

A428 Black Cat to Caxton Gibbet improvements

TR010044

Volume 6

Volume 6.3 Environmental Statement

Appendix 6.5: Geophysical Survey Phase 3

Planning Act 2008

Regulation 5(2)(a)

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

26 February 2021



Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

A428 Black Cat to Caxton Gibbet improvements

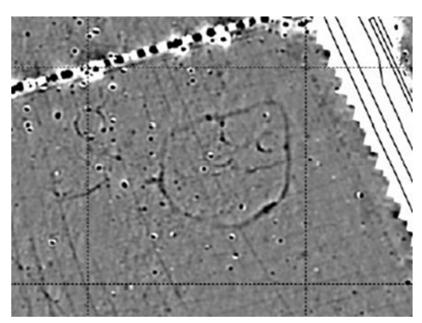
Development Consent Order 202[]

Appendix 6.5: Geophysical Survey Phase 3

Regulation Reference:	APFP Regulation 5(2)(a)
Planning Inspectorate Scheme	TR010044
Reference	
Application Document Reference	TR010044/APP/6.3
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Author	A428 Black Cat to Caxton Gibbet Project Team,
	Highways England

Version	Date	Status of Version
Rev 1	26 February 2021	DCO Application





A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME

Addendum report: Further archaeological geophysical survey January 2020

MOLA Headland Infrastructure | Version 2

A428 Black Cat to Caxton Gibbet Improvement Scheme Addendum report: Further archaeological geophysical survey, January 2020 Version 02 MOLA HEADLAND INFRASTRUCTURE

OASIS: molanort1-378961

Cambridgeshire Event Number: ECB5852

Bedford Museum Accession Number: BEDFM 2019.41

A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME

ADDENDUM REPORT: FURTHER ARCHAEOLOGICAL GEOPHYSICAL SURVEY JANUARY 2020

Prepared for AECOM

Date: 24 April 2020 Version 2

A428 Black Cat to Caxton Gibbet Improvement Scheme Addendum report:
Further archaeological geophysical survey, January 2020 Version 02



Client: AECOM, on behalf of Highways England Grid Reference: TL 1595 5539 to TL 2963 6067 Address: A1 / A428 Black Cat Roundabout, Bedfordshire to A428 / A1198 Caxton Gibbet, Cambridgeshire Councils: Bedford Borough Council Central Bedfordshire Council Cambridgeshire County Council Project Managers: Gary Brogan BSc Sam Harrison BSc MSc MCIfA Text: John Walford BSc MSc Edited and approved by: Tracy Preece BA Gary Brogan BSc



CONTENTS

1.	INTRODUCTION	4
2.	LOCATION AND TOPOGRAPHY	4
3.	ARCHAEOLOGICAL BACKGROUND	4
4.	METHODOLOGY	6
5.	SURVEY RESULTS	7
	5.1 OVERVIEW	7
	5.2 ARCHAEOLOGICAL SITES AND FEATURES	7
	5.3 HISTORIC AGRICULTURAL FEATURES	9
	5.4 QUARRYING	10
	5.5 FIELD DRAINS	10
	5.6 MODERN SERVICES	10
	5.7 FERROUS MATERIAL	10
	5.8 GEOLOGY AND OTHER NATURAL FEATURES	10
6.	DISCUSSION AND CONCLUSION	11
7.	BIBLIOGRAPHY	11
8.	OASIS SUMMARY	12



ILLUSTRATIONS

- Figure AA.1 Phase 3 survey area locations
- Figure AA.2 Overview of principal archaeological sites surveyed
- Figure AA.3 Key to figure locations (Phase 3 processed data, interpretations and raw data)
- Figure AA.4 Key to figure locations (Phase 3 1:1000 close-up plots and XY trace plots)
- Figure BB.1 Magnetometer survey results (1)
- Figure BB.2 Magnetometer survey results (2)
- Figure BB.3 Magnetometer survey results (3)
- Figure BB.4 Magnetometer survey results (4)
- Figure BB.5 Magnetometer survey results (5)
- Figure BB.6 Magnetometer survey results (6)
- Figure BB.7 Magnetometer survey results (7)
- Figure BB.8 Magnetometer survey results (8)
- Figure BB.9 Magnetometer survey results (9)
- Figure BB.10 Magnetometer survey results (10)

Key to interpretation figures CC1 - CC10

- Figure CC.1 Magnetometer survey interpretation (1)
- Figure CC.2 Magnetometer survey interpretation (2)
- Figure CC.3 Magnetometer survey interpretation (3)
- Figure CC.4 Magnetometer survey interpretation (4)
- Figure CC.5 Magnetometer survey interpretation (5)
- Figure CC.6 Magnetometer survey interpretation (6)
- Figure CC.7 Magnetometer survey interpretation (7) Figure CC.8 Magnetometer survey interpretation (8)
- Figure CC.8Magnetometer survey interpretation (8)Figure CC.9Magnetometer survey interpretation (9)
- Figure CC.10 Magnetometer survey interpretation (0)
- Figure DD.1 Unprocessed magnetometer data (1)
- Figure DD.2 Unprocessed magnetometer data (2)
- Figure DD.3 Unprocessed magnetometer data (3)
- Figure DD.4 Unprocessed magnetometer data (4)
- Figure DD.5 Unprocessed magnetometer data (5)
- Figure DD.6 Unprocessed magnetometer data (6)
- Figure DD.7 Unprocessed magnetometer data (7)
- Figure DD.8 Unprocessed magnetometer data (8)
- Figure DD.9 Unprocessed magnetometer data (9)
- Figure DD.10 Unprocessed magnetometer data (10)
- Figure EE.1 Close-up of archaeological features in Field 3_2 (1)
- Figure EE.2 Close-up of archaeological features in Field 99 (2)
- Figure FF.1 XY trace plots of magnetometer data (1)
- Figure FF.2 XY trace plots of magnetometer data (2)
- Figure FF.3 XY trace plots of magnetometer data (3)
- Figure FF.4 XY trace plots of magnetometer data (4)
- Figure FF.5 XY trace plots of magnetometer data (5)
- Figure FF.6 XY trace plots of magnetometer data (6)
- Figure FF.7 XY trace plots of magnetometer data (7)
- Figure FF.8 XY trace plots of magnetometer data (8)

A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME ADDENDUM REPORT: FURTHER ARCHAEOLOGICAL GEOPHYSICAL SURVEY JANUARY 2020

1. INTRODUCTION

MOLA Headland Infrastructure (MHI) was commissioned by AECOM, on behalf of Highways England, to undertake an archaeological geophysical survey of the route of the A428 road improvement scheme between the Black Cat roundabout (Bedfordshire, TL 1595 5539) and the Caxton Gibbet junction (Cambridgeshire, TL 2963 6067). Two phases of survey work were undertaken between April and October 2019, covering all suitable and accessible land within the construction boundary as then defined (Walford 2020). The total extent of this survey was 542ha. Subsequent changes to the construction boundary prompted a third phase of survey, which was undertaken in January 2020 and covered a further 57ha of land (Fig AA.1).

The following report on the Phase 3 survey has been written as an addendum to the main survey report for Phases 1 and 2 (Walford 2020) and should therefore be read in conjunction with that document.

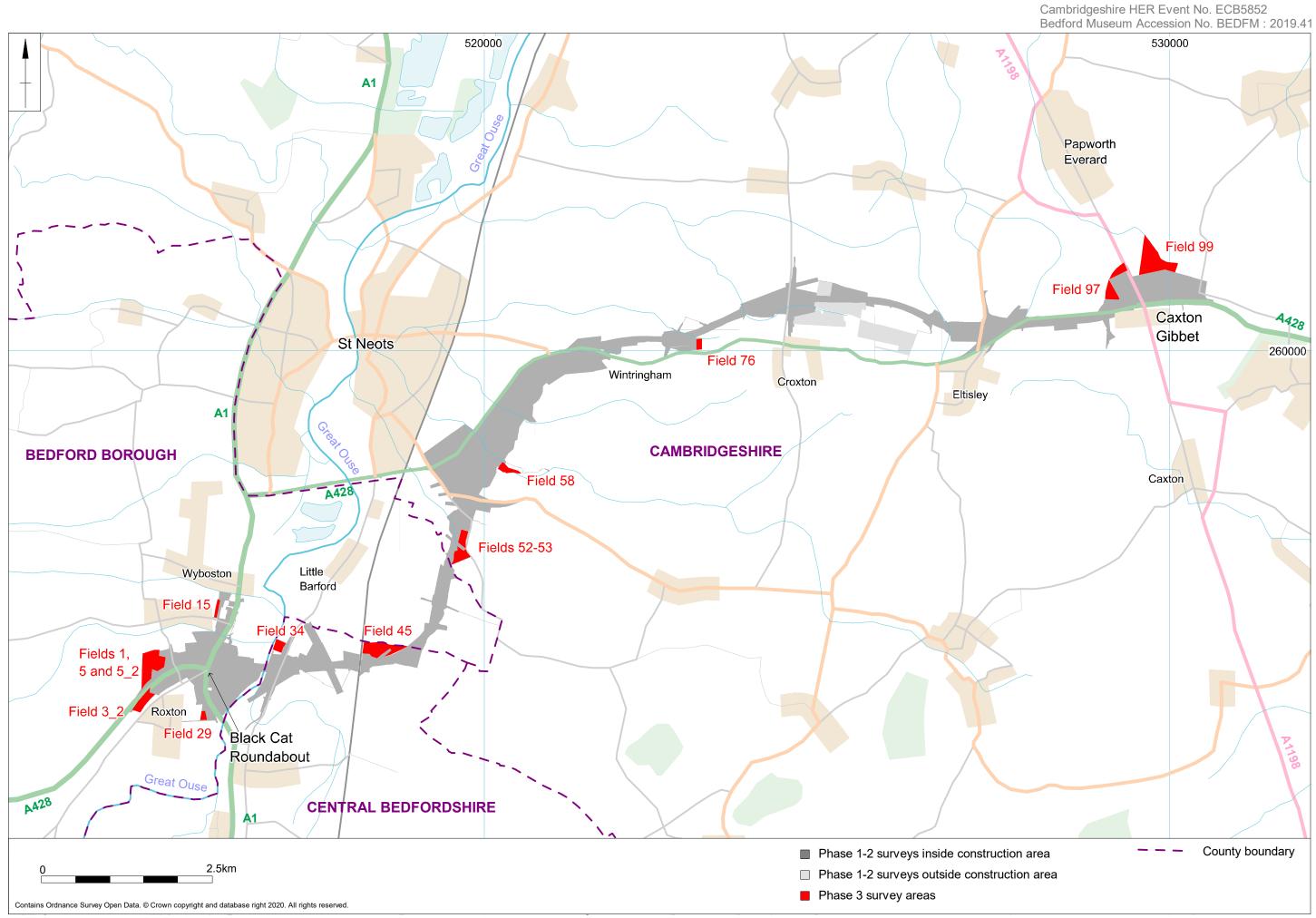
2. LOCATION, TOPOGRAPHY AND GEOLOGY

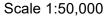
The areas of additional survey undertaken following the revision of the construction area boundary are depicted on Figure AA.1. They are widely distributed and mostly small (typically under 10ha each) so do not invalidate the general description of the location, topography and geology of the construction area given in the Phase 1 and 2 survey report (Walford 2020, 6-8).

In total, thirteen new areas were surveyed, all of them located on arable land. Two lay within fields which had been omitted during the earlier phases of survey (Fields 1 and 15), and most of the others lay within fields that had already been partially surveyed (Fields 5, 29, 34, 45, 52-3, 58, 76, 97 and 99). Two entirely new fields were also surveyed, and these have been named as Fields 3_2 and 5_2 in order to fit with the general sequence of field numbering from west to east along the route.

3. ARCHAEOLOGICAL BACKGROUND

The archaeological background to this project is described in the preliminary environmental information report for the proposed improvement scheme (AECOM 2019) and summarised more briefly in the Phase 1 and 2 survey report (Walford 2020, 11-14). Only two points require adding or reiterating here. One is that irregular linear cropmarks occur in the north of Field 5_2 as apparent, for instance, on Google Earth imagery dated 2 June 2009. These features have been recorded by the National Mapping Programme but not, as yet, by the Bedford HER (H. Maclean, *pers com*). The other point is that the new survey area in Field 3_2 lies immediately alongside a previously excavated Iron Age and Roman site (Timby et al 2007, 67-78), the full extent of which is yet to be determined.





4. METHODOLOGY

The Phase 3 survey was conducted according to the same methodology, and under the same WSI and brief, as the previous phases of survey (Walford 2020, 15; Gdaniec 2019), with the principal contractor, Skanska, once again providing welfare facilities and other logistical support.

Due to the vagaries of staff availability, the Phase 3 survey was undertaken entirely by surveyors from MHI's Leeds office. Consequently, all of the data was collected at a 1m traverse interval using sensors mounted on carrying frames. The magnetometer carts operated from MHI's Northampton office were not deployed.

5. SURVEY RESULTS

5.1 OVERVIEW

The Phase 3 survey has identified archaeological remains in Fields 1, 3_2, 5_2, 34, 97 and 99 and possibly also in Field 45 (Fig AA.2). Those in Fields 34 and 97 are continuations of remains already identified by the Phase 1 and 2 surveys, but the rest can be regarded as 'new' sites. Other features identified by the Phase 3 survey include ridge and furrow, former field boundaries, a probable quarry pit and continuations of several previously identified pipelines.

Figures showing the magnetometer survey results (Figs BB1-BB10), interpretation plots (Figs CC1-CC10), unprocessed magnetometer data (Figs DD1-DD10), close-ups of archaeological sites (Figs EE1-EE2) and XY trace plots of magnetometer data (Figs FF1-FF8) are presented at the end of the report.

5.2 ARCHAEOLOGICAL SITES AND FEATURES Field 1

Two parallel linear ditches cross the centre of this field on north-east to south-west alignments (Figs BB.1 and CC.1). Both flare outwards at their north-eastern ends and both fork into divergent branches to the south-west. They perhaps define part of a short trackway with a funnelled entrance. It is noticeable that the ditches point approximately towards the 'Round Hill' bowl barrow c 200m further to the south-west. Another ditch lies in the southern corner of the field: the curve of this suggests it may be part of an enclosure or ring ditch.

Field 3_2

A pattern of ditches detected in this field define parts of a sub-rectilinear enclosure complex with a possible trackway along its western edge (Figs BB.1 and CC.1). This is evidently a continuation of the late Iron Age to early Roman enclosure complex ('Site 1') that was excavated to the immediate north during the construction of the A421 Great Barford Bypass (Timby et *al* 2007, 67-78).

