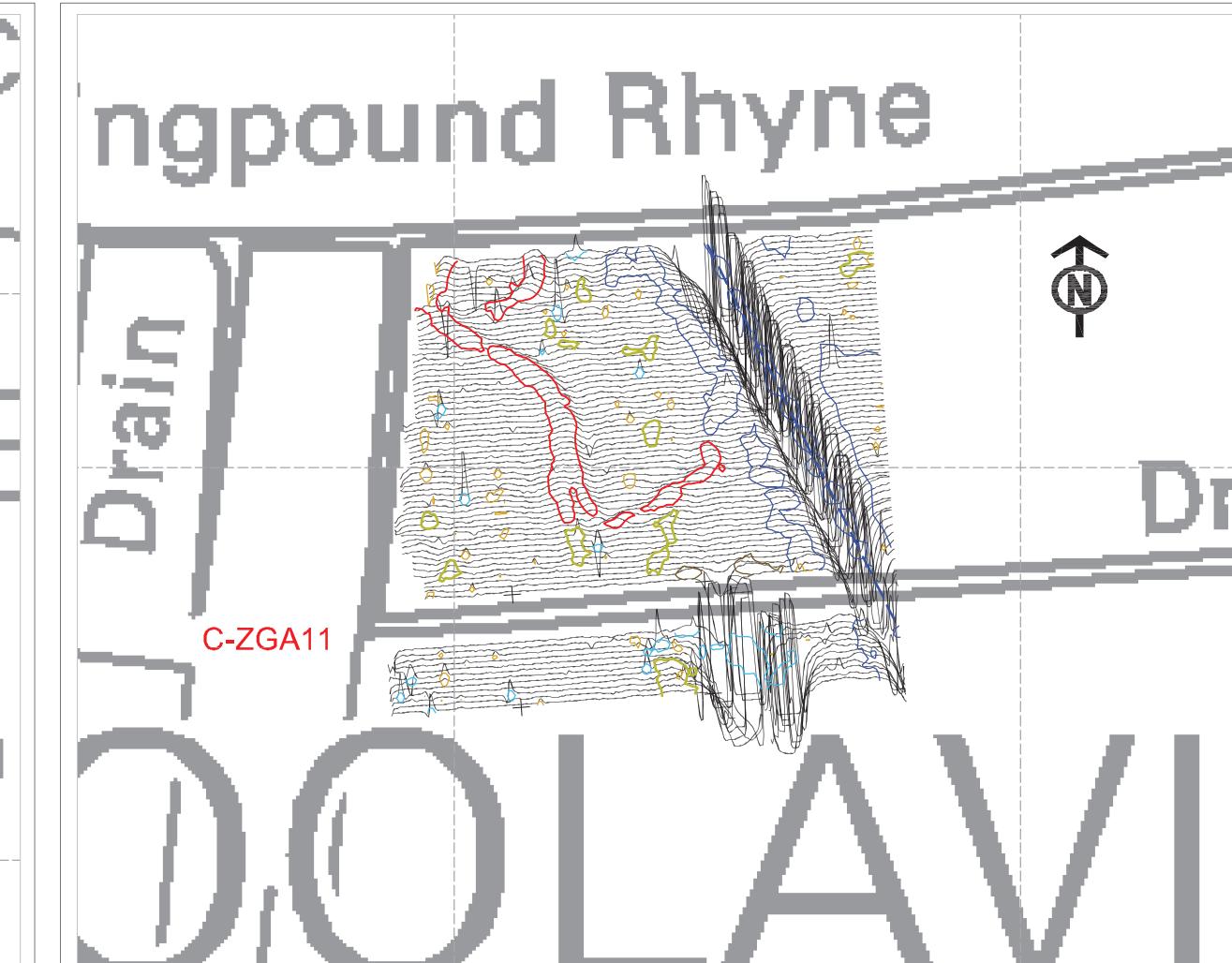
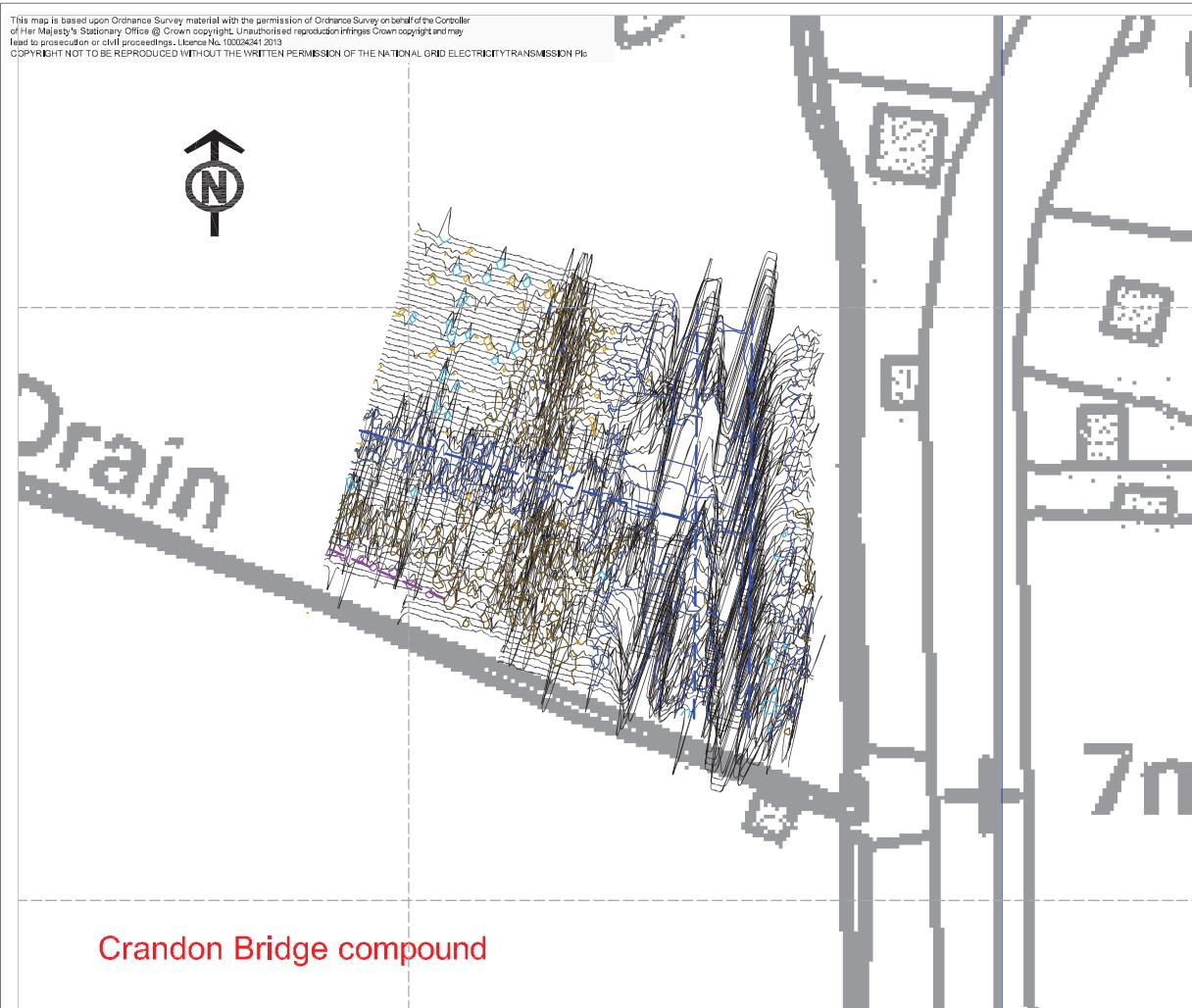
**ARCHAEOLOGICAL GEOPHYSICAL
SURVEY: PART 4**