Field 5_2

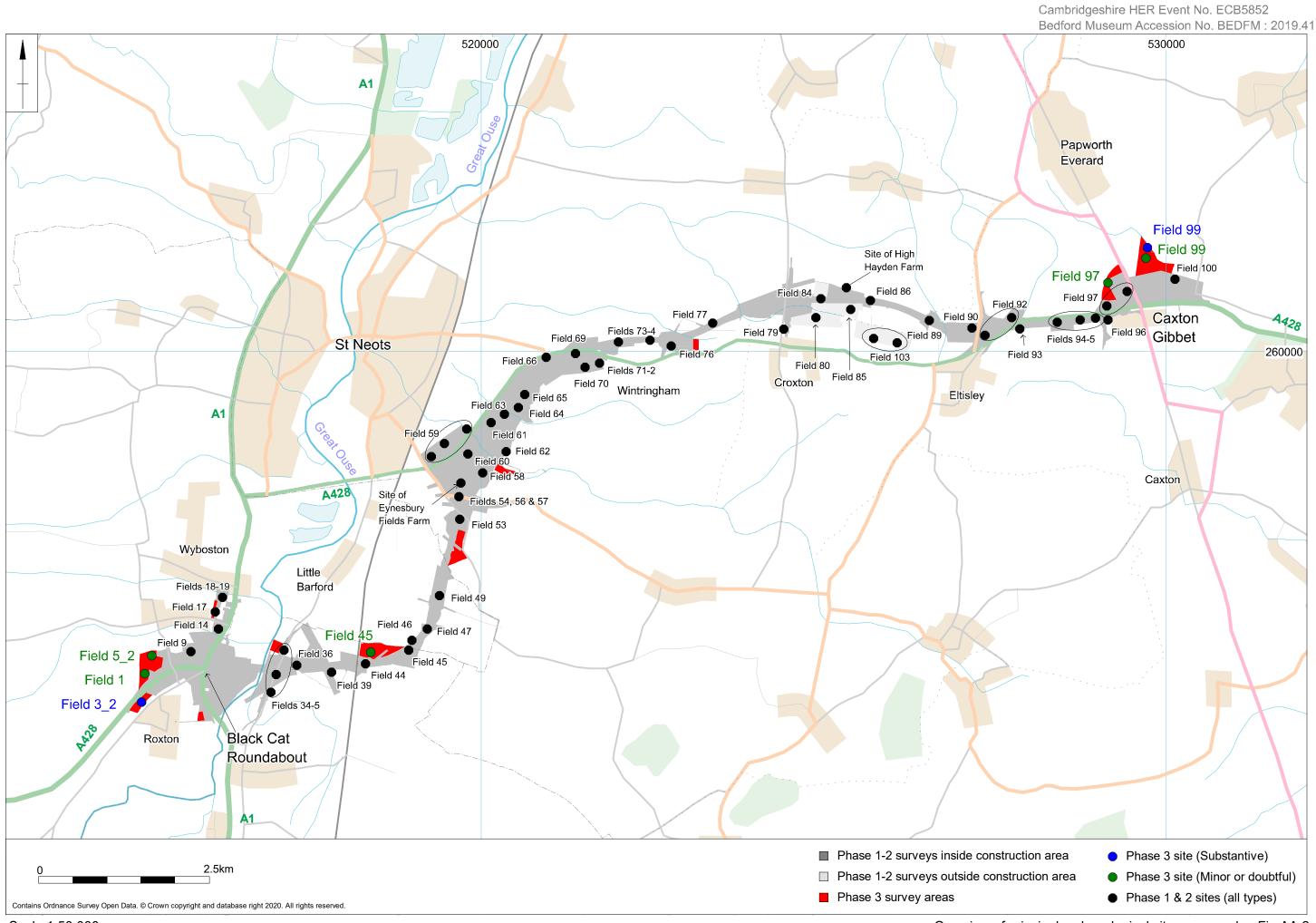
One curving length of ditch, of indeterminate date and function, has been detected in the north-eastern part of this field (Figs BB.1 and CC.1). A few other dispersed linear anomalies in this field may also represent ditches, but they are too weak and disjointed to interpret confidently. None of the detected feature correlate well with the cropmarks observed in this field; the reason for this is unknown.

Field 34

A short length of ditch detected in the north-eastern corner of the new survey area (Figs BB.4 and CC.4) is a direct continuation of one of the enclosure ditches previously identified in this field (Walford 2020, 20).

Field 45

A number of very weak positive linear anomalies in this field probably represent ditches (Figs BB.5 and CC.5). Several of them lie at right angles to each other, forming a coherent, though very fragmentary, plan. It is possible that they define parts of former fields or enclosures.



Overview of principal archaeological sites surveyed Fig AA.2

Field 97

The Phase 3 data from this field reveals features defining parts of the parish boundary between Eltisley and Papworth Everard (Figs BB.9 and CC.9). One ditch follows the current boundary line whilst others flank it intermittently for much of its course. It is possible that these ditches represent different phases of the boundary or that they flanked either side of a broad feature, such as a track or headland, which once lay along it.

Field 99

Parts of two enclosure ditches have been detected at the north-eastern edge of this field. The smaller is 18m across, with a rounded and parallel sides, and is encompassed by the larger which has an irregular form and a maximum dimension of *c*55m (Figs BB.10 and CC.10). These enclosures are potentially Iron Age or Roman in date.

Approximately 150m south-west of the enclosures is a length of sinuous ditch, aligned from south-east to north-west, that has a series of short parallel linear features abutting it to the south-west. The spacing of the linear features is suggestive of ridge and furrow, but they cover only a small area and do not fit with the rest of the ridge and furrow detected in the area. It is possible they are traces of a small area of strip fields pre- or post-dating the main open field system, with the sinuous ditch defining their north-eastern limit. Another possible ditch lies to the south, and to the north there are three other anomalies which suggest strip fields separate from the main pattern of ridge and furrow.

5.3 HISTORIC AGRICULTURAL FEATURES

Ridge and furrow

Parallel linear anomalies, representing medieval to early post-medieval ridge and furrow cultivation, are widespread throughout the Phase 3 survey data and fit with the general pattern of cultivation recorded by the earlier phases of survey. For further general comments about ridge and furrow, the reader is referred to the Phase 1 and 2 survey report (Walford 2020, 28).

Two small groups of linear anomalies in Field 99 (Figs BB.10 and CC.10, see above) have the appearance of ridge and furrow but cover very limited areas and do not conform to the general pattern of cultivation. Whether these should be regarded as actual ridge and furrow or as strip fields of another date is unclear.

Old field boundaries

Former field boundaries, confirmed by late 19th to 20th-century map evidence, have been detected in Fields 3_2, 34, 45, 58, 97 and 99. Some are represented by linear scatters of small magnetic dipoles, representing pieces of scrap metal accumulated along the boundaries, whilst for others the boundary ditch itself has produced a positive linear anomaly.

A low-density scatter of magnetic dipoles forms a broad and ill-defined band in Field 99 (Figs BB.10 and CC.10). This corresponds to the mapped location of a former belt of trees. A more focused zone of magnetic noise at the northern end of this feature could have a number of relatively recent causes, such as bonfire debris or ferrous material within a backfilled pond.

5.4 QUARRYING

A zone of weakly enhanced magnetic response with a well-defined but erratically angular edge lies in the north of Field 5_2. It probably represents a post-medieval quarry pit (Figs BB.1 and CC.1). The suggested dating is based on the lack of overlying ridge and furrow (which argues against a medieval or earlier date) and on the lack of map evidence for a pit here at any time since the late 19th century.

5.5 FIELD DRAINS

A small number of field drains have been detected, represented by characteristic weak linear anomalies with alternating magnetic polarity. One is present in the newly surveyed part of Field 58 and a few others in Field 99 (Figs BB.7, BB.10, CC.7 and CC.10).

5.6 MODERN SERVICES

Intense linear magnetic anomalies of alternating polarity have been detected in Fields 5_2, 34, 45 and 97. All of these represent continuations of pipelines previously mapped by the first two phases of survey (Walford 2020, 29-30). There is also a set of alternating positive and negative magnetic halos along the southern edge of Field 1 that could represent either a pipe or a metal fence lying between the field and the adjacent road.

5.7 FERROUS MATERIAL

Small dipolar anomalies are widespread throughout the Phase 3 survey data, mainly representing pieces of scrap agricultural ironwork (*eg* horseshoes, plough fittings, etc) and similar insignificant debris in the topsoil. Only three examples are large or distinctive enough to be worth noting individually. Two lie close together in the north-east of Field 5_2, and the larger of the pair has a regularly shaped core suggestive of an in-situ arrangement of metal objects (Figs BB.1 and CC.1). The third lies near the western edge of Field 45 and, given its size and location, perhaps relates to a buried object associated with the nearby pipe or railway line (Figs BB.5 and CC.5).

5.9 GEOLOGY AND OTHER NATURAL FEATURES

Much of the data from the south-western part of the survey area, to the west of the River Great Ouse, exhibits small, densely clustered positive anomalies which give it a speckled appearance. Obvious instances occur in Fields 5_2, 29 and elsewhere (Figs BB.1-3 and CC.1-3). This type of magnetic response is commonly encountered on the local river terraces, and presumably arises from minor variations in the distribution of iron minerals in the natural sand and gravel.

Very broad, low intensity positive linear anomalies in Fields 1, 3_2 and 5_2 probably represent lengths of palaeochannel within the terrace gravels (Figs BB.1 and CC.1). Other linear anomalies to the north of the channel in Field 5_2 are thought to be geological in origin but cannot be attributed to a more specific cause.

Some amorphous positive anomalies in the Phase 3 part of Field 34 lie close to the River Ouse at the foot of a slope (Figs BB.4 and CC.4). They are likely to indicate an expanse of alluvial or colluvial sediment. Other amorphous positive anomalies of various sizes occur in a number of the Phase 3 areas: these can only be interpreted broadly as relating to pockets of magnetically enhanced sediment within the subsoil or underlying geological strata.



6. DISCUSSION AND CONCLUSION

The Phase 3 survey has mapped archaeological remains in several locations, mainly towards the western and eastern ends of the construction area. The most substantive new sites are enclosures of probable Iron Age or Roman date in Fields 3_2 and 99; the first mentioned being a continuation of a site that was partially excavated during the construction of the A421 (Timby et *al* 2007, 67-78). Other remains comprise scattered ditches in Fields 1 and 5_2, a minor extension of the known enclosure complex in Field 34, some possible field system ditches in Field 45, a continuation of the historic parish boundary in Field 97 and a possible ditch and small strip fields in Field 99.

A probable former quarry pit has been identified in Field 5_2. It is suspected to be post-medieval, perhaps dating to the 18th or early 19th century, and seems unlikely to be more recent than that as it does not correspond to anything depicted on historic Ordnance Survey maps.

Field 5_2, and Fields 1 and 3_2 to the south, also contain sections of one or more palaeochannels. These are probably associated with the Pleistocene river terrace gavels mapped in the same area and stand well above the present level of the Great Ouse.

Overall, the Phase 3 survey results conform to those of the previous two phases of survey and, although providing additional information about the archaeology of the road construction area, they do not substantially change the conclusions of the main survey report (Walford 2020, 33-4).

7. BIBLIOGRAPHY

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Schmidt, A, Linford, P, Linford, N, David, A, Gaffney, C, Sarris, A, and Fassbinder, J, 2015, *Guidelines for the use of geophysics in archaeology: Questions to ask and points to consider*, European Archaeological Council

Timby, J, Brown, R, Hardy, A, Leech, S, Poole, C, and Webley, L, 2007, *Settlement on the Bedfordshire Claylands: Archaeology along the A421 Great Barford Bypass*, Bedfordshire Archaeology Monograph, 8

Walford, J, 2020, A428 Black Cat to Caxton Gibbet Improvement Scheme: Archaeological geophysical survey, April to October 2019, MOLA Headland Infrastructure

8. OASIS SUMMARY

The county-based design of the OASIS recording system means that the A428 survey has had to be recorded under two separate entries for Cambridgeshire (molanort1-378961) and Bedfordshire (molanort1-378963). The following abstract presents all of the generic information common to both entries and, where appropriate, the alternative county-specific information.

PROJECT DETAILS	OASIS form ID - molanort1-378961 / molanort1-378963
Project name	A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME: ARCHAEOLOGICAL GEOPHYSICAL SURVEY APRIL TO OCTOBER 2019
Short description of the project	The A428 Black Cat to Caxton Gibbet Cambridge Improvement Scheme comprises works to improve the A428 trunk road in Bedfordshire and Cambridgeshire. MOLA Headland Infrastructure was appointed to conduct a magnetometer survey as an initial, non-intrusive, stage of fieldwork. The total coverage of the survey was circa 599ha within the construction area, plus 49ha which were stipulated in the original instructions for the survey but lie outside of the construction area as currently defined. Archaeological remains, principally comprising Iron Age and Roman enclosures, were found to be abundant along the route.
Project dates	Start: 01-04-2019 End: 31-01-2020
Previous/future work	No / Yes
Any associated project reference codes	BEDFM 2019.41 - Museum accession ID
Any associated project reference codes	ECB5852 - Museum accession ID
Type of project	Field evaluation
Site status	None
Current Land use	Cultivated Land 2 - Operations to a depth less than 0.25m
Current Land use	Cultivated Land 1 - Minimal cultivation
Current Land use	Other 7 - Mineral extraction
Monument type	ENCLOSURES, DITCHES, PITS, TRACKWAYS, ROUNDHOUSES - Iron Age and Roman, RIDGE AND FURROW - Medieval
Significant Finds	NONE
Methods & techniques	"Geophysical Survey"
Development type	Road scheme (new and widening)
Prompt	National Policy Statement for National Networks (NPSNN)
Position in the planning process	Not known / Not recorded
Solid geology	OXFORD CLAY
Solid geology	AMPTHILL CLAY
Drift geology	ALLUVIUM
Drift geology	GLACIAL SAND AND GRAVEL
Drift geology (other)	OADBY DIAMICTON
Techniques	Magnetometry (multiple Bartingon Grad 601 fluxgate sensors, 0.1nT sensitivity, 1x0.25m max spatial resolution)

PROJECT LOCATION

Country

England

A428 Black Cat to Caxton Gibbet Improvement Scheme Addendum report: Further archaeological geophysical survey, January 2020 Version 01



Site location	CAMBRIDGESHIRE HUNTINGDONSHIRE ST NEOTS RURAL A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME
Site location	BEDFORDSHIRE MID BEDFORDSHIRE TEMPSFORD A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME
Study area	599 Hectares
Site coordinates	TL 1595 5539 52.18414022813 -0.303818673587 52 11 02 N 000 18 13 W Point
Site coordinates	TL 2963 6067 52.228537537246 -0.101790846771 52 13 42 N 000 06 06 W Point
Height OD / Depth	Min: 17m Max: 65m

PROJECT CREATORS

Name of Organisation	MOLA Headland Infrastructure
Project brief originator	Kasia Gdaniec, Cambridgeshire County Council Historic Environment Team
Project design originator	MOLA Headland Infrastructure
Project director/manager	Sam Harrison
Project director/manager	Gary Brogan
Project supervisor	Graham Arkley
Project supervisor	Adam Meadows
Project supervisor	Paul Sharrock
Project supervisor	Krasimir Dyulgerski
Project supervisor	Olivier Vansassenbrouck
Project supervisor	Ross Bishop

PROJECT ARCHIVE

Physical Archive Exists?	No
Digital Archive recipient	Cambridgeshire HET / Higgins Museum, Bedford
Digital Archive ID	ECB5852 / BEDFM 2019.41
Digital Contents	"none"
Digital Media available	"Geophysics", "Survey"
Paper Archive recipient	Cambridgeshire HET / Higgins Museum, Bedford
Paper Archive ID	ECB5852 / BEDFM 2019.41
Paper Contents	"none"
Paper Media available	"Report"

PROJECT BIBLIOGRAPHY 1

Publication type	Grey literature (unpublished document/manuscript)
Title	A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME: ARCHAEOLOGICAL GEOPHYSICAL SURVEY, APRIL TO OCTOBER 2019
Author(s)/Editor(s)	Walford, J
Other bibliographic details	MHI Report
Date	2019
Issuer or publisher	MOLA Headland Infrastructure

A428 Black Cat to Caxton Gibbet Improvement Scheme Addendum report: Further archaeological geophysical survey, January 2020 Version 01

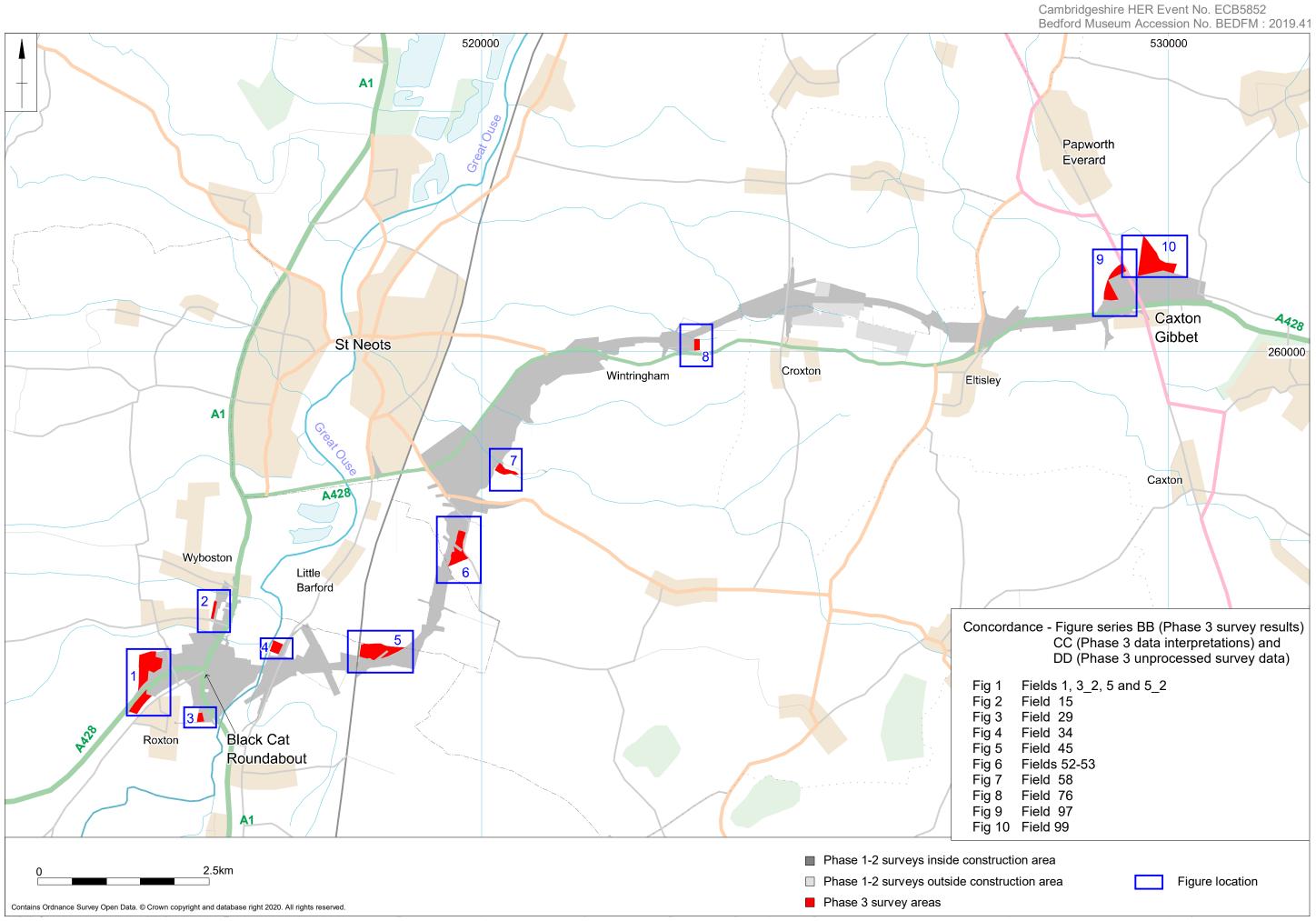


Place of issue or publication

Northampton

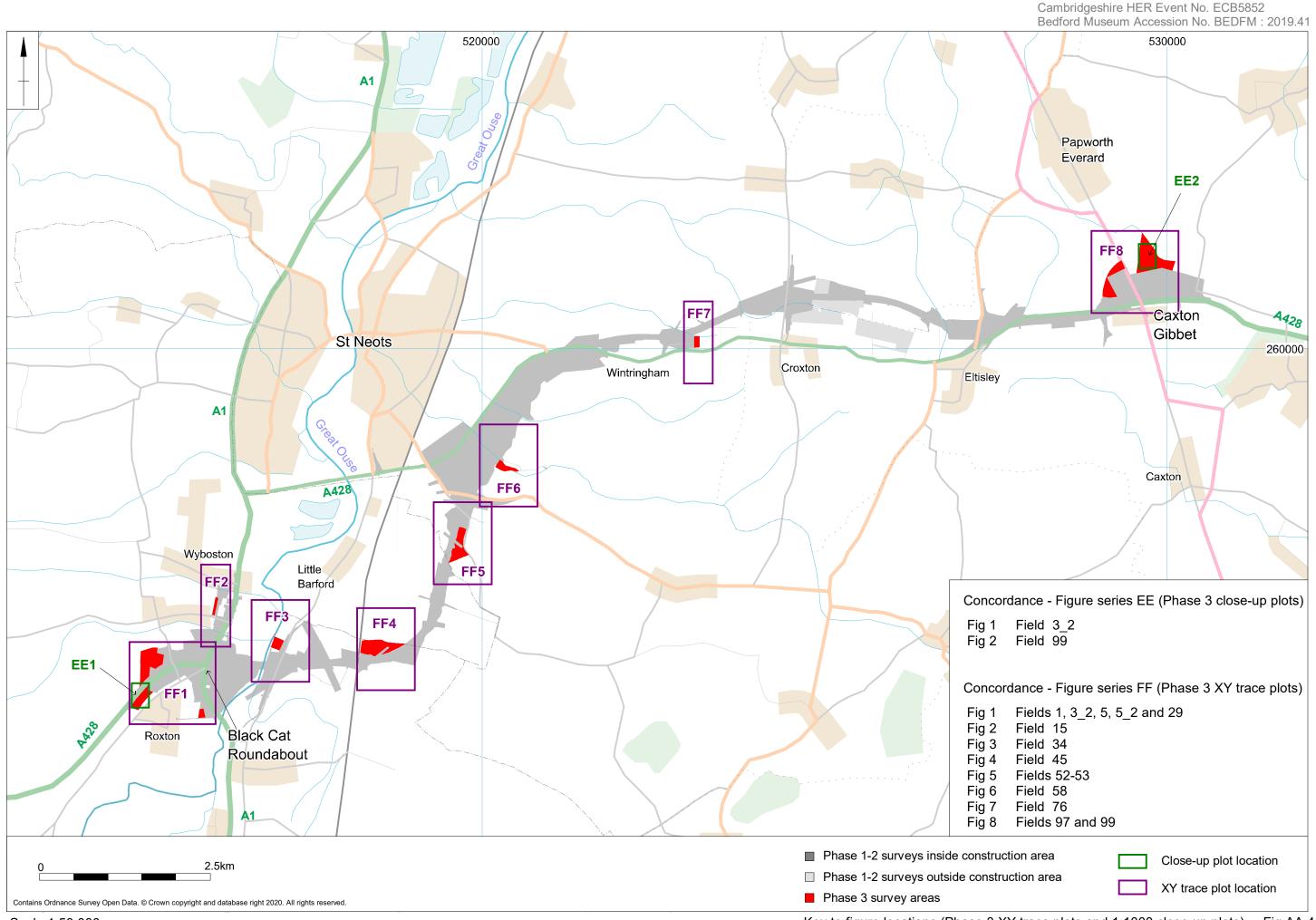
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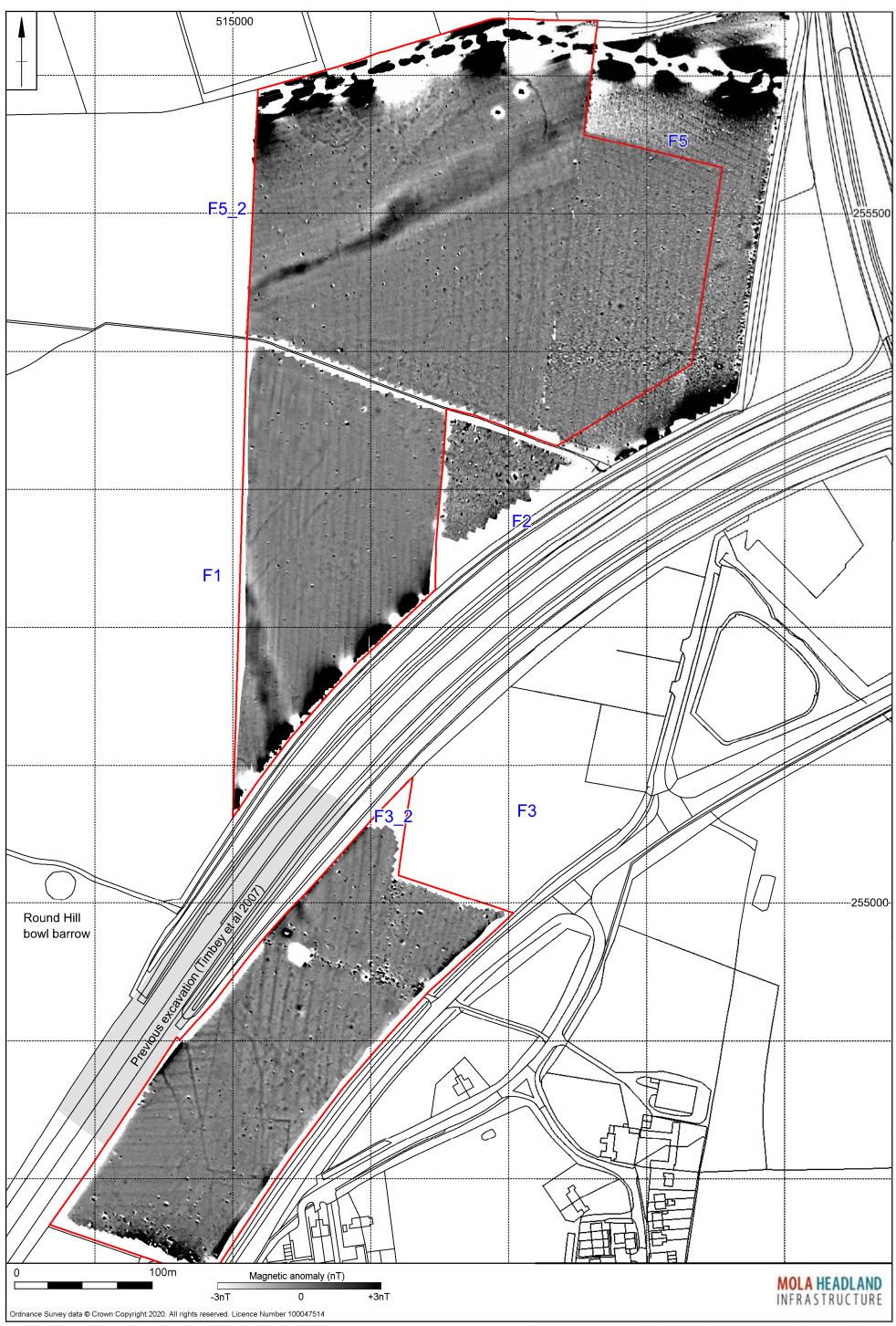
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Title	A428 BLACK CAT TO CAXTON GIBBET IMPROVEMENT SCHEME: ADDENDUM REPORT: FURTHER ARCHAEOLOGICAL GEOPHYSICAL SURVEY, JANUARY 2020
Author(s)/Editor(s)	Walford, J
Other bibliographic details	MHI Report
Date	2020
Issuer or publisher	MOLA Headland Infrastructure
Place of issue or publication	Northampton



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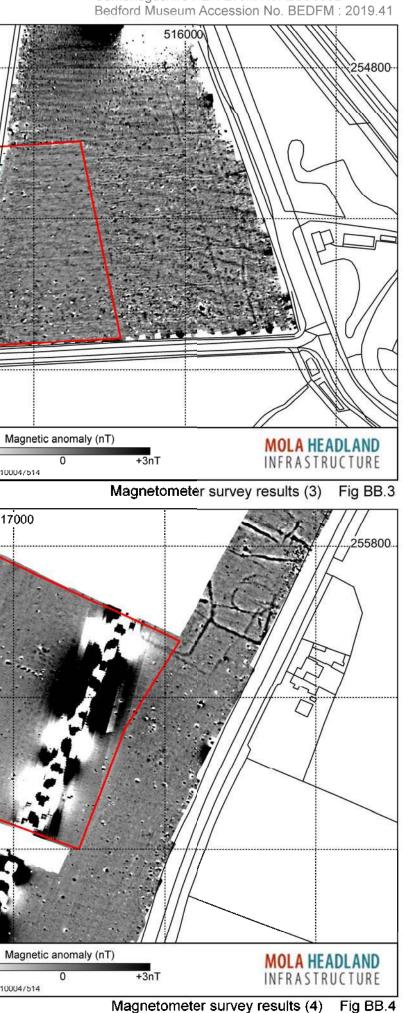
Key to figure locations (Phase 3 processed data, interpretations and raw data) Fig AA.3