Magnetometer survey:
graphical plot
with interpretation

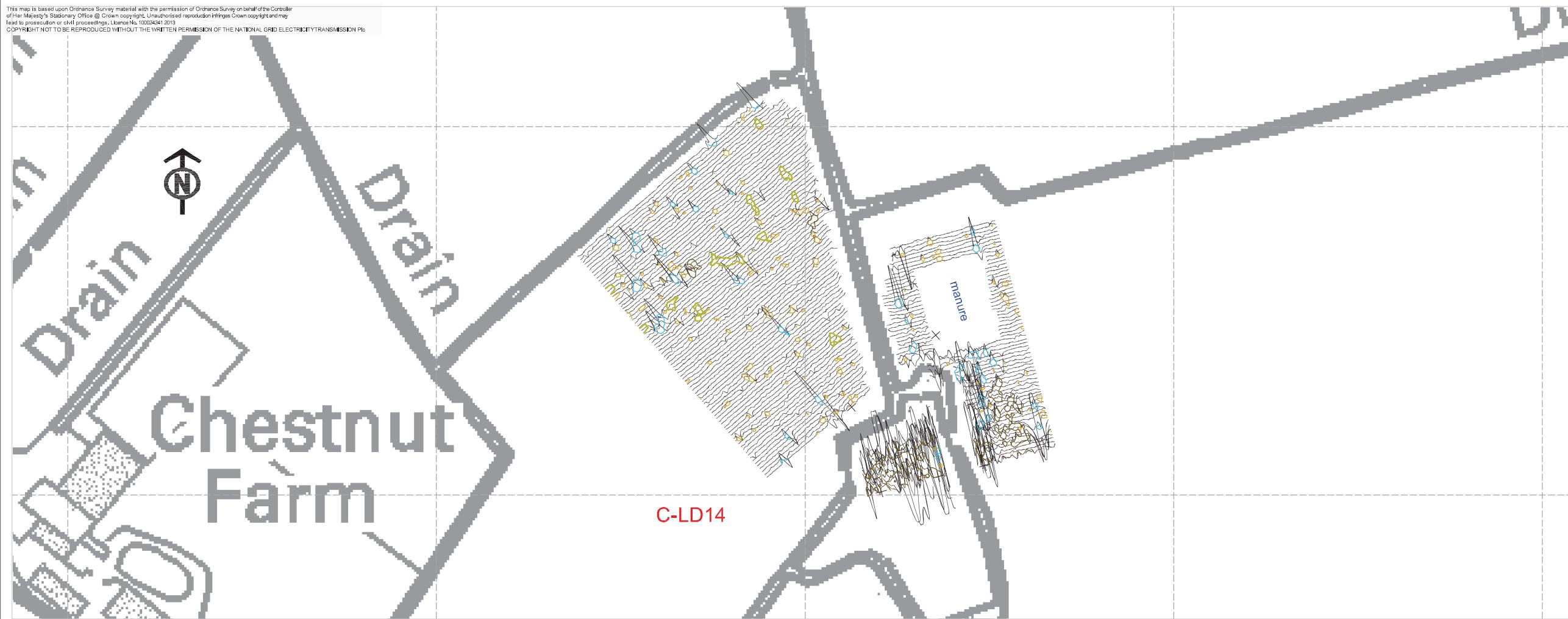


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NG INVESTMENT No.	FIGURE No.	GIS			
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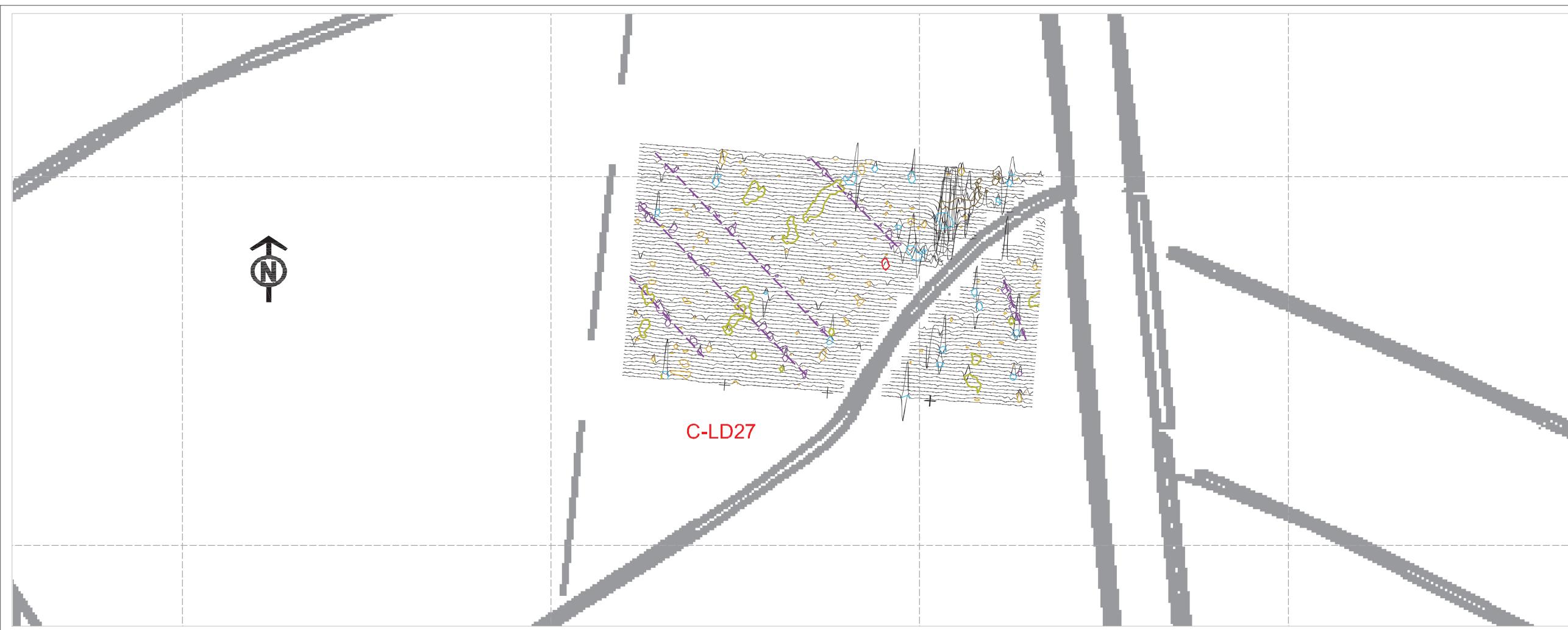


Key

50 nT

- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies

0 50m
Scale 1:1250 @ A3



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Magnetometer survey:
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with interpretation



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Key

50 nT

- magnetic anomalies (archaeological ?)**
- recent magnetic disturbances ?**
- broad / weak natural magnetic anomalies (wetland)**
- small background magnetic anomalies (natural / non-archaeological ?)**
- cultivation**
- pipe**
- drain ?**
- strong (ferrous) magnetic anomalies**