Magnetometer survey results (1) Fig BB.1





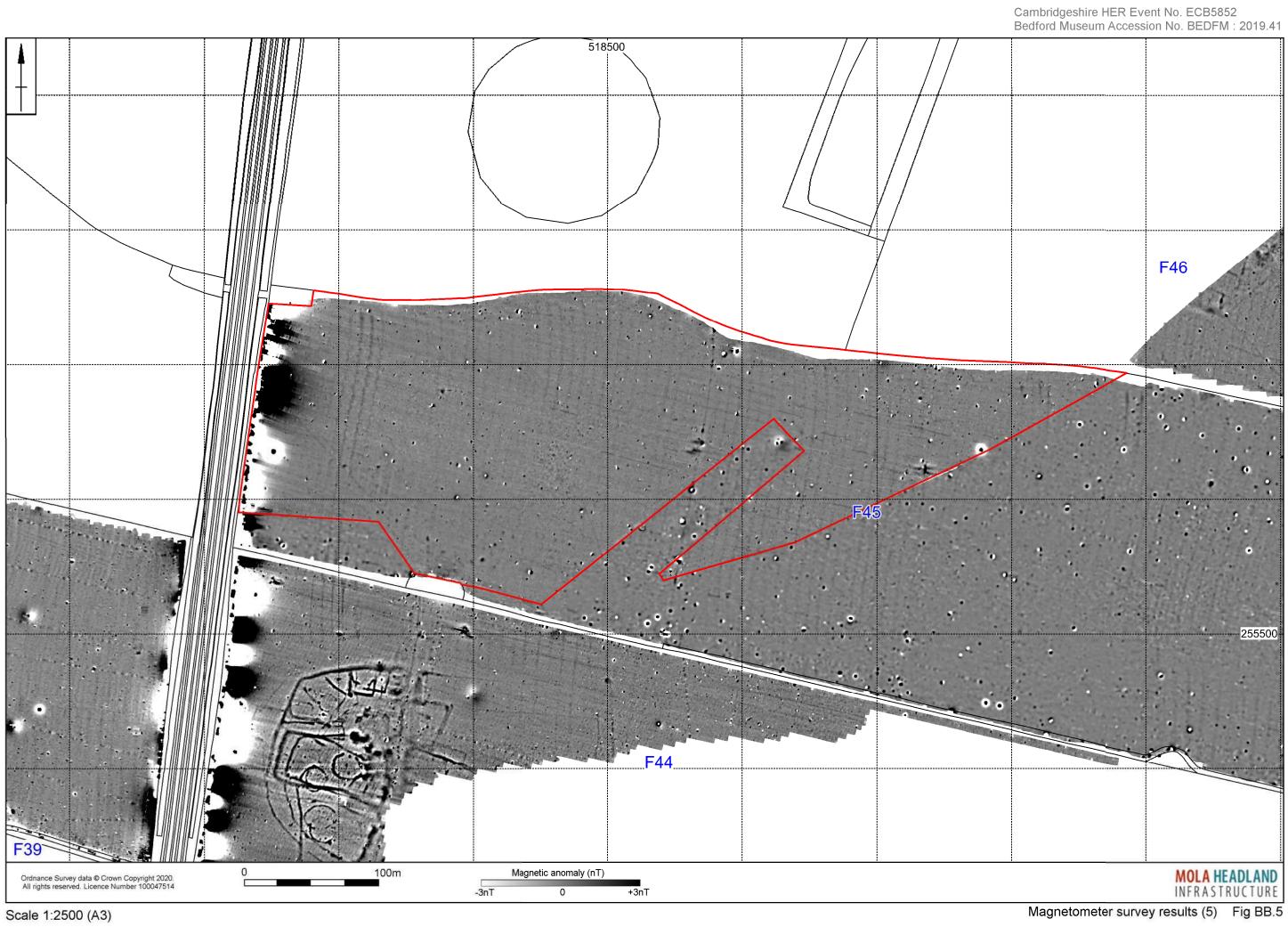
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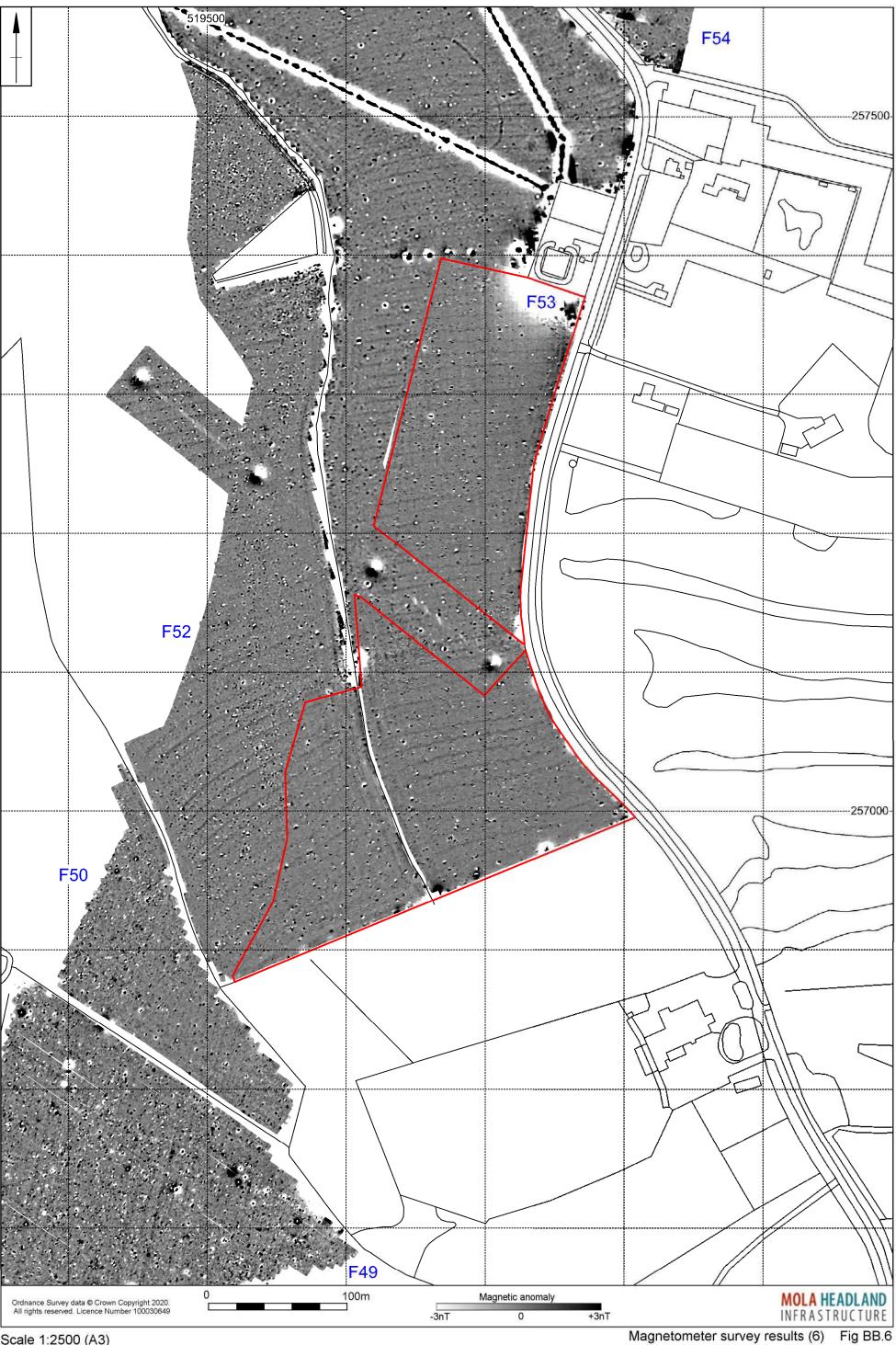
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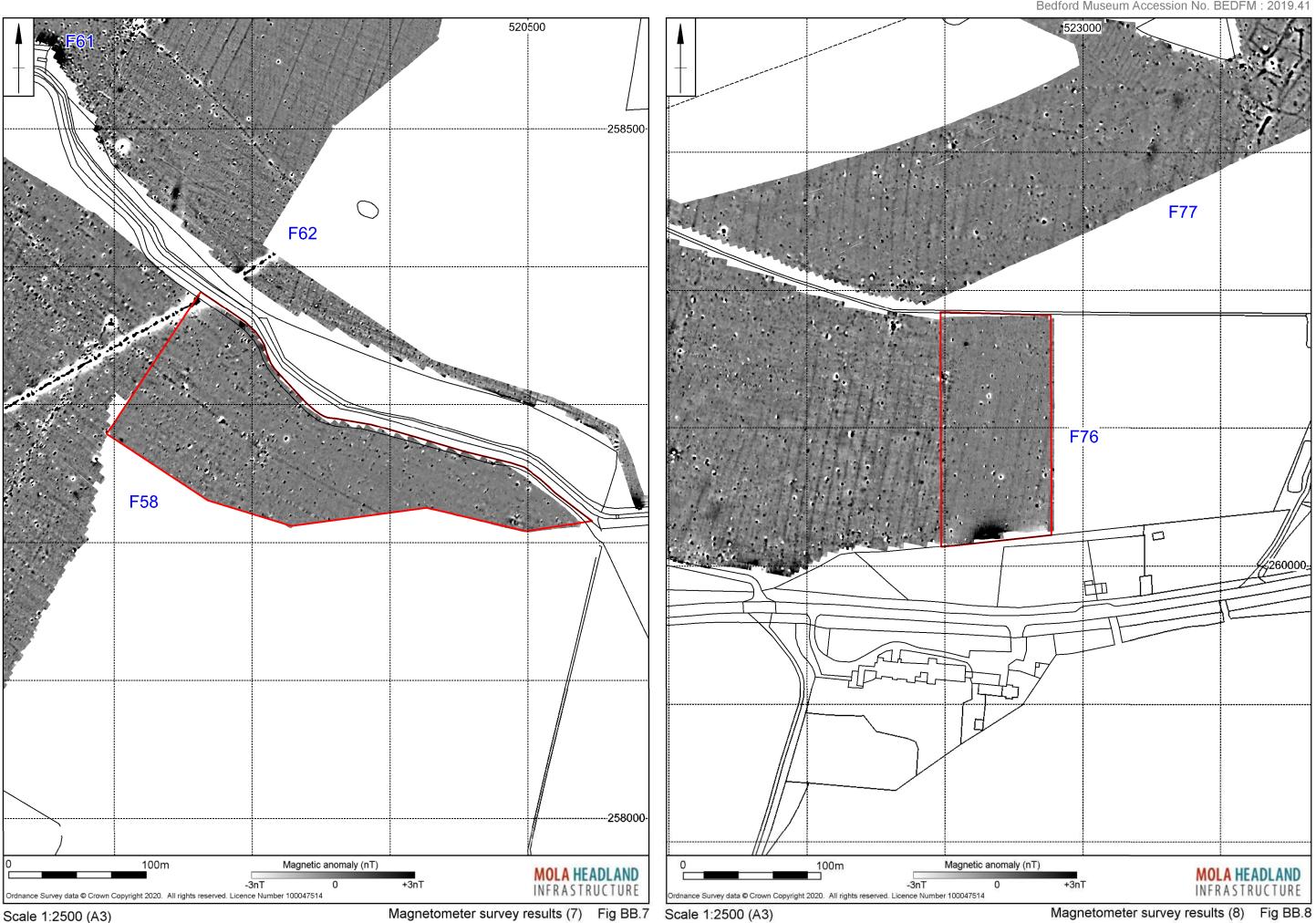
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Cambridgeshire HER Event No. ECB5852 Bedford Museum Accession No. BEDFM : 2019.41

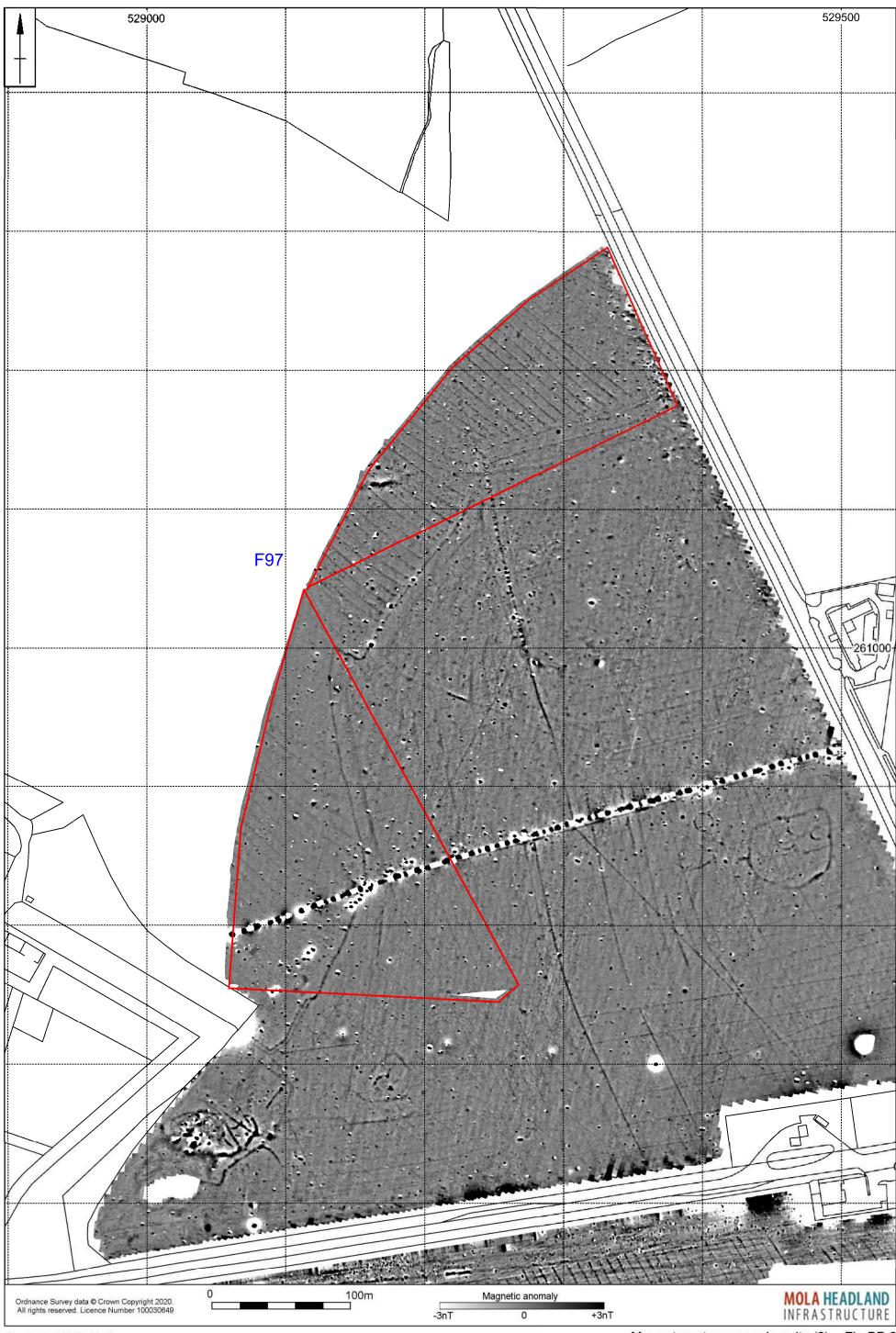
Magnetometer survey results (2) Fig BB.2



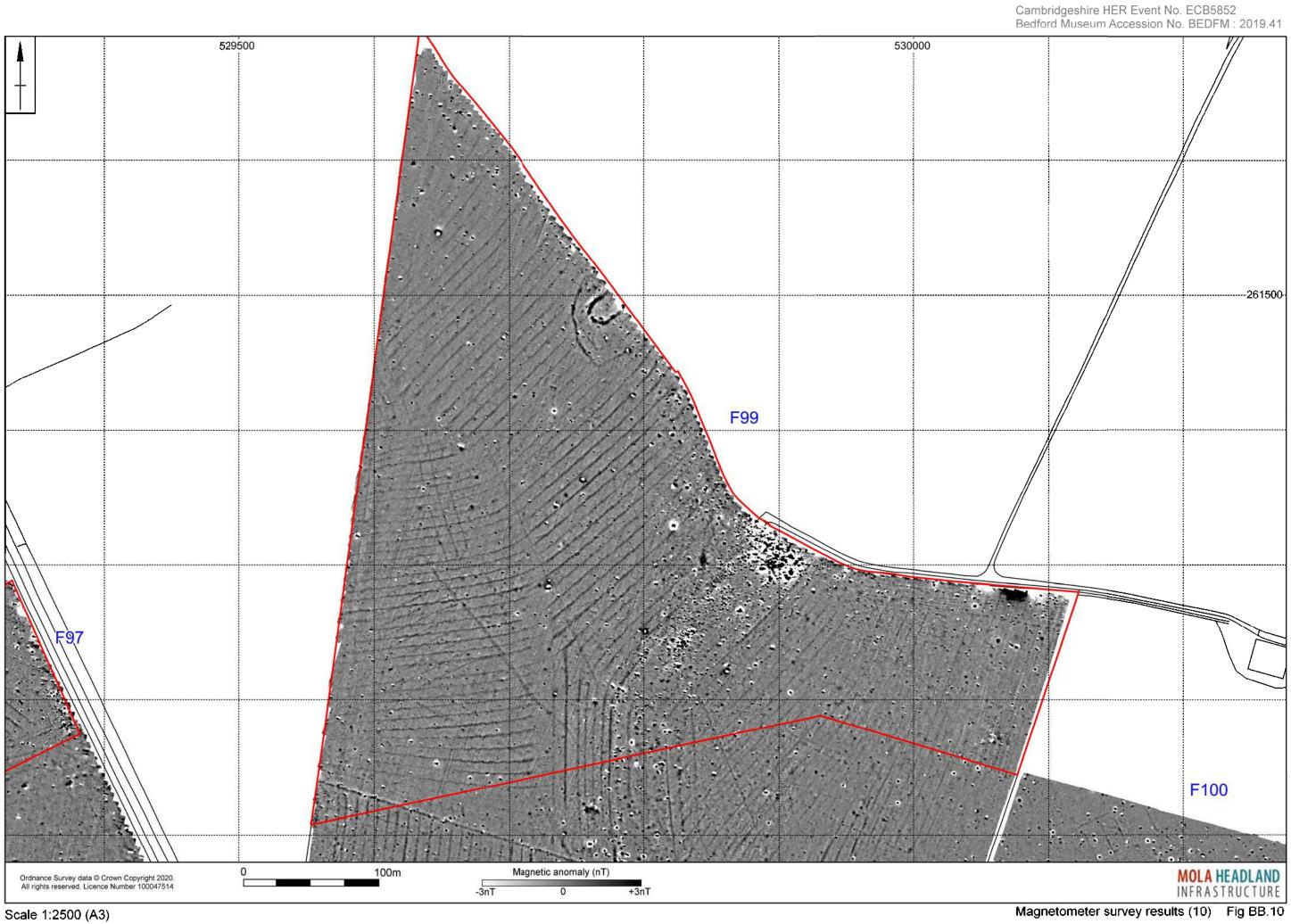




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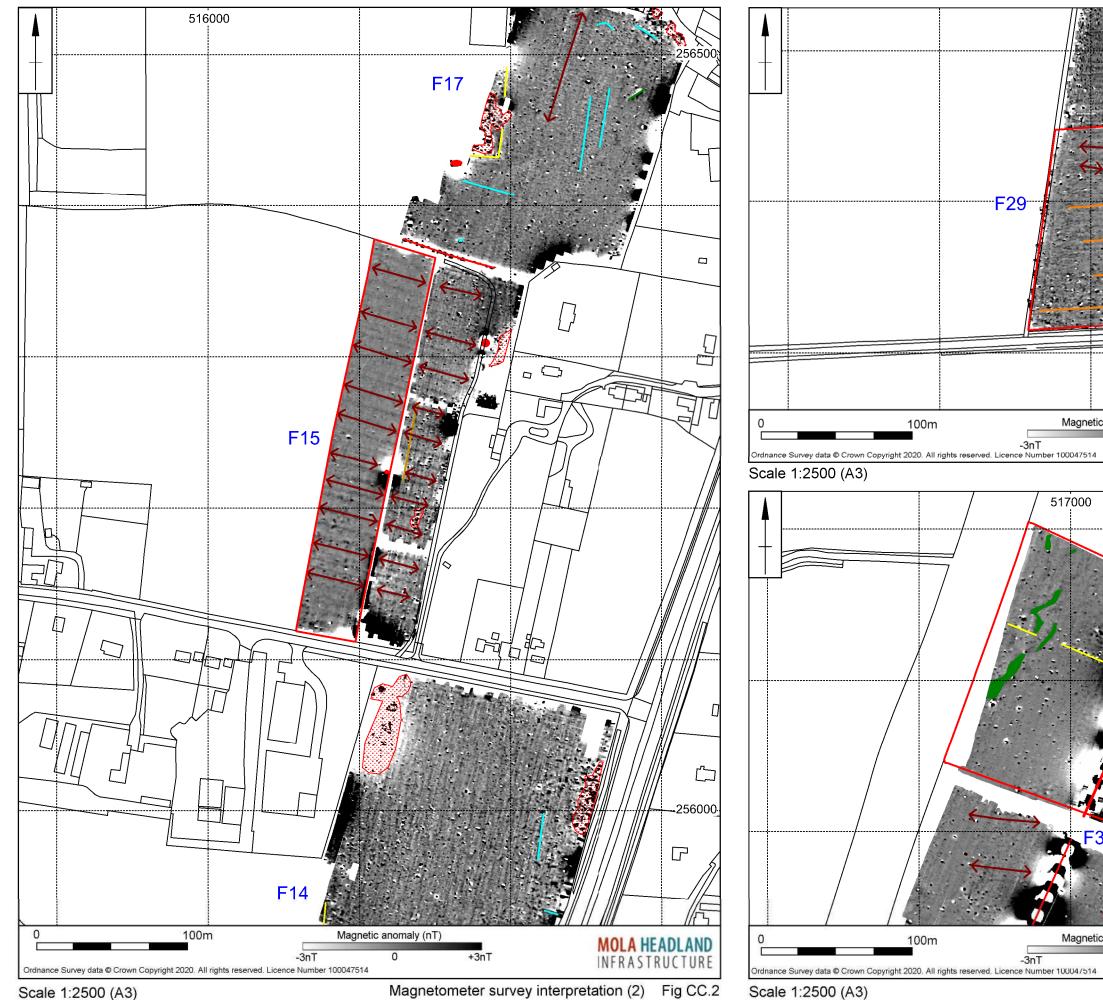


Magnetometer survey iresults (9) Fig BB.9





Magnetometer survey interpretation (1) Fig CC.1



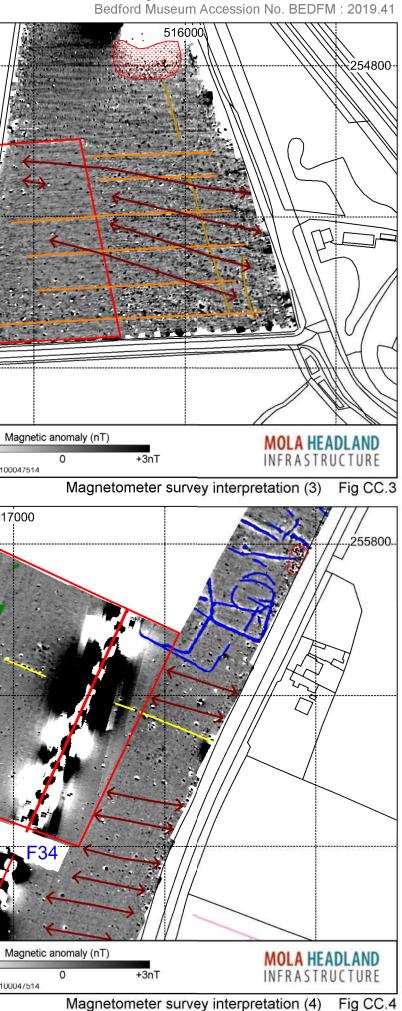
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Magnetometer survey interpretation (2) Fig CC.2

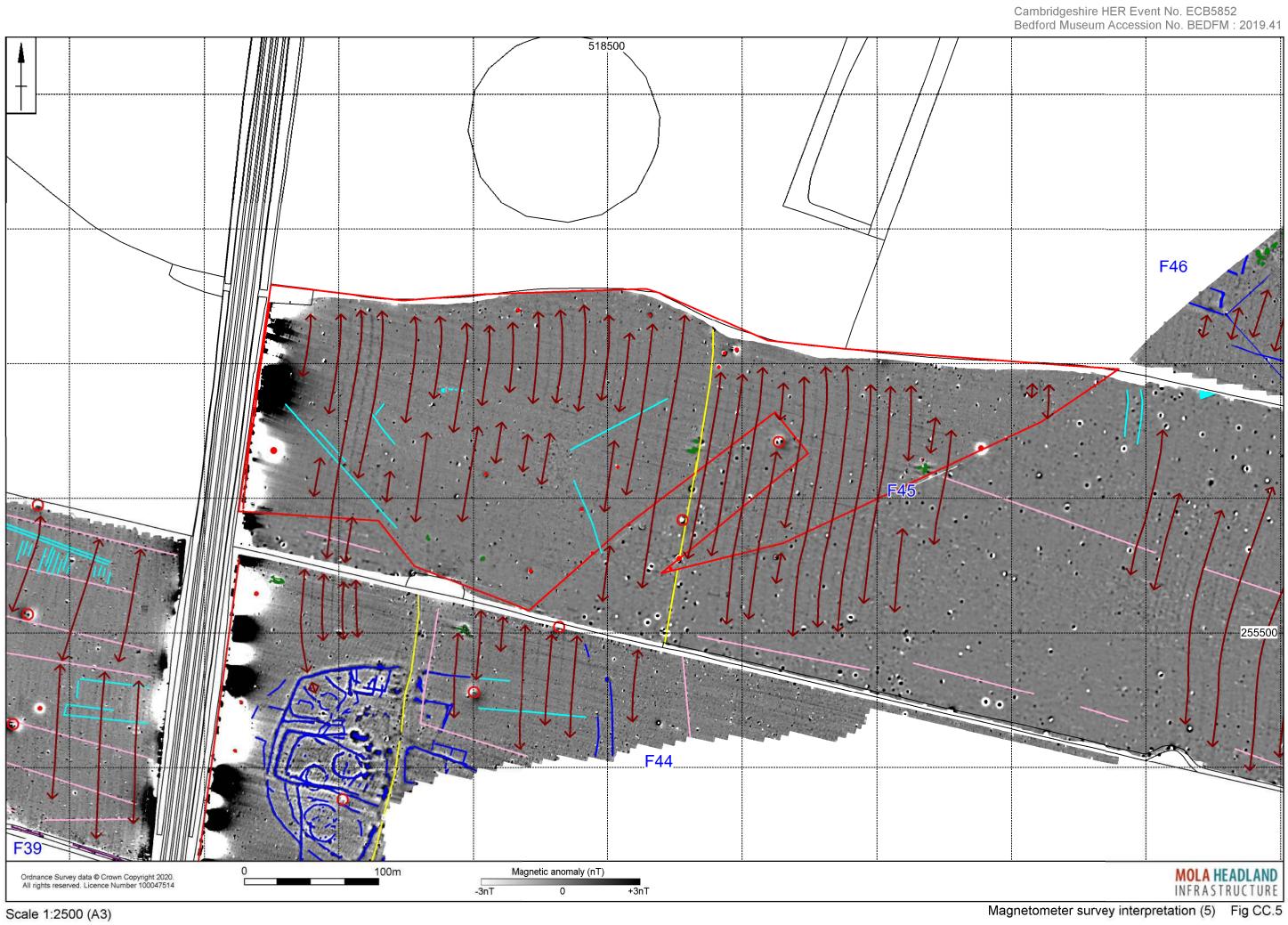
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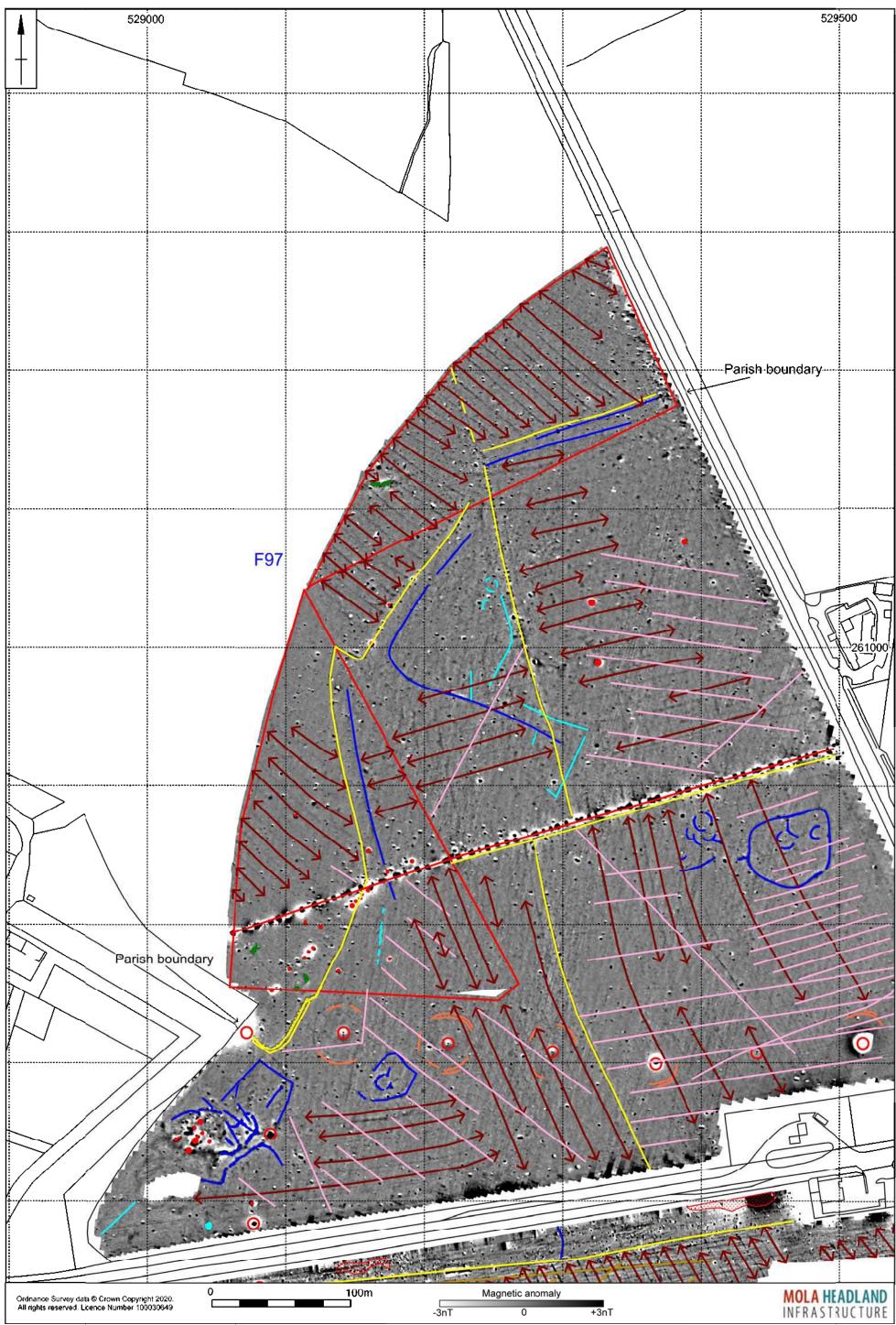
Cambridgeshire HER Event No. ECB5852