0 50m

Scale 1:1500 @ A3

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NATIONAL GRID
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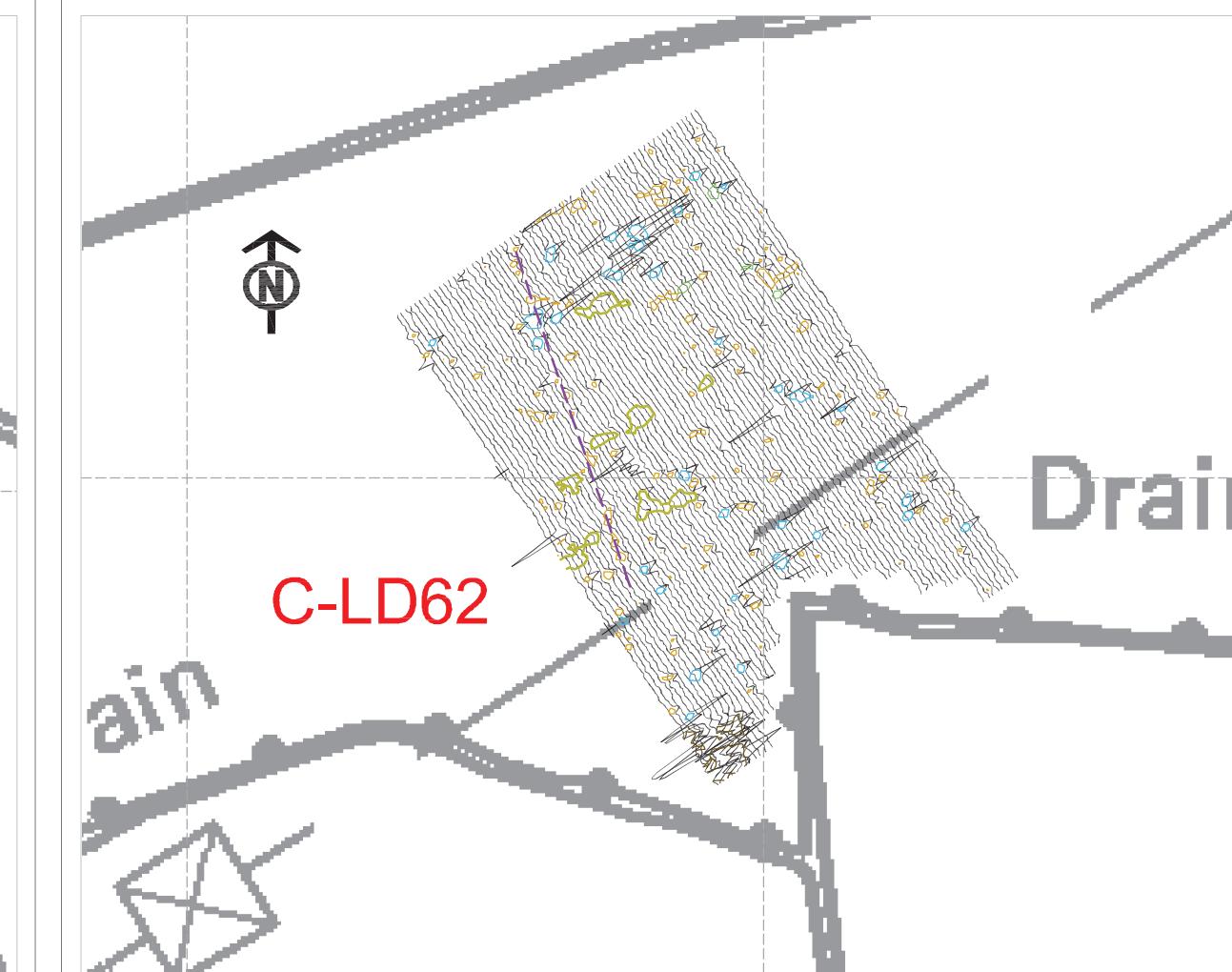
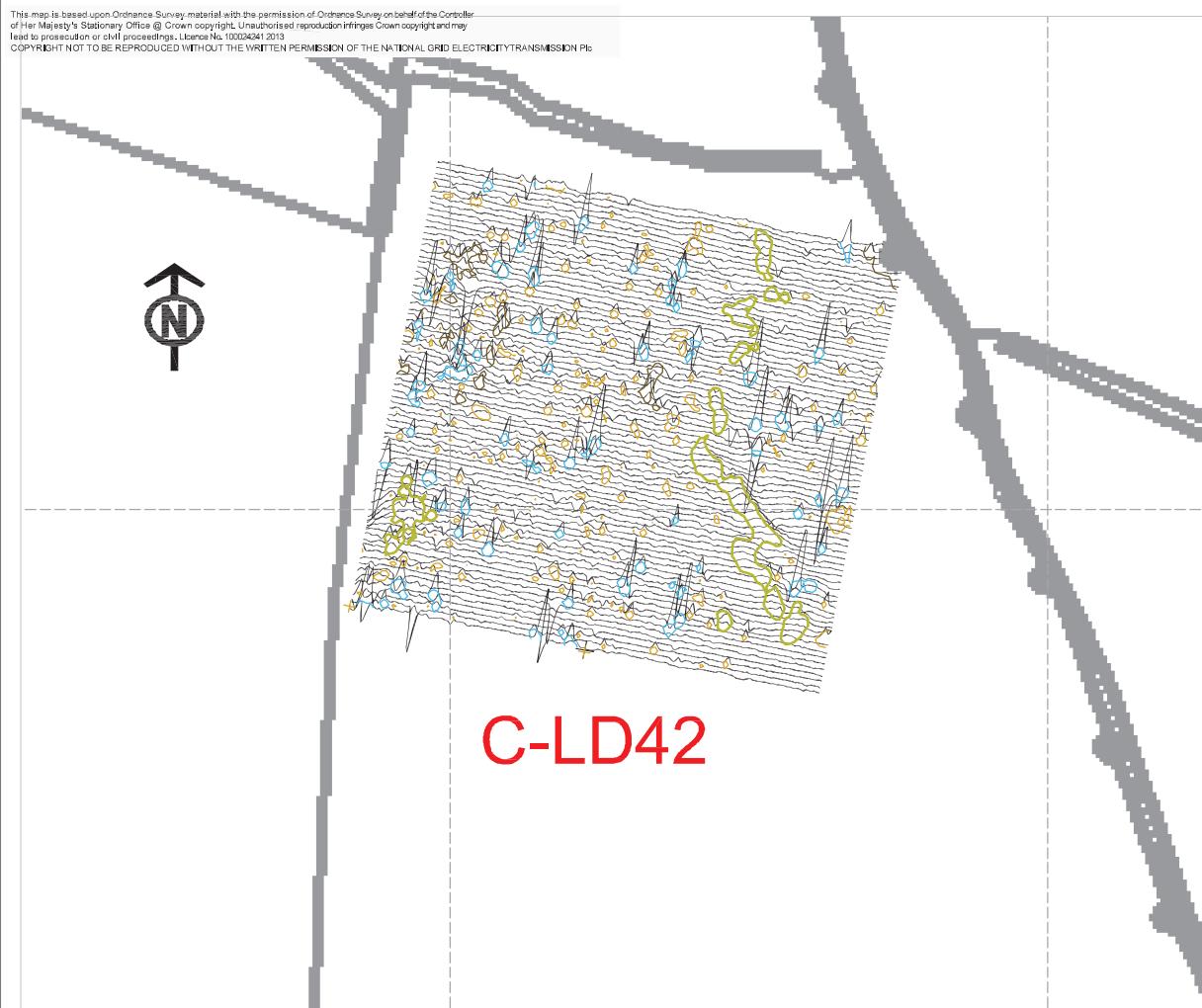
ARCHAEOLOGICAL GEOPHYSICAL
SURVEY: PART 4