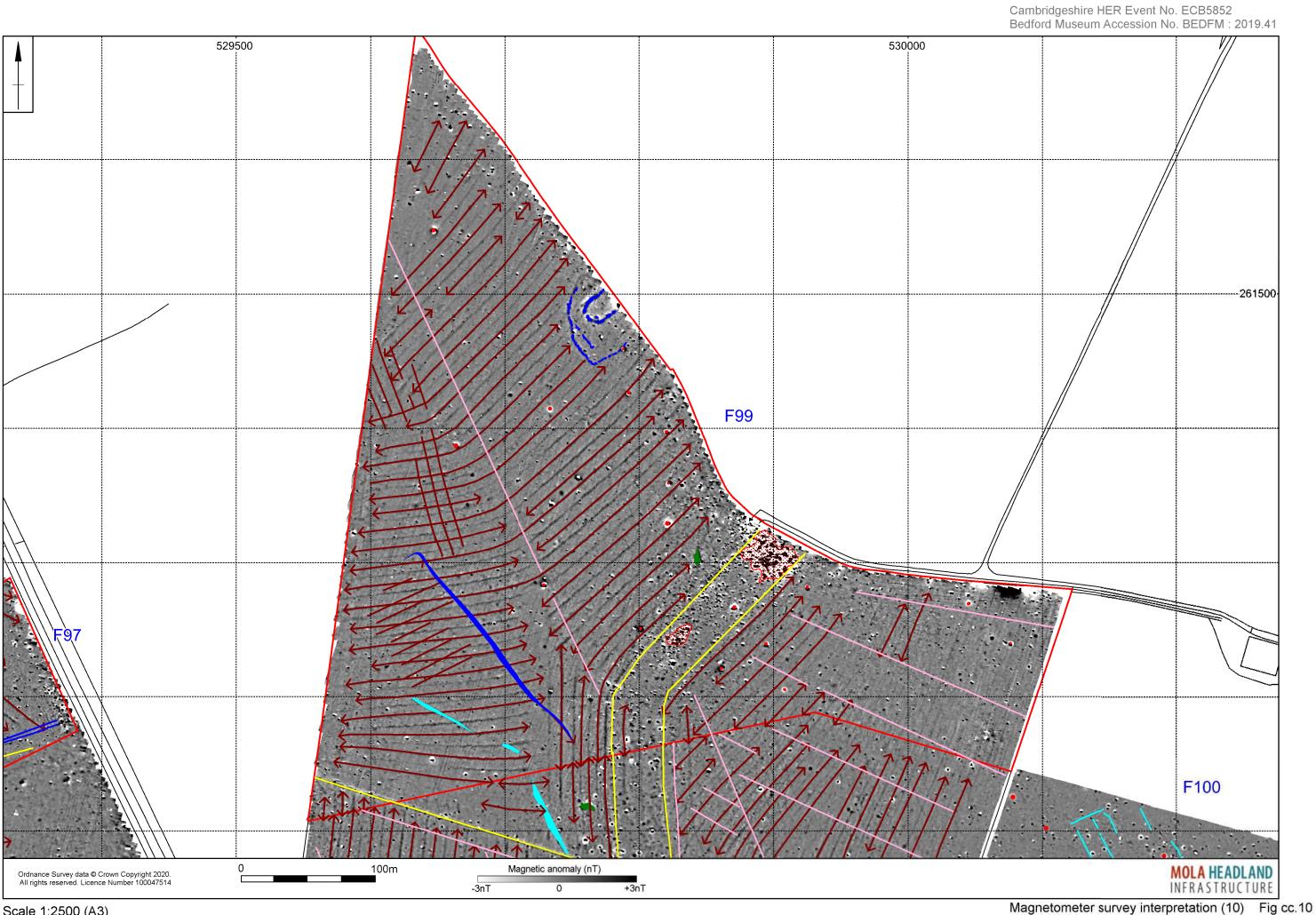




Cambridgeshire HER Event No. ECB5852 Bedford Museum Accession No. BEDFM : 2019.41



Magnetometer survey interpretation (9) Fig CC.9

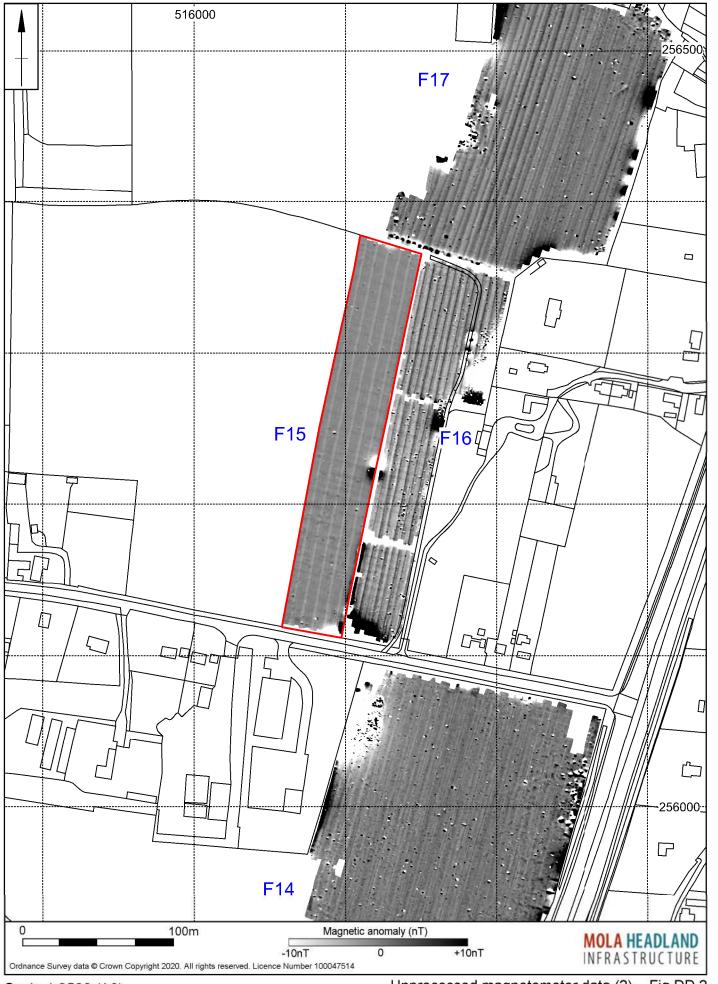


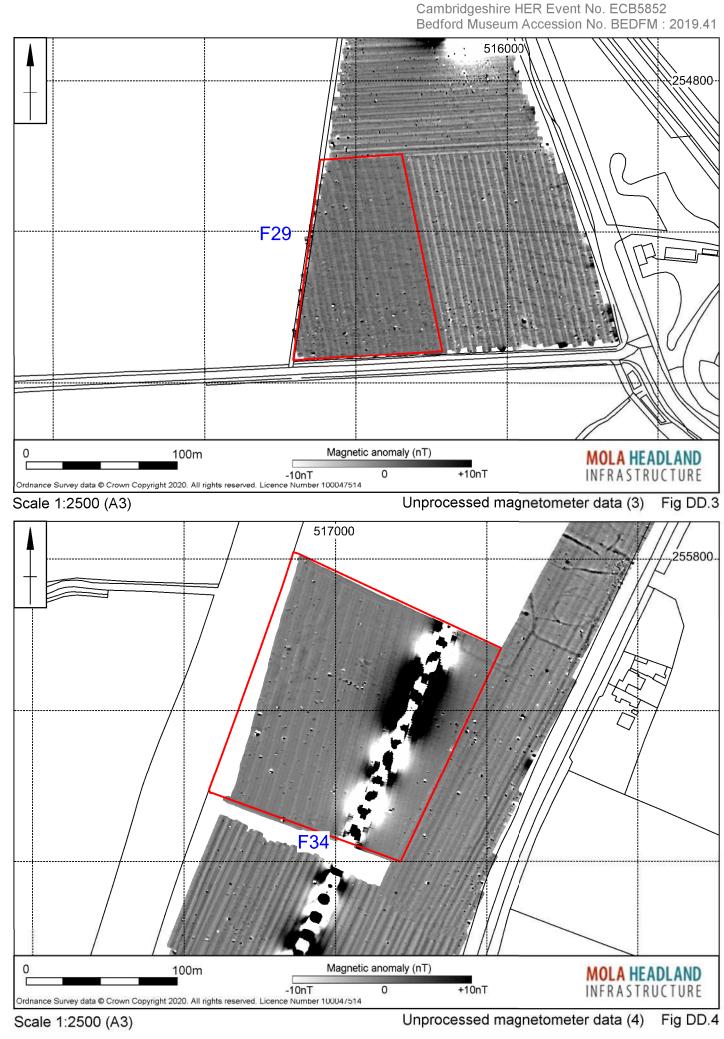
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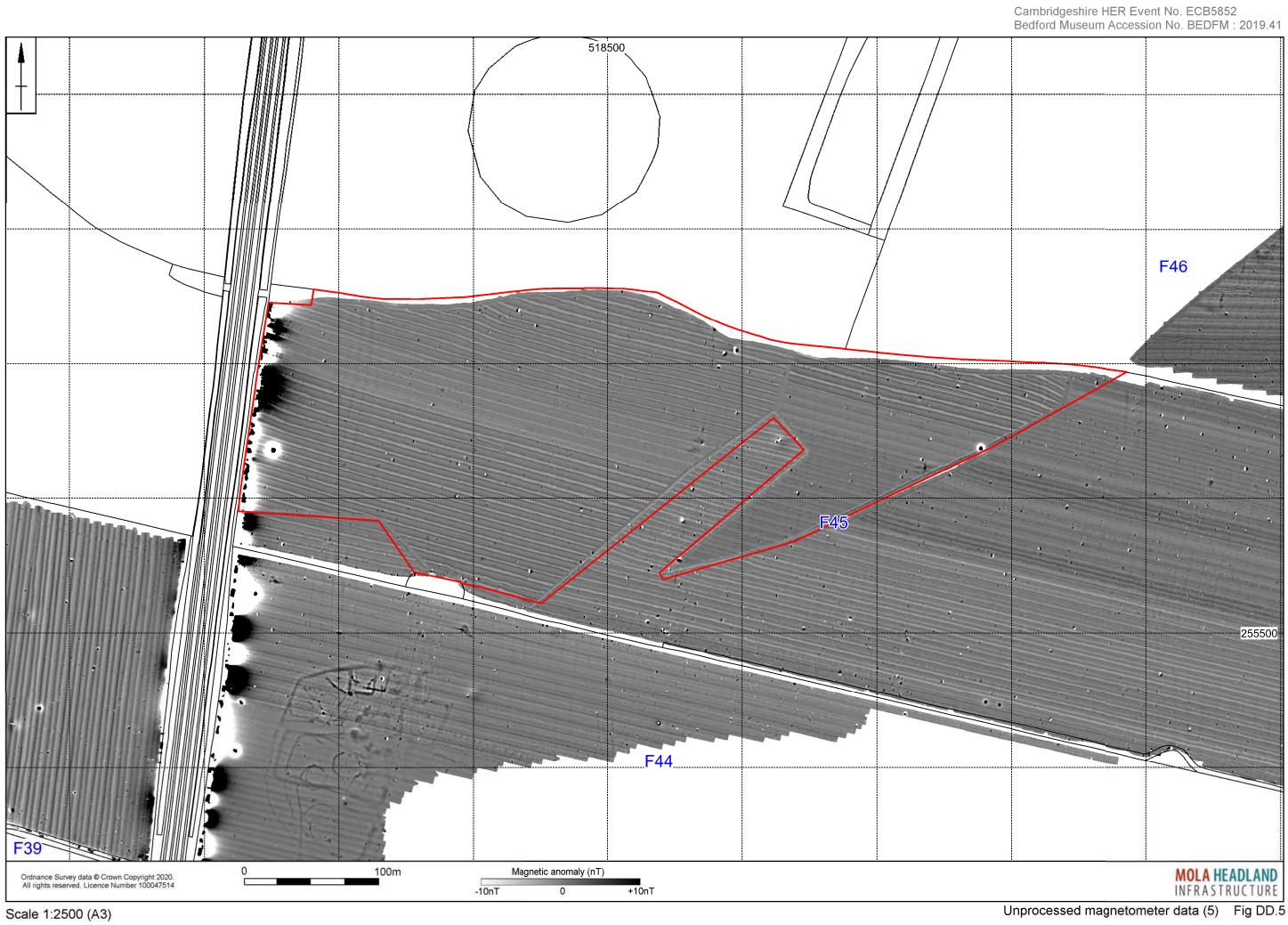


Scale 1:2500 (A3)

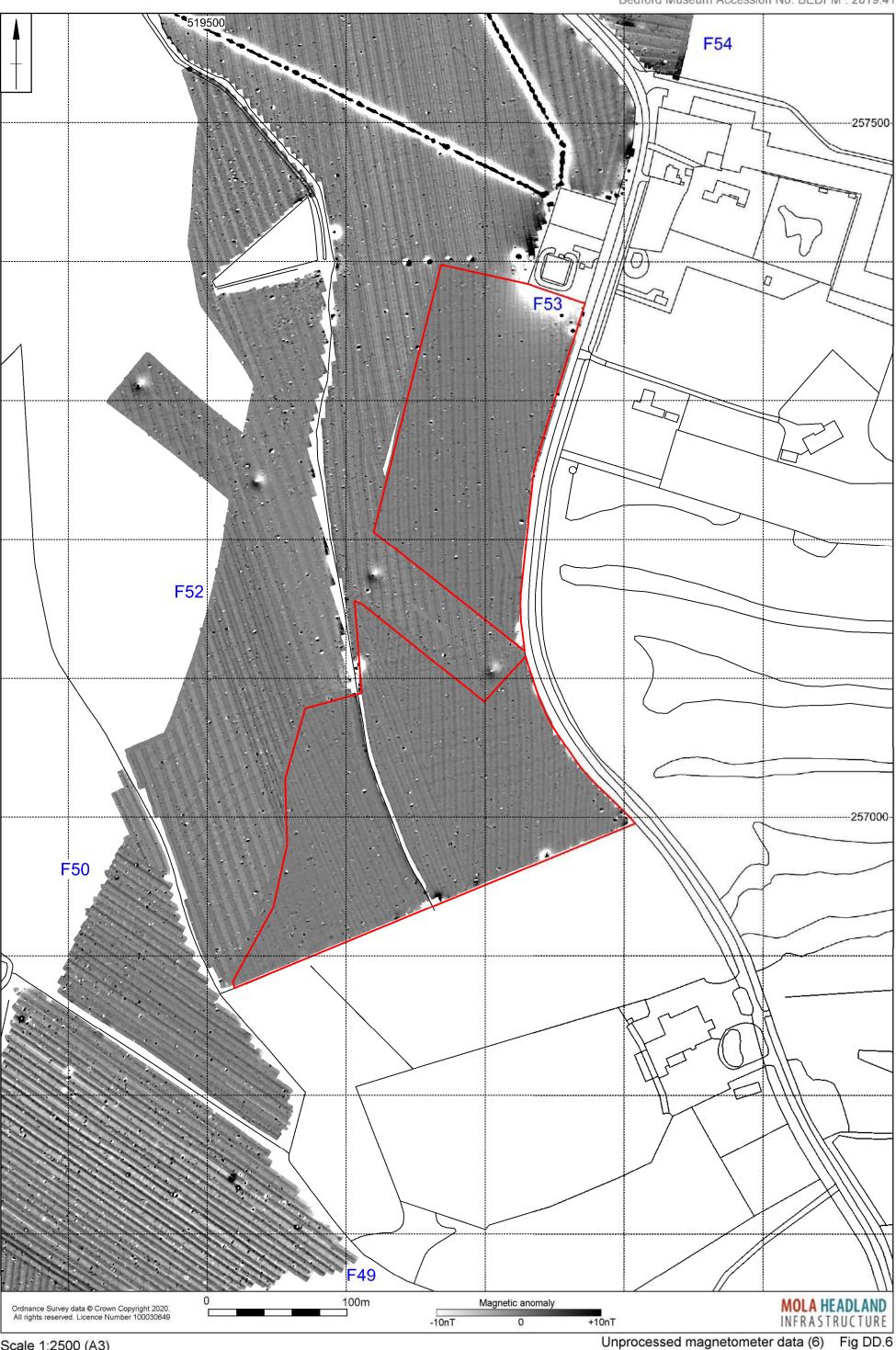
Unprocessed magnetometer data (1) Fig DD.1



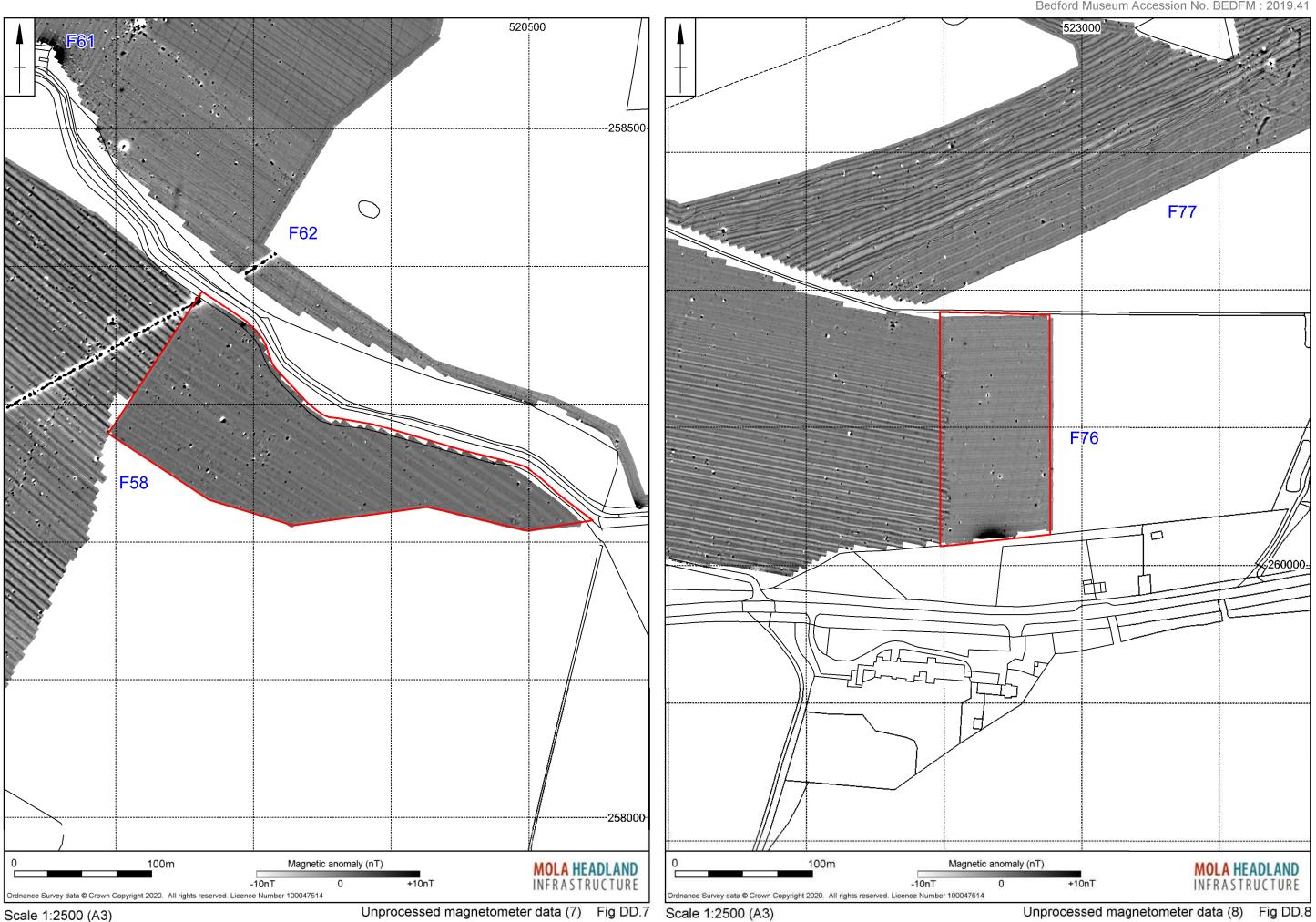




Cambridgeshire HER Event No. ECB5852 Bedford Museum Accession No. BEDFM : 2019.41

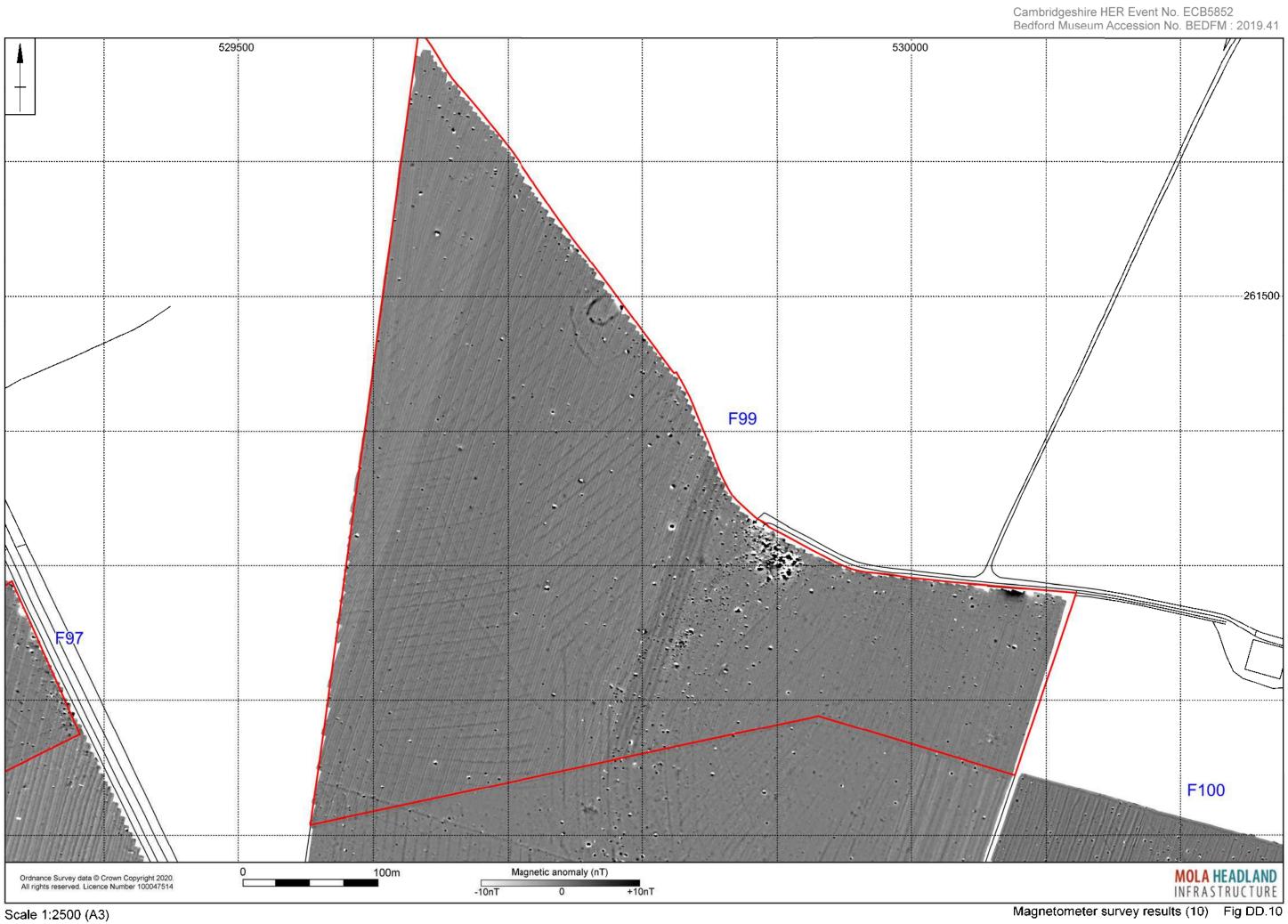


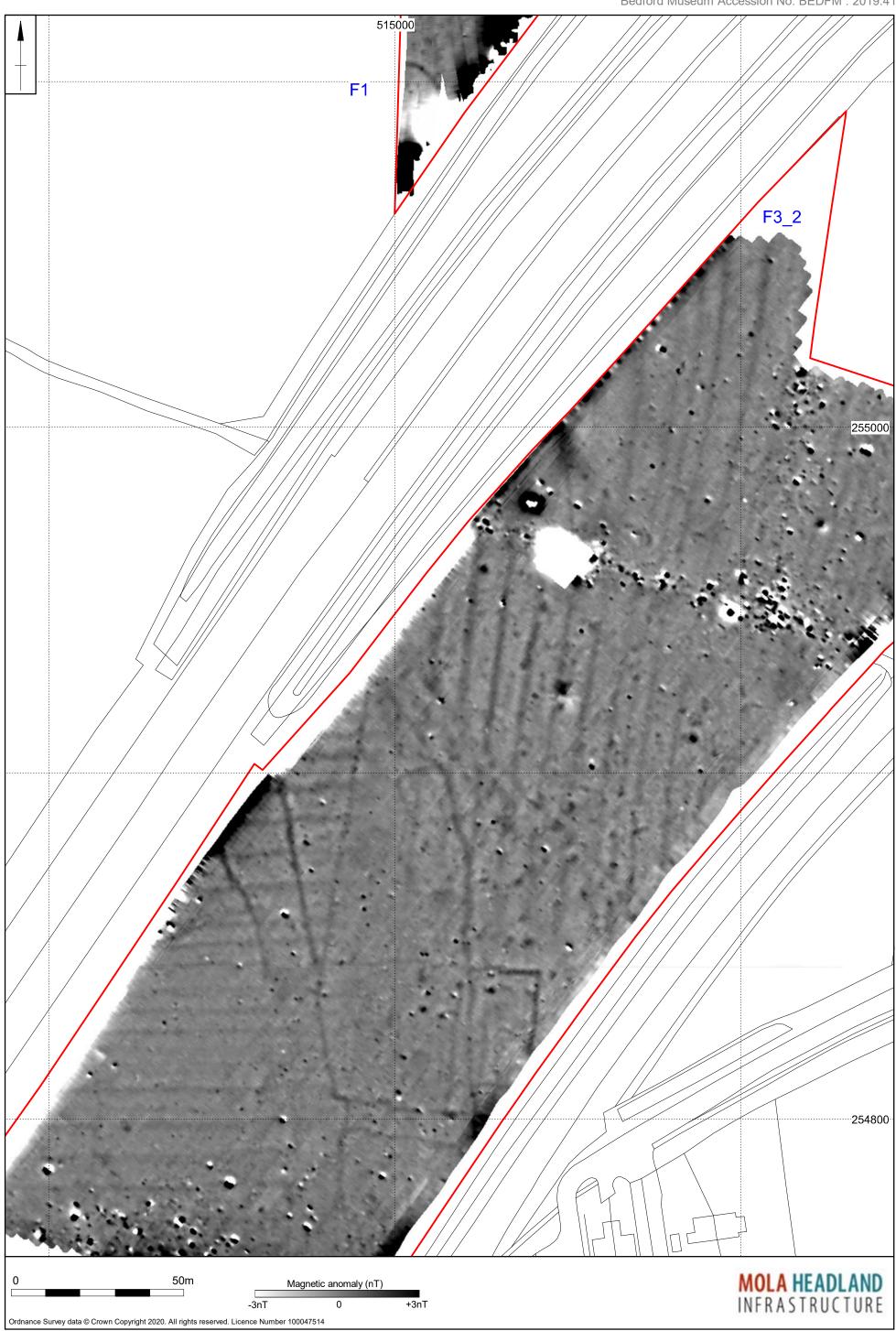
Scale 1:2500 (A3)