Magnetometer survey:
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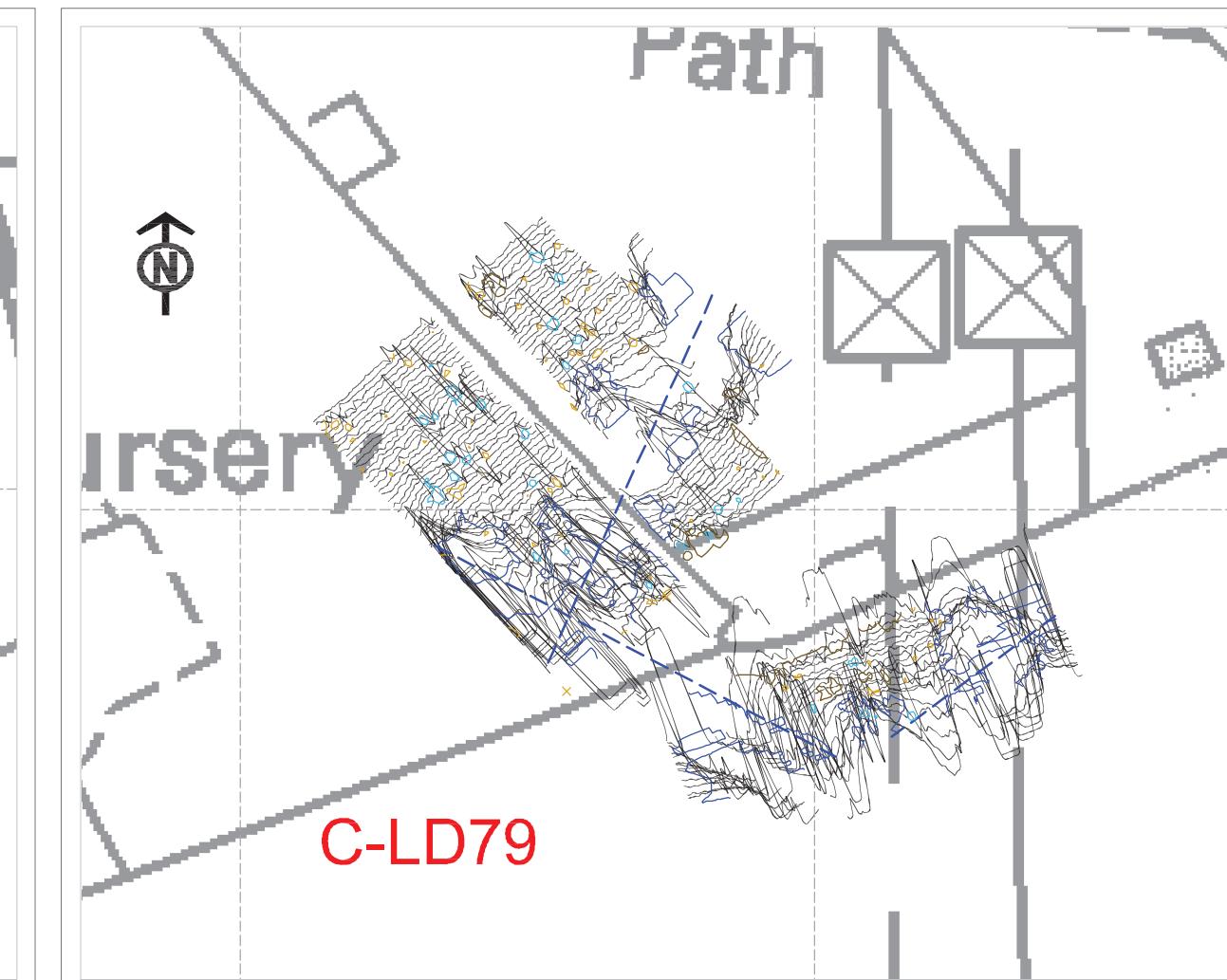
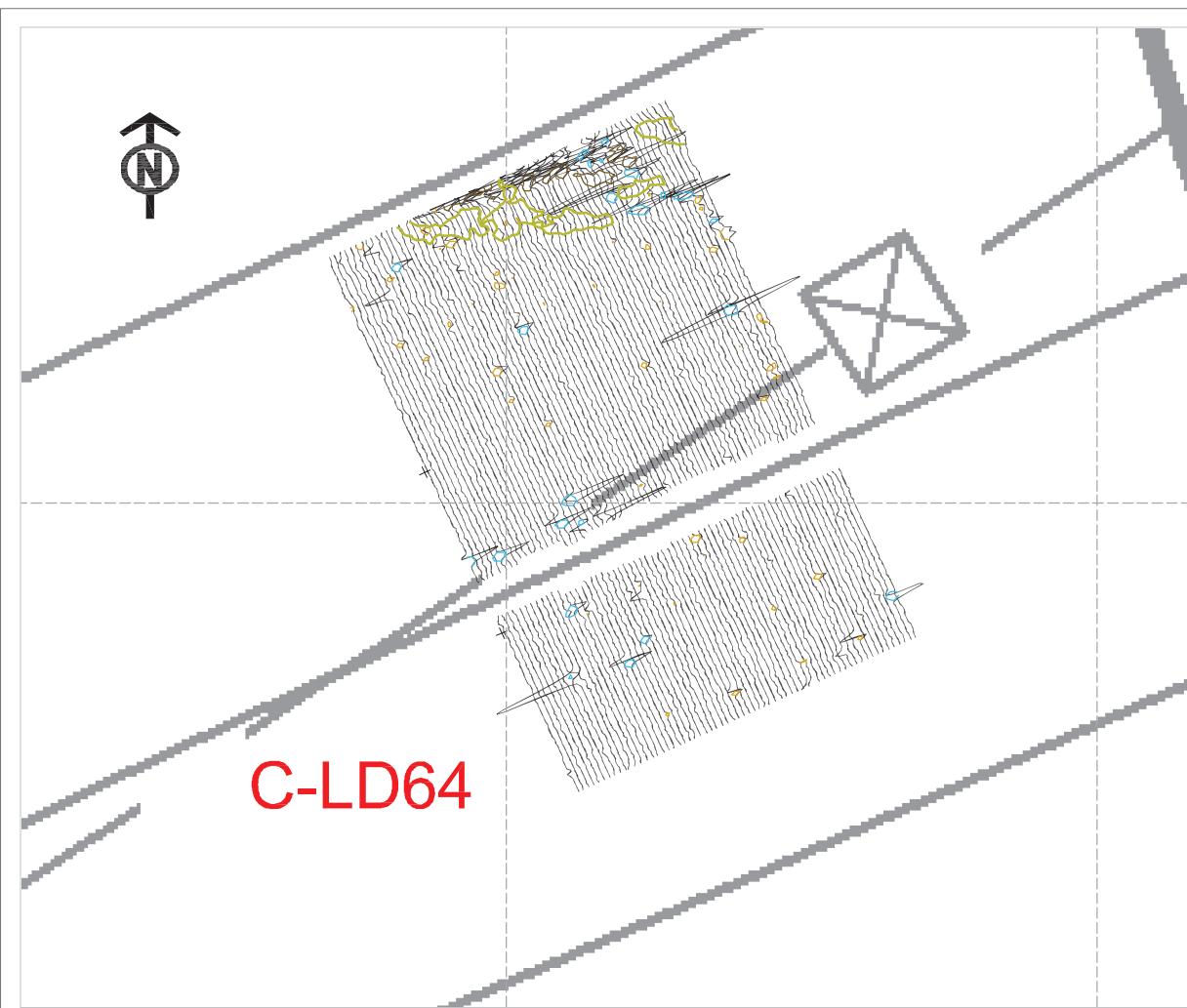
NG INVESTMENT No.	FIGURE No.	GIS
20897	99	TEP A3
DRAWING No.		SCALE 1:1500
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Key