Cambridgeshire HER Event No. ECB5852 Bedford Museum Accession No. BEDFM : 2019.41

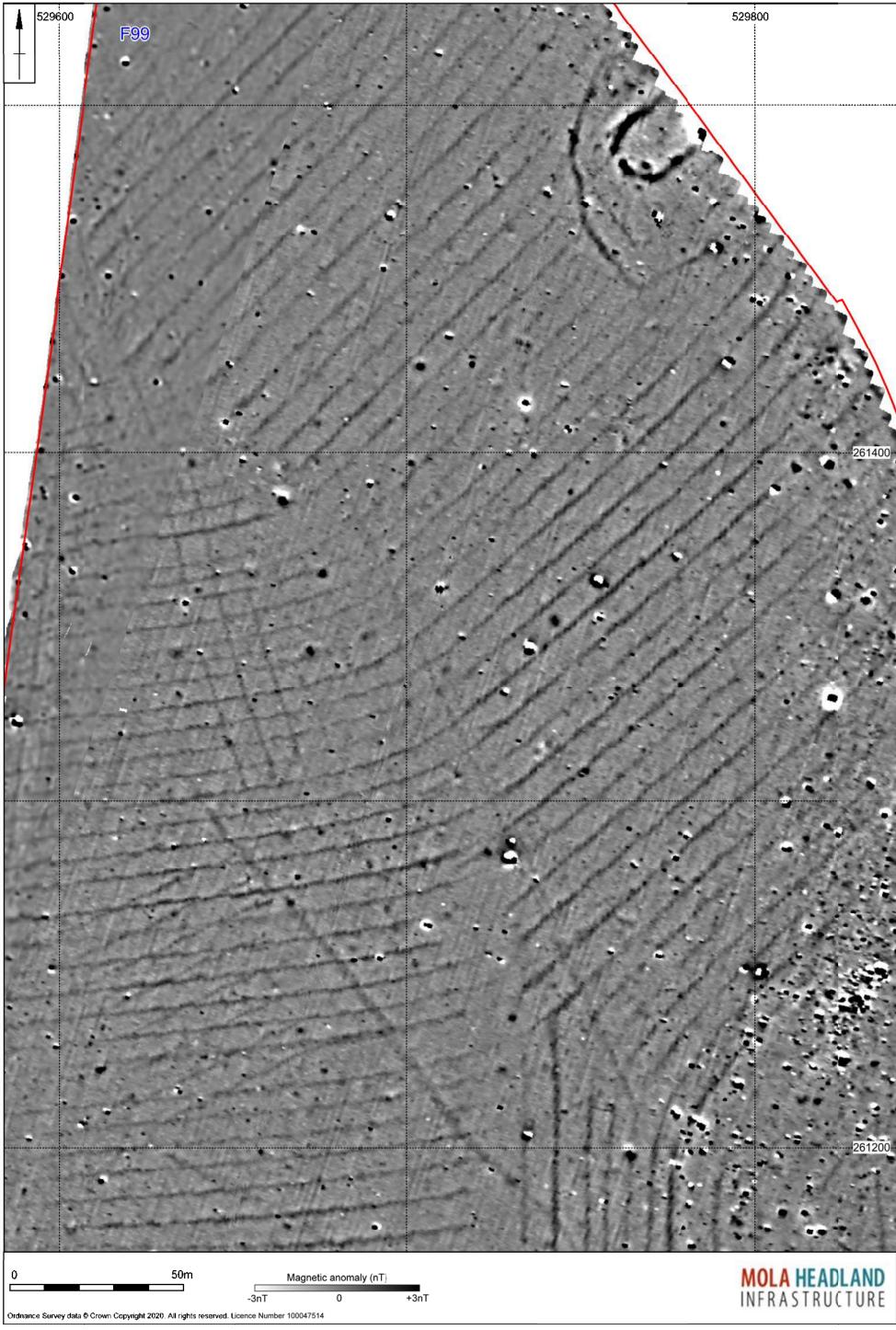






Scale 1:1000 (A3)

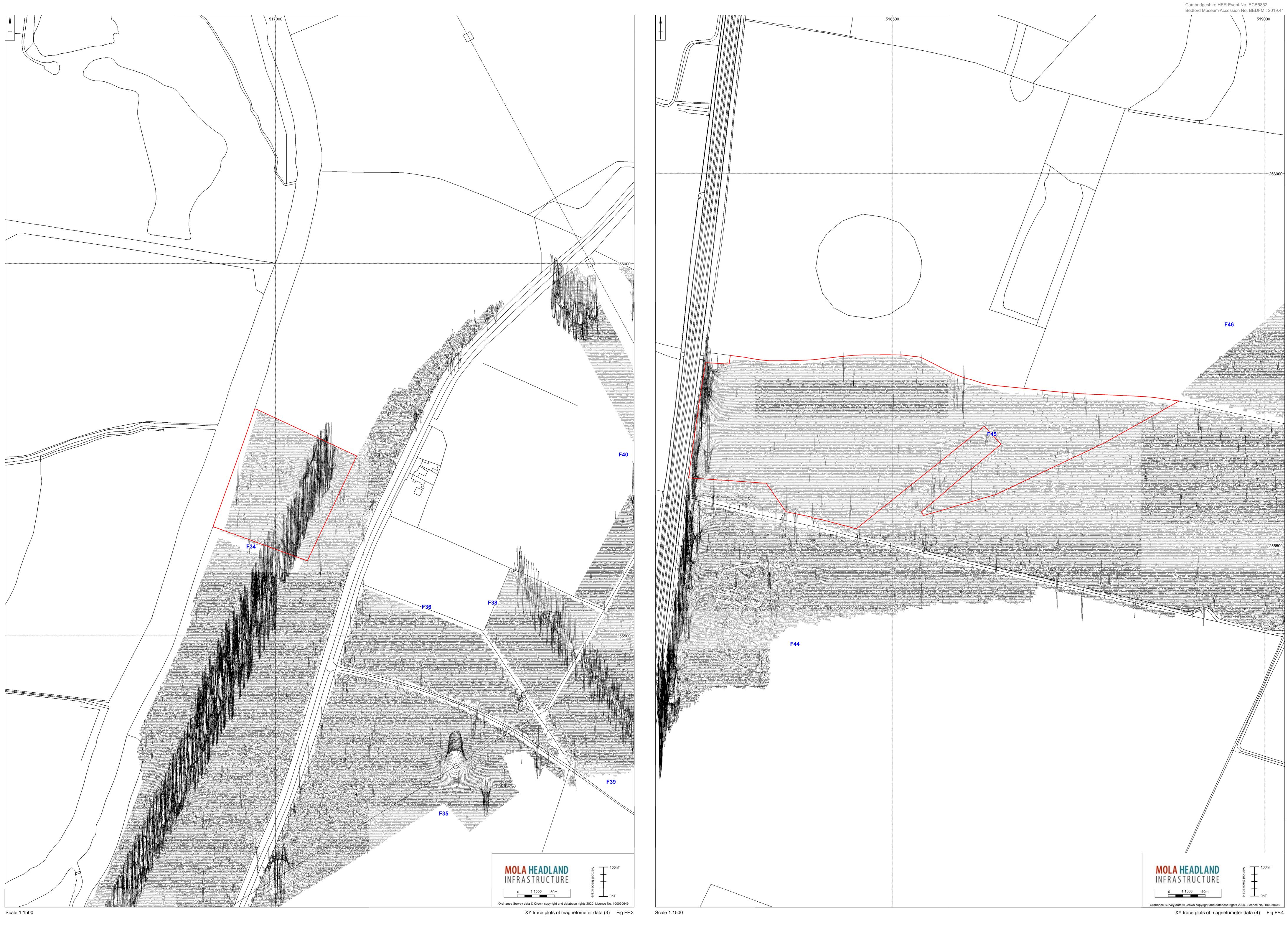
Close-up of archaeological features in Field 3_2 Fig EE.1



Scale 1:1000 (A3)

Close-up of archaeological features in Field 99 Fig EE.2

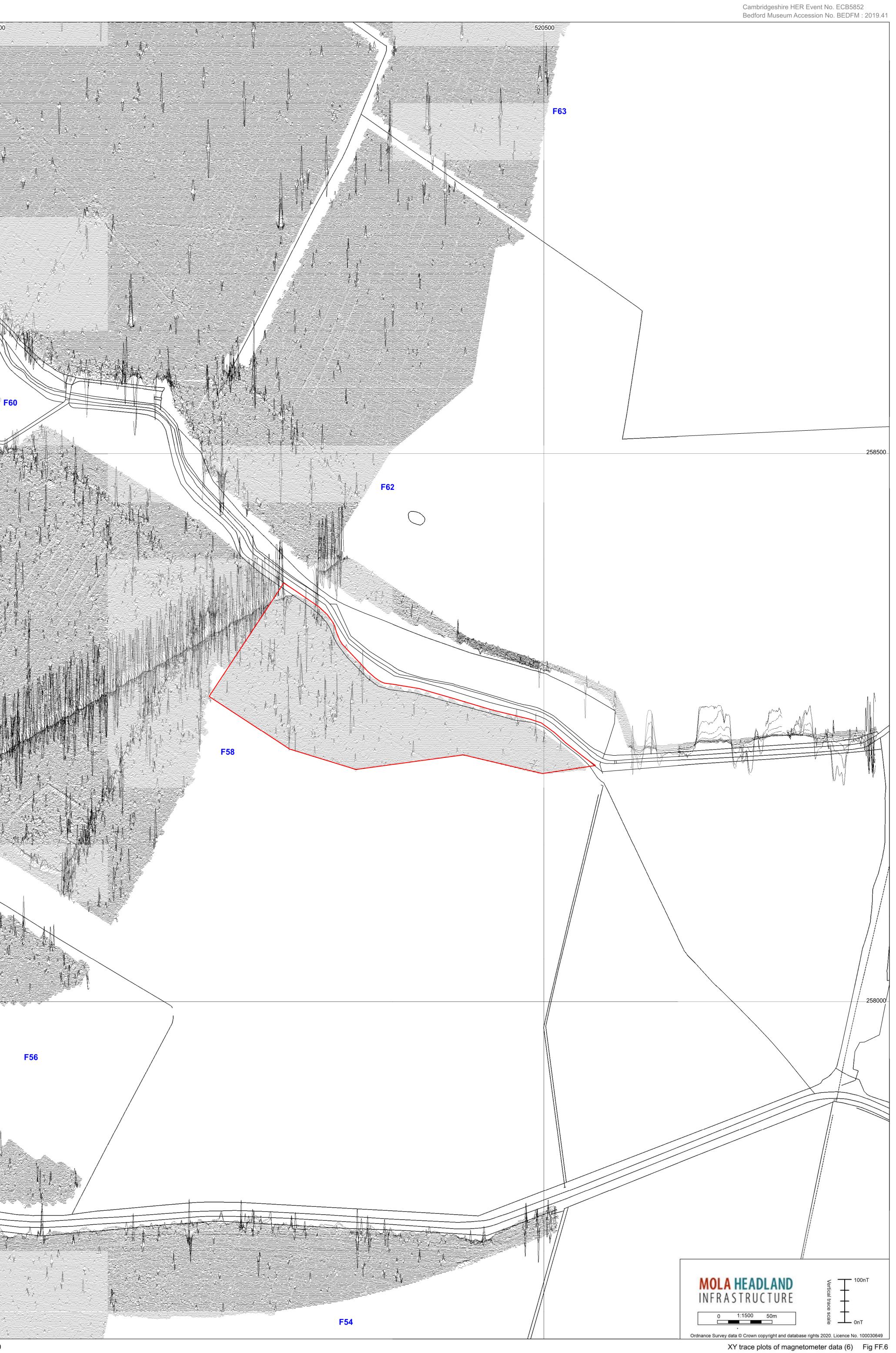


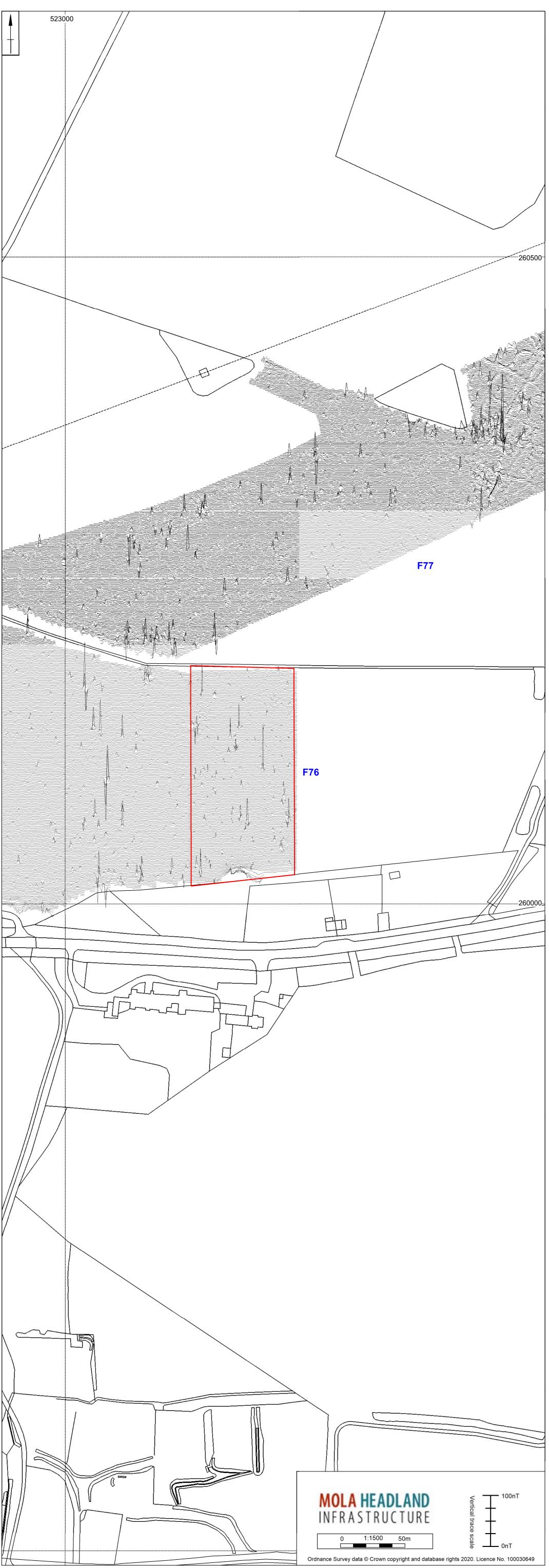




Scale 1:1500

520000





Scale 1:1500

XY trace plots of magnetometer data (7) Fig FF.7