50 nT

- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies



0 50m
Scale 1:1250 @ A3

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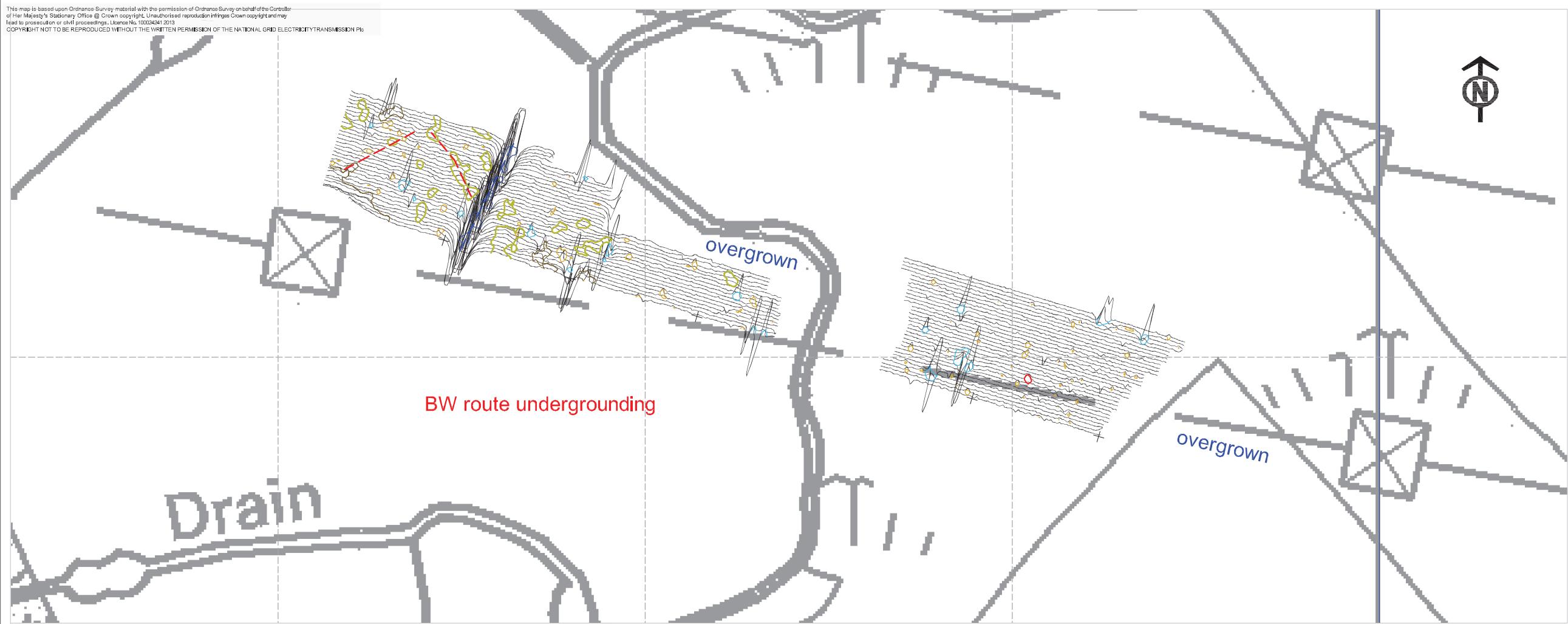
Magnetometer survey:
graphical plot
with interpretation



NG INVESTMENT No. 20897 FIGURE No. 100 GIS A3
DRAWING No. TEP

SCALE 1:1250

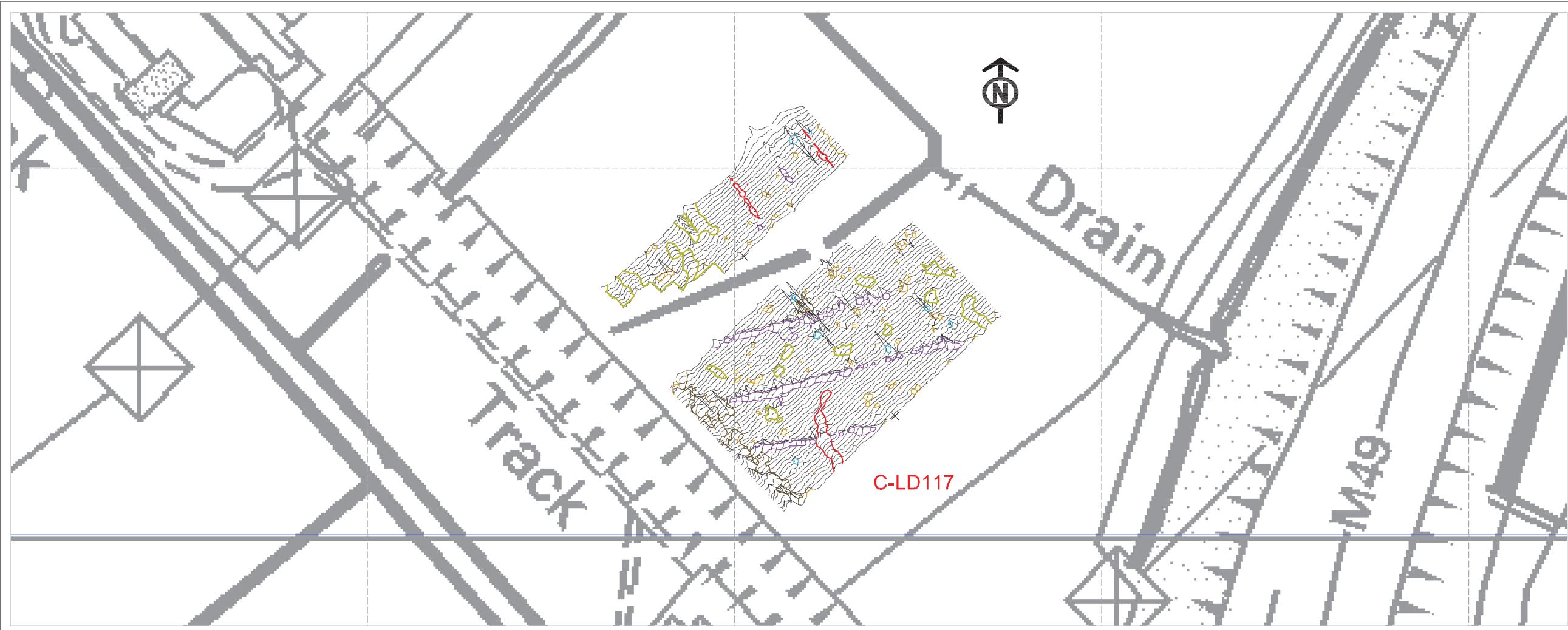
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Key

50 nT

- magnetic anomalies (archaeological ?):** Red dashed lines.
- recent magnetic disturbances ?:** Yellow irregular shapes.
- broad / weak natural magnetic anomalies (wetland):** Yellow wavy lines.
- small background magnetic anomalies (natural / non-archaeological ?):** Small yellow irregular shapes.
- cultivation:** Green wavy lines.
- pipe:** Blue dashed lines.
- drain ?:** Purple dashed lines.
- strong (ferrous) magnetic anomalies:** Blue wavy lines.



0 50m

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graphical plot
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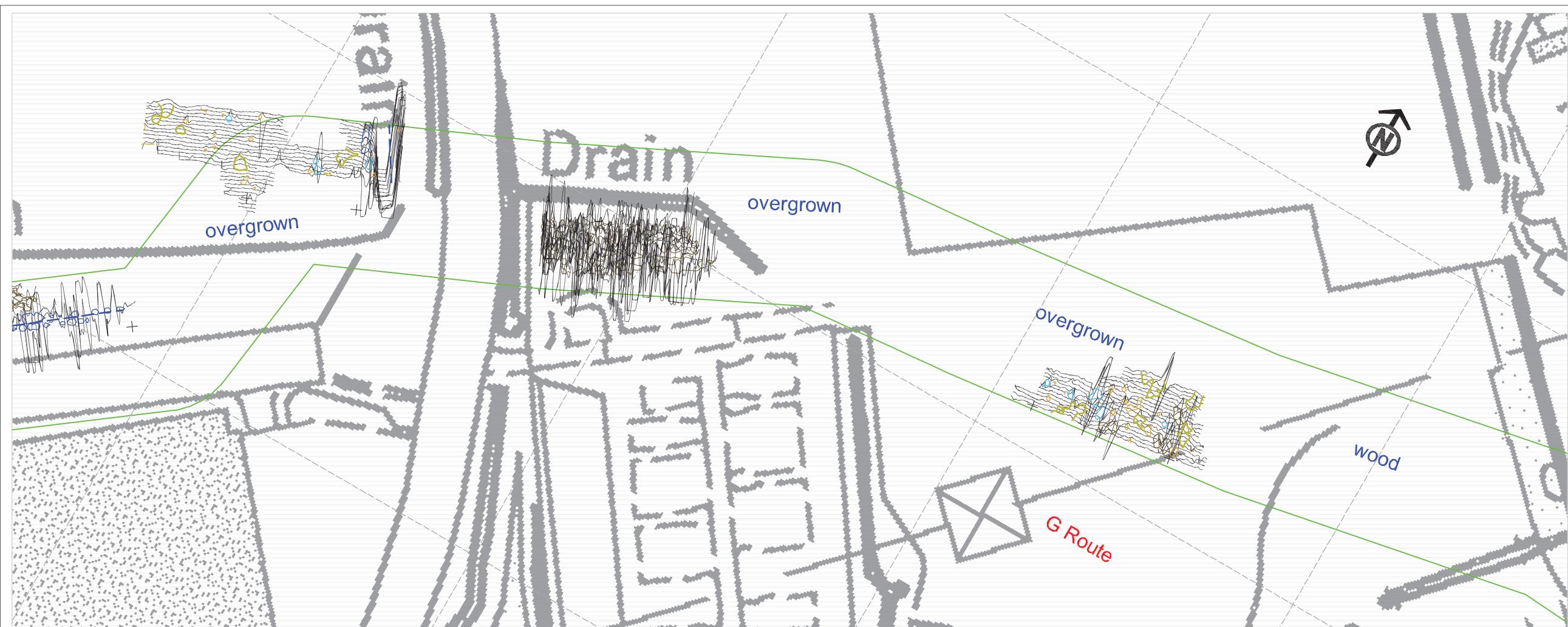
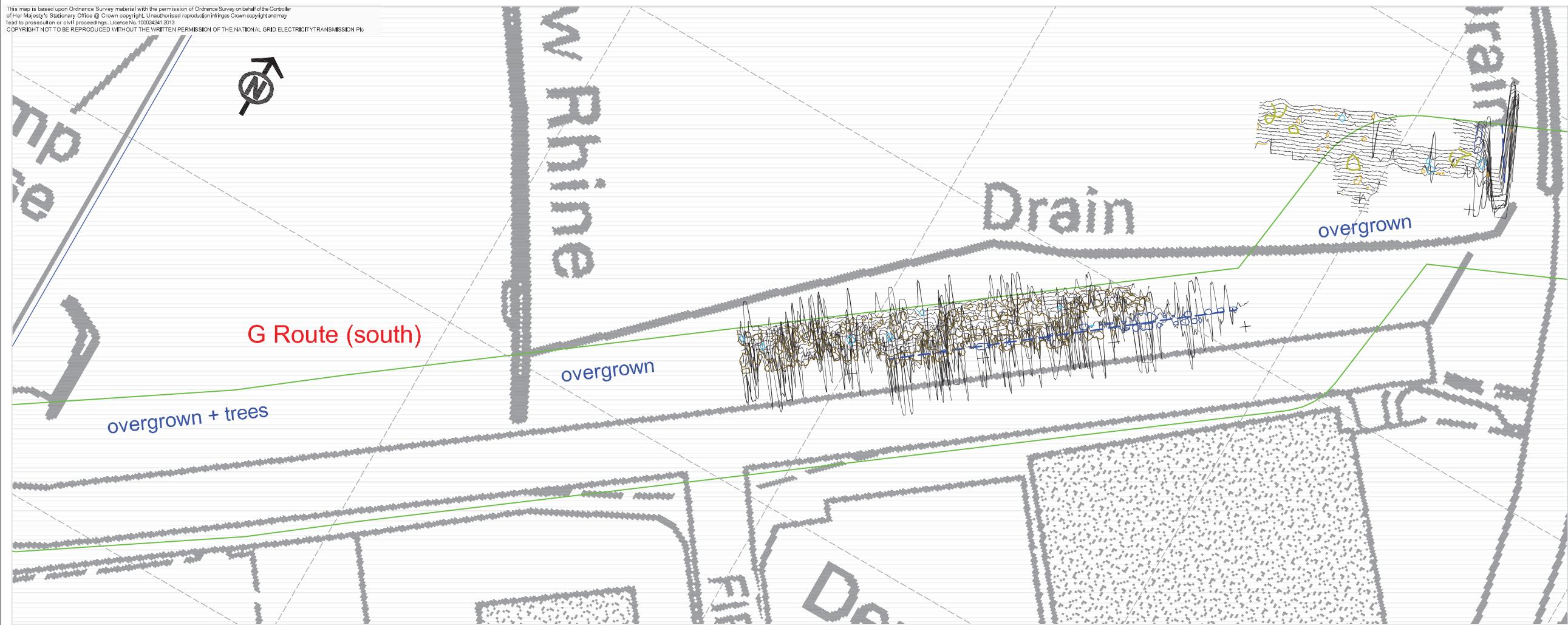
Oxford Archaeology

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Key

50 nT

-  magnetic anomalies
(archaeological ?)
-  recent magnetic
disturbances ?
-  broad / weak natural
magnetic anomalies
(wetland)
-  small background
magnetic anomalies
(natural / non-
archaeological ?)
-  cultivation
-  pipe
-  drain ?
-  strong (ferrous)
magnetic anomalies

0 50m
Scale 1:1250 @ A3

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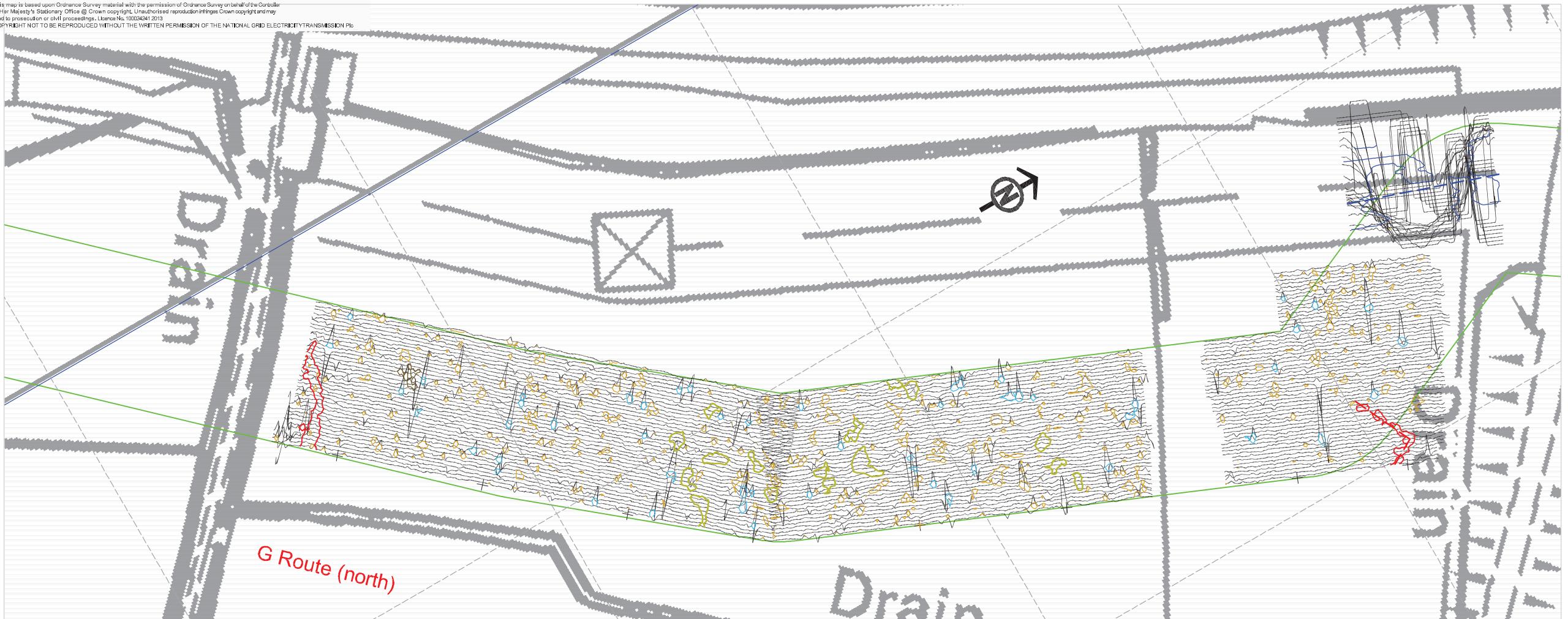
ADDITIONAL SURVEY AREAS SEPTEMBER 2013

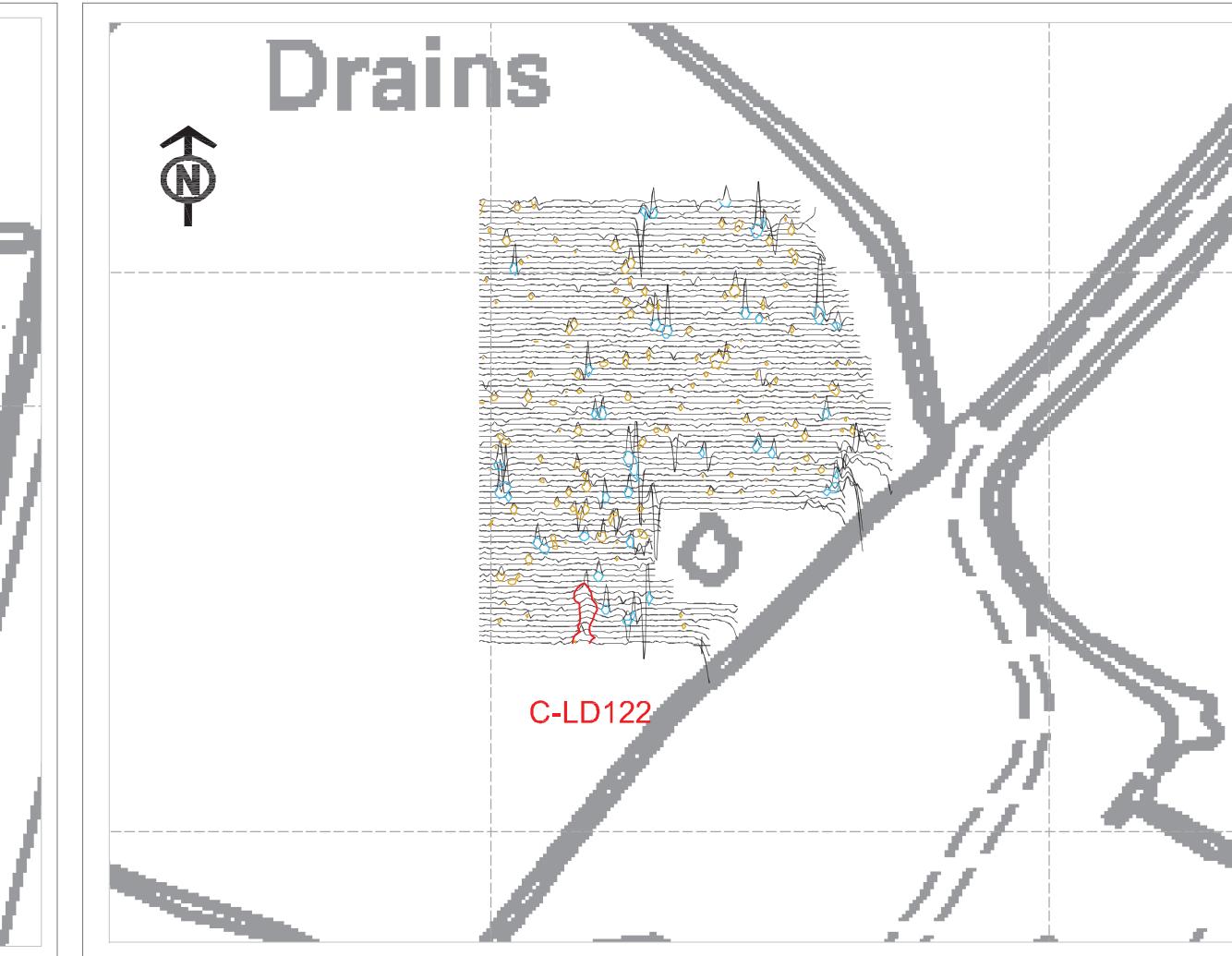
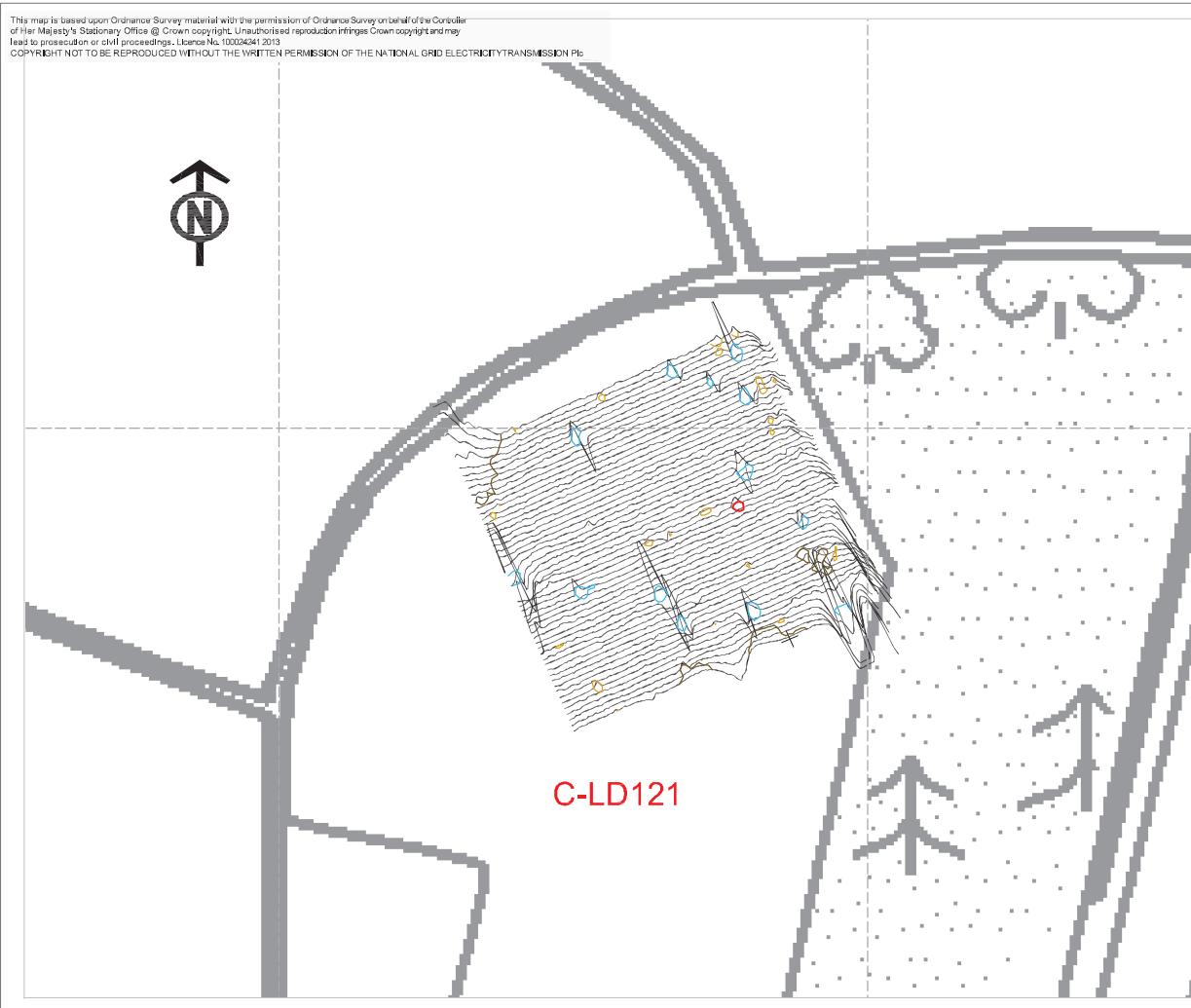
ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4



ING INVESTMENT No. FIGURE No.  **G**

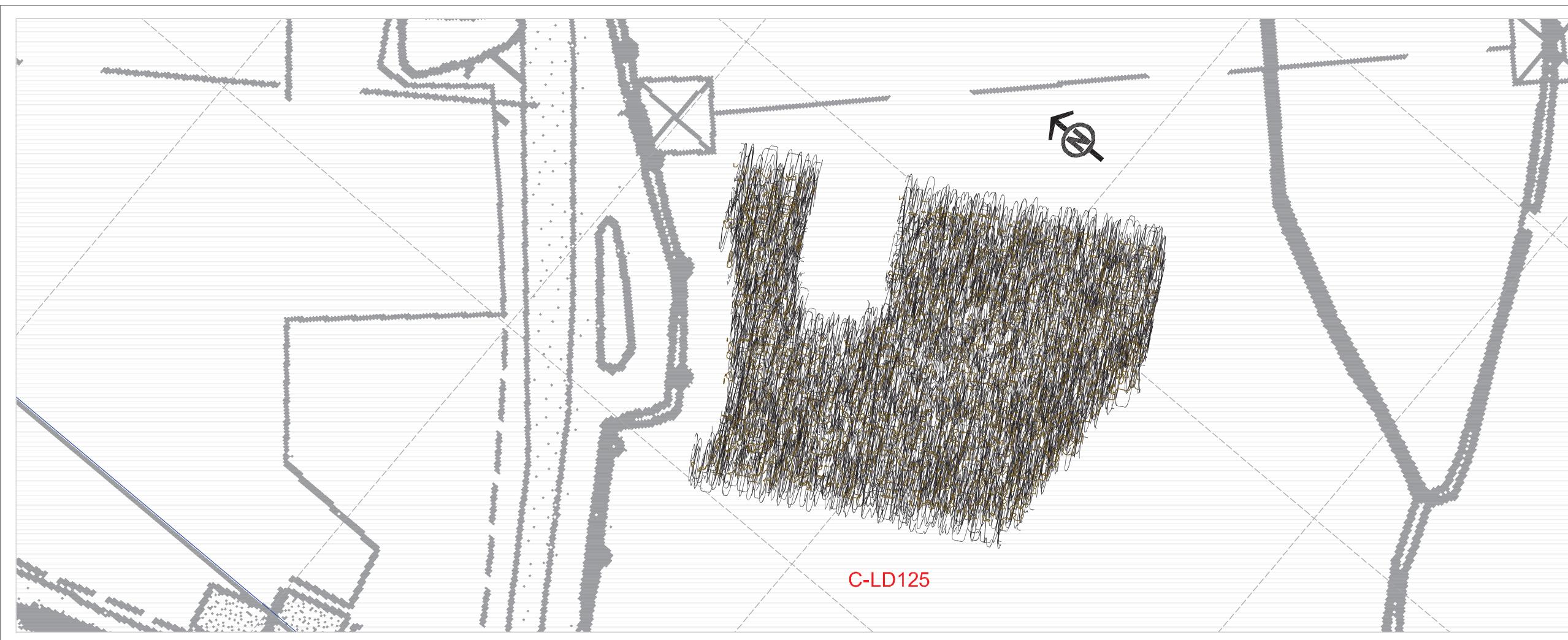
20897	102	TEP	A3
<u>DRAWING No.</u>		<u>SCALE</u> 1:1250	
		<u>ISSUE</u>	





Key

- 50 nT
- magnetic anomalies (archaeological ?)
- recent magnetic disturbances ?
- broad / weak natural magnetic anomalies (wetland)
- small background magnetic anomalies (natural / non-archaeological ?)
- cultivation
- pipe
- drain ?
- strong (ferrous) magnetic anomalies



0 50m
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NATIONAL GRID
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Magnetometer survey:
graphical plot
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Oxford Archaeology

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Ke

50 nT

-  magnetic anomalies (archaeological ?)
-  recent magnetic disturbances ?
-  broad / weak natural magnetic anomalies (wetland)
-  small background magnetic anomalies (natural / non-archaeological ?)
-  cultivation
-  pipe
-  drain ?
-  strong (ferrous) magnetic anomalies

0 50m
Scale 1:1500 @ A3

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<p><u>Title</u></p> <p style="text-align: center;">NATIONAL GRID (HINKLEY C PROJECT) ENVIRONMENTAL STATEMENT</p>					
<p style="text-align: center;">ADDITIONAL SURVEY AREAS SEPTEMBER 2013</p>					
<p style="text-align: center;">ARCHAEOLOGICAL GEOPHYSICAL SURVEY: PART 4</p>					
<p style="text-align: center;">Magnetometer survey: graphical plot with interpretation</p>					
 <p>Oxford Archaeology, Jines House, Osney Mead, Oxford OX2 0ES</p>					
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Key

50 nT

- magnetic anomalies (archaeological ?)**
- recent magnetic disturbances ?**
- broad / weak natural magnetic anomalies (wetland)**
- small background magnetic anomalies (natural / non-archaeological ?)**
- cultivation**
- pipe**
- drain ?**
- strong (ferrous) magnetic anomalies**

0 50m
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